AC - 11/07/2022 ItemNo. <u>6.5 (R)</u>



	<u>UNIVE</u>	ERSITY OF MUMBAI
Sr. No.	<u>Syl</u> Heading	l <u>abus for Approval</u> Particulars
1	Title of the Course	F.Y.B. Sc. (Chemistry)
2	Eligibility for Admission	12th Science of all recognized Board
3	Passing Marks	40%
4	Ordinances / Regulations (if any)	bretvolt
5	No. of Years /Semesters	Two
6	Level	UG
7	Pattern	Semester
8	Status	Revised
9	To be implemented from Academic Year	From Academic Year: 2022-2023

Date: H.

Dr Vishwanath Patil Chairman BoS in Chemistry

Signature: Mayumdas

Dr. Anuradha Majumdar Dean, Science and Technology

Proposed syllabus for CBCS

F. Y. B. Sc. Chemistry

For the subject of chemistry, there shall be two papers for 45 lectures each comprising of three units of 15 L each.

Semester-I

Paper-I / II (General Chemistry) Unit-I will be for PhysicalChemistry Paper-I / II Unit-II will be for Inorganic Chemistry Paper- I / II Unit-III will be for OrganicChemistry.

Semester-II

Paper-I /II (General Chemistry) Unit-I will be for PhysicalChemistry Paper-I / II Unit-II will be for Inorganic Chemistry Paper-I / II Unit-III will be for OrganicChemistry

Choice Based Credit System F.Y.B.Sc. Chemistry Syllabus To be implemented from the Academic year 2022-2023

SEMESTER I

Course Code	Unit	Торіс	Credits	L/per week
USCH101 I C		Chemical Thermodynamics Chemical calculations		1
		Atomic structure	2	1
		Basics of Organic Chemistry:		
		Bonding and Structure of organic compounds		1
		Fundamentals of organic reaction Mechanism		
USCH102		Chemical Kinetics	2	1
		Liquid States		
	п	Comparative Chemistry of Main Group elements		1
	III	Stereochemistry I		1
USCHP1	Chemistry Practical		2	6

Course Code	Unit	Торіс	Credits	L/per week
	I	Gaseous State Electrochemistry – I	-	1
1196/11/201		Chemical Equilibria and Thermodynamic Parameters		
USCH201		Concept of Qualitative Analysis	2	1
	П	Acid Base Theories		
	ш	Chemistry of Aliphatic Hydrocarbons		1
	I	Ionic Equilibria Photochemistry Molecular Spectroscopy	-	1
	SCH202 II Oxidation Reduction	Chemical Bond and Reactivity	2	
USCH202		Oxidation Reduction Chemistry		1
	III	Stereochemistry II	-	
		Aromatic Hydrocarbons		1
USCHP2		Chemistry Practical		6

SEMESTER II

Programme Outcomes B.Sc. Chemistry

The student graduating with the Degree B.Sc Chemistry should be able to acquire;

- Core competency: Students will acquire core competency in the subject Chemistry, and in allied subject areas.
- A systematic and coherent understanding of the fundamental concepts in Physical chemistry, Organic Chemistry, Inorganic Chemistry, Analytical Chemistry, and all other related allied chemistry subjects.
- Students will be able to use the evidence-based comparative chemistry approach to explain chemical synthesis and analysis.
- Students will be able to characterize, identify and separate components of organic or inorganic origin and will also be able to analyze them by making use of the modern instrumental methods learned.
- Students will be able to understand the basic principle of equipmentand instruments used in the chemistry laboratory.
- Students will be able to demonstrate the experimental techniques and methods of their area of specialization in Chemistry
- The course curriculum also includes components that can be helpful to graduate students to develop critical thinking ability by way of solving problems/numerical using basic chemistry knowledge and concepts.
- Appreciate the central role of chemistry in our society and use this as a basis for ethical behavior in issues facing chemists including an understanding of safe handling of chemicals, environmental issues, and key issues facing our society in terms of energy, health, and medicine.
- Lifelong learner: The course curriculum is designed to inculcate a habit of learning continuously through the use of advanced ICTtechniques and other available techniques/books/journals for personal academic growth as well as for increasing employability opportunity.

SEMESTER I Paper I UNIT I

1.1	Chemical Thermodynamics (10 L)		
	Thermodynamic terms; System, surrounding, boundaries, types of system, Intensive		
	and Extensive properties, State functions and path functions, Thermodynamic processes.		
	First law of thermodynamics: Concept of heat (q), work (w), internal energy (U),		
	enthalpy, heat capacity, relation between heat capacities, sign conventions, calculations		
	of heat, work, internal energy and enthalpy (H).		
	Thermochemistry: Heat of reactions, standard states, enthalpy of formation of		
	molecules, enthalpy of combustion and its applications, calculations of bond energy,		
	bond dissociation energy and resonance energy from thermochemical data, Kirchhoff's		
	equation (Numerical problems expected wherever percessery)		
1 2	(Numerical problems expected wherever necessary)		
1.2	Methods of expressing concentration of solutions: Normality Molarity Formality Mole		
	fractions Weight ratio Volume ratio Weight to volume ratio num num millimoles		
	milliequivalents. Preparation of solutions		
	(Numerical problems expected wherever necessary)		
	UNIT II		
2.1	Atomic structure:(8 L)		
	Historical perspectives of the atomic structure; J. J. Thomson Model, Rutherford		
	Atomic Model- alpha particle scattering experiment, Bohr's theory, its limitations and		
	atomic spectrum of hydrogen atom. Structureof hydrogenatom.		
	Simple principles of quantum machanics		
	A terriser litele		
	Atomicorbitals		
	Hydrogenic energylevels		
	Shells, subshells and orbitals		
	Electronspin		
	Radial shapes of orbitals		
	Angular shapes of orbitals.		
	Aufbauprinciple, Hund's rule of maximum multiplicity and Pauli exclusion principle		
2.2	Periodic Table and periodicity:(7 L)		
	Long form of Periodic Table; Classification for elements as main group, transition and		
	inner transition elements.		
	Periodicity in the following properties: Atomic and ionic size, electron gain enthalpy,		
	ionization enthalpy, effective nuclear charge (Slater's rule), electronegativity,		
	Pauling and Mulliken methods. (Numerical problemsexpected, wherever applicable.)		
-			
3	Basics of Organic Chemistry		
3.1	Classification and Nomenclature of Organic Compounds: (5L)		
	Nomenciature of mono and pi-functional aliphatic compounds on the basis of		
	balaalkanaa alaahala athara aldahudaa kataraa aarhayulia aaida aarhayulia aaid		

	derivatives (acid halides, esters, anhydrides, amides), nitro compounds, nitriles and		
2.2	amines and their cyclic analogues.		
3.2	Bonding and Structure of organic compounds: (4L)		
	hybridization: sp5, sp2, sp hybridization of carbon and hitrogen; sp5 and sp2 hybridizations of oxygon in Organia compounds (alashol other aldebyde katene		
	nybraizations of oxygen in Organic compounds (alconol, ether, aldenyde, ketone,		
	Overlan of eternia exhitely. Overland of eternia exhitely to form signa and ni hands		
	overlap of atomic orbitals. Overlaps of atomic orbitals to form signa and pr bonds,		
	shapes of organic molecules.		
	shapes of molecules; influence of hybridization on bond properties (as applicable to		
	ethane, ethene, ethyne).		
3.3	Fundamentals of organic reaction mechanism: (6L)		
0.0	Electronic Effects: Inductive, electromeric, resonance and mesomeric effects.		
	hyperconjugation and their applications. Dipole moment: Organic acids and bases: their		
	relative strengths.		
	Basic terms & concepts :: Homolytic and Heterolytic fission with suitable examples.		
	Electrophiles and Nucleophiles: Nucleophilicity and basicity. Electrophilicity and		
	acidity.		
	Types (primary, secondary, tertiary, allyl, benzyl), shape and their relative stability		
	of the following reactive intermediates:		
	i. Carbocations ii. Carbanions and iii. Free radicals		
	Introduction to types of organic reactions: Addition, Elimination and Substitution		
	reaction. (With one example of each)		
	Semester- I		
	Paper – II		
	Unit – I		
1.1	Chemical Kinetics: (8L)		
	Rate of reaction, rate constant, measurement of reaction rates, order and molecularity of		
	and the Intermeted note expetien of first and an and Second and an acceptions (with acres)		
	reaction, integrated rate equation of first order and Second order reactions (with equal		
	initial concentration of reactants)		
	initial concentration of reactants) Determination of order of reaction by a) Integration method b) Graphical method c)		
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	Metallic and non-metallic nature, oxidation states, electronegativity, anomalous behavior		
	of second period elements, allotropy, catenation, diagonal relationship.		
	Comparative chemistry of oxides and hydroxides of group I and group II elements.		
	Some important compounds- NaHCO3, Na2CO3, CaO, CaCO3;		
	oxides of carbon, oxides of Sulphur and Nitrogen with respect to environmental aspects		
	like greenhouse effect, photochemical smog and acid rain.		
	Unit III		
3	Stereochemistry I: (15L)		
	Projection formulae: Flying Wedge projection, Fischer Projection, Newman and		
	Sawhorse Projection formulae (of erythro, threo isomers of tartaric acid and 2,3 -		
	dichlorobutane) and their interconversions; Geometrical isomerism in alkene and		
	cycloalkanes: cis-trans and syn-anti isomerism E/Z notations with C.I.P rules.		
	Optical Isomerism: Optical Activity, Specific Rotation, Chirality/Asymmetry,		
	Enantiomers, Molecules with two similar and dissimilar chiral-centres, Diastereoisomers,		
	meso structures, racemic mixture and resolution (methods of resolution not expected).		
	Relative and absolute configuration: D/L and R/S designations. Conformational		
	analysis of alkanes (ethane, propane and n-butane); Relative stability with energy		
	diagrams		

Semester II Paper I Unit I

1.1	Gaseous State (6L)		
	Kinetic theory of gases, Maxwell-Boltzmann's distribution of velocities (Qualitative		
	discussion), Ideal gas laws, Deviation from ideal gas laws, Ideal and real gases, Reasons		
	for deviation from ideal gas laws, Compressibility factor, Boyle's temperature, van de		
	waals equation of state, Critical phenomena, Relation between critical constants and var		
	(Numerical methods associed whenever records w)		
	(Numerical problems expected wherever necessary)		
1.2	Electrochemistry - I (4 L)		
	Conductance, specific conductance, equivalent conductance, molar conductance,		
	Variation of molar conductance with concentration of strong and weak electrolyte.		
	Reversible electrodes, Electrode potential, standard electrode potential, Galvanic cells,		
	Conventions to represent the galvanic cells, Concept of emf of cell.		
	(Numerical problems expected wherever necessary)		
1.3	Chemical Equilibria and Thermodynamic Parameters (5L)		
	Second law of thermodynamics, concept of entropy, Physical significance of entropy,		
	Concept of free energy, Helmholtz and Gibbs free energy, Variation of free energy with		
	temperature and pressure, Spontaneity and Physical significance of free energy.		
	Re Reversible and irreversible reactions, equilibrium constants (Kc and Kp), relationship		
	between Kc and Kp. Thermodynamic derivation of equilibrium constant		
	(Numerical problems expected wherever necessary)		
	Unit II		

2	Concept of Qualitative Analysis:(8 L)		
2.1	Testing of Gaseous Evolutes, Role of Papers impregnated with Reagents in qualitative		
	analysis (with reference to papers impregnated with starchiodide, potassium dichromate,		
	lead acetate, dimethylglyoxime and oxinereagents).		
	Precipitation equilibria, Formation of precipitates likeAgCl, AgBr, AgI and BaSO ₄		
	effect of common ions, uncommon ions, oxidationstates, buffer action, complexing		
	agents on precipitation of ionic compounds. (Balanced chemical equations)		
2.2	Acid Base Theories: (7L)		
	Arrhenius, Lowry- Bronsted, Lewis, Solvent – Solute concept of acids and bases,		
	Usanovich concept, Hard and Soft acids and bases, Applications of HSAB.		
	Unit III		
3	Chamistry of Alinhatia Hydrogarbons		
5	Chemistry of Anphatic Hydrocarbons		
3.1	Carbon - Carbon sigma bonds: (3L)		
	Chemistry of alkanes: Formation of alkanes, Wurtz Reaction, Wurtz-Fittig reaction, free		
	radical substitutions: Halogenation - relative reactivity and selectivity		
3.2	Carbon - Carbon pi bonds (12L):		
	Formation of alkenes and alkynes by elimination reactions: Mechanism of E1, E2,		
	E1cb reaction. Saytzeff and Hofmann eliminations		
	Reactions of alkenes: Electrophilic additions with mechanisms		
	(Markownikoff / AntiMarkownikoff addition),		
	Mechanism of oxymercuration - demercuration, hydroboration - oxidation, ozonolysis,		
	reduction (catalytic and chemical), syn- and anti-dihydroxylation (oxidation), 1, 2- and		
	1, 4-addition reactions in conjugated dienes, Diels-Alder reaction.		
	Reaction of alkynes : Acidity, Electrophilic and Nucleophilic additions with		
	mechanisms. Hydration to form carbonyl compounds, Alkylation of terminal alkynes		
	Somostor II		
	Paner II		
1.1	Ionic Equilibria: (7L)		
	Strong and weak electrolytes, degree of ionization, factors affecting degree of		
	ionization, lonization constant and ionic product of water, lonization of weak acids and		
	bases, Dissociation constants of mono-, di-, and tri-protic acids.		
	pH scale, Buffer solutions, types of buffers, Derivation of Henderson equation for acidic		
	and basic buffers, Buffer action, buffer capacity		
	(Numerical problems expected, wherever necessary)		
1.2	Photochemistry (4L)		
	Laws of photochemistry, Quantum yield or efficiency, experimental determination of		
	quantum vield, Reasons for low and high quantum vield, Primary and secondary		
	processes.		
	Photochemical reactions (with suitable examples). Photosensitizers and photosensitized		
	reactions. Fluorescence, Phosphorescence and Chemiluminescence.		
	(Numerical problems expected, wherever necessary)		
1.3	Molecular Spectroscopy: (4L)		
1.0	Electromagnetic radiation, electromagnetic spectrum Planck's equation Interaction of		
	electromagnetic radiation with matter: Absorption Emission Scattering Electronic		
	Vibrational and Potational transitions Beer Lamberts law		

	(Numerical problems expected, wherever necessary)
	Unit II
2.1	Chemical Bond and Reactivity:(10 L) Types of chemical bond, comparison between ionic and covalent bonds, polarizability (Fajan's Rule), shapes of molecules, Lewis dot structure, Sidgwick Powell Theory, basic VSEPR theory for AB _n type molecules with and without lone pair of electrons, isoelectronic principles, applications and limitations of VSEPR theory.
2.2	Oxidation Reduction Chemistry: (5L)
	Redox potentials: half reactions; balancing redox equations.
	I
	KMnO ₄
	Unit III
3.1	Stereochemistry II: (5L) Cycloalkanes and Conformational Analysis: (5L)
	Types of cycloalkanes and their relative stability, Baeyer strain theory, Conformational analysis of cyclohexane: Chair, Boat and Twist boat forms; Relative stability with energy diagram.
3.2	Aromatic Hydrocarbons: (10L) Aromaticity: Hückel's rule, anti-aromaticity, aromatic character of arenes, cyclic carbocations/carbanions and heterocyclic compounds with suitable examples.
	Electrophilic aromatic substitution: halogenation, nitration, sulphonation and Friedel-Crafts alkylation/acylation with their mechanism, Directing effects of the groups

Reference Books:

Unit – I

Concise Graduate Chemistry – I, II, III & IV, University Text Book of Chemistry, Universityof Mumbai.

2)

Atkins, P. W. & Paula, J. de Atkin's Physical Chemistry 10th Ed., OxfordUniversity Press (2014).

Castellan, G. W. Physical Chemistry 4th Ed. Narosa (2004).

Keith J. Laidler& John H. Meiser, Physical Chemistry, 2nd Ed. (2004)

Puri B. R., Sharma L. R. & Pathania M. S. Principles of Physical Chemistry, Vishal Publishing Company, 2008

Ball, D. W. Physical Chemistry Thomson Press, India (2007).

Mortimer, R. G. Physical Chemistry 3rd Ed. Elsevier: NOIDA, UP (2009).

Engel, T. & Reid, P. Physical Chemistry3rd Ed., Prentice-Hall (2012).

McQuarrie, D. A. & Simon, J. D. *Molecular Thermodynamics* Viva Books Pvt. Ltd.: New Delhi (2004).

Levine, I.N. Physical Chemistry 6th Ed., Tata Mc Graw Hill (2010).

Unit II

Concise Graduate Chemistry – I, II, III & IV, University Text Book of Chemistry, University of Mumbai.

Lee, J.D. Concise Inorganic Chemistry ELBS, 1991.

- Douglas, B.E. and McDaniel, D.H. Concepts & Models of Inorganic Chemistry, Oxford, 1970
- Atkins, P.W. & Paula, J. Physical Chemistry, 10th Ed., Oxford University Press, 2014.Day,
- M.C. and Selbin, J. Theoretical Inorganic Chemistry, ACS Publications, 1962.
- Rodger, G.E. Inorganic and Solid State Chemistry, Cengage Learning India

Unit III

- Concise Graduate Chemistry I, II, III & IV, University Text Book of Chemistry, University of Mumbai.
- Morrison, R. T. and Boyd, R. N. Organic Chemistry, Dorling Kindersley (India) Pvt Ltd. (Pearson Education).2012
- Finar, I. L. Organic Chemistry (Volume 1), Dorling Kindersley (India) Pvt Ltd. (Pearson Education).
- Finar, I. L. Organic Chemistry (Volume 2: Stereochemistry and the Chemistry of Natural Products), Dorling Kindersley (India) Pvt Ltd. (Pearson Education).
- Eliel, E. L. and Wilen, S. H. Stereochemistry of Organic Compounds, Wiley: London, 1994
- Kalsi, P. S. Stereochemistry Conformation and Mechanism, New Age International, 2005.
- Mc Murry, J.E. Fundamentals of Organic Chemistry, 7th Ed. Cengage Learning IndiaEdition, 2013
- Paula Y Bruice, Organic Chemistry, 7th Ed, Pearson education, Asia.2014
- Graham Solomon, Fryhle, Dnyder, Organic Chemistry, Wiley publication. 12 th Ed, 2016
- Bahl and Bahl, Advanced Organic chemistry by S. Chand publication.2010
- Peter Sykes. Guidebook to the mechanism in Organic chemistry ,6thedition
- D. Nasipuri.Stereochemistry of Organic Compounds, Principles and Applications, SecondEdition

Chemistry lab. Semester – I

Unit – I: Physical Chemistry

To prepare 0.1 N succinic acid and standardize the NaOH solution of different concentrations. To determine the rate constant for the hydrolysis of ester using HCl as catalyst.

- To determine enthalpy of dissolution of salt (KNO₃)
- Determination of viscosity of aqueous solutions of (i) polymer (ii) ethanol and (iii) sugar at room temperature (Any two solutions).

Unit II: Inorganic Chemistry

Commercial analysis of (anytwo)

Mineralacid

Organicacid

Salt of weak acid and strongbase.

Titration using double indicator: analysis of solution of Na₂CO₃andNaHCO₃

Gravimetric analysis

To determine the percent purity of sample of BaSO₄containingNH₄Cl To determine the percent purity of ZnO containingZnCO₃.

Unit III Organic Chemistry

Purification of organic compounds by recrystallization selecting suitable solvent (minimum 2 organic compounds to be given)

(Learners are expected to report a) Solvent for recrystallization. b) Percentage Yield and the melting points of the purified compound.)

Basic principles of Organic compound characterization (minimum 4 Solid organic compounds) (Learners should perform Preliminary Tests, Solubility Test, obtain melting point and recrystallize the compound with given solvent)

Minimum 80 percent of practical must be completed in each term

Chemistry lab: Semester - II

Unit – I: Physical Chemistry

- To determine the amount of strong acid in the given solution by titrating against strong base conductometrically.
- To determine the dissociation constant of weak acid (Ka) using Henderson's equation and the method of incomplete titration pH metrically.
- To verify Beer-Lamberts law using KMnO₄ solution by colorimetric method.
- To standardize commercial sample of HCl using borax and to write material safety data of the chemicals involved.

Unit II Inorganic Chemistry

Qualitative analysis: (5 mixtures to beanalyzed)

Semi-micro inorganic qualitative analysis of a sample containing two cations and two anions(from amongst):

Cations (from amongst): Pb²⁺, Ba²⁺, Ca²⁺, Sr²⁺, Cu²⁺, Cd²⁺, Fe²⁺, Ni²⁺, Mn²⁺, Mg²⁺, Al³⁺, Cr³⁺, K⁺, NH₄⁺

Anions (from amongst):CO₃²⁻, S²⁻, SO ²⁻, NO₂⁻, NO₃⁻, Cl⁻, Br⁻, I⁻, SO₄²⁻, PO₄ (Scheme of analysis should avoid use of sulphide ion in any form for precipitation/ separation of cations.)

Redox Titration: To determine the percentage of copper(II) present in agiven sample by titration against a standard aqueous solution of sodium thiosulfate (iodometrytitration)

Unit III Organic Chemistry

1) Characterization of organic compounds containing C, H, (O), N, S, X elements (6 solid/liquid Organic compounds)

(Preliminary Tests, Solubility/Miscibility Test, Detection of Elements, Detection of Functional group and determination of Physical constant)

Minimum 80 percent of practicals must be completed in each term

Reference Books

Unit I:Physical Chemistry

- Laboratory Experiments in Chemistry I & II, University Practical Book of Chemistry, University of Mumbai.
- Athawale, V. D. & Mathur, P. *Experimental Physical Chemistry* New Age International: New Delhi (2001).
- Khosla, B. D.; Garg, V. C. & Gulati, A. Senior Practical Physical Chemistry, R. Chand & Co.: New Delhi (2011).
- Garland, C. W.; Nibler, J. W. & Shoemaker, D. P. *Experiments in Physical Chemistry8*th Ed.; McGraw-Hill: New York (2003).
- Halpern, A. M. &McBane, G. C. *Experimental Physical Chemistry3rd Ed.;* W.H. Freeman & Co.: New York (2003).

Unit II: Inorganic Chemistry

Laboratory Experiments in Chemistry I & II, University Practical Book of Chemistry, University of Mumbai.

Mendham, J., A. I. Vogel's *Quantitative Chemical Analysis* 6thEd., Pearson, 2009.

Unit III: Organic Chemistry

Laboratory Experiments in Chemistry I & II, University Practical Book of Chemistry, University of Mumbai.

Mann, F.G. & Saunders, B.C. Practical Organic Chemistry, Pearson Education (2009).

Furniss, B.S.; Hannaford, A.J.; Smith, P.W.G.; Tatchell, A.R. Practical Organic Chemistry, 5th Ed., Pearson (2012).

Vogel, A.I., Tatchell, A.R., Furnis, B.S., Hannaford, A.J. & Smith, P.W.G., Textbook of Practical Organic Chemistry, Prentice-Hall, 5th edition, 1996.

AC_11-5-2017

Item No.____

UNIVERSITY OF MUMBAI

Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of Course	S. Y. B. Sc. Chemistry
		F. Y. B. Sc. Passed from this university (or with ATKT in any two courses at the F. Y. B. Sc. Level) or equivalent qualification from other universities as may have been allowed by the relevant
2	Eligibility for Admission	ordinances of this university
3	Passing marks	40%
4	Ordinances/Regulations (if any)	
5	No. of Semesters	Two
6	Level	U.G.
7	Pattern	Semester
8	Status	New
9	To be implemented from Academic year	2017-2018

Date : 05-5-2017 BoS Chairperson: Convener: Dr. Ravindra G. Deshmukh Signature: Dr. Anil V. Karnik

UNIVERSITY OF MUMBAI

Essentials Elements of The Syllabus

1	Title of Course	Syllabus for two semester S. Y. B. Sc.
2	Corres Code	LISCH201 LISCH202 LISCH202
2	Couse Code	USCH301, USCH302, USCH303
		USCH401, USCH402, USCH404
		USCHP1 to USCHP6
3	Preamble	Attached
4	Objective	 To infuse in the learner a spirit of inquiry into the fundamental aspects of the various core areas of Chemistry. To make the learner proficient in analysing the various observations and chemical phenomena presented to him during the course. To make the learner capable of solving problems in the various units of this course To give the learner an opportunity to get hands on experience of the various concepts and processes in the various branches of chemistry To impart various skills of handling chemicals, reagents, apparatus, instruments and the care and safety aspects involved in such handling To make the learner capable of analysing and interpreting results of the experiments he conducts or performs
5	Eligibility	Pass F. Y. B. Sc.
6	Fee Structure	As Per Guidelines issued from the
		University
7	No. of Lectures	9 lectures per week (three lectures per
		paper)
8	No. of Practicals	9 periods per week (three periods per
		paper)
9	Duration of Course	Two Semester

10	Notional Hours	72 hours per paper per semester Theory
		and 36 hours per paper per semester for
		laboratory sessions
11	No of students per batch	120 students per division (20 Students for
		laboratory sessions)
12	Selection	As per merit.
13	Assessment	End of semester examination of 100
		marks per paper for theory and 50
		marks per paper for laboratory sessions
14	Syllabus Detail	Attached
15	Title of the Unit	As given in the Syllabus text
16	Title of the Sub-unit	As given in the syllabus text.
17	Semester wise Theory	As prescribed in the syllabus text
18	Semester wise Practicals	As prescribed in the syllabus text.
19	Question Paper Pattern	As prescribed by the Faculty of Science
20	Scheme of evaluation of	N.A.
	Project	
21	List of suggested reading	As Attached
22	List of websites	As Attached
23	List of You Tube videos	As attached
24	List of MOOCs	As Attached

REGULATIONS

Preamble and objectives of the Course :

In the first two semseters of the six semester graduation program of B. Sc.(Chemistry) the learner was introduced to some basic aspects in the various core branches of chemistry like Physical Chemistry, Organic chemistry and Inorganic chemistry. Concepts about the structure of atom, distribution of electrons, Thermodynamics, Formation of organic compounds and basic ideas in reactivity of molecules in general and organic compounds in particular were introduced to the learner. He was made inquisitive about why and how should atoms combine to give molecules or ions. The non-orbital approach to appreciating the shapes of polyatomic species in general and molecules in particular.

The story of chemistry is taken further in the coming two semesters of the second year of the B. Sc. (Chemistry) Program. However it is also realised that some students opting for the course on Chemistry may not continue with the subject subsequently as such the syllabus is designed to retain the interest of the serious learner of chemistry as well as be helpful to non-chemistry learners. With such students who would want to pursue other branches of science but would want to acquire a basic appreciation and experience of chemistry a separate paper (Paper-III) is designed. This paper along with the laboratory session unit that goes with it deals with the basics of chemical analysis, separating components from a given sample, basic concepts like pH, experimental techniques like Titrimetry, Gravimetry, using instruments to carry out analysis, the various techniques like chromatography, electrophoresis, Instrumentation in general is felt to be of interest to learners of various branches like physics, botany, zoology, and microbiology.

The major objectives of B.Sc. Chemistry course are

To infuse in the learner a spirit of inquiry into the fundamental aspectsof the various core areas of Chemistry.

- To make the learner proficient in analysing the various observations and chemical phenomena presented to him during the course.
- To make the learner capable of solving problems in the various units of this course
- To give the learner an opportunity to get hands on experience of the various concepts and processes in the various branches of chemistry
- To impart various skills of handling chemicals, reagents, apparatus, instruments and the care and safety aspects involved in such handling
- To make the learner capable of analysing and interpreting results of the experiments he conducts or performs
- To make the learner capable of acquiring or pursuing a source oflivelihood like jobs in chemical industry

To arouse the interest to pursue higher levels of learning in chemistry, **Condition for Admission**

A candidate who has passed the F.Y.B.Sc. of Mumbai University or an examination of some other university accepted by the syndicate as equivalent there to with Chemistry, Physics, Maths, Botany, Zoology or Life Science shall be eligible for admission into S.Y.B.Sc., course in Chemistry.

То

Duration of the Course: one year Course of study:

Draft copy of the proposed revised syllabus for Choice Based Credit System S.Y.B.Sc. Chemistry To be implemented from the Academic year 2017-2018

For the subject of chemistry there shall be three papers for 45 lectures each comprising of three units of 15 L each.

Semester-III

Paper-I (General Chemistry) Unit-I Physical Chemistry Unit-II Inorganic Chemistry Unit-III Organic Chemistry. Paper-II (General Chemistry) Unit-I Physical Chemistry Unit-II Inorganic Chemistry Unit-III Organic Chemistry. Paper III Basics of Analytical Chemistry

Semester-IV

Paper-I (General Chemistry) Unit-I Physical Chemistry					
Unit-II Inorganic Chemistry					
Unit-III Organic Chemistry.					
Paper-II (General Chemistry) Unit-I Physical Chemistry					
Unit-II Inorganic Chemistry					
Unit-III Organic Chemistry.					
Basics of Analytical Chemistry					

Paper III

Choice Based Credit System S. Y. B. Sc. Chemistry Syllabus To be implemented from the Academic year 2017-2018

Course Content Semester III

Course Code	Unit	Topics	Credits	L/Week
USCH301	Ι	Chemical Thermodynamics-II, Electrochemistry	2	1
	II	Chemical Bonding		1
	III	Reactions and reactivity of halogenated hydrocarbons, alcohols, phenols and epoxides		1
USCH302	Ι	Chemical Kinetics-II, Solutions	2	1
	II	Selected topics on p block elements		1
	III	Carbonyl Compounds		1
USCH303	Ι	Intorduction to Analytical Chemistry and Statistical	2	1
		Treatment of analytical data-I		
	II	Classical Methods of Analysis.		1
	III	Instrumental Methods-I		1
USCHP1		Chemistry Practicals I	1	3
USCHP2	Chemistry Practicals II			3
USCHP3	Chemistry Practicals III			3

Semester IV

Course Code	Unit	Topics	Credits	L/Week
USCH401	Ι	Electrochemistry-II, Phase Equilibria	2	1
	II	Comparative Chemistry of the transition metals &		1
	Ш	Carboxylic acids and their derivatives. Sulphonic acids		1
USCH402	I	Solid state, Catalysis	2	1
	II	Ions in aqeous medium & Uses and Environmental		1
		Chemistry of volatile Oxides and oxo-acids		
	III	Amines, Diazonium salts, Heterocyclic compounds		1
USCH403	Ι	Separation Techniques in Analytical Chemistry	2	1
	II	Instrumental Methods-II		1
	III	Statistical Treatment of analytical dataII		1
USCHP4		Chemistry Practicals I	1	3
USCHP5		Chemistry Practicals II	1	3
USCHP6		Chemistry Practicals III	1	3

Semester III Paper I Theory: 45 Lectures

Unit I: Physical Chemistry

Chemical Thermodynamics-II(8L)

Free Energy Functions: Helmholtz Free Energy, Gibb's Free Energy, Variation of Gibb's

free energy with Pressure and Temperature.

Gibbs-Helmholtz equation, van't Hoff reaction isotherm and van't Hoff reaction isochore.

(Numericals expected).

Thermodynamics of Open System: Partial Molal Properties, Chemical Potential and its variation with Pressure and Temperature, Gibb's Duhem equation. Concept of Fugacity and Activity

Electrochemistry: (7L)

Conductivity, equivalent and molar conductivity and their variation with dilution for weak and strong electrolytes.

Kohlrausch law of independent migration of ions.

Applications of conductance measurements: determination of degree of ionization and ionization constant of weak electrolyte, solubility and solubility product of sparingly soluble salts, ionic product of water. (Numericals expected).

Transference number and its experimental determination using Moving boundary method. (Numericals expected). Factors affecting transference number.

Unit-II

Chemical Bonding

Non-Directional Bonding

(4L)

Ionic Bond: Conditions for the Formation of Ionic Bond. Types of Ionic Crystals Radius Ratio Rules Lattice Energy, Borne-Lande Equation Kapustinski Equation Born-Haber Cycle and its Application

Directional Bonding: Orbital Approach.

(6L)

Covalent Bonding The Valence Bond Theory- Introduction and basictenets.

Interaction between two hydrogen atoms and the Potential energydiagram of the resultant system.
Corrections applied to the system of two hydrogen atoms- Formation ofH2 Homonuclear diatomic molecules from He2 to Ne2
Resonance and the concept of Formal Charge; Rules for Resonance or Canonical structures.
Bonding in Polyatomic Species: The role of Hybridization. And types ofhybrid orbitals-*sp*, *sp*², *sp*³, *sp*³*d*, *sp*²*d*²*and sp*²*d sp*³*d*².
Equivalent and Non-Equivalent hybrid orbitals
Contribution of a given atomic orbital to the hybrid orbitals (with reference to *sp*³ hybridisation as in CH4, NH3 and H2O and series likeNH3, PH3, AsH3, BiH3)

Molecular Orbital Theory (5L)

Comparing Atomic Orbitals and Molecular Orbitals.

- Linear combination of atomic orbitals. to give molecular orbitals LCAO-MO approach for diatomic homonuclear molecules).
- 2.3.4. Wave mechanical treatment for molecular orbitals (H_2^+ and H_2)
- 2.3.4 Molecular orbital Theory and Bond Order and magnetic property: with reference to $O_2, O_2^+ O_2^-, O_2^{2-}$

(Problems and numerical problems expected wherever possible)

Unit III: Organic Chemistry

3.1.1. Reactions and reactivity of halogenated hydrocarbons: [4L]

- **Alkyl halides:** Nucleophilic substitution reactions: S_N1, S_N2 and S_Ni mechanisms with stereochemical aspects and factors affecting nucleophilic substitution reactions-nature of substrate, solvent, nucleophilic reagent and leaving group.
- **Aryl halides:** Reactivity of aryl halides towards nucleophilic substitution reactions. Nucleophilic aromatic substitution (S_NAr) addition-elimination mechanism and benzyne mechanism.

3.1.2. Organomagnesium and organolithium compounds: [3L] Nomenclature, nature, type and reactivity of carbon-metal bond. Preparation using alkyl / aryl halide. Structure, stability and reactions with compounds containing acidic hydrogen, carbonyl compounds, CO2, cyanides and epoxides.

Alcohols, phenols and epoxides: [8L]

- Alcohols: Nomenclature, Preparation: Hydration of alkenes, hydrolysis of alkyl halides, reduction of aldehydes and ketones, using Grignard reagent. Properties: Hydrogen bonding, types and effect of hydrogen bonding on different properties. Acidity of alcohols, Reactions of alcohols
- **Phenols: Pr**eparation, physical properties and acidic character. Comparative acidic strengths of alcohols and phenols, resonance stabilization of phenoxide ion. Reactions of phenols.
- **Epoxides:** Nomenclature, methods of preparation and reactions of epoxides: reactivity, ring opening reactions by nucleophiles (a) In acidic conditions: hydrolysis, reaction with halogen halide, alcohol, hydrogen cyanide. (b) In neutral or basic conditions: ammonia, amines, Grignard reagents, alkoxides.

Semester III Paper II

Unit I: Physical Chemistry

Chemical Kinetics-II (7L)

Types of Complex Chemical reactions: Reversible or opposing, consecutive and parallel reactions (No derivations, only examples expected),

Thermal chain reactions: H. and Br. reaction. (only steps involved, no kinetic expression expected).

Effect of temperature on the rate of reaction, Arrhenius equation, Concept of energy of activation (Ea). (Numericals expected).

Theories of reaction rates: Collision theory and activated complex theory of

bimolecular reactions. Comparison between the two theories

(Qualitative treatment only)

Solutions: (8 L)

Thermodynamics of ideal solutions: Ideal solutions and Raoult's law, deviations from Raoult's law–non-ideal solutions. Vapour pressure-composition and temperature -composition curves of ideal and non-ideal solutions. Distillation of solutions.Lever rule.Azeotropes. Partial miscibility of liquids: Critical solution temperature; effect of impurity on partial miscibility of liquids with respect to Phenol-Water , Triethanolamine – Water and Nicotine – Water systems

Immiscibility of liquids- Principle of steam distillation.

Nernst distribution law and its applications, solvent extraction.

Unit-II

Selected topics on p block elements (15L)

Chemistry of Boron compounds

Electron deficient compounds – BH₃, BF₃, BCl₃ with respect to Lewisacidity and applications.
Preparation of simple boranes like diborane and tetraborane.
Structure and bonding in diborane and tetraborane (2e-3c bonds)
Synthesis of Borax.

Chemistry of Silicon and Germanium

Silicon compounds: Occurrence , Structure and inertness of SiO₂ Preparation of structure of SiCl₄ Occurrence and extraction of Germanium Preparation of extra pure Silicon and Germanium

Chemistry of Nitrogen family

Trends in chemical reactivity - Formation of hydrides, halides, oxideswith special reference to oxides of nitrogen.

Oxides of nitrogen with respect to preparation and structure of NO, NO₂, N₂O and N₂O₄.

Synthesis of ammonia by Bosch – Haber process.

Unit III: Organic Chemistry

Carbonyl Compounds: [15L]

- Nomenclature of aliphatic, alicyclic and aromatic carbonyl compounds. Structure, reactivity of aldehydes and ketones and methods of preparation; Oxidation of primary and secondary alcohols using PCC, hydration of alkynes, action of Grignard reagent on esters, Rosenmund reduction, Gattermann Koch formylation and Friedel Craft acylation of arenes
- General mechanism of nucleophilic addition, and acid catalyzed nucleophilic addition reactions.
- Reactions of aldehydes and ketones with NaHSO₃, HCN, RMgX, alcohol, amine, phenyl hydrazine, 2,4-Dinitrophenyl hydrazine, LiAlH₄ and NaBH₄.
- Mechanisms of following reactions: Benzoin condensation, Knoevenagel condensation, Claisen-Schmidt and Cannizzaro reaction.
- Keto-enol tautomerism: Mechanism of acid and base catalysed enolization
- Active methylene compounds: Acetylacetone, ethyl acetoacetate diethyl malonate, stabilised enols. Reactions of Acetylacetone and ethyl acetoacetate (alkylation, conversionto ketone, mono- and dicarboxylic acid)

Semester IV Paper I

Unit I: Physical Chemistry

1.1Electrochemistry-II: (8 L)

Electrochemical conventions, Reversible and irreversible cells.

Nernst equation and its importance, Types of electrodes, Standard electrode potential, Electrochemical series (Numericals expected).

Thermodynamics of a reversible cell, calculation of thermodynamic properties: $\Delta G, \Delta H$ and ΔS from EMF data. (Numericals expected)

- Calculation of equilibrium constant from EMF data. (Numericals expected)
- Concentration cells with transference and without transference. Liquid junctionpotential and salt bridge.
- pH determination using hydrogen electrode and quinhydrone electrode.(Numericals expected)

Phase Equilibria: (7L)

- Phases, components and degrees of freedom of a system, criteria of phaseequilibrium. Gibbs Phase Rule and its thermodynamic derivation.
- Derivation of Clausius Clapeyron equation and its importance in phase equilibria. (numericals expected)

Phase diagrams of one-component systems (water and sulphur).

Two component systems involving eutectics, congruent and incongruent meltingpoints (lead-silver system).

Unit-II

Comparative Chemistry of the transition metals (9 L)

Position in the periodic table; Natural occurrence principal ores and minerals;

Significance of special stability of d⁰, d⁵ and d¹⁰ leading to variable oxidation states; Unusual oxidation states and their stabilities in aqueoussolutions (with special reference to vanadium, and chromium.)

- Origin of colour for transition metals and their compounds: such as reflectivity, surface coatings, particle size, packing density for metals and nature of dorbitals, number of electrons in the d-orbitals, geometry, and ability for charge transfer).
- Magnetic properties of transition metal compounds: Origin of magnetism-spin and orbital motion of electrons; equation for spin only and spin-orbital magnetism in terms of Bohr magnetons (No derivation of relevant equations expected); Reasons for quenching of orbital moments.
- Chemistry of Titanium and vanadium: properties of Oxides and chlorides;use in titrimetric analysis
- Qualitative tests for transition metal ions: General considerations in devising tests (with reference to Chromium, Manganese, iron, CobaltNickel and Copper)

Coordination Chemistry : (6 L)

Introduction to Chemistry of Coordination Compounds

Historical perspectives: Early ideas on coordination compounds Basic terms and nomenclature.

Types of ligands

Isomerism :General Types with special reference to stereoisomerism of coordination compounds (C.N=6)

Evidence for the formation of coordination compounds,

Theories of coordination compounds

Werner's Theory of coordination compounds,

Effective atomic number rule.

Eighteen electron Rule

Nature of the Metal-Ligand Bond:

Valence Bond Theory; Hybridisation of the central metal orbitals-sp³,sd³/d³s sp³d²/d²sp³, sp²d,

Inner and outer orbital complexes of .(suitable examples of Mn(II)

Fe(II),Fe(III),Co(II)/Co(III),Ni(II), Cu(II) Zn(II) complexes with ligands like aqua, ammonia CN⁻ and halides may be used)

Limitations of V.B.T

Application of coordination compounds.

Unit III: Organic Chemistry

Carboxylic Acids and their Derivatives :(11 Lectures)

Nomenclature, structure and physical properties, acidity of carboxylic acids, effects of substituents on acid strength of aliphatic and aromatic carboxylic acids.

Preparation of carboxylic acids: oxidation of alcohols and alkyl benzene, carbonation of Grignard and hydrolysis of nitriles.

Reactions: Acidity, salt formation, decarboxylation, Reduction of carboxylic acids with LiAlH4, diborane, Hell-Volhard-Zelinsky reaction, Conversion of carboxylic acid to acid chlorides, esters, amides and acid anhydrides and their relative reactivity.

Mechanism of nucleophilic acyl substitution and acid-catalysed nucleophilic acyl substitution. Interconversion of acid derivatives by nucleophilic acyl substitution. Mechanism of Claisen condensation and Dieckmann condensation.

Sulphonic acids: [4L]

Nomenclature, preparation of aromatic sulphonic acids by sulphonation of benzene (with mechanism), toluene and naphthalene, Reactions: Acidity of arene sulfonic acid, Comparative acidity of carboxylic acid and sulfonic acids. Salt formation, desulphonation.Reaction with alcohol, phosphorous pentachloride, IPSO substitution.

Semester IV Paper II

Unit I: Physical Chemistry

Solid State: (7L)

Recapitulation of laws of crystallography and types of crystals

- Characteristics of simple cubic, face centered cubic and body centered cubic systems, interplanar distance in cubic lattice (only expression for ratio of interplanar distances are expected)
- Use of X-rays in the study of crystal structure, Bragg's equation (derivation expected), Xrays diffraction method of studying crystal lattice structure, structure NaCl and KCl. Determination of Avogadro's number (Numericals expected)

Catalysis: (8 L)

Types of catalysis, catalytic activity, specificity and selectivity, inhibitors, catalyst poisoning and deactivation

Mechanisms and kinetics of acid-base catalyzed reactions, effect of pH.

Mechanisms and kinetics of enzyme catalyzed reactions (Michaelis-Menten equation)

Effect of particle size and efficiency of nanoparticles as catalyst.

Unit-II

Ions in aqeous medium

Acidity of Cations and Basicity of Anions

- Hydration of Cations; Hydrolysis of Cations predicting degree of hydrolysis of Cations-effect of Charge and Radious.
- Latimer Equation. Relationship between pKa, acidity and z²/r ratios of metalions graphical Presentation
- Classification of cations on the basis of acidity category Non acidic, Moderately acidic, strongly acidic, very strongly acidic with pKa values rangeand examples
- Hydration of Anions; Effect of Charge and Radius; Hydration of anionsconcept, diagram classification on the basis of basicity

Uses and Environmental Chemistry of volatile Oxides and oxo-acids

Physical properties of concentrated oxo-acids like sulfuric, Nitric and Phosphoric acid

Uses and environments aspects of these acids

Unit III: Organic Chemistry

Nitrogen containing compounds and heterocyclic compounds:

Amines: Nomenclature, effect of substituent on basicity of aliphatic and aromatic amines;

- Preparation:Reductionofaromaticnitrocompoundsusingcatalytichydrogenation,chemical reduction using Fe-HCI, Sn-HCl, Zn-acetic acid, reduction ofnitriles, ammonolysis of halides, reductive amination , Hofmann bromamide reaction.
- Reactions- Salt Formation, N-acylation, N-alkylation, Hofmann's exhaustive methylation (HEM),Hofmann-elimination reaction, reaction with nitrous acid, carbylamine reaction, Electrophilic substitution in aromatic amines: bromination, nitration and sulphonation.

Diazonium Salts: (7 Lectures)

Preparation and their reactions/synthetic application - Sandmeyer reaction, Gattermann reaction, Gomberg reaction, Replacement of diazo group by -H,-OH. Azo coupling with phenols, naphthols and aromatic amines, reduction of diazonium salt to aryl hydrazine and hydroazobenzene

Heterocyclic Compounds: (8 Lectures)

- Classification, nomenclature, electronic structure, aromaticity in 5-numbered and 6membered rings containing one heteroatom;
- Synthesis of Furan, Pyrrole (Paal-Knorr synthesis, Knorr pyrrole synthesis, and Hantzsch synthesis), Thiophene, Pyridine (Hantzsch synthesis),
- Reactivity of furan, pyrrole and thiophene towards electrophilic substitution reactions on the basis of stability of intermediate and of pyridine on the basis of electron distribution. Reactivity of pyridine towards nucleophilic substitution on the basis of electron distribution.
- Reactions of furan, pyrrole and thiophene: halogenation, nitration, sulphonation, Vilsmeier-Haack reaction, Friedel-Crafts reaction. Furan: Diels-Alder reaction, Ring opening. Pyrrole: Acidity and basicity of pyrrole. Comparison of basicity of pyrrole and pyrrolidine.
- Pyridine: Basicity. Comparison of basicity of pyridine, pyrrole and piperidine. Sulphonation of pyridine (with and without catalyst), reduction and action of sodamide (Chichibabin reaction).

Semester III Chemistry Practicals:

Unit I: Physical Chemistry

To verify Ostwald's dilution law for weak acid conductometrically.

To determine dissociation constant of weak acid conductometrically.

To determine the critical solution temperature (CST) of phenol - WaterSystem.

Determination of energy of activation of acid catalyzed hydrolysis of methyl acetate.

To investigate the reaction between $K_2S_2O_8$ and KI with equal initial concentrations of the reactants

To determine solubility of sparingly soluble salts (anytwo) conductometrically.

Unit II: Inorganic Chemistry

Identification of cations in a given mixture and Analytically separating them [From a mixture containing not more than two of the following: Pb(II), Ba(II), Ca(II), Sr (II), Cu(II), Cd(II), Mg(II), Zn(II), Fe(II), Fe(III), Ni(II), Co(II) Al(III), Cr(III)]
Crystallisation of potassium iodate and to estimate its purity before and after the separation.
Estimation of total hardness
Investigation of the raction between Copper supfate and Sodium Hydroxide (Standard EDTA solution to be provided to the learner).

Unit III: Organic Chemistry

Short organic preparation and their purification: Use 0.5-1.0g of the organic compound.

Purify the product by recrystallization. Report theoretical yield, percentage yield and

melting point of the purified product.

Preparation of:

Cyclohexanone oxime from cyclohexanone.

Glucosazone from dextrose or fructose

Tribromoaniline from aniline.

 β -Naphthylbenzoate

m-Dinitrobenzene from nitrobenzene

Phthalic anhydride from phthalic acid by sublimation

Acetanilide from aniline

p-Bromoacetanilide from acetanilide

Iodoform from acetone

(Any eight preparations)

Semester IV Chemistry Practicals:

Unit I: Physical Chemistry

To determine standard EMF and the standard free energy change of Daniel cell potentiometrically .

To determine the amount of HCl in the given sample potentiometrically.

Compare the strengths of HCl and H₂SO₄ by studying kinetics of acid hydrolysis of methyl acetate.

6. Industrial visit report.

Unit II: Inorganic Chemistry

Inorganic preparation – Nickel dimethyl glyoxime using microscale method.
Complex cation – *Tris* (ethylene diamine) nickel (II) thiosulphate.
Complex anion – Sodium Hexanitrocobaltate (III) The aim of this experiment is to understand the preparation of a soluble cation (sodium)and a large anion

hexanitrocobaltate(III) and its use to precipitate a large cation (potassium) Inorganic salt – Calcium or magnesium oxalate using PFHS technique

Unit III: Organic Chemistry

Qualitative Analysis of bi-functional organic compounds on the basis of Prelimenary examination Solubility profile Detection of elements C, H, (O), N, S, X. Detection of functional groups Determination of physical constants (M.P/B.P)

Solid or liquid Compounds containing not more than two functional groups from among the following classes may be given for analysisto be given: Carboxylic acids, phenol, carbohydrates, aldehydes, ketones, ester, amides, nitro, anilides, amines, alkyl and aryl halides.

Students are expected to write balanced chemical reactions wherever necessary. (Minimum 6 compounds to be analyzed)

Reference Books for Practicals:

Unit I:

- Khosla B.D., Garg V.C. and Gulati A., Senior Practical Physical Chemistry, R.Chand and Co., New Delhi (2011).
- Garland C. W., Nibler J.W. and Shoemaker D.P., Experiments in Physical Chemistry,8th Ed., McGraw-Hill, New York (2003).
- Halpern A.M. and McBane G.C., Experimental Physical Chemistry, 3rd Ed., W.H. Freeman and Co., New York (2003).
- Athawale V.D. and Mathur P., Experimental Physical Chemistry, New Age International, New Delhi (2001)

Unit II:

Practical Inorganic Chemistry by G. Marr and B. W. Rockett van Nostrand Reinhold Company (1972)

Unit III:

- Mann, F.G. & Saunders, B.C. Practical Organic Chemistry, Pearson Education (2009)
 Ahluwalia, V.K. & Aggarwal, R. Comprehensive Practical Organic Chemistry:
 Preparation and Quantitative Analysis, University Press (2000). Mann, F.G. & Saunders, B.C. Practical Organic Chemistry, Pearson Education (2009)
- Furniss, B.S.; Hannaford, A.J.; Smith, P.W.G.; Tatchell, A.R. Practical Organic th Chemistry,5 Ed., Pearson (2012)
- Vogel, A.I., Tatchell, A.R., Furnis, B.S., Hannaford, A.J. & Smith, P.W.G., Textbook of Practical Organic Chemistry, Prentice-Hall, 5th edition, 1996

Reference Books:

Unit I:

Barrow, G.M. Physical Chemistry Tata McGraw-Hill (2007).

Castellan, G.W. Physical Chemistry 4th Ed. Narosa (2004).

Kotz, J.C., Treichel, P.M. & Townsend, J.R. General Chemistry CengageLearning India Pvt.Ltd., New Delhi (2009).

Mahan, B.H. University Chemistry 3rd Ed. Narosa (1998).

Petrucci, R.H. General Chemistry 5th Ed. Macmillan Publishing Co., NewYork (1985).

K.L.Kapoor A textbook of Physical Chemistry3rd Ed. vol.1,2Macmillan Publishing Co., NewDelhi(2001)

Unit II:

Practical Inorganic Chemistry by G. Marr and B. W. Rockett van Nostrand ReinholdCompany (1972)

Inorganic Chemistry - Gary Wulfsberg, Viva Book, First Indian Edition 2002

Quantitative Analysis - R.A.Day, A.L. Underwood, sixth edition

Vogel's Textbook of quantitative chemical analysis – J Mendham, R C Denny, J D Barnes, M Thomas, B Sivasankar

References.

Bruce H. Mahan, University Chemistry, Narosa publishing house pg. 611 to 683.

R. Gopalan, Universities Press India Pvt.Ltd. Inorganic Chemistry for Undergraduates.

Chemistry of Transition Elements Pg.- 608 - 679 .

- J. D. Lee, 4th Edn., Concise Inorganic Chemistry, ELBS, The group III elements Pg. 359- 648.
- D. F. Shriver and P. W. Atkins, Inorganic chemistry, 3rd edition, Oxford UniversityPress (1999) page 325-446.

Ramesh Kapoor and R.S. Chopra, Inorganic Chemistry, R. Chand publishers, NewDelhi.

CNR Rao edited, University General Chemistry, 513-578.

James E. Huheey, Inorganic Chemistry: Principles of Structure and Reactivity,

Emeleus and Anderson, Modern Aspects of Inorganic Chemistry, page no. 435-463.

Cotton and Wilkinson, Advanced Inorganic Chemistry, 3rd. Edition.

Gary Wulfsberg, Inorganic chemistry, Viva Books Pvt,. Ltd. (2002).

Puri, Sharma and Kalia, Milestone publishers, Principles of Inorganic Chemistry, page416-628.

Bruce H. Mahan, University Chemistry, Narosa publishing house.

R. Gopalan, Universities Press India Pvt.Ltd. Inorganic Chemistry for Undergraduates.

- J. D. Lee, 4th Edn., Concise Inorganic Chemistry, ELBS
- D. F. Shriver and P. W. Atkins, Inorganic chemistry, 3rd edition, Oxford University Press (1999)

Ramesh Kapoor and R.S. Chopra, Inorganic Chemistry, R. Chand publishers, New Delhi. CNR Rao edited, University General Chemistry

James E. Huheey, Inorganic Chemistry: Principles of Structure and Reactivity,

Emeleus and Anderson, Modern Aspects of Inorganic Chemistry

26.Cotton and Wilkinson, Advanced Inorganic Chemistry, 3rd. Edition.

27.Gary Wulfsberg, Inorganic chemistry, Viva Books Pvt,. Ltd. (2002).

Puri, Sharma and Kalia, Milestone publishers, Principles of Inorganic Chemistry

Unit III:

- Morrison, R. T. and Boyd, R. N. Organic Chemistry, Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).2012
- Finar, I. L. Organic Chemistry (Volume 1), Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).
- Finar, I. L. Organic Chemistry (Volume 2: Stereochemistry and the Chemistry of Natural Products), Dorling Kindersley (India) Pvt. Ltd. (Pearson Education)
- Mc Murry, J.E. Fundamentals of Organic Chemistry, 7th Ed. Cengage Learning India Edition, 2013.
- Clayden, J.; Greeves, N.; Warren, S.; Wothers, P.; Organic Chemistry, Oxford University Press.

Graham Solomons, T.W. Organic Chemistry, John Wiley & Sons, Inc.

Comprehensive Organic Chemistry- The synthesis and reactions of Organic Compounds, Derek barton ,W. David Ollis.

Kalsi, P. S. Textbook of Organic Chemistry 1st Ed., New Age International (P) Ltd. Pub.

- Eliel, E. L. and Wilen, S. H. Stereochemistry of Organic Compounds, Wiley: London, 1994.
- Kalsi, P. S. Stereochemistry Conformation and Mechanism, New Age International, 2005

Semester III Paper III Basics in analytical Chemistry Theory: 45 Lectures

The Role of Analytical chemistry in various fields including non-chemistry fields such as Environmental Science, Pharmacy, Medicine, Life Sciences, Petrochemicals, Arts (like Painting) Forensic sciences and so on can never be underestimated. This course is expected to introduce the learner to this interesting field of Analytical Chemistry.

It is expected to provide the learner an overview of this very important branch of chemistry. After successful completion of this course the learner is expected to be familiar with the question of what is analysis, why it is required and the methods, techniques, procedures and protocols that may be used or required in the course of a given problem of analysis. The learner is also expected to appreciate the role of an Analytical Chemist and a Chemical Analyst.

Correctness or acceptability of the results of a given analysis and how to deal with wrong or erroneous results: when to reject them and when and how to retain them to be meaningful and/or acceptable are some other attributes expected as outcomes of learning this paper.

As such it is felt that this paper will be a subject of choice and interest for learners preferring a specialisation in Chemistry as well as to those who may have interests in other science fields as Physics, Botany, Zoology, Microbiology, Geochemistry and so on. **Goal:**

To introduce the learner to an area of learning that is vital for the inherent nature of the subject itself but also is important and irreplaceable irrespective of the long term interest of specialisation or subject of interest of the learner.

Unit I- Intorduction to Analytical Chemistry and Statistical Treatment of analytical data-I (15 L)

Scope/ Objectives:

Learners should be able to

Select a method of analysis

Decide how to identify a sample and prepare it for analysis

Select a procedure for analysis

Identify sources of possible errors in the results obtained.

(Problems including numericals expected wherever necessary)

Role of Analytical Chemistry

(9 L)

Language of analytical chemistry: important terms and their significance in Analytical Chemistry.

Purpose of Chemical Analysis; Analysis Based (i) On the nature of information required: (Proximate, Partial, Trace, Complete Analysis) and (ii) On the size of the sample used (Macro, semi-micro and micro analysis)

Classical and Non-Classical Methods of Analysis; their types and importance.

Significance of Sampling in Analytical Chemistry

Terms involved in Sampling

Types of Sampling

Sampling techniques

Results of Analysis.

(6L)

Errors in Analysis and their types

Precision and Accuracy in Analysis

Corrections for Determinate Errors

(Problems including Numericals expected wherever required)

References:

Instrumental Analysis by Douglas A. Skoog, F. James Holler, Stanley R. Crouch Instrumental methods of analysis by Willard, H.H.; Merritt, L.L. Jr.; Dean, J.A.; Settle,7th Edition Fundamental of Analytical Chemistry by Douglas A. Skoog, West, F. James Holler, S. R. Crouch
Modern Analytical Chemistry by David Harvey, McGraw-Hill Higher Education

Unit II- Classical Methods of Analysis(15 L)

Objectives:

The main objectives of this unit is to Introduce classical methods of chemical analysis. Appreciate the various terms and types of titrimetric analysis. Ability to select proper titrimetric method Appreciate the usefulness of the gravimetric method of analysis Identify a suitable gravimetric method Perform the required calculations involved in the analysis by titrimetry as well as gravimetry. **Classical Methods of Analysis. Titrimetric Methods** Terms involved in Titrimetric methods of analysis. Comparing volumetry and Titrimetry The Conditions suitable for titrimetry Types of titrimetry – Neutralisation (Acidimetry, alkalimetry), Redox,

> (Iodometry, Iodimetry,) Precipitation and Complexometric titrations and indicators used in these titrations

Tools of Titrimetry: Graduated glasswares and Callibration

Standard solutions (Primary and Secondary standards in Titrimetry) and Calculations in Titrimetry.

Neutralisation Titrations

Concept of pH and its importance in Neutralisation Titrations End point and Equivalence point of Neutralisation titrations

Determination of End point by using

Indicators causing colour change

Change in potential, (by potentiometry)

Change in conductance (by conductometry)

Construction of titration curve (on the basis of change in pH)of a titration of Strong acid-weak base Strong base-weak acid

Gravimetric analysis (06 L)

General Introduction to Gravimetry.

Types of Gravimetric Methods -

Precipitation Gravimetry:

Steps involved in precipitation gravimetry analysis

Conditions for precipitation

Completion of precipitation,

Role of Digestion, Filtration, Washing, Drying Ignition of precipitate.

(04L)

(04L)

Applications of Gravimetric Analysis: Determination of sulfur in organic compounds; Estimation of Nickel in Cu-Ni alloy using dimethyl glyoxime; Determination of Aluminum by converting it to its oxide.

[15 L]

(03)

References:

Skoog et al. "Fundamentals of Analytical chemistry" Cengage Learning, Eight Edition, chapter 13, 14 and 15

Day and Underwood, "Quantitative analysis" prentice hall 1991, chapter3

S.M. Khopkar, "Basic Concepts of Analytical Chemistry", IInd Edition NewAge International Publisher

Gary D. Christan," Analytical Chemistry", VIth Edition, Wiley Students Edition, Chapter No 8,9,10

Fundamental of Analytical Chemistry by Douglas A. Skoog, West, F. James Holler, S. R. Crouch

Modern Analytical Chemistry, David Harvey (page numbers 232 -265)

Unit III: Instrumental Methods-I

Objectives:

On completing the learning of this unit the learner is expected to

Know the various instrumental methods of analysis

Advantages of using instruments to make measurements

The various observable properties of a given analyte and the stimulus best suited for its analysis

Know about a generalized diagram of an analytical instrument

Select a suitable instrumental method for analysis

Appreciate the basic terms in spectrometry

Use the relationship between absorbance (and its variations) and concentration of the analyte.

Chose a suitable method foe photometric titrations.

Basic Concepts in Instrumental methods

Relation between the Analyte, Stimulus and measurement of change in the observable property.

Block Diagram of an Analytical instrument.

Types of Analytical Instrumental methods based on

Optical interactions (eg. Spectrometry: uv-visible, Polarimetry) Electrochemical interactions (eg. Potentiometry, Conductometry,)

Thermal interactions (eg. Thermogravimetry)

Spectrometry

Interaction of electromagnetic radiation with matter: Absorption and Emission spectroscopy

Basic Terms: Radiant Power, Absorbance, Transmittance, Monochromatic

(07 L)

light, Polychromatic light, Wavelength of maximum absorbance, Absorptivity and Molar Absorbtivity Statement of Beer's Law and Lambert's Law, Combined Mathematical Expression of Beer -Lambert's Law, Validity of Beer-Lambert's Law, Deviations from Beer-Lambert's Law ((Real deviations, Instrumental deviations and Chemical deviations) (Numerical problems based on Beer-Lambert's Law) Instrumentation for absorption spectroscopy: Colorimeters and Spectrophotometers Block Diagrams for Single beam and Colorimeter, and Spectrophotometer (Principles, Construction and working-Details of Components expected i.e., source, Sample holder, Filters/Monochromators, Detectors such as Photomultipliertube) Applications of UV-Visible Spectrophotometry (02 L) Qualitative analysis such as Identification of functional groups in Organic compounds ,Chromophores and Auxochrome,cis and trans isomers Quantitative analysis by Calibration curve method and Photometric Titrations: Principle, Instrumentation, Types of Photometric titration Curves with examples. (03L)

References:

Instrumental Methods of Chemical Analysis by Gurdeep R. Chatwal, Sham K.Anand pp 2.107-2.148
Principles of Instrumental Analysis by Skoog, Holler, Nieman, 5th Edition pp 143-172.
Instrumental Methods of Analysis by Willard, Merritt, Dean, Settle7th
Edition pp 118-181.

Semester III Chemistry Practicals: Paper III Basics in Analytical Chemistry

Tools of Analytical Chemistry-I:

Analytical glass wares like burettes, pipettes, Standard flasks, Separating funnels.

Weighing tools such as two pan balance and monopan balance, digital balances:

Incineration devices: Burners, Electrical Incinerators, Muffle Furnace,

Drying Devices: Hot Air Oven, Microwave Oven, Descicators, Vacuum descicators

Monochromators, Filters, Sample holders, Prisms, Diffraction Gratings, Photoemissive cells, Photomultiplier tubes (The learner should draw diagrams and write-ups providing uses, care and maintenance of the items mentioned in (a) and principle, construction and uses of items (b) to (e) in his journal.

Gravimetric estimation of Nickel (II) as Ni-DMG and calculation of % error. (The learner is expected to know the role of the various reagents/chemicals usedIn the estimation, various steps involved. They should write the complete and Balanced chemical reaction for the formation of the Ni(DMG)₂ complex.

Colorimetric Determination of Copper Ions in given Solution by using calibration curve method and calculation of % error.

(The learner is expected to learn the relation between concentration and Absorbance, to draw a calibration curve, use the slope of the calibration curve and compare it with the calculated slope. They are also expected to state the error estimate of their results).

Determination of buffer capacity of acid buffer and basic buffer.

(The learner is expected to learn the use pH meter, standardization of pH meter, use of Henderson's equation and calculation of buffer capacity)

Estimation of Aspirin

Gravimetric estimation of barium ions using K₂CrO₄ as precipitant calculationof % error.

(The learner is expected to learn the skills of using the counterpoise technique used in this gravimetric estimation; Using counterpoise method whatman No.42 for filtration. In such a case no incineration or use of silica crucible is required. They are also expected to state the error estimate of their results)

Semester IV Paper III Basics in Analytical Chemistry -II Theory: 45 Lectures Unit –I -Methods of separation (15 L)

Objectives:

The learner is expected to understand The importance of separation in sample treatment Various methods of separations How to select a method of separation of an analyte from the matrix How a solute gets distributed between two immiscible phases Principle of solvent extraction and various terms involved therein Effect of various parameters on solvent extraction of a solute Classification of Chromatographic methods Paper and thin layer chromatography and using them in practice.

Separation Techniques in Analytical Chemistry

An Introduction to Analytical Separations and its importance in analysis. Estimation of an analyte without effecting separation. Types of separation methods Based on Solubilities (Precipitation, Filtration Crystallisation) Based on Gravity- Centrifugation Based on volatility-Distillation ; (02 L)

Based on Electrical effects-Electrophoresis Based on retention capacity of a Stationary Phase -Chromatography; Based on distribution in two immiscible phases-Solvent Extraction; Based on capacity to exchange with a resin-Ion Exchange; Electrophoresis: Principles, Basic Instrumentation, Working and Application in separation of biomolecules like enzymes and DNA. (02L) Solvent extraction (06 L) Introduction, Nernst distribution Law, Distribution Ratio, Partition Coefficient. Conditions of extraction: Equilibration time, Solvent volumes, temperature, pH. Single step and multi step extraction, Percentage extraction for single step and multistep extraction. Separation factor. Batch and continuous extraction (05L) Chromatography: Introduction to Chromatography Classification of chromatographic methods based on stationary and mobile phase Paper Chromatography: Principle, techniques and applications of Paper Chromatography in separation of cations. Thin layer Chromatography Principle, technique and Applications in determining thepurity of a given solute; Following progress of a given reaction. **References** : D.A. Skoog, D.M. West, F.J. Holler and CX.R. Crouch – Fundamentals of Analytical

- chemistry, 8th edition
- G.H. Morrison and H. Freiser, Solvent extraction in analytical chemistry
- P. G. Swell and B. Clarke, Chromatographic separations , Analytical chemistry by open Learning , John Wiley and sons, 1987
- Modern Analytical Chemistry, David Harvey (page numbers 596-606)

Modern Analytical Chemistry, David Harvey (page numbers 215 -217)

Unit –II - Instrumental Methods-II

Objectives

On completing this unit the learner is

- Expected to appreciate the nature of interaction between applied electrical potential and the concentration of the analyte.
- The nature of chemical reactions that influence potential of a given cell.

Familiar with the various types of electrodes or half cells.

Appreciate the nature, need and importance of pH

Expected to know the applications of the various instrumental methods dealt with in this unit.

Instruments based on the electrochemical properties of the analytes

Potentiometry:

(05 L)

(15 L)

Principle.

Role of Reference and indicator electrodes

Applications in Neutralisation reactions with reference to the titration of a Strong acid against a Strong Base (using quinhydrone electrode) Graphical methods for detection of end points (04 L) pHmetry: Principle Types of pH meters. Principle, Construction Working and Care of Combined Glass electrode Applications in Titrimetry (Strtong acid-Strong Base) biological and environmental analysis. (06 L) Conductometry: Principle Conductivity cell its construction and care Applications in Neutralisation Titrimetry with respect to Strong Acid-Strong Base Strong Acid-Weak Base Strong Base-weak Acid Weak Acid- Weak Base. Advantages & limitations of conductometric titrations.

References:

Principles of Instrumental analysis, D. A. Skoog, 3rd edition, Saunders college publishing. Chapters: 20, 23 Page nos: 600 - 605, 631, 704 - 711.
Vogel's Text book of quantitative inorganic analysis, 4th edition, ELBS/ Longman. Chapters: XIV, XV Page nos: 566 - 601, 615 - 625.
Instrumental methods of analysis, B. K. Sharma, Goel publishing house. Miscellaneous methods: Chapters: 1, 3, 4 Page nos: 1 - 14, 21 - 57.

Unit III- Statistical Treatment of analytical data -- II (15 L)

Objectives:

On completing this unit the learner is expected to understand

The use of statistical methods in chemical analysis.

The nature of indeterminate errors

The randomness of such errors and its distribution around a correct or acceptableresult

Computation of Confidence limits and confidence interval

Test for rejection of doubtful result

Method to draw best fitting straight line

Nature of Indeterminate Errors: (03L)

The true and acceptable value of a result of analysis Measures of central tendency: mean, median. mode, average Measures of dispersion: Absolute deviation, relative deviation, relative average deviation, standard deviation,(s,sigma) variance, coefficient of variation

Distribution of random errors: (02L)

Gaussian distribution curve.

Equation and salient features of Gaussian distribution curve

Concept of Confidence limits and confidence interval and its computation using(03

Population standard deviation Student's <i>t</i> test Range Criteria for rejection of doubtful result (02 L) 2.5 d rule	
Student's <i>t</i> test Range Criteria for rejection of doubtful result (02 L) 2.5 d rule	
RangeCriteria for rejection of doubtful result(02 L)2.5 d rule	
Criteria for rejection of doubtful result (02 L) 2.5 d rule	
2.5 d rule	
4.0 d rule	
Q test	
Test of Significance (02 I)
Null hypothesis	
F-test (variance ratio test)	
Graphical representation of data and obtaining best fitting straight line (03	L)
For line passing through origin	
For line not passing through origin	
[Numerical problems wherever possible, expected]	

References:

Modern Analytical Chemistry , David Harvey (page numbers 53 -84) Fundamentals of analytical chemistry – Skoog and West

Semester IV Chemistry Practicals: Paper III Elective (Basics in analytical Chemistry)

Tools of Analytical Chemistry-II
Filtration Flasks, Funnels, Separating Funnels, Distillation apparatus, Vacuum Distillation assembly, Centrifuge machine, Electrophoresis apparatus.
Development chamber for chromatography
Electrodes like Reference Electrodes and Indicator Electrodes (with respect to care and maintenance.)
Conductivity cell (with respect to care and maintenance.)
Combined Glass electrode (with respect to care and maintenance.)
Types of Salt Bridges and preparation of any one or use of salt bridge, its effect on the potential of a given electrode/cell
(The learner should draw diagrams and write-ups providing uses of the items mentioned in (a and b) and Principle, Construction care and Uses of items (c) to (f) in his journal.)

Paper chromatography: Separation of cations like Fe(III), Ni(II) and Cu(II) in a sample.

Separation of a solute between two immiscible solvents to determine the distribution ratio and/or extraction efficiency. (Solutes could be as their aqueous solutions and the organic solvent ethyl acetate) Suggested solute for the distribution study: Fe (III) in aqueous solutions.

(The learner is expected to learn the technique of solvent extraction by using separating funnel, method to estimate the concentrations of the solute distributed in the two immiscible phases, determination of the extraction efficiency)

- Conductometric titration: Estimation of given acid by conductometric titration with strong base and calculation of % error. (The learner is expected to learn the handling of the conductometer and the conductivity cell, determination of end point by plotting a graph. They are also expected to state the error estimate of their results).
- Estimation of Fe(II) in the given solution by titrating against $K_2Cr_2O_7$ potentiometricallyand calculation of % error. (The learner is expected to learn the handling of the potentiometer, use of Platinum electrode and reference electrode like SCE. They will learn to determine end point by plotting a graph. They are also expected to state the error estimate of their results).
- Gravimetric estimation of Sulfate as BaSO₄ and calculation of % error. (The learner is expected to write a balanced chemical reaction, need for digestion of the precipitate and the skill required to carry out the incineration and to estimate the % error.)

(The learner is expected to write a balanced chemical reaction, need for digestion of the precipitate and the skill required to carry out the incineration and to estimate the % error.)

REFERENCES:

For paper III

- D. A. Skoog, D. M. West, F. J. Holler, and S. R. Crouch, Analytical Chemistry: An Introduction, 7th ed., Chapter 15, pp. 345-381.
- A.I. Vogel. "Textbook of Quantitative Inorganic Analysis," Longman, London (1961).
- R.V. Dilts. "Analytical Chemistry. Methods of Separation," van Nostrand, N.Y. (1974).
- Some Experiments for B. Tech in Chemistry & Chemical Technology compiled by Prof. J.B.BARUAH, Mrs. Abhilasha Mohan Baruah and Mr. Parikshit Gogoi

UNIVERSITY OF MUMBAI

No. UG/730f 2018-19

CIRCULAR:-

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Science & Technology Faculty is invited to this office Circular Nos. UG/156 of 2016-17, dated 16th November, 2016 relating to syllabus of the Bachelor of Science (B.Sc.) degree course.

They are hereby informed that the recommendations made by the Board of Studies in Chemistry at its meeting held on 28th May, 2018 have been accepted by the Academic Council at its meeting held on 14th June, 2018 <u>vide</u> item No. 4.41 and that in accordance therewith, the revised syllabus as per the (CBCS) for the Chemistry of T.Y.B.Sc. Physical Chemistry, Inorganic Chemistry, Organic Chemistry and Analytical Chemistry (Sem - V & VI) (3 and 6 Units) including Applied Component Drugs and Dyes, Heavy Fine Chemicals and Petrochemicals has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website <u>www.mu.ac.in</u>).

ullant

(Dr. Dinesh Kamble) I/c REGISTRAR

MUMBAI - 400 032 6th June, 2018 To July

The Principals of the affiliated Colleges & Directors of the recognized Institutions in Science & Technology Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.41/14/06/2018

No. UG/ 73-A of 2018

MUMBAI-400 032

th June, 2018 July

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Science & Technology,
- 2) The Chairman, Board of Studies in Chemistry,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-Ordinator, University Computerization Centre,

unand

(Dr. Dinesh Kamble) I/c REGISTRAR

T.Y.B.Sc. CHEMISTRY (6 UNITS) Choice Based Semester and Grading System To be implemented from the Academic year 2018-2019

SEMESTER V

PHYSICAL CHEMISTRY

COURSE CODE: USCH502

CREDITS: 02

LECTURES: 60

UNIT	TOPIC	NO. OF
		Lectures
UNIT I	1.0 MOLECULAR SPECTROSCOPY	15L
	 Rotational Spectrum: Introduction to dipole moment, polarization of a bond, bond moment, molecular structure, .Rotational spectrum of a diatomic molecule, rigid rotor, moment of inertia, energy levels, conditions for obtaining pure rotational spectrum, selection rule, nature of spectrum, determination of internuclear distance and isotopic shift. Vibrational spectrum: Vibrational motion, degrees of freedom, modes of vibration, vibrational spectrum of a diatomic molecule, simple harmonic oscillator, energy levels, zero point energy, conditions for obtaining vibrational spectrum, selection rule, nature of spectrum, selection rule, nature of spectrum. Vibrational-Rotational spectrum of diatomic molecule: energy levels, selection rule, nature of spectrum, P and R branch lines. Anharmonic oscillator - energy levels, selection rule, fundamental band, overtones. Application of vibrational-rotational spectrum in determination of force constant and its significance. Infrared spectra of simple molecules like H₂O and CO₂. Raman Spectroscopy : Scattering of electromagnetic radiation, Rayleigh scattering, Raman scattering, nature of Raman spectrum, stoke's lines, anti-Stoke's lines, Raman shift, quantum theory of Raman spectrum, comparative study of IR and Raman spectra, rule of mutual exclusion-CO₂ molecule. 	
UNIT II	2.0 CHEMICAL THERMODYNAMICS	10 L
	2.1.1Colligative properties: Vapour pressure and relative lowering of vapour pressure.Measurement of lowering of vapour pressure - Static and Dynamic method.	
	Solutions of Solid in Liquid: Elevation in boiling point of a solution, thermodynamic derivation relating elevation in boiling point of the solution and molar mass of non-volatile solute. Depression in freezing point of a solution, thermodynamic	

	derivation relating the depression in the freezing point of a solution and the molar mass of the non-volatile solute. Beckmann Method and Rast Method.	
	2.1.3 Osmotic Pressure : Introduction, thermodynamic derivation of Van't Hoff equation, Van't Hoff Factor. Measurement of Osmotic Pressure - Berkeley and Hartley's Method, Reverse Osmosis.	
	2.2 CHEMICAL KINETICS	5 L
	 Collision theory of reaction rates : Application of collision theory to 1. Unimolecular reaction Lindemann theory and 2. Bimolecular reaction. (derivation expected for both) Classification of reactions as slow, fast and ultra -fast. Studyof kinetics of fast reactions by Stop flow method and Flash photolysis (No derivation expected). 	
UNIT III	3.0 NUCLEAR CHEMISTRY	15L
	3.1. Introduction : B asic terms-radioactive constants (decay constant, half life and average life) and units of radioactivity	102
	3.2 Detection and Measurement of Radioactivity: Types and characteristics of nuclear radiations, behaviour of ion pairs in electric field, detection and measurement of nuclear radiations using G. M. Counter and Scintillation Counter.	
	3.3 Application of use of radioisotopes as Tracers : chemical reaction mechanism, age determination - dating by C ¹⁴ .	
	3.4 Nuclear reactions : nuclear transmutation (one example for each projectile), artificial radioactivity, Q - value of nuclear reaction, threshold energy.	
	3.5 Fission Process : Fissile and fertile material, nuclear fission, chain reaction, factor controlling fission process. multiplication factor and critical size or mass of fissionable material, nuclear power reactor and breeder reactor.	
	3.6 Fusion Process : Thermonuclear reactions occurring on stellar bodies and earth.	
LINIT IV	4.1 SURFACE CHEMISTRY	61
	 4.1.1 Adsorption: Physical and Chemical Adsorption, types of adsorption isotherms . Langmuir's adsorption isotherm (Postulates and derivation expected). B.E.T. equation for multilayer adsorption, (derivation not expected). Determination of surface area of an adsorbent using B.E.T. equation. 	
	4.2 COLLOIDAL STATE	9L
	 4.2.1 Introduction to colloids - Emulsions, Gels and Sols 4.2.2 Electrical Properties : Origin of charges on colloidal particles, Concept of electrical double layer, zeta potential, Helmholtz and Stern model. Electro-kinetic phenomena - Electrophoresis, Electro-osmosis, Streaming potential, Sedimentation potential; Donnan Membrane 	

Equilibrium.	
4.2.3 Colloidal electrolytes : Introduction, micelle formation,	
4.2.4 Surfactants: Classification and applications of surfactants in detergents and food industry.	

Reference Books :

Physical Chemistry, Ira Levine, 5th Edition, 2002 Tata McGraw Hill Publishing Co.Ltd.

Physical Chemistry, P.C. Rakshit, 6th Edition, 2001, Sarat Book Distributors, Kolkota.

Physical Chemistry, R.J. Silbey, & R.A. Alberty, 3rd edition, John Wiley & Sons, Inc [part 1]

Physical Chemistry, G. Castellan, 3rd edition, 5th Reprint, 1995 Narosa Publishing House.

Modern Electrochemistry, J.O.M Bockris & A.K.N. Reddy, Maria Gamboa – Aldeco 2nd Edition, 1st Indian reprint, 2006 Springer

Fundamental of Molecular Spectroscopy, 4th Edn., Colin N Banwell and Elaine M McCash Tata McGraw Hill Publishing Co. Ltd. New Delhi, 2008.

Physical Chemistry, G.M. Barrow, 6th Edition, Tata McGraw Hill Publishing Co. Ltd. New Delhi.

The Elements of Physical Chemistry, P.W. Atkins, 2nd Edition, Oxford University Press Oxford.

Physical Chemistry, G.K. Vemullapallie, 1997, Prentice Hall of India, Pvt.Ltd. New Delhi.

Principles of Physical Chemistry B.R. Puri, L.R. Sharma, M.S. Pathania, VISHAL PUBLISHING Company, 2008.

Textbook of Polymer Science, Fred W Bilmeyer, John Wiley& Sons (Asia) Ple. Ltd., Singapore, 2007.

Polymer Science, V.R. Gowariker, N.V. Viswanathan, Jayadev Sreedhar, New Age International (P) Ltd., Publishers, 2005.

Essentials of Nuclear Chemistry, Arnikar, Hari Jeevan , NewAge International (P) Ltd., Publishers, 2011..

Chemical Kinetics, K. Laidler, Pearson Education India, 1987.

T.Y.B.Sc Physical Chemistry Practical

SEMESTER V

PHYSICAL CHEMISTRY

COURSE CODE: USCHP01

CREDITS: 02

Non-Instrumental

Colligative properties

To determine the molecular weight of compound by Rast Method

Chemical Kinetics

To determine the order between $K_2S_2O_8$ and KI by fractional change method. (six units and three units)

Surface phenomena

To investigate the adsorption of acetic acid on activated charcoal and test the validity of Freundlich adsorption isotherm.

Instrumental

Potentiometry

To determine the solubility product and solubility of AgCl potentiometrically using chemical cell. **Conductometry**

To determine the velocity constant of alkaline hydrolysis of ethyl acetate by conductometric method.

pH-metry

To determine acidic and basic dissociation constants of amino acid and hence to calculate isoelectric point.

Reference books

Practical Physical Chemistry 3rd edition A.M.James and F.E. Prichard , Longman publication

Experiments in Physical Chemistry R.C. Das and B. Behra, Tata Mc Graw Hill

Advanced Practical Physical Chemistry J.B.Yadav, Goel Publishing House

Advanced Experimental Chemistry. Vol-I J.N.Gurtu and R Kapoor, S.Chand and Co.

Experimental Physical Chemistry By V.D.Athawale.

Senior Practical Physical Chemistry By: B. D. Khosla, V. C. Garg and A. Gulati, R Chand and Co.. 2011

SEMESTER VI

PHYSICAL CHEMISTRY

COURSE CODE: USCH601

CREDITS: 02

LECTURES: 60

UNIT I	1.1 ELECTROCHEMISTRY	7L
	1.1.1 Activity and Activity Coefficient: Lewis concept, ionic strength, Mean ionic activity and mean ionic activity coefficient of an electrolyte, expression for activities of electrolytes. Debye-Huckel limiting law (No derivation).	
	1.1.2 Classification of cells: Chemical cells and Concentration cells.Chemical cells with and without transference, Electrode Concentration cells, Electrolyte concentration cells with and without transference	

	(derivations are expected),	
	1.2 APPLIED ELECTROCHEMISTRY	8L
	1.2.1 Polarization : concentration polarization and it's elimination	
	1.2.2 Decomposition Potential and Overvoltage : Introduction, experimental determination of decomposition potential, factors affecting decomposition potential. Tafel's equation for hydrogen overvoltage, experimental determination of over –voltage	
UNIT II	2.0 POLYMERS	15L
	2.1 Basic terms : macromolecule, monomer, repeat unit, degree of polymerization.	
	2.2. Classification of polymers: Classification based on source, structure, thermal response and physical properties.	
	2.3. Molar masses of polymers: Number average, Weight average, Viscosity average molar mass, Monodispersity and Polydispersity	
	2.4. Method of determining molar masses of polymers : Viscosity method using Ostwald Viscometer. (derivation expected)	
	2.5. Light Emitting Polymers : Introduction, Characteristics, Method of preparation and applications.	
	2.6. Antioxidants and Stabilizers : Antioxidants , Ultraviolet stabilizers, Colourants, Antistatic agents and Curing agents.	
UNIT III	3.1 BASICS OF QUANTUM CHEMISTRY	10 L
UNIT III	 3.1 BASICS OF QUANTUM CHEMISTRY 3.1.1 Classical mechanics: Introduction, limitations of classical mechanics, Black body radiation, photoelectric effect, Compton effect. 	10 L
UNIT III	 3.1 BASICS OF QUANTUM CHEMISTRY 3.1.1 Classical mechanics: Introduction, limitations of classical mechanics, Black body radiation, photoelectric effect, Compton effect. 3.1.2 Quantum mechanics : Introduction, Planck's theory of quantization, wave particle duality, de –Broglie's equation, Heisenberg's uncertainty principle. 	10 L
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	 3.1 BASICS OF QUANTUM CHEMISTRY 3.1.1 Classical mechanics: Introduction, limitations of classical mechanics, Black body radiation, photoelectric effect, Compton effect. 3.1.2 Quantum mechanics : Introduction, Planck's theory of quantization, wave particle duality, de –Broglie's equation, Heisenberg's uncertainty principle. 3.1.3 Progressive and standing waves- Introduction, boundary conditions, Schrodinger's time independent wave equation (No derivation expected), interpretation and properties of wave function. 3.1.4 Quantum mechanics : State function and its significance, Concept of operators - definition, addition, subtraction and multiplication of operators, commutative and non - commutative operators, linear operator, Hamiltonian operator, Eigen function and Eigen value. 3.2 RENEWABLE ENERGY RESOURCES 3.2.1. Renewable energy resources : Introduction. 	10 L
	 3.1 BASICS OF QUANTUM CHEMISTRY 3.1.1 Classical mechanics: Introduction, limitations of classical mechanics, Black body radiation, photoelectric effect, Compton effect. 3.1.2 Quantum mechanics : Introduction, Planck's theory of quantization, wave particle duality, de –Broglie's equation, Heisenberg's uncertainty principle. 3.1.3 Progressive and standing waves- Introduction, boundary conditions, Schrodinger's time independent wave equation (No derivation expected), interpretation and properties of wave function. 3.1.4 Quantum mechanics : State function and its significance, Concept of operators - definition, addition, subtraction and multiplication of operator, Hamiltonian operator, Eigen function and Eigen value. 3.2 RENEWABLE ENERGY RESOURCES 3.2.1. Renewable energy resources : Introduction. 3.2.2 Solar energy: Solar cells, Photovoltaic effect, Differences between conductors, semiconductors insulators and its band gap, Semiconductors as solar energy converters, Silicon solar cell 	10 L

UNIT IV	4.1 NMR -NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY	7L
	Principle : Nuclear spin, magnetic moment, nuclear 'g' factor, energy levels, Larmor precession, Relaxation processes inNMR (spin -spin relaxation and spin - lattice relaxation). Instrumentation : NMR Spectrometer	
	4.2 ELECTRON SPIN RESONANCE SPECTROSCOPY	
	Principle : fundamental equation, g-value -dimensionless constant or electron g-factor, hyperfine splitting. Instrumentation : ESR spectrometer, ESR spectrum of hydrogen and deuterium.	8L

Note : Numericals and Word Problems are Expected from All Units

Reference Books :

Physical Chemistry, Ira Levine, 5th Edition, 2002 Tata McGraw Hill Publishing Co.Ltd.

Physical Chemistry, P.C. Rakshit, 6th Edition, 2001, Sarat Book Distributors, Kolkota.

Physical Chemistry, R.J. Silbey, & R.A. Alberty, 3rd edition, John Wiley & Sons, Inc [part 1]

Physical Chemistry, G. Castellan, 3rd edition, 5th Reprint, 1995 Narosa Publishing House.

Modern Electrochemistry, J.O.M Bockris & A.K.N. Reddy, Maria Gamboa – Aldeco 2nd Edition, 1st Indian reprint,2006 Springer

Fundamental of Molecular Spectroscopy, 4th Edn., Colin N Banwell and Elaine M McCash Tata McGraw Hill Publishing Co. Ltd. New Delhi, 2008.

Physical Chemistry, G.M. Barrow, 6th Edition, Tata McGraw Hill Publishing Co. Ltd. New Delhi.

The Elements of Physical Chemistry, P.W. Atkins, 2nd Edition, Oxford University Press Oxford.

Physical Chemistry, G.K. Vemullapallie, 1997, Prentice Hall of India, Pvt.Ltd. New Delhi.

Principles of Physical Chemistry B.R. Puri, L.R. Sharma, M.S. Pathania, VISHAL PUBLISHING Company, 2008.

Textbook of Polymer Science, Fred W Bilmeyer, John Wiley & Sons (Asia) Ple. Ltd., Singapore, 2007.

Polymer Science, V.R. Gowariker, N.V. Viswanathan, Jayadev Sreedhar, New Age International (P) Ltd., Publishers, 2005.

Essentials of Nuclear Chemistry, Arnikar, Hari Jeevan , New Age International (P) Ltd., Publishers, 2011..

Chemical Kinetics, K. Laidler, Pearson Education India, 1987.

T.Y.B.Sc Physical Chemistry Practical

SEMESTER VI

PHYSICAL CHEMISTRY

COURSE CODE: USCHP02

CREDITS: 02

Non-Instrumental

Chemical Kinetics

To interpret the order of reaction graphically from the given experimental data and calculate the specific rate constant.

(No fractional order)

Viscosity

To determine the molecular weight of high polymer polyvinyl alcohol (PVA) by viscosity measurement.

Instrumental

Potentiometry

To determine the amount of iodide, bromide and chloride in the mixture by potentiometric titration with silver nitrate.

To determine the number of electrons in the redox reaction between ferrous ammonium sulphate and cerric sulphate potentiometrically.

Conductometry

To titrate a mixture of weak acid and strong acid against strong base and estimate the amount of each acid in the mixture conductometrically.

Colorimetry

To estimate the amount of Fe(III) in the complex formation with salicylic acid by Static Method.

Reference books

Practical Physical Chemistry 3rd edition A.M.James and F.E. Prichard , Longman publication

Experiments in Physical Chemistry R.C. Das and B. Behra, Tata Mc Graw Hill

Advanced Practical Physical Chemistry J.B.Yadav, Goel Publishing House

Advanced Experimental Chemistry. Vol-I J.N.Gurtu and R Kapoor, S.Chand and Co.

Experimental Physical Chemistry By V.D.Athawale.

Senior Practical Physical Chemistry By: B. D. Khosla, V. C. Garg and A. Gulati, R Chand and Co.. 2011

UNIVERSITY OF MUMBAI

No. UG/730f 2018-19

CIRCULAR:-

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Science & Technology Faculty is invited to this office Circular Nos. UG/156 of 2016-17, dated 16th November, 2016 relating to syllabus of the Bachelor of Science (B.Sc.) degree course.

They are hereby informed that the recommendations made by the Board of Studies in Chemistry at its meeting held on 28th May, 2018 have been accepted by the Academic Council at its meeting held on 14th June, 2018 <u>vide</u> item No. 4.41 and that in accordance therewith, the revised syllabus as per the (CBCS) for the Chemistry of T.Y.B.Sc. Physical Chemistry, Inorganic Chemistry, Organic Chemistry and Analytical Chemistry (Sem - V & VI) (3 and 6 Units) including Applied Component Drugs and Dyes, Heavy Fine Chemicals and Petrochemicals has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website <u>www.mu.ac.in</u>).

ullant

(Dr. Dinesh Kamble) I/c REGISTRAR

MUMBAI - 400 032 6th June, 2018 To July

The Principals of the affiliated Colleges & Directors of the recognized Institutions in Science & Technology Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.41/14/06/2018

No. UG/ 73-A of 2018

MUMBAI-400 032

th June, 2018 July

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Science & Technology,
- 2) The Chairman, Board of Studies in Chemistry,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-Ordinator, University Computerization Centre,

unand

(Dr. Dinesh Kamble) I/c REGISTRAR

T.Y.B.Sc. CHEMISTRY (6 UNITS)

Choice Based Semester and Grading System

SEMESTER V

INORGANIC CHEMISTRY

COURSE CODE: USCH502

CREDITS: 02

LECTURES: 60

UNIT-I	L/Week
1. Molecular Symmetry and Chemical Bonding	
1.1Molecular Symmetry (6L)	
1.1.1 Introduction and Importance of Symmetry in Chemistry.	
1.1.2 Symmetry elements and Symmetry operations.	
1.1.3 Concept of a Point Group with illustrations using the	
following point groups :(i) $C_{\infty V}$ (ii) $D_{\infty h}$ (iii) C_{2V} (iv) C_{3v}	
$(v)C_{2h}$ and $(vi)D_{3h}$	
1.2 Molecular Orbital Theory for heteronuclear diatomic	
molecules and polyatomic species (9L)	
1.2.1 Comparision between homonuclear and heteronuclear	
diatomic molecules.	
1.2.2. Heteronuclear diatomic molecules like CO, NO and HCl,	
appreciation of modified MO diagram for CO.	
1.2.5 Wolecular orbital theory for H_3 and H_3_+ (correlation	
diagram expected).	
1.2.4. Molecular shape to molecular orbital approach in AB_2	
molecules. Application of symmetry concepts for linear and	
angular species considering σ - bonding only.	
(Examples like : i) BeH ₂ , ii) H ₂ O).	
UNIT-II	
2 SOLID STATE CHEMISTRY	
2.1 Structures of Solids (11L)	
2.2.1 Explanation of terms viz.crystal lattice, lattice point, unit cell	
and lattice constants.	
2.1.2 Closest packing of rigid spheres (hcp,ccp), packing density	
in simple cubic, bcc and fcc lattices. Relationship between	
density, radius of unit cell and lattice parameters.	

2.1.3 Stoichiometric Point defects in solids (discussion on Frenkel	
and Schottky defects expected).	
2.2 Superconductivity (4L)	
2.2.1 Discovery of superconductivity.	
2.2.2 Explanation of terms like superconductivity, transition	
temperature, Meissner effect.	
2.2.3 Different types of super conductors viz.conventional	
superconductors, alkali metal fullerides, high temperature	
super conductors.	
2.2.4 Brief application of superconductors.	
UNIT-III	
3.0 CHEMISTRY OF INNER TRANSITION ELEMENTS	
(15L)	
3.1 Introduction: Position in periodic table and electronic	
configuration of lanthanides and actinides.	
3.2 Chemistry of Lanthanides with reference to (i) lanthanide	
contraction and its consequences(ii) Oxidation states (iii)	
Ability to form complexes (iv) Magnetic and spectral	
properties	
3.3 :Occurrence, extraction and separation of lanthanides by (i)	
Ion Exchange method and (ii) Solvent extraction method	
(Principles and technique)	
3.4 Applications of lanthanides	
UNIT-IV	
4. SOME SELECTED TOPICS	
4.1 Chemistry of Non-aqueous Solvents (5 L)	
4.1.1Classification of solvents and importance of non-aqueous	
solvents.	
4.1.2 Characteristics and study of liquid ammonia, dinitrogen tetra	
oxide as non-aqueous solvents with respect to : (1) acid-base	
reactions and (11) redox reactions.	
4.2 Comparative Chemistry of Group 16 (5L)	
4.2.1 Electronic configurations, trends in physical properties,	
allotropy	
4.2.2 Manufacture of sulphuric acid by Contact process.	
4.3 Comparative Chemistry of Group 17 (5L)	
4.3.1Electronic configuration, General characteristics, anamolous	
properties of fluorine, comparative study of acidity of	
oxyacids of chlorine w.r.t acidity, oxidising properties and	
structures(on the basis of vSEPK theory)	
4.5.2 Unemistry of internalogens with reference to preparations,	
properties and structures (on the basis of v SEPK theory).	

REFERENCES

SEM-V

Unit-I

- Per Jensen and Philip R. Bunker , Fundamentals of Molecular Symmetry , Series in Chemical Physics, Taylor & Francis Group
- J. S. Ogden, Introduction to Molecular Symmetry, Oxford University Press
- Derek W. Smith, Molecular orbital theory in inorganic chemistry Publisher: Cambridge University Press
- C. J. Ballhausen, Carl Johan Ballhausen, Harry B. Gray Molecular Orbital Theory: An Introductory Lecture Note and Reprint Volume Frontiers in chemistry Publisher W.A. Benjamin, 1965
- Jack Barrett and Mounir A Malati, Fundamentals of Inorganic Chemistry, Affiliated East west Press Pvt. Ltd., New Delhi.
- Satya Prakash, G.D.Tuli, R.D. Madan , , Advanced Inorganic Chemistry.S. Chand &Co Ltd

Unit-II

- Lesley E. Smart, Elaine A. Moore Solid State Chemistry: An Introduction, 2nd Edition CRC Press,
- C. N. R. Rao Advances in Solid State Chemistry
- R.G. Sharma Superconductivity: Basics and Applications to Magnets
- Michael Tinkham ,Introduction to Superconductivity: Vol I (Dover Books on Physics)
- R. Gopalan, Inorganic Chemistry for Undergraduates, Universities Press India.
- Richard Harwood, Chemistry, Cambridge University Press,
- Satya Prakash, G.D.Tuli, R.D. Madan , , Advanced Inorganic Chemistry.S. Chand &Co Ltd .

Unit-III

- Cotton, Wilkinson, Murillo and Bochmann, Advanced Inorganic Chemistry, 6th Edition.
- Greenwood, N.N. and Earnshaw, Chemistry of the Elements, Butterworth Heinemann. 1997.

Huheey, J.E., Inorganic Chemistry, Prentice Hall, 1993.

G. Singh, Chemistry of Lanthanides and Actinides, Discovery Publishing House Simon Cotton , Lanthanide and Actinide Chemistry Publisher: Wiley-Blackwell

Unit-IV

- B. H. Mahan, University Chemistry, Narosa publishing.
- R. Gopalan, Inorganic Chemistry for Undergraduates, Universities Press India.

J. D. Lee, Concise Inorganic Chemistry, 4thEdn., ELBS,

- D. F. Shriver and P. W. Atkins, Inorganic chemistry, 3rd edition, Oxford University Press
- Cotton, Wilkinson, Murillo and Bochmann, Advanced Inorganic Chemistry, 6th Edition.
- Gary Wulfsberg, Inorganic chemistry, Viva Books Pvt, Ltd. (2002).
- Richard Harwood, Chemistry, chapter 10 Industrial inorganic chemistry
- Greenwood, N.N. and Earnshaw, Chemistry of the Elements, Butterworth Heinemann. 1997.
- Huheey, J.E., Inorganic Chemistry, Prentice Hall, 1993
- Satya Prakash, G.D.Tuli, R.D. Madan , Advanced Inorganic Chemistry.S.Chand & Co Ltd 2004

Practicals

SEMESTER V

INORGANIC CHEMISTRY

COURSE CODE: USCHP05

CREDITS: 02

(60L)

Course USCH502: Inorganic Practicals

Inorganic preparations

Preparation of Potassium diaquobis- (oxalato)cuprate (II) Preparation of Ferrous ethylene diammonium sulphate. Preparation of bisacetylacetonatocopper(II)

Determination of percentage purity of the given water soluble salt and qualitative detection w.r.t added cation and/or anion (qualitative analysis only by wet tests).

(Any three salts of transition metal ions)

Reference Books (practicals)

Vogel Textbook of Quantitative Chemical Analysis G.H. Jeffery, J. Basset.

Advanced experiments in Inorganic Chemistry., G. N. Mukherjee., 1st Edn., 2010.,

U.N.Dhur & Sons Pvt Ltd .

Vogel's. Textbook of. Macro and Semimicro qualitative inorganic analysis. Fifth edition.

SEMESTER VI

INORGANIC CHEMISTRY

COURSE CODE: USCH602

CREDITS: 02

LECTURES: 60

COURSE CODE	CREDITS	
USCH602	(60 Lectures)	
(Numericals and word problems are expected)		
UNIT-I		L/week
1.Theories of the metal-ligand bond ()	(15L)	
1.1 Limitations of Valence Bond Theory	/.	
1.2 Crystal Field Theory and effect of cr	rystal field on central metal	
valence orbitals in various geometric	es from linear to	
octahedral(from coordination number	er 2 to coordination number	
6)		
1.3 Splitting of <i>d</i> orbitals in octahedral,	square planar and tetrahedral	
crystal fields.		
1.4 Distortions from the octahedral geor	netry : (i) effect of ligand	
field and (ii) Jahn-Teller distortions.		
1.5 Crystal field splitting parameters Δ ;	its calculation and factors	
affecting it in octahedral complexes,	Spectrochemical series.	
1.6 Crystal field stabilization energy(CF	SE), calculation of CFSE for	
octahedral complexes with d ⁰ to d ¹⁰ n	netal ion configurations.	
1.7 Consequences of crystal field splitting	ng on various properties such	
as ionic radii, hydration energy and	enthalpies of formation of	
metal complexes of the first transition	on series.	
Limitations of CFT : Evidences for cova	lence in metal complexes	
intensities of d-d transitions, (ii) ESI	R spectrum of [IrCl ₆] ²⁻ (iii)	
Nephelauxetic effect.		
UNIT-II		
2.Theories of the metal-ligand bond ((I)	
2.1 Molecular orbital Theory for coor	dination compounds. (4L)	

2.1.1 Identification of the central metal orbitals and their symmetry	
suitable for formation of σ bonds with ligand orbitals.	
2.1.2 Construction of ligand group orbitals.	
2.1.3 Construction of σ -molecular orbitals for an ML ₆ complex.	
2.1.4 Effect of π -bonding on complexes .	
2.1.5 Examples like $[FeF_6]^4$, $[Fe(CN)_6]^4$, $[FeF_6]^{-3}$, $[Fe(CN)_6]^{-3}$, $[CoF_6]^{-3}$, $[CoF_6]^{-3}$, $[Co(NH_3)_6]^{+3}$	
2.2 Stability of Metal-Complexes (4L)	
2.2.1 Thermodynamic and kinetic perspectives of metal complexes	
2.2.2 Stability constants: stepwise and overall stability constants and	
their interrelationship.	
2.2.3 Factors affecting thermodynamic stability.	
2.3 Reactivity of metal complexes. (4L)	
2.3.1 Comparison between Inorganic and organic reactions.	
2.3.2 Types of reactions in metal complexes.	
2.3.3 Inert and labile complexes : correlation between electronic	
configurations and lability of complexes.	
2.3.4 Ligand substitution reactions : Associative and Dissociative	
mechanisms.	
2.2.5 Acid hydrolysis, base hydrolysis and anation reactions.	
	+
2.4 Electronic Spectra. (3L)	
2.4 Electronic Spectra. (3L) 2.4.1Origin of electronic spectra	
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2.4 Electronic Spectra. (3L) 2.4.1Origin of electronic spectra (3L) 2.4.2 Types of electronic transitions in coordination compounds: intra- ligand, Charge transfer and intra-metal transitions. (3L) 2.4.2 Types of electronic transitions in coordination compounds: intra- ligand, Charge transfer and intra-metal transitions. (3L) 2.4.3 Selection rules for electronic transitions. (3L) 2.4.4 Electronic configuration and electronic micro states, Terms and Term symbols for transition metal ions, rules for determination of ground state term. 2.4.5 Determination of Terms for p ² and d ¹ electronic configurations. UNIT-III 2.4.5 Determination of Terms for p ² and d ¹ electronic configurations.	
2.4 Electronic Spectra.(3L)2.4.1Origin of electronic spectra2.4.2 Types of electronic transitions in coordination compounds: intra- ligand, Charge transfer and intra-metal transitions.2.4.3 Selection rules for electronic transitions.2.4.4 Electronic configuration and electronic micro states, Terms and Term symbols for transition metal ions, rules for determination of ground state term.2.4.5 Determination of Terms for p² and d¹ electronic configurations.UNIT-III3 ORGANOMETALLIC CHEMISTRY(15L)	
2.4 Electronic Spectra.(3L)2.4.1Origin of electronic spectra2.4.2 Types of electronic transitions in coordination compounds: intra- ligand,Charge transfer and intra-metal transitions.2.4.3 Selection rules for electronic transitions.2.4.4 Electronic configuration and electronic micro states, Terms and Term symbols for transition metal ions, rules for determination of ground state term.2.4.5 Determination of Terms for p² and d¹ electronic configurations.UNIT-III3 ORGANOMETALLIC CHEMISTRY11 Organometallic Compounds of main group metal 	
2.4 Electronic Spectra.(3L)2.4.1Origin of electronic spectra2.4.2 Types of electronic transitions in coordination compounds: intra- ligand, Charge transfer and intra-metal transitions.2.4.2 Selection rules for electronic transitions.2.4.3 Selection rules for electronic transitions.2.4.4 Electronic configuration and electronic micro states, Terms and Term symbols for transition metal ions, rules for determination of ground state term.2.4.5 Determination of Terms for p² and d¹ electronic configurations.UNIT-III3 ORGANOMETALLIC CHEMISTRY3.1 Organometallic Compounds of main group metal (6L)3.1.1General characteristics of various types of organometallic	
2.4 Electronic Spectra. (3L) 2.4.1Origin of electronic spectra 2.4.1Origin of electronic transitions in coordination compounds: intra- ligand, Charge transfer and intra-metal transitions. 2.4.2 Types of electronic transitions in coordination compounds: intra- ligand, Charge transfer and intra-metal transitions. 2.4.3 Selection rules for electronic transitions. 2.4.4 Electronic configuration and electronic micro states, Terms and Term symbols for transition metal ions, rules for determination of ground state term. 2.4.5 Determination of Terms for p ² and d ¹ electronic configurations. UNIT-III 3 ORGANOMETALLIC CHEMISTRY (15L) 3.1.1General characteristics of various types of organometallic compounds, viz.ionic, σ-bonded and electron deficient	
 2.4 Electronic Spectra. (3L) 2.4.1Origin of electronic spectra 2.4.2 Types of electronic transitions in coordination compounds: intra- ligand, Charge transfer and intra-metal transitions. 2.4.3 Selection rules for electronic transitions. 2.4.4 Electronic configuration and electronic micro states, Terms and Term symbols for transition metal ions, rules for determination of ground state term. 2.4.5 Determination of Terms for p² and d¹ electronic configurations. UNIT-III 3 ORGANOMETALLIC CHEMISTRY (15L) 3.1 Organometallic Compounds of main group metal (6L) 3.1.1General characteristics of various types of organometallic compounds, viz.ionic, σ-bonded and electron deficient compounds. 	
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 2.4 Electronic Spectra. (3L) 2.4.1Origin of electronic spectra 2.4.2 Types of electronic transitions in coordination compounds: intra- ligand, Charge transfer and intra-metal transitions. 2.4.3 Selection rules for electronic transitions. 2.4.4 Electronic configuration and electronic micro states, Terms and Term symbols for transition metal ions, rules for determination of ground state term. 2.4.5 Determination of Terms for p² and d¹ electronic configurations. UNIT-III 3 ORGANOMETALLIC CHEMISTRY (15L) 3.1 Organometallic Compounds of main group metal (6L) 3.1.1General characteristics of various types of organometallic compounds, viz.ionic, σ-bonded and electron deficient compounds. 3.1.2 General synthetic methods of organometallic compounds : (i) Oxidative-addition, (ii)Metal-metal exchange(transmetallation), (iii) Carbanion-halide exchange, (iv) Metal-hydrogen exchange(metallation) and (v) Methylene- ingagetion group is a state of the state	
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(i) Reactions with oxygen and halogens, (ii) Alkylation and	
arylation reactions (iii) Reactions with protic reagents, (iv)	
Redistribution reactions and (v) Complex formation reactions.	
3.2 Metallocenes (5L)	
Introduction, Ferrocene : Synthesis, properties, structure and	
bonding on the basis of VBT.	
3.3 Catalysis (4L)	
3.3.1 Comparison between homogeneous and heterogeneous	
catalysis	
3.3.2 Basic steps involved in homogeneous catalysis	
3.3.3 Mechanism of Wilkinson's catalyst in hydrogenation of	
alkenes.	
UNIT-IV	
4 SOME SELECTED TOPICS (15L)	
4.1 Metallurgy (7L)	
4.1.1 Types of metallurgies,	
4.1.2 General steps of metallurgy; Concentration of ore,	
calcinations, roasting, reduction and refining.	
4.1.3 Metallurgy of copper: occurrence, physicochemical principles,	
Extraction of copper from pyrites& refining by electrolysis.	
4.2 Chemistry of Group 18 (5L)	
4.2.1 Historical perspectives	
4.2.2 General characteristics and trends in physical and chemical	
properties	
4.2.3 Isolation of noble gases	
4.2.4 Compounds of Xenon (oxides and fluorides) with respect to	
preparation and structure (VSEPR)	
4.2.5 Uses of noble gases	
4.3 Introduction to Bioinorganic Chemistry. (3L)	
4.3.1Essential and non essential elements in biological systems.	
4.3.2 Biological importance of metal ions such as Na ⁺ ,K ⁺ ,Fe ⁺² /Fe ⁺³	
and Cu ⁺² (Role of Na ⁺ and K ⁺ w.r.t ion pump)	

Unit-I:

Geoffrey A. Lawrance Introduction to Coordination Chemistry John Wiley & Sons.

R. K. Sharma Text Book of Coordination Chemistry Discovery Publishing House
 R. Gopalan , V. Ramalingam Concise Coordination Chemistry , Vikas Publishing House;

Shukla P R, Advance Coordination Chemistry, Himalaya Publishing House

Glen E. Rodgers, Descriptive Inorganic, Coordination, and Solid-State Chemistry Publisher: Thomson Brooks/Cole

Unit-II:

Ramesh Kapoor and R.S. Chopra, **Inorganic Chemistry**, R. Chand publishers, Basolo, F, and Pearson, R.C., Mechanisms of Inorganic Chemistry, John Wiley & Sons, NY,

Twigg ,Mechanisms of Inorganic and Organometallic Reactions Publisher: Springer

R.K. Sharma Inorganic Reaction Mechanisms Discovery Publishing House M. L. Tobe Inorganic Reaction Mechanisms Publisher Nelson, 1972

Unit-III:

Cotton, Wilkinson, Murillo and Bochmann, Advanced **Inorganic Chemistry**, 6th Edition..

H.W. Porterfield, Inorganic Chemistry, Second Edition, Academic Press, 2005

Purecell, K.F. and Kotz, J.C., Inorganic Chemistry W.B. Saunders Co. 1977.

Robert H. Crabtree ,The Organometallic Chemistry of the Transition Metals, Publication by John Wiley & Sons

- B D Gupta & Anil J Elias Basic Organometallic Chemistry: Concepts, Synthesesand Applications, University press
- Ram Charan Mehrotra, Organometallic Chemistry: A Unified Approach, NewAge International.

Unit-IV

- R. Gopalan, Inorganic Chemistry for Undergraduates, Universities Press India.
- D. F. Shriver and P. W. Atkins, Inorganic chemistry, 3rd edition, Oxford University Press
- Cotton, Wilkinson, Murillo and Bochmann, Advanced Inorganic Chemistry, 6th Edition.

Jack Barrett and Mounir A Malati, Fundamentals of Inorganic Chemistry, Affiliated East west Press Pvt. Ltd., New Delhi.

R.Gopalan, Chemistry for undergraduates. Chapter 18. Principles of Metallurgy.(567-591)

Puri ,Sharma Kalia Inorganic chemistry. Chapter 10, Metals and metallurgy.(328-339)

Greenwood, N.N. and Earnshaw, Chemistry of the Elements, Butterworth Heinemann. 1997.Huheey, J.E., Inorganic Chemistry, Prentice Hall, 1993.

Lippard, S.J. & Berg, J.M. Principles of Bioinorganic Chemistry Panima Publishing Company 1994.

Satya Prakash, G.D.Tuli, R.D. Madan , , Advanced Inorganic Chemistry.S. Chand& Co Ltd

PRACTICALS

SEMESTER VI

INORGANIC CHEMISTRY

COURSE CODE: USCHP06

CREDITS: 02

Inorganic preparations

Preparation of Tris(acetylacetonato) iron(III)

Green synthesis of bis(dimethylglyoximato) nickel(II) complex using nickel carbonate and sodium salt of dmg.

Preparation of potassium trioxalato aluminate (III)

Determination of percentage purity of the given water soluble salt and qualitative detection w.r.t added cation and/or anion (qualitative analysis only by wet tests).

(Any three salts of main group metal ions)

Reference Books (practicals)

Vogel Textbook of Quantitative Chemical Analysis G.H. Jeffery, J. Basset.

Advanced experiments in Inorganic Chemistry., G. N. Mukherjee., 1st Edn., 2010.,

U.N.Dhur & Sons Pvt Ltd.

Vogel's. Textbook of. Macro and Semimicro qualitative inorganic analysis. Fifth edition.

UNIVERSITY OF MUMBAI

No. UG/730f 2018-19

CIRCULAR:-

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Science & Technology Faculty is invited to this office Circular Nos. UG/156 of 2016-17, dated 16th November, 2016 relating to syllabus of the Bachelor of Science (B.Sc.) degree course.

They are hereby informed that the recommendations made by the Board of Studies in Chemistry at its meeting held on 28th May, 2018 have been accepted by the Academic Council at its meeting held on 14th June, 2018 <u>vide</u> item No. 4.41 and that in accordance therewith, the revised syllabus as per the (CBCS) for the Chemistry of T.Y.B.Sc. Physical Chemistry, Inorganic Chemistry, Organic Chemistry and Analytical Chemistry (Sem - V & VI) (3 and 6 Units) including Applied Component Drugs and Dyes, Heavy Fine Chemicals and Petrochemicals has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website <u>www.mu.ac.in</u>).

ullant

(Dr. Dinesh Kamble) I/c REGISTRAR

MUMBAI - 400 032 6th June, 2018 To July

The Principals of the affiliated Colleges & Directors of the recognized Institutions in Science & Technology Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.41/14/06/2018

No. UG/ 73-A of 2018

MUMBAI-400 032

th June, 2018 July

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Science & Technology,
- 2) The Chairman, Board of Studies in Chemistry,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-Ordinator, University Computerization Centre,

unand

(Dr. Dinesh Kamble) I/c REGISTRAR

T.Y.B.Sc, CHEMISTRY (Six Units)

SEMESTER V

ORGANIC CHEMISTRY

COURSE CODE: USCH503

CREDITS: 02

LECTURES: 60

(10 L)

Unit I

Mechanism of organic reactions

The basic terms & concepts: bond fission, reaction intermediates, electrophiles & nucleophiles, ligand, base, electrophilicity vs. acidity & nucleophilicity vs basicity.

Neighbouring group participation in nucleophilic substitution reactions: participation of lonepair of electrons, kinetics and stereochemical outcome.

Acyl nucleophilic substitution (Tetrahedral mechanism): Acid catalyzed esterification of

carboxylic acids ($A_{AC}2$) and base promoted hydrolysis of esters ($B_{AC}2$).

Pericyclic reactions, classification and nomenclature

Electro cyclic reactions (ring opening and ring closing), cycloaddition, sigma tropic Rearrangement,

group transfer reactions, cheletropic reaction (definition and one example of each type)

Pyrolytic elimination: Cope, Chugaev, pyrolysis of acetates

References:

A guidebook to mechanism in Organic Chemistry, 6th edition, Peter Sykes, Pearson education, New Delhi

Organic Reaction Mechanism, 4th edition, V. K. Ahluwalia, R. K. Parashar, Narosa Publication.

- Organic reactions & their mechanisms,3rd revised edition, P.S. Kalsi, New Age International Publishers.
- M.B.Smith and J. March, Advanced organic chemistry- reactions mechanism and structure,5th edition.

Photochemistry

Introduction: Difference between thermal and photochemical reactions. Jablonski diagram, singlet and triplet states, allowed and forbidden transitions, fate of excited molecules, photosensitization.

Photochemical reactions of olefins: photoisomerization, photochemical rearrangement of 1,4- dienes (di- π methane)

Photochemistry of carbonyl compounds: Norrish I, Norrish II cleavages. Photo reduction (e.g. benzophenone to benzpinacol)

References:

Organic Chemistry, 7thEdition, R.T. Morrison, R. N. Boyd & S. K. Bhattacharjee, Pearson. Organic chemistry,8th edition, John Mc Murry

Unit II

Stereochemistry I

Molecular chirality and elements of symmetry: Mirror plane symmetry, inversion center, roation -reflection (alternating) axis.

(5 L)

(5 L)

Chirality of compounds without a stereo genic center: cummulenes and biphenyls.

References:

L. Eliel, stereochemistry of carbon compounds, Tata McGraw Hill Stereochemistry P.S.Kalsi, New Age International Ltd.,4th Edition Stereochemistry by Nassipuri.

Agrochemicals

General introduction & scope, meaning & examples of insecticides, herbicides, fungicide,

rodenticide, pesticides, plant growth regulators.

Advantages & disadvantages of agrochemicals

Synthesis & application of IAA (Indole Acetic Acid) & Endosulphan,

Bio pesticides - Neem oil & Karanj oil.

References:

Insecticides & pesticides: Saxena A. B., Anmol publication. Growth regulators in Agriculture & Horticulture: Amarjit Basra, CRC press 2000. Agrochemicals and pesticides: A.Jadhav and T.V.Sathe.

Heterocyclic chemistry:

Reactivity of pyridine-N-oxide, quinoline and iso-quionoline.

Preparation of pyridine-N-oxide, quinoline (Skraup synthesis) and iso-quinoline (Bischler-Napieralski synthesis).

Reactions of pyridine-N-oxide: halogenation, nitration and reaction with NaNH₂/liq.NH₃,n-BuLi. Reactions of quinoline and isoquinoline; oxidation,reduction,nitration,halogenation andreaction

with NaNH₂/liq.NH₃,n-BuLi.

References

IUPAC

Name Reactions in Heterocyclic Chemistry, Jie-Jack Li, Wiley-Interscience publications, 2005. Handbook of Heterocyclic Chemistry, 2nd Edition, Alan R. Katritzky and Alexander F.

Pozharskii, Elsevier Science Ltd, 2000.

Heterocyclic Chemistry, 5th Edition, John A. Joule and Keith Mills, Wiley publication, 2010. Heterocyclic chemistry, 3rd Edition, Thomas L. Gilchrist, Pearson Education, 2007.

Unit III

(5 L)

(4 L)

(6 L)

IUPAC Systematic nomenclature of the following classes of compounds (including compounds upto two substituents / functional groups):

Bicyclic compounds – spiro, fused and bridged (upto 11 carbon atoms) – saturated and unsaturated compounds.

Biphenyls Cummulenes with upto 3 double bonds Quinolines and isoquinolines

References

Nomenclature of Organic Chemistry: IUPAC recommendations and preferred Names 2013, RSC publication. IUPAC nomenclature by S.C.Pal.

Synthesis of organic compounds

Introduction: Linear and convergent synthesis, criteria for an ideal synthesis, concept of chemo selectivity and regioselectivity with examples, calculation of yields.

Multicomponent Synthesis: Mannich reaction and Biginelli reaction. Synthesis with examples(no mechanism)

Green chemistry and synthesis:

Introduction: Twelve principles of green chemistry, concept of atom economy and E-factor, calculations and their significance, numerical examples.

Green reagents: dimethyl carbonate.

Green starting materials : D-glucose

Green solvents : supercritical CO₂

Green catalysts: Bio catalysts.

Planning of organic synthesis

synthesis of nitroanilines. (*o&p*)

synthesis of halobenzoic acid.(*o&p*)

Alcohols (primary / secondary / tertiary) using Grignard reagents.

Alkanes (using organo lithium compounds)

Reference:

Green chemistry an introductory text : Mike Lancaster.

Green chemistry: V. K. Ahluwalia (Narosa publishing house pvt. ltd.)

Green chemistry an introductory text : RSC publishing.

New trends in green chemistry V. K. Ahluwalia , M. Kidwai, Klumer Academic publisher

Green chemistry by V. Kumar.

Organic chemistry: Francis Carey

Organic chemistry: Carey and Sundberg.

Unit IV

Spectroscopy I

Introduction: Electromagnetic spectrum, units of wavelength and frequency

UV – Visible spectroscopy: Basic theory, solvents, nature of UV-Visible spectrum, concept of chromophore, auxochrome, bathochromic and hypsochromic shifts, hyperchromic and hypochromic effects, chromophore-chromophore and chromophore-auxochrome interactions.

Mass spectrometry: Basic theory. Nature of mass spectrum. General rules of fragmentation. Importance of molecular ion peak, isotopic peaks, base peak, nitrogen rule, rule of 13 for determination of empirical formula and molecular formula. Fragmentation of alkanes and aliphatic carbonyl compounds.

References:

Organic spectroscopy (Second edition), Jag Mohan , Narosa publication Spectroscopy, Pavia, Lampman, Kriz, Vyvyan.

(10L)

(5 L)

Elementary organic spectroscopy (Third edition), Y.R.Sharma, S.Chand publication..

Introduction to spectroscopy (third edition), Pavia ,Lampman,Kriz,john vondeling,Emily Barrosse.

Organic chemistry Paula Y. Bruice, Pearson education.

Spectral identification of organic molecules by Silverstein.

Absorption spectroscopy of organic molecules by V.M.Parikh.

Natural Products:

(10L)

4.2.1. Terpenoids: Introduction, Isoprene rule, special isoprene rule and the gem-dialkyl rule. Citral:

Structural determination of citral.

Synthesis of citral from methyl heptenone

Isomerism in citral. (cis and trans form).

4.2.3. Alkaloids Introduction and occurrence.

Hofmann's exhaustive methylation and degradation in: simple open chain and N – substituted monocyclic amines.

Nicotine:

Structural determination of nicotine. (Pinner's work included)

Synthesis of nicotine from nicotinic acid

Harmful effects of nicotine.

Hormones:

Introduction, structure of adrenaline (epinephrine), physiological action of adrenaline.

Synthesis of adrenaline from

Catechol

p-hydroxybenzaldehyde(Ott's synthesis)

References:

Chemistry of natural products by Chatwal Anand – Vol I and Vol II Chemistry of natural products by O.P. Agarwal Chemistry of natural products by Meenakshi Sivakumar and Sujata Bhat. Organic chemistry by Morrision and Boyd,7th edition. I.L.Finar,Vol-I and Vol-II, 5th edition.

PRACTICALS

SEMESTER V

ORGANIC CHEMISTRY

COURSE CODE: USCHP09

A) SEMESTER V: Separation of Binary solid-solid mixture (2.0 gms mixture to be given). Minimum Six mixtures to be completed by the students.

Components of the mixture should include water soluble and water insoluble acids (carboxylic acid), water insoluble phenols(2-naphthol, 1-naphthol), water insoluble bases

CREDITS: 02

(nitroanilines), water soluble neutral (thiourea) and water insoluble neutral compounds (anilides, amides, m-DNB, hydrocarbons)

After correct determination of chemical type, the separating reagent should be decided by the student for separation.

Follow separation scheme with the bulk sample of binary mixture.

After separation into component A and component B, one component (decided by the examiner) isto be analyzed and identified with m.p..

References:

Practical organic chemistry – A. I. Vogel Practical organic chemistry – H.Middleton. Practical organic chemistry – O.P.Aggarwal.

SEMESTER VI

ORGANIC CHEMISTRY

COURSE CODE: USCH603

CREDITS: 02

LECTURES: 60

Unit I

Stereochemistry II

Stereoselectivity and stereospecificity: Idea of enantioselectivity (ee) and diastereoselectivity(de),

Topicity : enantiotopic and diasterotopic atoms, groups and faces.

Stereochemistry of -

Substitution reactions : S_{Ni} (reaction of alcohol with thionyl chloride)

Elimination reactions: E₂–Base induced dehydrohalogenation of 1-bromo-1,2diphenylpropane.

Addition reactions to olefins:

bromination (electrophilic anti addition)

syn hydroxylation with O_sO_4 and $KMnO_4$

epoxidation followed by hydrolysis.

References:

Refer Stereochemistry -I (Sem-V, Unit-II)

Amino acids & Proteins

 α -Amino acids: General Structure, configuration, and classification based on structure and nutrition. Properties: pH dependency of ionic structure, isoelectric point and zwitter ion. Methods of preparations: Strecker synthesis, Gabriel phthalamide synthesis.

Polypeptides and Proteins: nature of peptide bond. Nomenclature and representation of polypeptides (di-and tri-peptides) with examples Merrifield solid phase polypeptide synthesis.

.Protiens:general idea of primary,secondary,tertiary & quaternary structure

(5 L)

(10 L)

References:

Biochemistry, 8thEd., Jeremy Berg, Lubert Stryer, John L. Tymoczko, Gregory J. Gatto Pub. W. H. Freeman Publishers

Lehninger Principles of Biochemistry 7th Ed., David Nelson and Michael Cox, Publisher W. H. Freeman

Name Reactions – Jie Jack Li, 4th Edition, Springer Pub.

Unit II

Molecular Rearrangements

Mechanism of the following rearrangements with examples and stereochemistry wherever applicable. Migration to the electron deficient carbon: Pinacol-pinacolone rearrangement. Migration to the electron deficient nitrogen: Beckmann rearrangement.

Migration involving a carbanion : Favorski rearrangement.

Name reactions: Michael addition, Wittig reaction.

References:

Refer Mechanism of organic reaction (Sem-V, Unit-I)

Carbohydrates

Introduction: classification, reducing and non-reducing sugars, DL notation

Structures of monosaccharides: Fischer projection (4-6 carbon monosaccharides)and

Haworth formula (furanose and pyranose forms of pentoses and hexoses)

Interconversion: open chain and Haworth forms of monosaccharides with 5 and 6 carbons.

Chair conformation with stereochemistry of D-glucose, Stability of chair form of D-glucose

Stereoisomers of D-glucose: enantiomer, diastereomers, anomers, epimers.

Mutarotation in D-glucose with mechanism

Chain lengthening & shortening reactions: Modified Kiliani-Fischer synthesis (D-arabinose toDglucose and D-mannose), Wohl method (D-glucose to D-arabinose)

Reactions of D-glucose and D-fructose:

Osazone formation (b) reduction: Hi/Ni, NaBH₄ (c) oxidation: bromine water, HNO₃, HIO₄

(d) acetylation (e) methylation:(d) and (e) with cyclic pyranose forms

Glycosides: general structure

References:

Organic chemistry (fourth edition), G, Marc Loudon, Oxford University press.

Introduction to Organic Chemistry (Third edition), Andrew Streitwieser, Jr. Clayton H.

Heathcock, Macmilan publishing.

Organic chemistry fourth edition, Morrision and Boyd.

Introduction to Organic chemistry, John McMurry.

Organic chemistry volume-1&2 (fifth and sixth edition) IL Finar.

Unit III

Spectroscopy II

(10 L)

IR Spectroscopy: Basic theory, nature of IR spectrum, selection rule, fingerprint region.

PMR Spectroscopy: Basic theory of PMR, nature of PMR spectrum, chemical shift (δ unit), standard for PMR, solvents used. Factors affecting chemical shift: (1) inductive effect (2)anisotropic effect (with reference to C=C, C≡C, C=O and benzene ring). Spin- spin coupling and

(10 L)

(5 L)

coupling constant. application of deuterium exchange technique. application of PMR in structure determination.

Spectral characteristics of following classes of organic compounds, including benzene and monosubstituted benzenes, with respect to IR and PMR: (1) alkanes (2) alkenes (3) alkynes (4) haloalkanes (5) alcohols (6) carbonyl compounds (7) ethers (8) amines (broad regions characteristic of different groups are expected).

Problems of structure elucidation of simple organic compounds using individual or combined use of UV-Vis, IR, Mass and NMR spectroscopic technique are expected. (Index of hydrogen deficiency should be the first step in solving the problems).

References:

Refer spectroscopy –I, (Sem-V, Unit-IV)

Nucleic Acids

Controlled hydrolysis of nucleic acids. sugars and bases in nucleic acids. Structures of nucleosides and nucleotides in DNA and RNA. Structures of nucleic acids (DNA and RNA) including base pairing.

References:

Organic chemistry R.T.Morrison and R.N.Boyd, 6th edition, pearson education

S.H.Pine, organic chemistry 4th edition. McGraw Hill

Unit IV

Polymer

Introduction: terms monomer, polymer, homopolymer, copolymer, thermo plastics and thermosets.

Addition polymers: polyethylene, polypropylene, teflon, polystyrene, PVC, Uses.

- Condensation polymers: polyesters, polyamides, polyurethanes, polycarbonates, phenol formaldehyde resins.Uses
- Stereochemistry of polymers: Tacticity, mechanism of stereochemical control of polymerizationusing Ziegler Natta catalysts.
- Natural and synthetic rubbers: Polymerisation of isoprene: 1,2 and 1,4 addition(cis and trans), Styrene butadiene copolymer.
- Additives to polymers: Plasticisers, stabilizers and fillers.
- Biodegradable polymers: Classification and uses. polylactic acid structure, properties and use for packaging and medical purposes.

(Note : Identification of monomer in a given polymer & structure of polymer for a given monomer is expected. condition for polymerization is not expected)

References:

Polymer chemistry by M.G.Arora, K.Singh.

Polymer science – a text book by Ahluwalia and Mishra

Introduction to polymer chemistry - R.Seymour, Wiley Interscience.

Catalysts and Reagents

(7 L)

(5 L)

(8 L)

Study of the following catalysts and reagents with respect to functional group transformations and selectivity (no mechanism).

Catalysts: Catalysts for hydrogenation:

Raney Nickel
Pt and PtO₂ (C=C, CN, NO₂, aromatic ring) Pd/C : C=C, COCl→CHO (Rosenmund) Lindlar catalyst: alkynes Reagents: LiAlH₄ (reduction of CO, COOR, CN,NO₂) NaBH₄(reduction of CO) SeO₂(Oxidation of CH₂ alpha to CO) mCPBA (epoxidation of C=C) NBS (allylic and benzylic bromination)

References:

Organic chemistry by Francis Carey – McGrawHill . Oranic chemistry by Carey and Sundberg, Part A & B

PRACTICALS

SEMESTER VI

ORGANIC CHEMISTRY

COURSE CODE: USCHP10

CREDITS: 02

A) SEMESTER VI: Separation of Binary liquid-liquid and liquid- solid mixture.

Minimum Six mixtures to be completed by the students.

- Components of the liq-liq mixture should include volatile liquids like acetone, methylacetate, ethylacetate, isopropylalcohol, ethyl alcohol, EMK and non volatile liquids like chlorobenzene, bromobenzene, aniline, N,N dimethylaniline, acetophenone, nitrobenzene, ethyl benzoate.
- Components of the liq- solid mixture should include volatile liquids like acetone, methylacetate, ethylacetate, ethyl alcohol, IPA, EMK and solids such as water insoluble acids, phenols, bases, neutral.
- A sample of the mixture one ml to be given to the student for detection of the physical type of the mixture.
- After correct determination of physical type, separation of the binary mixture to be carried out by distillation method using microscale technique.
- After separation into component A and component B, the compound to be identified can be decided by examiner.

References:

Practical organic chemistry – A. I. Vogel Practical organic chemistry – H.Middleton. Practical organic chemistry – O.P.Aggarwal.

T.Y.B.Sc. CHEMISTRY (6 UNITS)

Choice Based Credit System

SEMESTER V

ANALYTICAL CHEMISTRY

COURSE CODE: USCH504 CREDITS: 02 LECTURES: 60

UNIT I :INTRODUCTION TO QUALITY CONCEPTS, CHEMICAL CALCULATIONS AND SAMPLING (3 & 6 UNITS)

1.1	Quality in Analytical Chemistry		05 L	
	1.1.1	Concepts of Quality Quality Control and Quality Assurance		
	1.1.2	Importance of Quality concepts in Industry		
	113	Chemical Standards and Certified Reference Materials: Importance	rtance	
	111.5	in chemical analysis		
		Quality of material: Various grades of laboratory reagents	reagents	
1.2	Chemica	al Calculations (Numericals and word problems are expected)	04 L	
		Inter conversion of various concentration write		
	1.0.1			
	1.2.1 (Conversion of concentration from one unit to another unit with			
		examples)		
	1.2.2	Percent composition of elements in chemical compounds		
1.3	Samplin	g	06 L	
	1.3.1	Purpose, significance and difficulties encountered in sampling		
	1.3.2	Sampling of solids: Sample size – bulk ratio, size to weight ratio,		
		multistage and sequential sampling, size reduction methods,		
		sampling of compact solids, equipments and methods of sampling		
		of compact solids, sampling of particulate solids, methods and		
		equipments used for sampling of particulate solids.		
	1.3.3	Sampling of liquids: Homogeneous and heterogeneous, Static and		
		flowing liquids.		
	1.3.4	Sampling of gases: Ambient and stack sampling: Apparatus and		

		methods for sampling of gases.	
	1.3.5	Collection, preservation and dissolution of the sample.	
UNI	T II : CL	ASSICAL METHODS OF ANALYSIS (TITRIMETRY) (3 & 6 U	NITS)
2.1	Redox T	itrations (Numerical and word Problems are expected)	08 L
	2.1.1	Introduction	_
		Construction of the titration curves and calculation of E_{system} in	
	2.1.2 aqueous medium in case of:		
	One electron system		
		Multielectron system	
	2.1.3	Theory of redox indicators, Criteria for selection of an indicator	
		Use of diphenyl amine and ferroin as redox indicators	
2.2	Complex	xometric Titrations	07 L
	2.2.1	Introduction, construction of titration curve	
	2.2.2	Use of EDTA as titrant and its standardisation, absolute and	
		conditional formation constants of metal EDIA complexes,	
		Factors enhancing selectivity with examples.	
		Advantages and limitations of EDTA as a titrant.	
	2.2.3	Types of EDTA titrations.	
	2.2.4	Metallochromic indicators, theory, examples and applications	
			L
UNI	T III: OI	PTICAL METHODS(6 UNITS)	
3.1	Atomic	Spectroscopy: Flame Emission spectroscopy(FES) and	07 L
	Atomic .	Absorption Spectroscopy(AAS)	
	3.1.1	Introduction, Energy level diagrams, Atomic spectra, Absorption	
		and Emission Spectra	
	3.1.2	Flame Photometry – Principle, Instrumentation (Flame atomizers,	
		types of Burners, Wavelength selectors, Detectors)	
	3.1.3	Atomic Absorption Spectroscopy – Principle, Instrumentation	1
		(Source, Chopper, Flame and Electrothermal Atomiser)	
	3.1.4	Quantification methods of FES and AAS – Calibration curve	1
		method, Standard addition method and Internal standard method.	

	3.1.5	Comparison between FES and AAS			
	3.1.6	Applications, Advantages and Limitations			
3.2	Molecul	ar Fluorescence and Phosphorescence Spectroscopy	04L		
	3.2.1	Introduction and Principle			
	3.2.2	Relationship of Fluorescence intensity with concentration			
	3.2.3	Factors affecting Fluorescence and Phosphorescence			
	3.2.4	Instrumentation and applications			
	3.2.5	Comparison of Fluorimetry and Phosphorimetry			
	3.2.6	Comparison with Absorption methods			
3.3	Turbidi	metry and Nephelometry	04 L		
	3.3.1	Introduction and Principle			
	3.3.2	Factors affecting scattering of Radiation: Concentration, particle size, wavelength, refractive index			
	3.3.3	Instrumentation and Applications			
UNI	T IV: ME	CTHODS OF SEPARATION – I (6 UNITS)			
4.1	Solvent	Extraction	06 L		
	4.1.1	Factors affecting extraction: Chelation, Ion pair formation and			
	Solvation				
	4.1.2Graph of percent extraction versus pH.				
	Concept of $[pH]_{1/2}$ and its significance (derivation not expected)				
	4.1.3	4.1.3 Craig's counter current extraction: Principle, apparatus and applications			
	4.1.4	Solid phase extraction: Principle, process and applications with			
	4.1.5	special reference to water and industrial effluent analysis.			
	4.1.5	Comparison of solid phase extraction and solvent extraction.			
4.2	High P	erformance Liquid chromatography (HPLC)	06L		
	4.2.1	Introduction and Principle			
		Instrumentation- components with their significance: Solvent Reservoir, Degassing system, Pumps-(reciprocating pumps,			
		screw driven- syringe type pumps, pneumatic pumps,			
		advantages and disadvantages of each pump), Precolumn, Sample injection system HPLC Columns Detectors(UV –			
		Visible detector, Refractive index detector)			
	4.2.2	Qualitative and Quantitative Applications of HPLC			

4.3	High P	erformance Thin Layer Chromatography (HPTLC)	03 L
	4.3.1	Introduction and Principle	_
		Stationary phase, Sample application and mobile phase	
	4.3.2	Detectors	
		Scanning densitometer- Components.	
		Types of densitometer- Single beam and Double beam	
		Fluorometric Detector	
	4.3.3	Advantages, disadvantages and applications	
	4.3.4	Comparison of TLC and HPTLC	

REFERENCES

1.	3000 solved problems in Chemistry, David E. Goldberg,PhD.,Schaums Outline	Unit/s: (1.2)
2.	A guide to Quality in Analytical Chemistry: An aid to accreditation, CITAC and EURACHEM, (2002),	Unit/s (1.1)
3.	A premier sampling solids, liquids and gases, Smith Patricia I, American statistical association and the society for industrial and applied mathematics, (2001)	Unit/s (1.3)
4.	Analytical Chemistry, Gary.D Christan, 5th edition	Unit/s (4.1,4.2,4.3)
5.	Analytical Chemistry Skoog, West ,Holler,7th Edition:	Unit/s (2.1)
6.	Analytical Chromatography, Gurdeep R Chatwal, Himalaya publication	Unit/s (4.1,4.2,4.3)
7.	Basic Concepts of Analytical Chemistry, by S M Khopkar, new Age International (p) Limited	Unit/s (4.1,4.2,4.3)
8.	Chemical methods of separation, J A Dean, Van Nostrand Reinhold, 1969	Unit/s (4.1,4.2,4.3)
9.	Fundamentals of Analytical Chemistry by Skoog and West, 8th Edition	Unit/s (4.1,4.2,4.3)
10.	Handbook of quality assurance for the analytical chemistry laboratory, 2ndEdn., James P. DuxVanNostr and Reinhold, 1990	Unit/s (1.1)
11.	High Performance Thin Layer Chromatography by Dr P.D. Sethi, CBS Publisher and Distribution	Unit/s(4.1,4.2,4.3)

12.	High Performance Thin Layer Chromatography in Food analysis, by Prem kumar, CBS Publisher and distributer	Unit/s (4.1,4.2,4.3)
13.	Instrumental methods of Analysis, by Dr Supriya S Mahajan, Popular Prakashan Ltd	Unit/s (4.1,4.2,4.3)
14.	Instrumental methods Of Analysis, by Willard Merritt Dean, 7thEdition, CBS Publisher and distribution Pvt Ltd	Unit/s (3.1,3.2,3.3)
15.	Instrumental Methods of Chemical Analysis by B.K. Sharma Goel Publishing House	Unit/s (4.1,4.2,4.3)
16.	Principles of Instrumental Analysis , 5th Edition, By Skoog, Holler, Nieman	Unit/s (4.1,4.2,4.3)(3.1,3.2,3.3)
17.	Quality control and Quality assurance in Analytical Chemical Laboratory, Piotr Konieczka and Jacek Namiesnik, CRC press (2018)	Unit/s (1.1)
18.	Quality in the Analytical Chemistry Laboratory, Elizabeth Prichard, Neil T. Crosby, Florence Elizabeth Prichard, John Wiley and Sons, 1995	Unit/s (1.1)
19.	Solvent extraction and ion exchange, J Marcus and A. S. Kertes Wiley INC 1969	Unit/s (4.1,4.2,4.3)
20	Thin Layer Chromatography, A LAB. Handbook, Egon Stahl, Springer International Student Edition	Unit/s (4.1,4.2,4.3)

PRACTICALS

SEMESTER V

ANALYTICAL CHEMISTRY

COURSE CODE: USCHP13

CREDITS: 02

- 1. Spectrophotometric estimation of fluoride
- Estimation of magnesium content in Talcum powder by complexometry, using standardized solution of EDTA

Determination of COD of water sample.

- To determine potassium content of a Fertilizer by Flame Photometry (Calibration curve method).
- To determine the amount of persulphate in the given sample solution by back titration with standard Fe (II) ammonium sulphate solution.
- To determine the amount of sulphate in given water sample turbidimetrically.

Note: Calculation of percent error is expected for all the

experiments.

REFERENCES

1.	Vogel's Textbook of Quantitative Chemical Analysis, 5thEdn., G. H. Jeffery, J Bassett, J Memdham and R C Denney, ELBS with Longmann (1989).				
2.	Vogel's Te	Vogel's Textbook of Quantitative Chemical analysis, Sixth edition, J.Mendham et.al			
		SEMESTER VI ANALYTICAL CHEMISTRY			
COI	URSE CO	DE: USCH604 CREDITS: 02 LECTURES:	60		
UNI	T I: ELE	CTRO ANALYTICAL TECHNIQUES(3 & 6 UNITS)			
1.1	Polarog	raphy (Numerical and word problems are expected)	11L		
	1.1.1	Difference between potentiometry and voltammetry, Polarizable and non-polarizable electrodes			
	1.1.2 Basic principle of polarography H shaped polarographic cell, DME (construction, working, advantages and limitations)				
	1.1.3	DC polarogram: Terms involved - Residual current, Diffusion current, Limiting current, Half-Wave Potential Role and selection of supporting electrolyte, Interference of oxygen and its removal, polarographic Maxima and Maxima Suppressors Qualitative aspects of Polarography: Half wave potential $E_{1/2}$, Factors affecting $E_{1/2}$ Quantitative aspects of polarography: Ilkovic equations: various terms involved in it (No derivation)			
	1.1.4	Quantification Wave height – Concentration plots (working plots/calibration) Internal standard (pilot ion) method Standard addition method			
	1.1.5	Applications advantages and limitations			
1.2	Ampero	metric Titrations	04L		
	1.2.1	Principle, Rotating Platinum Electrode(Construction, advantages and limitations)			
	1.2.2	Titration curves with example			
	1.2.3	Advantages and limitations			

UNIT II: METHODS OF SEPARATION - II (3 & 6 UNITS)				
2.1	Gas Chromatography (Numerical and word problems are expected)			
	2.1.1	Introduction, Principle, Theory and terms involved		
	2.1.2	Instrumentation: Block diagram and components,types of columns,		
		stationary phases in GSC and GLC, Detectors: TCD, FID, ECD		
	2.1.3	Qualitative, Quantitative analysis and applications	1	
	2.1.4	Comparison between GSC and GLC	<u> </u>	
2.2	Ion Excl	Exchange Chromatography		
	2.2.1	Introduction, Principle.		
	2.2.2	Types of Ion Exchangers, Ideal properties of resin		
		Ion Exchange equilibria and mechanism, selectivity coefficient and		
	2.2.3	separation factor		
		Factors affecting separation of ions		
	224	Ion exchange capacity and its determination for cation and anion		
	2.2.4	exchangers.		
	225	Applications of Ion Exchange Chromatography with reference to		
	2.2.5	Preparation of demineralised water, Separation of amino acids		
UN	IT III:FC	OOD AND COSMETICS ANALYSIS(6 UNITS)		
3.1	Introdu	action to food chemistry	10 L	
	3.1.1	Food processing and preservation:		
		Introduction, need, chemical methods, action of chemicals(sulphur		
		dioxide, boric acid, sodium benzoate, acetic acid, sodium chloride		
		and sugar) and pH control		
		Physical methods (Pasteurization and Irradiation)		
	3.1.2	Determination of boric acid by titrimetry and sodium benzoate by		
		HPLC.		
	3.1.3 Study and analysis of food products and detection of adulterants			
		1) Milk:		
		Composition & nutrients, types of milk (fat free, organic and lactose		
		milk) Analysis of milk for lactose by Lane Expon's Method		
		Analysis of milk for factose by Lane Lynon's Method		

		Honey:		
		Composition Analysis of reducing sugars in honey by Coles Ferricyanide method		
		Tea:		
		Composition, types (green tea and mixed tea) Analysis of Tannin by Lowenthal's method		
		Coffee:		
		Constituents and composition, Role of Chicory Analysis of caffeine by Bailey Andrew method		
3.2	Cosmeti	cs	05 L	
	3.2.1	Introduction and sensory properties		
	3.2.2	Study of cosmetic products –		
	Face powder:			
	Composition			
		Estimation of calcium and magnesium by complexometric titration		
		Lipstick:		
		Constituents Ash analysis for water soluble salts: borates, carbonates and zinc oxide		
		Deodorants and Antiperspirants:		
		Constituents, properties Estimation of zinc by gravimetry		
UNI	T IV:TH	ERMAL METHODS AND ANALYTICAL METHOD VALIDATI	ON	
(6 U	NITS)			
4.1	Therma	Methods	12 L	
	4.1.1	Introduction to various thermal methods		
		(TGA, DTA and Thermometric titration)		

	4.1.2	Thermogravimetric Analysis(TGA)	
		Instrumentation-block diagram, thermobalance (Basic components: balance, furnace, temperature measurement and control, recorder)	
	Thermogram (TG curve)forCaC ₂ O ₄ H ₂ O and CuSO ₄ .5H ₂ O Factors affecting thermogram-Instrumental factors and Sample characteristics		
		Applications:	
	Determination of drying and ignition temperature range		
	Determination of percent composition of binary mixtures (Estimation of Calcium and Magnesium oxalate)		
	4.1.3	Differential Thermal Analysis (DTA):	
		Principle, Instrumentation, and Reference material used	
	Differential thermogram (DTA curve) CaC ₂ O ₄ .H ₂ O and		
	CuSO ₄ .5H ₂ O		
	Applications		
	Comparison between TGA and DTA.		
	4.1.4	Thermometric Titrations – Principle and Instrumentation	
		Thermometric titrations of :	
		HCl v/s NaOH	
		Boric acid v/s NaOH	
		Mixture of Ca ⁺² and Mg ⁺² v/s EDTA	
		Zn ⁺² with Disodium Tartarate.	
4.2	Analytic	al Method Validation	03L
	4.2.1	Introduction and need for validation of a method	
	4.2.2	Validation Parameters: Specificity, Selectivity, Precision, Linearity,	
		Accuracy and Robustness	

Note: Concept of sensitivity is to be discussed for all techniques and instruments mentioned in the syllabus.

REFERENCES

1.	An Advance Dairy chemistry, V 3, P. F. Fox, P. L. H. McSweeney Springer	Unit/s (3.1,3.2)
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2.	Analysis of food and Beverages, George Charalanbous, Academic press 1978	Unit/s (3.1,3.2)
3.	Analytical Chemistry of Open Learning(ACOL),James W. Dodd & Kenneth H. Tonge	Unit/s (4.1,4.2)
4.	Analytical chemistry David Harvey The ,McGraw Hill Companies, Inc.	Unit/s (4.1,4.2)
5.	Analytical Chemistry, Gary.D Christan, 5th edition	Unit/s (2.1,2.2)
6.	Analytical chemistry, R. K. Dave.	Unit/s (2.1,2.2)
7.	Chemical methods of separation, J A Dean, Van Nostrand Reinhold, 1969	Unit/s (2.1,2.2)
8.	Egyankosh.ac.in/bitstream/123456789/43329/1/Unit-8	Unit/s (1.1,1.2,1.3)
9.	Food Analysis, Edited by S. Suzanne Nielsen, Springer	Unit/s (3.1,3.2)
10.	Food Analysis: Theory and practice, YeshajahuPomeranz, Clifton E. Meloan, Springer	Unit/s (3.1,3.2)
11.	Formulation and Function of cosmetics, Sa Jellineck	Unit/s (3.1,3.2)
12.	Fundamentals of Analytical Chemistry, D .A. Skoog and D. M. West and F. J. Holler Holt., Saunders 6th Edition (1992)	Unit/s (2.1,2.2)
13.	Government of India publications of food drug cosmetic act and rules.	Unit/s (3.1,3.2)
14.	Harry's Cosmetology, Longman scientific co.	Unit/s (3.1,3.2)
15.	High Performance Thin Layer Chromatography in Food analysis, by Prem kumar, CBS Publisher and distributer	Unit/s (3.1,3.2)
16.	Instrumental methods Of Analysis, by Willard Merritt Dean, 7thEdition, CBS Publisher and distribution Pvt Ltd	Unit/s (1.1,1.2,1.3) (4.1,4.2,4.3)
17.	Introduction to Polarography and Allied Techniques, By Kamala Zutshi, New Age International, 2006.	Unit/s (1.1,1.2,1.3)
18.	Modern cosmetics, E. Thomessen Wiley Inter science	Unit/s (3.1,3.2)

19.	Principles of Instrumental Analysis , 5th Edition, By Skoog, Holler, Nieman	Unit/s (4.1,4.2,4.3)
20.	Principles of Polarography by Jaroslav Heyrovský, Jaroslav Kůta, 1st Edition, Academic Press, eBook ISBN: 978148326478	Unit/s (1.1,1.2,1.3)
21.	Solvent extraction and ion exchange, J Marcus and A. S. Kertes Wiley INC 1969	Unit/s (2.1,2.2,)

PRACTICALS SEMESTER VI ANALYTICAL CHEMISTRY

COURSE CODE: USCHP14

CREDITS: 02

Estimation of Chromium in water sample spectrophotometrically by using Diphenyl carbazide.

Estimation of reducing sugar in honey by Willstatter method.

Estimation o Mg^{+2} & Zn^{+2} by anion exchange resin.

using an anion exchange resin

Estimation of acetic acid in Vinegar sample by using Quinhydrone electrode potentiometrically.

Determination of phosphoric acid in cola sample pH metrically.

Note: Calculation of percent error is expected for all the

experiments.

References:

1	Vogel's Textbook of Quantitative Chemical Analysis, 5thEdn., G. H. Jeffery, J Bassett, J
1.	Memdham and R C Denney, ELBS with Longmann (1989).

2.	Vogel's Textbook of Quantitative Chemical analysis, Sixth edition, J.Mendham et.al
3.	The chemical analysis of food and food products III edition Morris Jacob
4.	The chemical analysis of food by David Pearson and Henry Edward

T Y B Sc Chemistry Choice Based Credit System

SEMESTER V

Applied Component

(Drugs and Dyes)

COURSE CODE: USACDD501

CREDITS: 02

LECTURES: 60

Unit			Topics	
Ι	1.1		General Introduction to Drugs	(8L)
		1.1.1	Definition of a drug, sources of drugs, requirements of an ideal drug,	
			classification of drugs (based on therapeutic action),	
		1.1.2	Nomenclature of drugs: Generic name, Brand name, Systematic name	
		1.1.3	Definition of the following medicinal terms: Pharmacon,	
			Pharmacology, Pharmacophore, Prodrug, Half – life efficiency, LD ₅₀ ,	
			ED ₅₀ ,GI ₅₀ Therapeutic Index.	
		1.1.4	Brief idea of the following terms: Receptors, Agonists, Antagonists,	
			Drug-receptor interaction, Drug Potency, Bioavailability, Drug	
			toxicity, Drug addiction, Spurious Drugs, Misbranded Drugs,	
			Adulterated Drugs, Pharmacopoeia.	
	1.2		Routes of Drug Administration and Dosage Forms	(3L)
		1.2.1	Oral and Parenteral routes with advantages and disadvantages.	
		1.2.2	Formulations & combination formulation, Different dosage forms	
			(including Patches & Adhesives, emphasis on sustained release	
			formulations and enteric coated tablets).	
	1.3		Pharmacodynamic agents: A brief introduction of the following	
			pharmacodynamic agents and the study with respect to their chemical	
			structure, chemical class, therapeutic uses, and side effects.	
		1.3.1	CNS Drugs:	(4L)
			Classification based on pharmacological actions: CNS Depressants &	
			CNS Stimulants. Concept of sedation and hypnosis, anaesthesia.	
			Phenytoin (Hydantoin)	
			Trimethadione (Oxazolidinediones) (Synthesis from acetone)	
			Alprazolam (Benzodiazepines)	
			Levetiracetam (Pyrrolidines)	
			Amphetamine (Phenethylamine) (Asymmetric synthesis from	
			phenyl acetic acid)	
			Chlorpromazine (Phenothiazines)	

UNIT-II (Drugs)

	2	2.1		Analgesics, Antipyretics and Anti-inflammatory Drugs.	(4L)
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	2.1.1	Analgesics and Antipyretics	
		Morphine (Phenanthrene alkaloids)	
		Tramadol (Cyclohexanols) (Synthesis from salicylic acid)	
		Aspirin (Salicylates)	
		Paracetamol (p-Amino phenols)	

	2.1.2	Anti-inflammatory Drugs Mechanism of inflammation and various inflammatory conditions. Steroids: Prednisolone, Betamethasone Sodium Diclofenac, Aceclofenac (N- Aryl anthranilicacids) (Synthesis from 2,6-dichlorodiphenyl amine)	
2.2		Antihistaminic Drugs	(2L)
		Cetrizene (Piperazine) (Synthesis from 4- Chlorobenzhydryl chloride) Chlorpheniramine maleate (Ethyl amines)	
		Pantoprazole (Benzimidazoles)	
2.3		Classification based on pharmacological action Isosorbide dinitrate (Nitrates) Valsartan (Amino acids) (structure not expected) Atenolol (Aryloxy propanol amines) (Synthesis from 3-Hydroxy phenyl acetamide) Amlodipine (Pyridines) Frusemide /Furosemide (Sulfamoyl benzoic acid)	
		Rosuvastatin (Pyrimidine)	
24		Antidiabetic Agents	$(2\mathbf{I})$
		General idea and types of diabetes; Insulin therapy Glibenclamide (Sulphonyl ureas) Metformin (Biguanides) Dapagliflozin (Pyranose) Pioglitazone (Thiazolidinediones) (Synthesis from 2-(5- ethylpyridin-2-yl) ethanol)	
2.5		Antiparkinsonism Drugs	(2L)
		Idea of Parkinson's disease. Procyclidine hydrochloride (Pyrrolidines) Ethopropazine hydrochloride (Phenothiiazines) Levodopa (Amino acids) (Synthesis from Vanillin)	
2.6		Drugs for Respiratory System General idea of: Expectorants; Mucolytes; Bronchodilators; Decongestants; Antitussives Ambroxol (Cyclohexanol) (Synthesis from paracetamol) Salbutamol (Phenyl ethyl amines) Oxymetazoline (Imidazolines)	(2L)

			Codeine Phosphate (Opiates)	
DA	р			

Reference Books: (For units I & II)

Foye's principles of medicinal chemistry. 6th Edition, Edited by Davis William & ThomasLemke, Indian edition by B I Publication Pvt Ltd, Lippmcolt Williams & Wilkins.

Text book of organic medicinal & pharmaceutical chemistry. Wilson & Gisovolds, 11th Editionby John H Block, John M Beale Jr.

Medicinal chemistry. Ashutosh Kar, New Age International Pvt. Ltd Publisher. 4th edition.

Burger's Medicinal Chemistry, Drug Discovery and Development. Abraham and Rotella.Wiley

Medicinal chemistry. Ashutosh Kar, New Age International Pvt. Ltd Publisher. 4th edition.

Medicinal chemistry. V.K. Ahluwalia and Madhu Chopra, CRC Press.

Principle of medicinal chemistry. Vol 1 & 2 S. S. Kadam, K. R. Mahadik, K. G. Bothara

- The Art of Drug synthesis. Johnson and Li. Wiley, 2007.
- The organic chemistry of drug design & drug action. 2nd ed. By Richard B Silvermann, Academic Press.

The Organic Chemistry of Drug Synthesis. Lednicer and Mitsher, Wliey.

<u>Unit III (Dyes)</u>

3	3.1		Introduction to the dye-stuff Industry	(5L)
		3.1.1	Dyes	
			Definition of dyes, requirements of a good dye i.e. Colour, Chromophore and Auxochrome, Solubility, Linearity, Coplanarity, Fastness, Substantivity, Economic viability.	
			Definition of fastness and its properties and Mordants with examples	
			Explanation of nomenclature or abbreviations of commercial dyes with at least one example suffixes – G, O, R, B, K, L, C, S H, 6B, GK, 6GK,	
			Naming of dyes by colour index (two examples) used in dye industries.	
		312	Natural and Synthetic Dyes	
		5.1.2	Natural Dyes: Definition and limitations of natural dyes. Examples and uses of natural dyes w.r.t Heena, Turmeric, Saffron, Indigo, Madder, Chlorophyll – names of the chief dyeing material/s in each natural dye [structures not expected],	
			Synthetic dyes: Definition of synthetic dyes, primaries and intermediates. Important milestones in the development of synthetic dyes – Emphasis on Name of the Scientist, dyes and the year of the discovery is required. (structure is not expected)	
	37		Substrates for Dues - Tunes of fibres	(3I)
	3.2	3.2.1	Substrates for Dyes : Types of fibres Natural: cellulosic and proteinaceous fibres, examples – wool, silk and	(3L)
	3.2	3.2.1	Substrates for Dyes : Types of fibres Natural: cellulosic and proteinaceous fibres, examples – wool, silk and cotton structures and names of dyes applied on each of them.	(3L)
	3.2	3.2.1	Substrates for Dyes : Types of fibres Natural: cellulosic and proteinaceous fibres, examples – wool, silk and cotton structures and names of dyes applied on each of them. Semi – synthetic: definition and examples [structures not expected]	(3L)
	3.2	3.2.1 3.2.2 3.2.3	Substrates for Dyes : Types of fibres Natural: cellulosic and proteinaceous fibres, examples – wool, silk and cotton structures and names of dyes applied on each of them. Semi – synthetic: definition and examples [structures not expected] Synthetic: Nylon, Polyesters and Polyamides structures and names of dyes applied on each of them	(3L)
	3.2	3.2.1 3.2.2 3.2.3 3.2.4	Substrates for Dyes : Types of fibres Natural: cellulosic and proteinaceous fibres, examples – wool, silk and cotton structures and names of dyes applied on each of them. Semi – synthetic: definition and examples [structures not expected] Synthetic: Nylon, Polyesters and Polyamides structures and names of dyes applied on each of them Blended fabrics: definition and examples [structures not expected]	(3L)
	3.2	3.2.1 3.2.2 3.2.3 3.2.4	Substrates for Dyes : Types of fibres Natural: cellulosic and proteinaceous fibres, examples – wool, silk and cotton structures and names of dyes applied on each of them. Semi – synthetic: definition and examples [structures not expected] Synthetic: Nylon, Polyesters and Polyamides structures and names of dyes applied on each of them Blended fabrics: definition and examples [structures not expected]	(3L)
	3.2	3.2.1 3.2.2 3.2.3 3.2.4 3.2.5	Substrates for Dyes : Types of fibres Natural: cellulosic and proteinaceous fibres, examples – wool, silk and cotton structures and names of dyes applied on each of them. Semi – synthetic: definition and examples [structures not expected] Synthetic: Nylon, Polyesters and Polyamides structures and names of dyes applied on each of them Blended fabrics: definition and examples [structures not expected] Binding forces of dyes on substrate: ionic forces, covalent linkages, hydrogen bonding, vander-walls forces	(3L)
	3.2	3.2.1 3.2.2 3.2.3 3.2.4 3.2.5	Substrates for Dyes : Types of fibres Natural: cellulosic and proteinaceous fibres, examples – wool, silk and cotton structures and names of dyes applied on each of them. Semi – synthetic: definition and examples [structures not expected] Synthetic: Nylon, Polyesters and Polyamides structures and names of dyes applied on each of them Blended fabrics: definition and examples [structures not expected] Binding forces of dyes on substrate: ionic forces, covalent linkages, hydrogen bonding, vander-walls forces	(3L)
	3.2	3.2.1 3.2.2 3.2.3 3.2.4 3.2.5	Substrates for Dyes : Types of fibres Natural: cellulosic and proteinaceous fibres, examples – wool, silk and cotton structures and names of dyes applied on each of them. Semi – synthetic: definition and examples [structures not expected] Synthetic: Nylon, Polyesters and Polyamides structures and names of dyes applied on each of them Blended fabrics: definition and examples [structures not expected] Binding forces of dyes on substrate: ionic forces, covalent linkages, hydrogen bonding, vander-walls forces	(3L)
	3.2	3.2.1 3.2.2 3.2.3 3.2.4 3.2.5 3.3.1	Substrates for Dyes : Types of fibres Natural: cellulosic and proteinaceous fibres, examples – wool, silk and cotton structures and names of dyes applied on each of them. Semi – synthetic: definition and examples [structures not expected] Synthetic: Nylon, Polyesters and Polyamides structures and names of dyes applied on each of them Blended fabrics: definition and examples [structures not expected] Binding forces of dyes on substrate: ionic forces, covalent linkages, hydrogen bonding, vander-walls forces Classification of dyes based on applications and dyeing methods Dyeing methods Basic Operations involved in dveing process:	(3L)
	3.2	3.2.1 3.2.2 3.2.3 3.2.4 3.2.5 3.3.1	Substrates for Dyes : Types of fibres Natural: cellulosic and proteinaceous fibres, examples – wool, silk and cotton structures and names of dyes applied on each of them. Semi – synthetic: definition and examples [structures not expected] Synthetic: Nylon, Polyesters and Polyamides structures and names of dyes applied on each of them Blended fabrics: definition and examples [structures not expected] Binding forces of dyes on substrate: ionic forces, covalent linkages, hydrogen bonding, vander-walls forces Classification of dyes based on applications and dyeing methods Dyeing methods Basic Operations involved in dyeing process: i. Preparation of fibres ii. Preparation of dyebath iii. Application of dyes in the second secon	(3L)
	3.2	3.2.1 3.2.2 3.2.3 3.2.4 3.2.5 3.3.1	Substrates for Dyes : Types of fibres Natural: cellulosic and proteinaceous fibres, examples – wool, silk and cotton structures and names of dyes applied on each of them. Semi – synthetic: definition and examples [structures not expected] Synthetic: Nylon, Polyesters and Polyamides structures and names of dyes applied on each of them Blended fabrics: definition and examples [structures not expected] Classification of dyes on substrate: ionic forces, covalent linkages, hydrogen bonding, vander-walls forces Classification of dyes based on applications and dyeing methods Dyeing methods Basic Operations involved in dyeing process: i. Preparation of fibres ii. Preparation of dyes ii. Application of dyes iv. Finishing Dyeing Method of Cotton Fibres:	(3L)

3.3.2 Classification of dyes based on applicability on substrates (examples with structures) Acid Dyes- Orange II, Basic Dyes-methyl violet, Direct cotton Dyes- Benzofast Yellow 5GL Azoic Dyes – Diazo components; Fast yellow G, Fast orange R. Coupling components. Naphthol AS, Naphthol ASG Mordant Dyes-Eriochrome Black A, Alizarin. Vat Dyes- Indanthrene brown RRD, Sulphur Dyes- Sulphur Black T (no structure) Disperse Dyes-Celliton Fast brown 3R, Reactive Dyes- Cibacron Brilliant Red B, 3.3.3 Optical Brighteners: General idea, important characteristics of optical brighteners and their classes [Stilbene, Coumarin, Heterocyclic vinylene derivatives, Diaryl pyrazolines, Naphthylamide derivatives] general structure of each class.				
3.3.3 Optical Brighteners: General idea, important characteristics of optical brighteners and their classes [Stilbene, Coumarin, Heterocyclic vinylene derivatives, Diaryl pyrazolines, Naphthylamide derivatives] general structure of each class.		3.3.2	Classification of dyes based on applicability on substrates (examples with structures) Acid Dyes- Orange II, Basic Dyes-methyl violet, Direct cotton Dyes- Benzofast Yellow 5GL Azoic Dyes – Diazo components; Fast yellow G, Fast orange R. Coupling components. Naphthol AS, Naphthol ASG Mordant Dyes-Eriochrome Black A, Alizarin. Vat Dyes- Indanthrene brown RRD, Sulphur Dyes- Sulphur Black T (no structure) Disperse Dyes-Celliton Fast brown 3R, Reactive Dyes- Cibacron Brilliant Red B,	
		3.3.3	Optical Brighteners: General idea, important characteristics of optical brighteners and their classes [Stilbene, Coumarin, Heterocyclic vinylene derivatives, Diaryl pyrazolines, Naphthylamide derivatives] general structure of each class.	

<u>Unit – IV (Dyes)</u>

4	4.1		Colour and Chemical Constitution of Dyes	(4L)
		4.1.1	Absorption of visible light, Colour of wavelength absorbed, Complementary	
			colour.	
		4.1.2	Relation between colour and chemical constitution.	
			Armstrong theory (quinonoid theory) and its limitations.	
			Witt's Theory: Chromophore, Auxochrome, Bathochromic &	
			Hypsochromic Shift, Hypochromic & Hyperchromic effect	
			Valence Bond theory, comparative study and relation of colour in the	
			following classes of compounds/dyes: Benzene, Nitrobenzene,	
			Nitroanilines, Nitrophenols, Benzoquinones, Azo, Triphenyl	
			methane, Anthraquinones.	
			Molecular Orbital Theory.	
	4.2		Unit process and Dye Intermediates	
		4.2.1	A brief idea of Unit Processes	(3L)
			Introduction to primaries and intermediates	
			Unit processes: definition and brief ideas of below unit processes:	
			(a) Nitration (b) Sulphonation (c) Halogenation	
			Diazotization: (3 different methods & its importance)	
			Ammonolysis (f) Oxidation	
			NB: Definition, Reagents, Examples of each unit processes mentioned	
			above with reaction conditions (mechanism is not expected)	

	4.2.2	Preparation of the Following Intermediates	(8L)
		Benzene derivatives: Benzenesulphonic acid; 1,3-Benzenedisulphonic	
		acid; sulphanilic acid; o-, m-, p-chloronitrobenzenes;	
		o-, m-, p-nitroanilines; o-, m-, p-phenylene diamines; Naphthol ASG	
		Naphthalene Derivative: Schaeffer acid; Tobias acid; Naphthionic acid;	
		N.W. acid; cleve-6-acid; H-acid; Naphthol AS	
		Anthracene Derivative: 1-Nitroanthraquinone; 1-Aminoanthraquinone	
		Anthraquinone-2-sulphonic acid; Benzanthrone.	

References (For Units III & IV):

Chemistry of Synthetic Dyes, Vol I – VIII, Venkatraman K., Academic Press 1972

The Chemistry of Synthetic Dyes and Pigments, Lubs H.A., Robert E Krieger Publishing Company, NY ,1995

Chemistry of Dyes and Principles of Dyeing, Shenai V.A., Sevak Publications, 1973

I] Practicals

SEMESTER V

(Drugs and Dyes)

COURSE CODE: USACDD5P1

CREDITS: 02

Estimation of Ibuprofen (back titration method) Estimation of Acid neutralizing capacity of a drug Preparation of Aspirin from salicylic acid. Separation of components of natural pigments by paper chromatography (eg: chlorophyll)

II] Project: Preparation of Orange II dye (semi-microscale1.0gms) and its use for dyeing different fabrics

SEMESTER VI

(Drugs and Dyes)

COURSE CODE: USACDD601

CREDITS: 02

LECTURES: 60

UNIT – I (Drugs)

1	1.1		Drug Discovery, Design and Development	(6L)
		1.1.1	Discovery of a Lead compound: Screening, drug metabolism studies and clinical observation, Lipinski's rule of 5	
		1.1.2	Medicinal properties of compounds from Natural Sources: Anti- infective and anticancer properties of Turmeric (Curcumin)	
		1.1.3	Development of drug: The Pharmacophore identification, modification of structure or functional group, Structure activity relationship (Sulphonamides).	
		1.1.4	Structure modification to increase potency: Homologation, Chain branching and Extension of the structure.	
		1.1.5	Computer assisted drug design.	
	1.2		Drug Metabolism: Introduction, Absorption, Distribution, Bio- transformation, Excretion Different types of chemical transformation of drugs with specific examples.	(3L)
	1.3		Chemotherapeutic Agents: Study of the following chemotherapeutic agents with respect to their chemical structure, chemical class, therapeutic uses, side effects and introduction to MDR wherever applicable.	
		1.3.1	Antibiotics and antivirals: Definition, Amoxicillin (β- lactum antibiotics) Cefpodoxime (Cephalosporins) Doxycycline (Tetracyclines) Levofloxacin (Quinolones) (Synthesis from 2,3,4 – Trifluro -1- nitrobenzene) Aciclovir/Acyclovir (Purines)	(2L)
		5.3.2	Antimalarials: Types of malaria; Symptoms; Pathological detection during window period (Life cycle of the parasites not to be discussed)	(2L)
			Chloroquine (3-Amino quinolones) Artemether(Benzodioxepins) Following combination to be discussed:Atremether-Lumefantrine (no structure)	
		1.0.0		(8 T)
		1.3.3	Anthelmintics and AntiFungal agents Drugs effective in the treatment of Nematodes and Cestodes infestations.	(2L)

Diethyl carbamazine (Piperazines) Albendazole (Benzimidazoles) (Synthesis from 2- Nitroaniline) Clotrimazole (Imidazole)	
Fluconazole (Triazole) (Synthesis from 1- Bromo – 2,4- difluorobenzene)	

UNIT – II(Drugs) Chemotherapeutic Agents continued.

2	2.1	Antiamoebic Drugs	(1L)		
		Types of Amoebiasis	. ,		
		Metronidazole, Ornidazole, Tinidazole (Imidazole)			
		Synthesis of Metronidazole from glyoxal by Debus-			
		Radziszewski imidazole synthesis route			
		Following combination therapy to be discussed: Ciprofloxacin-			
		Tinidazole			
	2.2	Antitubercular and Antileprotic Drugs (3			
		Types of Tuberculosis; Symptoms and diagnosis of Tuberculosis.			
		Types of Leprosy.			
		General idea of Antibiotics used in their treatment.			
		PAS (Amino salicylates)			
		Isoniazide (Hydrazides)			
		Pyrazinamide (Pyrazines)			
		(+) Ethambutol (Aliphatic diamines)			
		(Synthesis from 1- Nitropropane)			
		Dapsone(Sulphonamides)			
		(Synthesis from 4- Chloronitrobenzene)			
		Clofazimine (Phenazines)			
		Bedaquiline (Quinoline)			
		Following combination therapy to be discussed:			
		Rifampin + Ethambutol + Pyrazinamide			
		Rifampin + Isoniazide + Pyrazinamide			
	2.3	Anti-Neoplastic Drugs	(2L)		
		Idea of malignancy; Causes of cancer			
		Brief idea of Immuno Stimulants & Immuno depressants			
		Lomoustine (Nitrosoureas)			
		Anastrozole(1riazoles) (Synthesis from 3,5-bis (bromo			
		methyl) toluene)			
		Cisplatin (Chloro Platinum) X^{*}_{i} X^{*}_{i} 11 4^{*}_{i} X^{*}_{i} 1^{*}_{i} X^{*}_{i} 1^{*}_{i} $1^{*}_{$			
		vincristine, vindesine) (vinca alkaloids) (structurenot			
	2.4		(11)		
	2.4	Anti-HIV Drugs	(IL)		
		Idea of HIV pathogenicity, Symptoms of AIDS			
	2.5	AZ1/Zidovudine, Lamivudine, DDI (Purines)	(21)		
	2.5	2.3.6 Triamino 6 hydroxynyrimidino from Guanidino	(2L)		
		2,3,0- mainino-o- inyuroxypyminiume irom Guaniume $p_{2,-}(5_{-})$ (5_Chloro_2_methovy honzamido) athyll			
		p-[2-(3-Chloro-2-methoxy Uch2alindo) ethyl]-			
		3-(n-Chloronhenyl)-3- hydroxynineridine from 3-			
		Chloroacetophenone			

	p-Acetyl amino benzenesulphonyl chloride from Aniline Epichlorohydrine from propene	
2.6	Nano particles in Medicinal Chemistry Introduction; Carbon nano particles (structures) and Carbon nano tubes: Functionalization for Pharmaceutical applications Targeted drug delivery In vaccine (Foot and mouth disease) Use in Bio-physical treatment. Gold nano particles in treatment of: Cancer; Parkinsonism; Alzheimer. Silver nano particles: Antimicrobial activity.	(4L)
2.7	Drugs and Environmental AspectsImpact of Pharma-industry on environment,Internationalregulationforhumanexperimentationwithreference to:"The Nuremberg Code" and "The HelsinkiDeclaration".	(2L)

Reference Books (For Units I & II):

Foye's principles of medicinal chemistry. 6th Edition, Edited by Davis William & ThomasLemke, Indian edition by B I Publication Pvt Ltd, Lippmcolt Williams & Wilkins.

Text book of organic medicinal & pharmaceutical chemistry. Wilson & Gisovolds, 11th Editionby John H Block, John M Beale Jr.

Medicinal chemistry. Ashutosh Kar, New Age International Pvt. Ltd Publisher. 4th edition.

Burger's Medicinal Chemistry, Drug Discovery & Development. Abraham & Rotella.Wiley

Medicinal chemistry. Ashutosh Kar, New Age International Pvt. Ltd Publisher. 4th edition.

Medicinal chemistry. V.K. Ahluwalia and Madhu Chopra, CRC Press.

Principle of medicinal chemistry. Vol 1 & 2 S. S. Kadam, K. R. Mahadik, K. G. Bothara The Art of Drug synthesis. Johnson and Li. Wiley, 2007.

The organic chemistry of drug design & drug action. 2nd ed. By Richard B Silvermann, Academic Press.

The Organic Chemistry of Drug Synthesis. Lednicer and Mitsher, Wliey.

Text book of drug design and discovery. Povl-Krog-Sgaard-Larsen, Tommy Liljefors and ULF Madsen, 3rd Edition Taylor & Francis.

Bio-applications of nanoparticles. Edited by Warren C.W. Chan, Springer Publication.

Nanoparticle and technology for drug delivery (Drugs and pharmaceutical sciences). Ram B.Gupta& Uday B.Kompella Pub. Informa Healthcare.

Nano forms of carbon and its applications. Edited by Maheshwar Sharon and Madhuri Sharon.MonadNanotechPvt. Ltd.

Environmental Chemistry. A. K. De

Text Book on Law and Medicine. Chokhani and Ghormade. 2nd Edition. Hind Law House,Pune. Essentials of Medical Pharmacology. K D Tripathi, Jaypee Brothers Medical publishers Pvt. 1td. Practical organic chemistry, Vogel.

SEMESTER VI

<u>Unit – III (Dyes)</u>

3	3.1		Classification of Dyes based on Chemical Constitution and	(12L)	
			Synthesis of Selected Dyes (Synthesis of the dyes marked with * is		
			expected)		
			i)Nitro Dye: Naphthol Yellow S		
			ii) Nitroso Dye: Gambine Y		
			iii)Azo dyes:		
			Monoazo dyes: Orange IV *(from sulphanilic acid) & Eriochrome		
			Black T* (from β - naphthol)		
			Bisazo dyes: Congo Red* (from nitrobenzene)		
			Trisazo Dye: Direct Deep Black EW* (from benzidine)		
			iv)Diphenylmethane dye: Auramine O* (from N,N-dimethyl aniline)		
			v)Triphenylmethane dye:		
			Diamine series: Malachite Green* (from benzaldehyde)		
			Triamine series: Acid Magenta		
			Phenol series: Rosolic acid		
			vi)Heterocyclic Dyes:		
			Thiazine dyes: Methylene Blue		
			Azine dyes: Safranin T* (from o-toluidine)		
			Xanthene Dyes: Eosin* (from phthalic anhydride)		
			Oxazine Dyes: Capri Blue		
			Acridine Dyes: Acriflavine		
			vii)Quinone Dyes:		
			Naphthaquinone: Naphthazarin		
			Anthraquinone Dyes: Indanthrene Blue* (from anthraquinone)		
			viii) Indigoid Dyes: Indigo* (from aniline + monochloroacetic acid)		
			ix) Phthalocyanine Dyes: Monastral Fast Blue B		
	3.2		Health and Environmental Hazards of Synthetic Dyes and their	(3L)	
			Remediation Processes		
		3.2.1	Impact of the textile and leather dye Industry on the environment		
			with special emphasis on water pollution		
		3.2.2	Health Hazards: Toxicity of dyes w.r.t food colours.		
		3.2.3	Effluent Treatment Strategies:		
			Brief introduction to effluent treatment plants (ETP)		
			Primary Remediation processes:(Physical Processes) Sedimentation,		
			Aeration, Sorption (activated charcoal, fly ashetc.)		
			Secondary Remediation processes: Biological Remediation -		
			Biosorption, bioremediation and biodegradation		
			Chemical Remediation: Oxidation Processes (chlorination), Coagulation-flocculation-Precipitation		

<u>Unit – IV (Dyes)</u>

4	4.1		Non-textile uses of dyes:	(8L)
		4.1.1	Biomedical uses of dyes	
			Dyes used in formulations (Tablets, capsules, syrups etc)	
			Indigo carmine, Sunset yellow, Tartrazine	
			Biological staining agents	
			Methylene blue, Crystal violet and Safranine T	
			DNA markers	
			Bromophenol blue, Orange G, Cresol red	
			Dyes as therapeutics	
			Mercurochrome, Acriflavine, Crystal Violet, Prontosil	
		412	Dyos used in food and cosmetics:	
		4.1.2	Properties of dyes used in food and cosmetics	
			Introduction to EDA and ESSAI	
			Commonly used food colours and their limits	
			Commonly used food colours and then mints	
		4.1.3	Paper and leather dyes	
			Structural features of paper and leather	
			Dyes applicable to paper and leather	
		4.1.4	Miscellaneous dyes	
			Hair dyes	
			Laser dyes	
			Indicators	
			Security inks	
			iv) Coloured smokes and camouflage colours	
	12			(21)
	4.2		rigments	(JL)
			between dyes and nigments	
			Definition of Lakes and Toners	
	4.3		Dyestuff Industry - Indian Perspective	(4L)
		4.3.1	Growth and development of the Indian Dyestuff Industry	
		4.3.2	Strengths, Weaknesses, Opportunities and Challenges of the	
			Dyestuff industry in India	
		4.3.3	Make in India - Future Prospects of the Dye Industry	

References (For Units III & IV)

Chemistry of Synthetic Dyes, Vol I – IV, Venkatraman K., Academic Press 1972

The Chemistry of Synthetic Dyes and Pigments, Lubs H.A., Robert E Krieger Publishing Company, NY ,1995

Chemistry of Dyes and Principles of Dyeing, Shenai V.A., Sevak Publications, 1973

Environmental Studies, Joseph Benny, Tata McGraw Hill Education, 2005

Fundamental Concepts of Environmental Chemistry, Sodhi. G. S.,

Alpha Science International, 2009

Planning Commission, Niti Aayog, FSSAI and FDA websites

Green Chemistry for Dyes Removal from Waste Water- Research Trends and Applications, Ed. Sharma S.K., Wiley, 2015

Environmental Pollution- Monitoring and Control, Khopkar S.M., New Age International (P) Ltd, New Delhi, 1982

Practicals

SEMESTER V

(Drugs and Dyes)

COURSE CODE: USACDD6P1

CREDITS: 02

O-Methylation of β-naphthol. Preparation of Paracetamol form p-aminophenol. Preparation of Fluorescein TLC of a mixture of dyes (safranine-T, Indigo carmine, methylene blue)

II] Preparation of monograph of any one drug from syllabus by I.P. method. OR Industrial visit Report.



UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	F.Y.B.Sc. (Physics)
2	Eligibility for Admission	
3	Passing Marks	
4	Ordinances / Regulations (if any)	
5	No. of Years / Semesters	06 Semesters
6	Level	UG
7	Pattern	Semester
8	Status	Revised
9	To be implemented from Academic Year	From Academic Year: 2022-2023

Date:

Signature:

Name Chairman of BOS of Physics Dr. Anuradha Majumdar Dean, Science and Technology

Syllabus for B.Sc. Physics (Theory & Practical) As per Choice Based and Credit System First Year B.Sc 2022-2023

The revised syllabus in Physics as per Choice Based and Credit System for the First Year B.Sc Course will be implemented from the academic year 2022-2023.

Preamble:

The systematic and planned curricula from these courses shall motivate and encourage learners to understand basic concepts of Physics.

Objectives:

To develop analytical abilities towards real world problems

To familiarize with current and recent scientific and technological developments

To enrich knowledge through problem-solving, hands-on activities, study visits, projects etc

Course Code	Title	Credits
	Semester I	
USPH101	Classical Physics	02
USPH102	Modern Physics	02
USPHPI	Practical I	02
		Total = 06
	Semester II	
USPH201	Optics I	02
USPH202	Electricity and Electronics	02
USPHPII	Practical II	02
		Total = 06

Scheme of Examination:

- Each theory paper of each semester will have 20% Internal Assessment (IA) and 80% External Assessment (EA). All external examinations will be held at the end of each semester and will be conducted by the University as per existing norms
- There will be no internal assessment for practical. A candidate will be allowed to appear for the semester end practical examination only if the candidate submits a certified journal at the time of practical examination of the semester or a certificate from the Head of the Department/Institute to the effect that the candidate has completed the practical course of that

semester of F.Y.B.Sc Physics as per the minimum requirement. The duration of the practical examination will be two hours per experiment. There will be two experiments (one from each group) through which the candidate will be examined in practical. The questions on slips for the same should be framed in such a way that candidate will be able to complete the task and should be evaluated for its skill and understanding of physics.

SEMESTER-I

Name of the Programme	Duration	Semester	Subject
B.Sc.in Physics	Six semesters	Ι	Physics
Course Code	Title	Credits	
USPH101	Classical Physics	2	

Learning Objectives:

Understand Newton's laws and applications in daily life.

Understand the concepts of friction

Understand Work and Energy Equivalence

Understand the concepts of Elasticity, Viscosity and Fluid dynamics

Understand behavior of real gases in relation to their thermo dynamical response.

Learning Outcomes:

On successful completion of this course students will be able to:

Apply Newton's laws for the calculations of the motion of simple systems.

Use Work and Energy equivalence and its applications through suitable numerical.

Use Elasticity, Viscosity and Fluid dynamics in daily life.

Understand Real gases and validity of the laws of thermodynamics.

Demonstrate quantitative problem solving skills in all the topics covered

Unit I

15 Lectures

Newton's Laws of Motion: Newton's first, second and third laws of motion, interpretation and applications, pseudo forces, inertial and non-inertial frames of reference Worked out examples (with friction present) HCV: 5.1 to 5.5

Friction: Advantages & disadvantages of friction in daily life, Friction as the component of Contact force, Kinetic Friction, Static friction, laws of friction, Understanding friction at Atomic level.

HCV: 6.1 to 6.5

Work and Energy: Kinetic Energy, Work and Work-energy theorem, Potential Energy, Conservative and Non Conservative Forces, Different forms of Energy: Mass Energy Equivalence Worked out Examples HCV: 8.1, 8.2, 8.5, 8.6, 8.11

Unit II

Elasticity: An introduction to Elasticity, Stress, Strain, Hooke's Law and Moduli of Elasticity and relation between them HCV: 14.2, 14.3, 14.4, 14.5

Viscosity: An introduction to Viscosity, Flow through a Narrow Tube: Poiseuille's Equation, Stokes' Law, Terminal velocity, Measuring Coefficient of Viscosity by Stokes' method, Critical velocity and Reynolds number. Worked out Examples HCV: 14.15, 14.16, 14.17, 14.18, 14.19, 14.20

Fluid Mechanics: Streamline and Turbulent flow, Equation of Continuity, Bernoulli's equation, Applications of Bernoulli's equation. Worked out Examples HCV: 13.8, 13.10, 13.11, 13.12

Unit III

15 lectures

Behavior of real gases: An introduction, Van der Waals equation of state BSH: 2.8

Laws of Thermodynamics: Thermodynamic Systems, Zeroth law of thermodynamics, Concept of heat, Thermodynamic Equilibrium, Work: A Path dependent function, Internal energy, First law of Thermodynamics, Internal Energy as a state function, Specific heat of gases, Applications of First Law of thermodynamics, The indicator diagram, Work done during Isothermal and Adiabatic processes

BSH: 4.1 to 4.13

Heat engine: Definition of Efficiency of heat engine, Carnot's Ideal heat engine, and Numerical examples BSH: 4.21, 4.22, 4.23

Note: A good number of numerical examples are expected to be covered during the prescribed lectures.

15 Lectures

Main References:

- HCV: H. C. Verma, Concepts of Physics Part I, (Second Reprint of 2020) Bharati Bhavan Publishers and Distributers
- BSH: BrijLal, Subrahmanyam and Hemne, Heat Thermodynamics and Statistical Physics, S. Chand, Revised, Multi-coloured, (Reprint 2019)

Additional References:

- Halliday, Resnick and Walker, Fundamental of Physics (extended) (6th Ed.), John Wiley & Sons.
- D.S Mathur, P.S Hemne, Mechanics, 2012, S. Chand
- M. W Zemansky and R. H Dittman, Heat and Thermodynamics, McGraw Hill.
- Thornton and Marion, Classical Dynamics (5th Ed.)
- D. S Mathur, Element of Properties of Matter, S. Chand & Co.
- R. Murugeshan and K. Shivprasath, Properties of Matter and Acoustics, S. Chand.
- D. K Chakrabarti, Theory and Experiments on Thermal Physics,(2006 Ed.), Central books.

Hans and Puri, Mechanics, (2nd Ed.) Tata McGraw Hill

SEMESTER-I

Name of the Programme	Duration	Semester	Subject
B.Sc.in Physics	Six semesters	Ι	Physics
Course Code	Title	Credits	
USPH102	Modern Physics	2	

Learning Objectives:

1. To grasp and understand the basic concepts of Modern Physics

Learning Outcomes:

On successful completion of this course students will be able to:

- Understand nuclear properties, nuclear behavior and various types of nuclear reactions
- Understand the concept of radioactivity, its applications and different types of equilibriain radioactive elements
- Understand various types of nuclear detectors and their applications
- Demonstrate and understand the quantum mechanical concepts.
- Demonstrate quantitative problem solving skills in all the topics covered.

Unit I

15 Lectures

Basic properties of nuclei: Composition, Charge, Size, density, Spin and Magnetic dipole moment, Rutherford's experiment and estimation of nuclear size , mass defect and binding energy, BE/A vs A plot and its interpretation, stability of nuclei (N vs Z plot)

Problems AB: 11.1, 11.2, 11.3, 11.4 SBP: 4.1.2

Radioactivity: Review of properties of α , β and γ -rays.

Law of Radioactive decay, half-life and mean life (derivation required), units of radioactivity, statistical nature of radioactivity, successive radioactive disintegration- A to B to C (stable) type, natural radioactive series, radioactive equilibriums, artificial radioactivity, determination of the age of the Earth, Carbon dating, radioisotopes and its applications, radiation hazards. Problems

SBP: 2.3, 2.4, 2.6, 2.7, 2.8, 2.9, 2.11, 2.12, 2.13 DCT: 2.13 Page No.86 and 87 AB: 12.1 Page No. 422,423 Additional Reference: <u>https://dae.gov.in/node/191</u>

Unit II

Radiation Detectors: Interaction between particles and matter, plot of variation of ionization current with applied voltage, Gas filled radiation detectors- Ionization chamber (qualitative), Proportional Counter and GM Counter Problems SBP: 1.I.1, 1.I.2, 1.I.3 (i, ii) SNG: Figure: 7.3 (exclude mode of operation), 7.4

Nuclear Reactions: Introduction, types of nuclear reactions, conservation laws (mass, energy and charge), concept of compound and direct reaction, Q value equation and solution of the Q equation, threshold energy Problems

SBP: 3.1, 3.2, 3.3, 3.4, 3.5

Unit III

15 Lectures

Review (Photoelectric effect, Black body, Black Body spectrum, Wien's displacement law) **1. Origin of Quantum theory**: Matter waves: De Broglie waves, Concept of wave packet, phase velocity, group velocity and relation between them, wave particle duality, Davisson-Germer experiment, Heisenberg's Uncertainty Principle AB: 3.1, 3.2, 3.3, 3.4, 3.5, 3.7, 3.8, 3.9

2.X-Rays: Production and properties, X-Ray spectra, X-Ray Diffraction, Bragg's Law, Compton Effect, Pair production, Photons and Gravity, Gravitational Red Shift, Black holes AB: 2.5, 2.6, 2.7, 2.8, 2.9

Note: A good number of numerical examples are expected to be covered during the prescribed lectures

Main References:

AB: Arthur Beiser, Concepts of Modern Physics, 6th Edition SBP: S.B. Patel, Nuclear Physics: An Introduction, New Age International Publishers, 2nd Edition SNG: S.N, Ghoshal, Nuclear Physics

DCT: D.C. Tayal, Nuclear Physics, Himalaya Publishing House, 5th Edition

Additional References:

S.L Kakani and Shubhra Kakani, Nuclear and Particle Physics, Viva Books, 2nd Edition Kenneth S. Krane, Modern Physics, 4th Edition, Wiley.

Ronald Gautreau, Schaum's Outline of Modern Physics, Second Edition, McGraw Hill Besides reference books, Standard websites are expected to be referred

15 Lectures

SEMESTER-I

Name of the	Duration	Semester	Subject
Programme			
B.Sc.in Physics	Six semesters	Ι	Physics
Course Code	Title	Credits	
USPHP1	Practical I	2	

Instructions:

- All the measurements and readings should be written with proper units in SI system only.
- After completing all the required number of experiments in the semester and recording them in journal, student will have to get their journal certified and produce the certified journal at the time of practical examination.
- While evaluating practical, weightage should be given to circuit/ray diagram, observations, tabular representation, experimental skills and procedure, graph, calculation and result.
- Skill of doing the experiment and understanding physics concepts should be more important than the accuracy of final result.

Learning Outcome:

On successful completion of this course students will be able to:

Understand & practice the skills while performing experiments.

Understand the use of apparatus and their use without fear & hesitation.

Correlate the physics theory concepts to practical application.

Understand the concept of errors and their estimation.

Note: Exemption of two experiments from section A and / or B and / or C may be given if student carries out any one of the following activity.

Collect the information of at least five Physicists with their work or any three events on physics, report that in journal.

Execute a mini project to the satisfaction of teacher in-charge of practical.

Participate in a study tour or visit & submit a study tour report.

For practical examinations, the learner will be examined in two experiments (one from each group).

Each experiment will be of three lecture hours' duration.

- A Minimum 4 from each group and in all minimum 8 experiments must be reported in journal.
- All the skill experiments are required to be completed compulsorily. Students are required to report all these experiments in the journal. Evaluation in viva voce will be based on regular experiments and skill experiments.

A learner will be allowed to appear for the semester and practical examination only if he submits a certified journal of Physics or a certificate that the learner has completed the practical course of Physics Semester I as per the minimum requirements.

A. Regular Experiment:

Sr No	Name of the Experiment			
	GROUP A			
1	Torsional Oscillation: To determine modulus of rigidity η of a material of wire by			
	Torsional oscillations			
2	Bifilar Pendulum: Determination of moment of inertia of rectangular and cylindrical bar			
	about an axis passing through its centre of gravity			
3	Moment of inertial of Flywheel			
4	Constant volume air thermometer			
5	Frequency of AC Mains: To determine frequency of AC mains (Sonometer wire)			
6	LDR Characteristics: To study the dependence of LDR resistance on intensity of light			
	GROUP B			
7	Study of Logic gates & To verify De Morgan's Theorems			
8	To study EX-OR Gate and verify its truth table			
9	To study half adder and full adder and verify their truth table Ex-OR Gate			
10	To study load regulation of a Bridge Rectifier			
11	To study Zener Diode as Regulator			
12	Study of LASER Beam Divergence			
GROUP C:Skill Experiment				
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1	Use of Vernier Callipers, Micrometer Screw Gauge and Travelling Microscope			
2	Graph plotting (Plot BE/A verses A graph for 30 atoms, Plot Packing Fraction graph for 30 atoms)			
3	Spectrometer: Schuster's Method			
4	To determine the Resistance & Capacitance using Color code/Number & verify using Multimeter (Analog/Digital)			
5	Use of digital multimeter			
6	Absolute and relative error calculation			

Note: Minimum **8** experiments (Four From each group) and **4** Skill experiments should be completed and reported in the journal, in the first semester. **Certified Journal is a must,** to be eligible to appear for the semester end practical examination.

SEMESTER-II

Name of the Programme	Duration	Semester	Subject
B.Sc.in Physics	Six semesters	II	Physics
Course Code	Title	Credits	
USPH201	Optics I	2	

Learning Objectives:

To acquire knowledge of fundamental optics

Learning Outcomes:

After successful completion of the course, the student will be able to:

- 1. Understand the concept of lens, lens defects and their minimization.
- 2. Significance of combination of lenses implied to eyepiece of optical instrument.
- 3. Understand interference of light with few well known daily life examples.
- 4. Understand Lasers and Optical fibers, their applications in day to day life.

UI Geometrical Optics

(15 lectures)

Lenses and Lens Maker's Equation: Introduction to lenses, Terminology and sign conventions, Introduction to Thin lenses and Lens equation for single convex lens, Lens maker's equation: Positions of the Principal Foci and Newton's Lens equation. SBA: 4.1, 4.2, 4.3, 4.7, 4.8, 4.9, 4.10, 4.10.1, 4.11

Magnification by a lens and power of lens: Lateral, Longitudinal and Angular magnification, Deviation by a thin lens and its power, Necessity to combine the lenses & equivalent focal length & power of two thin lenses, Concept of cardinal points and their significance SBA: 4.12, 4.12.1, 4.12.2, 4.12.3, 4.15, 4.16, 4.17, 4.17.1, 4.17.2, 4.17.3, 4.17.4, 5.2

Introduction to Aberration in lenses: Spherical aberration & reduction, chromatic aberration& reduction (Qualitative) SBA: 9.2, 9.5, 9.5.1, 9.10 Suitable numerical with appropriate difficulty level. U2 Introduction to Optical Instruments and Interference in Thin Films (15 lectures) Optical Instruments and Eyepieces: Human Eye as an optical instrument, Camera and Lenses of Camera, Simple Microscope & Compound Microscope, Concept of eyepiece & its significance: Huygens Eyepiece and Ramsden Eyepiece (Principle, Construction, Expression for Equivalent Focal Length, Merits and Demerits), Comparison of Huygens Eyepiece and Ramsden Eyepiece, Gauss Eyepiece, Refracting Astronomical Telescope (Construction and Working), Reflecting Telescope (Qualitative)

SBA: 10.2, 10.3, 10.3.1, 10.5, 10.8, 10.10, 10.11, 10.12, 10.13, 10.14, 10.15, 10.15.1, 10.16

Interference in Thin Films: Interference due to reflected and transmitted light in plane thin films, Conditions for Maxima and Minima, Interference pattern in wedge-shaped film & Newton's rings

SBA: 15.1, 15.2, 15.2.1, 15.2.2, 15.5, 15.6 Suitable numerical with appropriate difficulty level.

U3 Lasers and Fiber Optics

(15 lectures)

An Introduction to LASERS: Absorption and Emission, Spontaneous and Stimulated Emission, Components of laser, Ruby laser, He-Ne Laser, Laser Beam Characteristics, Applications of Laser

SBA: 22.1, 22.4.1, 22.4.2, 22.8, 22.8.1, 22.8.2, 22.8.3, 22.14.1, 22.14.3, 22.16, 22.19

An Introduction to Optical Fiber: Total Internal Reflection, Propagation of light through an Optical fiber, Numerical Aperture, Classification of Optical fibers, Single Mode Step Index Fiber, Multimode Step Index Fiber, Graded Index Fiber, Optical Fiber applications (Optical fiber based communication system & Optical Fiber based Temperature sensor) SBA: 24.2, 24.3, 24.4, 24.6, 24.10, 24.11.1, 24.11.2, 24.11.3, 24.21, 24.23.1

Main Reference:

SBA: Dr. N. Subrahmanyam, Brijlal, and Dr. M. N. Avadhanulu, A Textbook of Optics, 25th Revised Edition 2012(Reprint 2016), S. Chand and Company Pvt. Ltd.

Additional References:

Jenkins and White, Fundamentals of Optics by (4th Ed.), McGraw Hill International Ajoy Ghatak, Optics, 6th Edition, Mc Graw Hill Education (India) Private Limited

SEMESTER II

Name of the Programme	Duration	Semester	Subject
B.Sc.in Physics	Six semesters	II	Physics
Course Code	Title	Credits	
USPH202	Electricity and Electronics	2	

Learning Outcomes:

On successful completion of this course students will be able to:

Understand the basic concepts of Alternating current theory, AC bridges and Circuit Theorems

Understand the basics of Analog and Digital Electronics and apply them in real life situations

Demonstrate quantitative problem solving skills in all the topics covered

Unit I: Electricity

Alternating current theory: (Review: Concept of L, R, and C)

AC circuit containing pure R, pure L and pure C, representation of sinusoids by complex numbers, Series L-R, C-R and LCR circuits, Resonance in LCR circuit (both series and parallel), Power in ac circuit. Q- Factor.

TT: 11.29, 11.30, 11.32, 12.5, 12.6, 13.1, 13.7, 13.9, 13.10, 13.11, 13.12, 13.13, 13.14, 13.17, 13.19, 14.2

AC bridges: General AC Bridge, Maxwell's Inductance Bridge, Maxwell's L/C Bridge,De Sauty Bridge, Wien Bridge. (Bridge diagram, balancing condition derivation, applications) TT: 16.1, 16.2, 16.3, 16.9, 16.11

Circuit Theorems: (Review: Ohm's law, Kirchhoff's laws) Ideal Current and Voltage Sources, Thevenin's Theorem, Norton's Theorem, Maximum Power Transfer Theorem. Problems related to circuit analysis using the above theorems. **TT**: 2.15, 2.16, 2.18, 2.25, 2.30

Unit II: Analog Electronics

DC Power Supply: Block diagram of a dc power supply – concept of a transformer,(Review: Half wave rectifier, Full wave rectifier) Bridge rectifier, PIV, Efficiency and Ripple factor of full wave rectifier, Capacitor Filter, Need for voltage regulation - Zener diode as voltage stabilizer, Clipper and Clampers (Basic diode based circuits only). **BN**: 1.15, 2.6, 2.7, 2.8, 2.9, 2.10, 15.2, 15.3

AD: 4.2, 22.1

15 lectures

15 lectures

Transistor dc Biasing: (Review: transistor structure and characteristics), Definition of gains α , β (dc and ac) and relation between them, load line analysis, operating point, cut-off and saturation points, Inherent Variations of transistor Parameters, Stabilization, Necessity of a Transistor Biasing Circuit, Stability Factor, Methods of Transistor Biasing, Base Resistor or fixed bias, Emitter Bias and Voltage Divider Bias Methods(Qualitative Analysis only, No mathematical derivation), Stability factor for Potential Divider Bias.

Transistor as a switch: circuit and working, Transistor as an Amplifier: CE, CB and CC modes, Practical circuit of an amplifier and its operation and phase reversal.

BN: 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 4.1, 4.2, 4.17, 4.18(Transistor Switch)

Unit III: Digital Electronics

15 lectures

Number Systems – Binary number system: Binary to decimal and Decimal to binary conversion, Hexadecimal number system: Hexadecimal to decimal Conversion, Decimal to hexadecimal conversion, Hexadecimal to binary conversion, Binary to hexadecimal conversion.

LMS: 5.1 to 5.5

Derived Gates (Review: Basic Logic gates),NAND and NOR as Universal Building blocks, Ex-OR gate: logic expression, logic symbol, truth table, Implementation using basic gates and its applications – Parity generator and checker, Half adder and Full adder. LMS: 2.1, 2.2 Tokheim: 3.6, 3.8, 10.2, 10.3

Boolean Algebra: Boolean theorems, De-Morgan theorems, Sum of Product (SOP) and Product of sum (POS) methods, Simplification of logical expressions. LMS: 3.1, 3.2, 3.7, 3.8

References:

TT: B.L. Theraja and A.K. Theraja, A Textbook of Electrical Technology Vol. I, S. Chand Publication BN: R. L. Boylestad and L. Nashelsky, Electronic devices and Circuit Theory - 10th Edition, Pearson LMS: Leach, Malvino, Saha, Digital Principles and Applications – 6th Edition.Tata McGraw Hill

Tokheim: Digital Electronics, Principles and Applications, 6th Edition, McGraw Hill Edition.

AD: Albert Malvino, David Bates, Electronic Principles, 8th Edition, Tata McGraw Hill

SEMESTER-II

Name of the	Duration	Semester	Subject
Programme			
B.Sc.in Physics	Six semesters	II	Physics
Course Code	Title	Credits	
USPHP2	Practical II	2	

Instructions:

- All the measurements and readings should be written with proper units in SI system only.
- After completing all the required number of experiments in the semester and recording them in journal, student will have to get their journal certified and produce the certified journal at the time of practical examination.
- While evaluating practical, weightage should be given to circuit/ray diagram, observations, tabular representation, experimental skills and procedure, graph, calculation and result.
- Skill of doing the experiment and understanding physics concepts should be more important than the accuracy of final result.

Learning Outcome:

On successful completion of this course students will be able to:

Understand & practice the skills while performing experiments.

Understand the use of apparatus and their use without fear & hesitation.

Correlate the physics theory concepts to practical application.

Understand the concept of errors and their estimation.

Note: Exemption of two experiments from section A and / or B and / or C may be given if student carries out any one of the following activity.

Collect the information of at least five Physicists with their work or any three eventson physics, report that in journal.

Execute a mini project to the satisfaction of teacher in-charge of practical.

Participate in a study tour or visit & submit a study tour report.

For practical examinations, the learner will be examined in two experiments (one from each group).

Each experiment will be of three lecture hours' duration.

- A Minimum 4 from each group and in all minimum 8 experiments must be reported in journal.
- All the skill experiments are required to be completed compulsorily. Students are required to report all these experiments in the journal. Evaluation in viva voce will be based on regular experiments and skill experiments.

A learner will be allowed to appear for the semester and practical examination only if he submits a certified journal of Physics or a certificate that the learner has completed the practical course of Physics Semester II as per the minimum requirements.

A. Regular Experiment:

Sr No	Name of the Experiments					
	GROUP A					
1	Young's Modulus of a wire material by method of vibrations					
2	Spectrometer: To determine of angle of Prism					
3	Spectrometer: To determine refractive index of prism material					
4	Combination of Lenses: To determine equivalent focal length of a lens system by magnification method					
5	Newton's Rings: To determine radius of curvature of a given convex lens using Newton's rings.					
6	Determination of diameter of thin wire using Wedge Shaped Film					
	GROUP B					
7	To study NAND/NOR gates as Universal Building Blocks					
8	LR Circuit: To determine the value of given inductance and phase angle					
9	CR Circuit: To determine value of given capacitor and Phase angle					
10	Transistor configurations : CB/CE/CC (study of input-output characteristics)					

11	LCR series Resonance: To determine resonance frequency of LCR series circuit
12	To study Thermistor characteristics: Resistance vs. Temperature
	GROUP C: DEMONSTRATION EXPERIMENT
1	Radius of ball bearings (single pan balance)
2	Use of Oscilloscope: Wave forms at output of half wave , bridge rectifiers with and without Capacitor filter, Ripple
3	Use of PC for graph plotting
4	I-V Characteristics of LED
5	Testing of components (Resistors, Diode, Transistor, capacitor)
6	Study of I-V characteristics of solar cell

Note: Minimum **8** experiments (Four From each group) and **4** Demo experiments should be completed and reported in the journal, in the first semester. **Certified Journal is a must,** to be eligible to appear for the semester end practical examination.

University of Mumbai



No. UG/35 of 2019-20

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Science & Technology Faculty is invited to this office Circular No. UG/217 of 2017-18, dated 23rd August, 2017 relating to the revised syllabus as per (CBCS) for the S.Y.B.Sc. Physics (Sem. III & IV).

They are hereby informed that the recommendations made by the Board of Studies in Physics at its meeting held on 8th April, 2019 have been accepted by the Academic Council at its meeting held on 15th April, 2019 <u>vide</u> item No. 4.36 and that in accordance therewith, the revised syllabus as per the (CBCS) for the S.Y.B.Sc. Physics Paper III in (Sem.III & IV) has been brought into force with effect from the academic year 2019-20, accordingly. (The same is available on the University's website <u>www.mu.ac.in</u>).

MUMBAI - 400 032

The Principals of the affiliated Colleges and Directors of the recognized Institutions in Science & Technology Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.36/15/04/2019

No. UG/35 - A of 2019

MUMBAI-400 032

17th June, 2019

Copy forwarded with Compliments for information to:-

1) The I/c Dean, Faculty of Science & Technology,

- 2) The Chairman, Board of Studies in Physics,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 5) The Director, Board of Students Development,
- 6) The Co-ordinator, University Computerization Centre,

Nome (Dr. Ajay Deshmukh)

REGISTRAR

(Dr. Ajay Deshmukh)

REGISTRAR

		AC 15/04/2019 Item No. 4-36
U	NIVERSITY OF MU	MBAI
		2
		- 1 -

Sr. No.	Heading	Particulars		
1	Title of the Course	USPH 303 : Applied Physics - I		
2	Eligibility for Admission	B: Sc Part I		
3	Passing Marl.s	40 %		
4	Ordinances / Regulations (if any)			
5	No. of Years / Semesters	Two (semester II, Semester IV)		
6	Level	P.G. / U.G./ Diploma / Certificate- (Strike out which is not applicable)		
7	Pattern	Yearly / Semester (Strike out which is not applicable)		
8	Status	New/ Revised (Strike out which is not applicable)		
9	To be implemented from Academic Year	From Academic Year June 2019		

Date: Signature: UtBanbole Name of BOS Chairperson / Dean : Prof. Vaishali Banbole

SEMESTER - III

USPH303: Applied Physics - I

This paper consists of three modules (units) designed in a way so as to offer interdisciplinary & application oriented learning.

Learning Outcomes:

On completion of this, it is expected that

Students will be exposed to contextual real life situations.

Students will appreciate the role of Physics in 'interdisciplinary areas related to materials and Acoustics etc.

The learner will understand the scope of the subject in Industry & Research. Experimental learning opportunities will faster creative thinking & a spirit of inquiry.

Unit 1:Acoustics, LASER and fibre optics15 Lectures

- Acoustics of Buildings: Reverberation, Explanation of Sabine's formula, & Importance of Sabine's Formula, Absorption Coefficient, Acoustics of Buildings, Factors Affecting Acoustics of Buildings, Sound Distribution in an Auditorium.
 RK: 5.9, 5.10, 5.12, 5.13, 5.14 & 5.15
- Laser: Introduction, transition between Atomic energy states, Principle of Laser, Properties of Laser: Coherence Properties of LASER, Spatial Coherence Length, Directionality, Intensity, Helium–Neon Laser, Application of Laser, Holography SP: 9.1, 9.2, 9.3, 9.4, 9.4.1, 9.4.2, 9.4.3, 9.4.4, 9.6& 9.10
- Fibre Optics: Light propagation through Fibres, Fibre Geometry, Internal reflection, Numerical Aperture, Step-Index and Graded-Index Fibres, Applications of Optical Fibres.

SP: 13.3, 13.3.1, 13.3.2, 13.3.3, 13.5 & 13.9

References:

SP: Modern Physics Concept and Applications – Sanjeev Puri, Narosa Publication. **RK**: Properties of matter and Acoustics – R Murugeshan and K. Shivaprasath, S Chand & Co.Ltd. (2005-Ed)

Unit II: Crystal Physics

15 Lectures

Lattice points and space lattice, The basis and crystal structure, Unit Cells and lattice parameters, Primitive Cells, Crystal Systems, Crystal Symmetry, Bravais space lattices

Metallic crystal structures, relation between the density of crystal material and lattice constant in a cubic lattice, Directions, Planes, Miller Indices, Important planes in simple cubic structure, separation between lattice planes in a cubic crystal.

Unit III: Properties of Material

15 Lectures

- Electrical properties: Review of energy band diagram for materials conductors, semiconductors and insulators, Electrical conductivity in metals, semiconductors and insulators (dielectrics), effect of temperature on conductivity.
- Optical properties: Reflection, refraction, absorption and transmission of electromagnetic radiation in solids.
- Magnetic properties: Origin of magnetism in solids (basic idea), Types of magnetic order (paramagnetism, diamagnetism, antiferromagnetism, ferromagnetism), magnetic hysteresis.
- Applications: Dielectric materials: Piezoelectric, ferroelectric and pyroelectric materials.

References:

Electronic Properties of Materials, Rolf E Hummel.

Materials Science and Engineering: A First Course by V. Raghavan.

SEMESTER - IV

USPH403: Applied Physics - II

Learning Outcomes:

On successful completion of this course, students will be able to:

Understand the concepts of mechanics & properties of matter & to apply them to problems.

Comprehend the basic concepts of thermodynamics & its applications in physical situation.

Learn about situations in low temperature.

Demonstrate tentative problem solving skills in all above areas.

Unit 1: Introduction to Geology and Geophysics15 Lectures

CHAPTER 1: GEOLOGY

Introduction to Geology its branches and relationship with other sciences.

Earth and solar system: Meteorites and other extra-terrestrial materials.

Age of Earth and various methods of determination. Planetary evolution of the Earth and its internal structure: Elastic waves and variation of physical and chemical properties in the interior of Earth.

Major tectonic features of the ocean oceanic and continental crust.

Continental drift – geological and geophysical evidence: mechanisms, objections and present status.

Geodynamics of the Indian plate.

CHAPTER 2: GEOPHYSICS

Introduction to Geophysics

- Gravity and magnetic anomalies at Mid-ocean ridges: deep sea trenches, continental shield areas and mountain chains.
- Geomagnetism, elements of Earth's magnetism: Internal, external fields and their causes, Palaeomagnetism, Polar wandering paths and reversals, Seafloor spreading and Plate tectonics.

Seismic belts of the Earth: Seismicity and plate movements.

Utility of the different geophysical techniques (discussed above) in exploration for academic as well as for harnessing resources. Geophysical potential fields: Principles of Gravity and Magnetic methods.

Instrumentation, field procedures used in geophysical studies.

Suggested Textbooks and References

Geomagnetism: Solid Earth and Upper Atmosphere Perspectives. Nathani Basavaiah, Springer (2011).

Introduction to Applied Geophysics: Exploring the Shallow Subsurface. H.R.

Burger, A.F. Sheehan and C.H. Jones. W.W. Norton, New York (2006).
Earth Science. E.J. Tarbuck, F.K. Lutgens and D. Tasa, Prentice & Hall (2005). 4.
Mantle Plumes and Their Record in Earth History. K.C. Condie, Cambridge
University Press, Cambridge, UK (2001)
The Magnetic Field of the Earth: Paleomagnetism, the Core, and the Deep
Mantle. R.T. Merrill, M.W. McElhinny and P.L. McFadden, International
Geophysical Series 63, Academic Press (1996).
Applied Geophysics (Paperback). W.M. Telford, L.P. Geldart and R.E. Sheriff,
Cambridge University Press, Cambridge (1990).

Unit: II - Microprocessors

15 lectures

Building Concept of Microprocessor

Introduction, Study of Memory, Input Device , Output Device , Input/output Device Central Processing Unit.

Chapter 3 : 3.1 , 3.2 , 3.3 (3.3.1 , 3.3.2 , 3,.3.3) , 3.4. , 3.5 , 3.6 , 3.7

8085 Microprocessor

Introduction, Features of Inter 8085, Pin Diagram of 8085, 8085 CPU Architecture, Arithmetic and Logical Group (ALU, Accumulator, Temporary Register, Flag Register (PSW)), Register Group (Temporary Registers (W and Z), General purpose registers, Special Purpose registers), Interrupt Control, Serial I/O Control Group, Instruction Register, Decoder and Control Group (Instruction Register, Instruction Decoder, Timing and Control)

Chapter 4 : 4.1 ,4.2 , 4.3 , 4.4 , 4.5 (4.5.1 , 4.5.2 , 4.5.3 , 4.5.4) , 4.6 (4.6.1 , 4.6.2 , 4.6.3) , 4.7 , 4.8 , 4.9 (4.9.1 , 4.9.2 , 4.9.3)

8085 Instruction Set

Introduction, Flowchart, Classification of Instruction Set (Data Transfer Group, Arithmetic Group, Logical Group, Branching Group, Stack and Machine Control Group), Notations used in Instructions and Opcode, Data Transfer Group, Program Examples for Data Transfer Group, Arithmetic Operation Group, Branch Group, Logical Group, Addressing Modes, 8085 Programmers Model.

Chapter 6 : 6.1 , 6.2 , 6.3 6.4 , 6.5 , 6.6 , 6.7 , 6.8 (6.8.1 , 6.8.2 , 6.8.3 , 6.8.8 , 6.8.9 , 6.8.10 , 6.8.11 (A part Block Transfer) , 6.9 (6.9.1 upto 6.9.19) , 6.12 , 6.13

Reference Book: V.J. Vibhute & P.B. Borole, Fifth Revised Edition

Unit: III-Radio communication

15 lectures

Basics of Communication: Block diagram of communication system, types of communication system: simplex, duplex, analog and digital communication, Electromagnetic spectrum, base band and broad band communication. Noise concept and types, signal to noise ratio, noise figure, noise temperature.

Amplitude Modulation: Need of modulation, concept of modulation, AM waveform, mathematical expression of AM, concept of sideband, demodulation principles. AM Receiver: TRF and super heterodyne receiver.

Frequency Modulation: Definition, mathematical representation, frequency spectrum, bandwidth and modulation index.

Concept of ASK, PSK, FSK, PAM, PWM, PPM, PCM.

Suggested Books:

Communication Electronics: Principles and applications by Louis E Frenzel 3rd edition TMH Publications.

Electronics Communication Systems by Kennedy

Telecommunication Switching Systems and Network by Vishwanathan and Thiagarajan, PHI publication.

Electronics Communication Systems by Denis Roddy and John Coolen, PHI publication.

AC 26/2/2015 Item No. 4.70

UNIVERSITY OF MUMBAI



Syllabus for F.Y.B.Sc. Program BSc Course: ZOOLOGY

Semester I and II

(Credit Based Semester and Grading System with effect from the academic year 2015–2016)

Syllabus for FYBSc Course – ZOOLOGY

Preamble Pedagogy Syllabus Semester I & II References and Additional Reading Scheme of Examination and Paper Pattern Distribution of periods Model Question bank

Aims

- To nurture interest in the students for the subject of Zoology
- To create awareness of the basic and modern concepts of Zoology
- To orient students about the importance of abiotic and biotic factors of environment and their conservation.
- To provide an insight to the basic nutritional and health aspects of human life.
- To inculcate good laboratory practices in students and to train them about scientific handling of important instruments.

Syllabus for FYBSc. Course – ZOOLOGY To be implemented from Academic year 2015-16 <u>SEMESTER - I</u>

COURSE CODE	UNIT	TOPICS	CREDITS	LECTURES/WEEK
	Ι	Wonders of animal world		1
USZO101	II	Biodiversity and its conservation	2	1
	III	Footsteps to follow		1
	Ι	Laboratory safety and Units of Measurement		1
USZO102	II	Animal Biotechnology 2		1
	III	Instrumentation		1
USZOP1 Practical based on both courses		2	6	

SEMESTER - II

COURSE CODE	UNIT	TOPICS	CREDITS	LECTURES/WEEK
	Ι	Population Ecology		1
USZO201	II	Ecosystem	2	1
	III	National park and Sanctuaries		1
	Ι	Nutrition and Health		1
USZO202	II	Public health and Hygiene 2		1
	III	Common human Diseases		1
USZOP2	OP2 Practical based on both courses		2	6

SYLLABUS F.Y.B.Sc. ZOOLOGY UNIT WISE DISTRIBUTION

Semester I Semester II		ter II	
Course 1	Course 2	Course 3	Course 4
Unit 1 Wonders of animal world	Unit 1 Laboratory Safety and Units of Measurement	Unit 1 Population Ecology	Unit 1 Nutrition and Health
Unit 2 Biodiversity and its Conservation	Unit 2 Animal Biotechnology	Unit 2 Ecosystem	Unit 2 Public Health and Hygiene
Unit 3 Footsteps to follow	Unit 3 Instrumentation	Unit 3 National Parks and Sanctuaries	Unit 3 Common Human Diseases
Practical (USZO P1)	Practical (USZO P1)	Practical (USZO P2)	Practical (USZO P2)

F.Y.B.Sc. ZOOLOGY (THEORY) SEMESTER I

USZO101 (Course 1)

Wonders of Animal World, Biodiversity and its Conservation

Unit 1: Wonders of Animal World

(15 L)

Objective: To take learners through a captivating journey of hoarded wealth of marvellous animal world.

Desired Outcome: Curiosity will be ignited in the mind of learners, to know more about the fascinating world of animals which would enhance their interest and love for the subject of Zoology.

- 1.1: Echolocation in Bats and Cetaceans Dolphins and Whales
- 1.2: Mechanism of Pearl formation in Mollusca
- : Bioluminescence in Animals: Noctiluca, Glow worm, Firefly, Angler Fish (Mechanism and use for the animal)
- : Regeneration in Animals Earthworm (Annelida) and Lizard (Reptile) 1.5:
- Mimicry in Butterflies and its significance: Great Eggfly and Common Crow, Common Palmfly and Plain Tiger.
- : Mechanism of Coral formation and types of Coral reefs

: Bird migration: Definition, types and factors inducing bird migration 1.8: Adaptive features of desert animals: Reptiles (Phrynosoma) and Mammals (Camel)

- : Breeding and Parental care in:
 - : Pisces Ovo-viviparous (Black Molly/Guppy), Mouth brooders

(Tilapia), Brood pouches (Sea horse)

: Amphibia - Mouth brooders (Darwin's Frog), Egg carriers(Midwife Toad) Mammals - Egg-laying (Duck-billed Platypus), Marsupials

(Kangaroo) (Kangaroo)

: Aves: Brood Parasitism (Cuckoo)

Unit 2: Biodiversity and its Conservation(15 L)

Objective: To orient learners about rich heritage of Biodiversity of India and make them understand significance of its conservation.

Desired Outcome: Learners would appreciate treasure of Biodiversity, its importance and hence would contribute their best for its conservation.

- : Introduction to Biodiversity Definition, Concepts, Scope and Significance
- : Levels of Biodiversity Introduction to Genetic, Species and Ecosystem Biodiversity
- : Introduction of Biodiversity Hotspots- (Western Ghats and Indo-Burma Border)
- : Values of biodiversity Direct and Indirect use value
- : Threats to Biodiversity Habitat loss and Man-Wildlife conflict
- : Biodiversity conservation and management
 - : Conservation strategies: *in situ*, ex-situ, National parks, Sanctuaries and Biosphere reserves.
 - : Introduction to International efforts : Convention on Biological Diversity (CBD), International Union for Conservation of Nature and Natural Resources (IUCN), United Nations

Environment Program - World Conservation Monitoring Centre (UNEP-WCMC)

: National Biodiversity Action Plan, 2002

Introduction to Indian Wildlife (Protection) Act, 1972 and Convention for International Trade of endangered species

Unit 3: Footsteps to follow

(15 L)

Objective: To teach learners about innovative and novel work of scientists/philosopher/entrepreneurs in the field of biological sciences.

Desired Outcome: Minds of learners would be impulsed to think differently and would be encouraged ipso facto to their original crude ideas from the field of biological sciences.

- : Dr. Hargobind Khorana (Genetic code)
- : Dr. Varghese Kurien (Amul White revolution)
- 3.3: Dr. Salim Ali (Ornithologist)
- 3.4: Anna Hazare (Water Conservation-Ralegan Siddhi)
- 3.5: Baba Amte (Anandvan)
- 3.6: Kiran Mazumdar Shaw (Biocon)
- 3.7: Gadre Fisheries (Surimi)

Two cases preferably of local importance to the college be additionally taught.

USZO102 (Course 2)

INSTRUMENTATION and ANIMAL BIOTECHNOLOGY

Unit 1: Laboratory safety, Units and Measurement

(15 L)

Objective: To make learners aware of risks involved in handling of different hazardous chemicals, sensitive (electrical/electronic) instruments and infectious biological specimens especially during practical sessions in the laboratory and to train them to avoid mishap.

Desired Outcome: Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and economy in use of materials/chemicals during practical sessions.

: Introduction to good laboratory practices

Use of safety symbols: meaning, types of hazards and precautions

: Units of measurement:

- : Calculations and related conversions of each: Metric system- length (meter to micrometer); weight (gram to microgram), Volumetric (Cubic measures)
- : Temperature: Celsius, Fahrenheit, Kelvin
- : Concentrations: Percent solutions, ppt, ppm, ppb dilutions, Normality, Molarity and Molality.
- : Biostatistics: Introduction and scope, Sampling and its types, Central Tendencies (mean, median, mode) Tabulation, Graphical representations (Histograms, bar diagrams, pie diagrams).

Unit 2: Animal Biotechnology

Objective: To acquaint learners to the modern developments and concepts of Zoology highlighting their applications aiming for the benefit of human being. **Desired Outcome**: Learners would understand recent advances in the subject and their applications for the betterment of mankind; and that the young minds would be tuned to think out of the box.

- : **Biotechnology**: Scope and achievements of Biotechnology (Fishery, Animal Husbandry, Medical, Industrial)
- : Transgenesis: Retro viral method, Nuclear transplantation method, DNA microinjection method and Embryonic stem cell method
- : Cloning (Dolly)
- : Ethical issues of transgenic and cloned animals
- : Applications of Biotechnology:
 - : DNA fingerprinting: Technique in brief and its application in forensic science (Crime Investigation)
 - : Recombinant DNA in medicines (recombinant insulin)

(15 L)

- : Gene therapy: Ex-vivo and *In vivo*, Severe Combined Immunodeficiency (SCID), Cystic Fibrosis
 - Green genes: Green Fluorescent Protein (GFP) from Jelly fishvaluable as reporter genes used to detect food poisoning.

Unit 3: Instrumentation

(15 L)

Objective: To provide all learners a complete insight about the structure and train them with operational skills of different instruments required in Zoology. **Desired Outcome:** Students will be skilled to select and operate suitable instruments for the studies of different components of Zoology of this course and also of higher classes including research.

: Microscopy

- : Construction, principle and applications of dissecting and compound microscope.
- : Colorimetry and Spectroscopy Principle and applications.
- : **pH** Sorenson's pH scale, pH meter principle and applications.
- : Centrifuge Principle and applications (clinical and ultra centrifuges).
- : Chromatography Principle and applications (Partition and Adsorption)
- : **Electrophoresis** Principle and applications (AGE and PAGE)

SEMESTER I Practical USZOP1 (Course I)

Mounting of foraminiferan shells from sand (any 3) Study of types of Corals - Brain, Organ pipe, Stag Horn, Mushroom coral Study of

3Study of the following;

Symbiosis (Termite and Trychonympha, hermit crab and sea anemone)

Camouflage (leaf insect, chameleon)

Cannibalistic mate-eating animals (Spider and Praying Mantis)

Animal architects: Termites, Harvester ant and Baya weaver bird

Study of bioluminescent organisms – Noctiluca, glow worm, fire fly, angler fish.

Breeding and parental care in Amphibia- *Rhacophorus*, Midwife toad, Darwin's frog, Caecilian. Mounting of scales of fish (placoid, cycloid and ctenoid)

- a) Study of Adaptive radiation in Reptiles Turtle, Tortoise, *Phrynosoma*, *Draco*)
 - b) Identification and differentiation of venomous and non-venomous snakes (Scales, Fangs, Bite marks, etc.)

7. Study of Types of feathers(contour, filoplume, down), beaks(Nectar feeding, Insect catching, Fruit eating, Scavenging, Filter feeding), claws (perching, wading, swimming, hopping) in birds

- 8 a. Identification of birds Coppersmith Barbet, Bulbul, Rose ringed Parakeet, Magpie Robin, two local birds.
 - b. Field Report To be done in a group of ten students (submission of written / typed report preferably along with photographs/ tables/ graphs.

Other Suggested topics for field observation/survey:

Butterflies/ Fishes/ Migratory birds of local area.

Variations in Human like Attached vs. Free Earlobes, Blood Groups, Eye colour, etc. using statistical method.

Observations of fauna in the field (with reference to theory syllabus).

*Note - The practicals may be conducted by using specimens authorised by the wild such other regulating authorities though it is strongly recommended that the same sh taught by using photographs/audio-visual aids/ simulations / models, etc. as recomme the UGC and as envisaged in the regulations of the relevant monitoring bodies. specimens, however, shall be procured for the purpose of conducting practicals mhere-

in-above.

#There shall be at least one excursion/field trip

SEMESTER I

Practical USZOP1 (Course II)

Interpretation of safety symbols (toxic, corrosive, explosive, flammable, skin itant, oxidizing, compressed gases, aspiration hazards and Biohazardous fectious material.)

b) Study of Central tendencies and plotting of Bar diagram, histogram and pie diagram.

2.

Identification of transgenic fish (Trout and Salmon) / cloned animals (Dolly sheep, cc cat and Snuppy dog) from photograph.

Extraction of fruit juice with pectinase from apple/guava/or any other suitablefruit

Calculation of pH of three different samples (one each acidic, alkaline and neutral) using pH paper/Universal Indicator and confirming the result with pH meter.

Application of DNA Fingerprinting in criminology (photograph of electrophoretic pattern to be given for interpretation by the students)

a) Study of parts of microscope and their functions.

b) Technique of focussing a permanent slide under 10x and 45x (objectives).

a) Dilution of given sample and estimation of OD by using colorimeter.b) Calculation of concentration from the given OD using formula.

Calculation of pH of three different samples (one each acidic, alkaline and neutral) using pH paper/universal indicator/pH indicator from red cabbage and

confirming the result with pH meter.

Separation of amino acids from the mixture by paper chromatography. Calculation of Rf value of separated pigments/amino acids from given chromatogram and their identification from standard chart.

Seperation of pigments by adsorption chromatography using chalk. b) Seperation of lipids by TLC,

*Note - The practicals may be conducted by using specimens authorised by the wildlife and such other regulating authorities though it is strongly recommended that the same should be taught by using photographs/audio-visual aids/ simulations / models, etc. as recommended by the UGC and as envisaged in the regulations of the relevant monitoring bodies. No new specimens, however, shall be procured for the purpose of conducting practicals mentioned here-inabove.

REFERENCES AND ADDITIONAL READING

Wonders of the Animal World - University Text Book of Zoology, F.Y.B.Sc. Semester I Course 1. V.V. Dalvie, G.B. Raje, P. Sardesai, N.S. Prabhu, University Press.

Vertebrate Zoology Volume I- Jordan and Verma, S. Chand and Co.

Invertebrate Zoology Volume II- Jordan and Verma, S. Chand and Co.

Invertebrate Zoology- T. C. Majupuria, S. Nagin and Co.

Chordate Zoology- P. S. Dhami and J. K. Dhami, R. Chand and Co.

Invertebrate Zoology- P. S. Dhami and J. K. Dhami, R. Chand and Co.

Introduction to Vertebrates- Moore Cambridge University- Low Priced Edition

Zoology- S. A. Miller and J. B. Harley, Tata McGraw Hill

Modern Textbook of Zoology, Invertebrates, R. L. Kotpal

Fundamentals of Ecology- E. P. Odum, Sunders Publication

Fundamentals of Ecology- M.C.Dash-2nd edition, Tata McGraw Hill

Essentials of Ecology and Environmental Science - S.V.S Rana

Biodiversity- S.V.S Rana- Prentice Hall Publications

Modern Biology- V. B. Rastogi

Biology of Mollusca- D. R. Khanna

A Textbook of Zoology, Vol. II- T. Jeffery Parker and William. A. Haswell-Low Price Publications

Ecology and Environment- P. D. Sharma, R. K. Rastogi Publications

Introduction to Ecology- R. Dajoz

Wildlife Laws and its Impact on Tribes- Mona Purohit, Deep and Deep Publications

Biodiversity- K.C.Agarwal- Agro Botanica Publications

Butterflies of India - Isaac Kehimkar- BNHS Publication

Course II (USZO102) REFERENCES AND ADDITIONAL READINGS

Basic Laboratory Techniques, Instrumentation and Biotechnology- University Text Book of Zoology, F.Y.B.Sc. Semester I Course 2. V.V. Dalvie, R. G. Deshmukh, R. D'souza and H.U. Shingadia University Press. Introduction to Practical Biochemistry - David T. Plummer (Tata McGraw Hill Publishing Co. Ltd.) Introductory Practical Biochemistry – S.K. Sawhney and Randhir Singh (Narosa Publishing House) Methods in Biostatistics – B. K. Mahajan, (Jaypee Publications) Microscopy and Cell Biology - V. K. Sharma, (Tata McGraw Hill Publishing Co. Ltd.) Bioinstrumentation – L. Veerakumari, (M.J.P. Publishers) Principles and Techniques of Practical Biochemistry – Keith Wilson and John Walker, (Cambridge University Press) Biotechnology- Thieman and Pallidino, Pearson edu. Biotechnology –Glick and Pasternak 10.Biochemistry – Satyanarayana 11.Understanding biotechnology- Aluizio Borem, David Bowe-Low price edition –Pearson Publication 12.A Textbook of Biotechnology – R. C. Dubey, S. Chand Publication. 13.A Manual of Medical Laboratory Technology -A. H. Patel, Navneet Prakashan Ltd. Biological instruments and methodology - Dr. P. K. Bajpai, S. Chand company Ltd. Calculations in Molecular biology and Biotechnology - Frank H. Stephenson, Academic Press.

SCHEME OF EXAMINATION (THEORY)

- Internal assessment of twenty five (25) marks per course per semester should be conducted according to the guidelines given by University of Mumbai vide circular number UG/04 of 2014 Dated 5th June 2014 to be implemented from academic year 2014-15.
- External assessment of seventy five (75) marks per course per semester should be conducted as per the following skeleton question paper pattern.
- One practical examination of fifty (50) marks per course each should be conducted at the end of every semester.

SKELETON- EXAMINATION PATTERN FOR THE ABOVE SYLLABUS

All Questions are compulsory

Figures to the right indicate full marks

Time: 2.5 hours

Total marks: 75

Q.1.	UNIT 1 Answer any four out of eight (5 marks each)	20 marks
Q.2.	UNIT 2 Answer any one of the two (10 marks) Answer any two out of the four (5 marks each)	20 marks
Q.3.	UNIT 3 Answer any two out of four (10 marks each)	20 marks
Q.4.	 Unit 1 - (One note of five marks OR objective type questions) Unit 2 - (One note of five marks OR objective type questions) Unit 3- (One note of five marks OR objective type questions) 	15 marks

*For Question 4 it is recommended to have objective questions such as -

- (a) Match the column (b) MCQ
- (c) Give one word for (d) True and False
- (e) Define the term (f) Answer in one sentence etc.

MODEL QUESTION BANK SEMESTER I USZO101(COURSE I)

Question bank is suggestive and not exhaustive. The paper setters are free to modify the questions or include new questions to the best of their wisdom

UNIT 1 - (05 Marks)

Write a note on echolocation in Dolphins/ Whales Write a short note on : Pearl formation in Mollusca Describe : Mechanism of bioluminescence Enumerate the uses of bioluminescence Describe the uses of bioluminescence for..... (Noctiluca, Glow worm, Firefly, Angler fish, etc.) Write a short note on : Luciferin – Luciferase interaction Describe the process of regeneration in Earthworm What is regeneration? Explain the term with an example What is mimicry? Explain with an example. Describe: mimicry in butterfly Describe briefly the formation of Corals Write a short note on types of coral reefs. Describe needs of migration in birds. Describe briefly, the factors inducing migration in birds. How does Camel adapt itself to the desert environment? Describe parental care and breeding in (Examples of Pisces, Amphibia) Describe briefly: Brood parasite Explain parental care in Duck-billed Platypus

UNIT 2 - (05 Marks/10 Marks)

Questions that could be asked for 10 marks:

Explain biodiversity and its importance. What is a biodiversity hotspot?
Explain Western Ghats as biodiversity hotspot in India.
Explain: Direct use value / Indirect use value
Explain biodiversity and its types.
Enumerate and explain threats to biodiversity.
State the factors which amount to habitat loss.
Explain the concept of Man-Wildlife conflict with an example.
Give a detailed account on *in situ* hybridization and ex-situ hybridization

Describe National Park and state its importance in conservation
Describe Sanctuary and state its importance in conservation
Give a brief account on biosphere reserve.
Give a detailed account on: CBD (Convention on Biological Diversity).
Give an account of national biodiversity plan 2002.
Describe important clauses of Convention for International Trade of endangered species.

Questions that could be asked for 05 marks:

Explain biodiversity and mention its types.
Explain biodiversity and give two importance
Explain biodiversity hotspot
Describe *in situ* conservation strategies.
Write note on ex-situ conservation strategies.
Give an account of genetic / species / ecosystem biodiversity.
Enumerate importance threat to biodiversity.
State direct and indirect use value of biodiversity.

UNIT 3 - (10 Marks)

Describe in detail (Name of the case study)

For e.g.: Amul white revolution, Biocon, Genetic code etc.

Give a detailed account on the contribution made by Dr.Salim Ali in the field of Ornithology.

What is white revolution? State contribution of Dr. Verghese Kurian for it.

Describe the work of water conservation of Anna Hazare.

MODEL QUESTION BANK SEMESTER I USZO102 (COURSE II)

Question bank is suggestive and not exhaustive. The paper setters are free to modify the questions or include new questions to the best of their wisdom

UNIT I: (5 marks)

- 1. Describe in brief (Minimum five points)
 - a. Good laboratory practices
 - b. Chemical hazards in a laboratory
 - c. Physical hazards in a laboratory
 - d. Biological hazards in a laboratory
 - e. Personal hygiene in laboratory
 - f. Waste disposal
- 2. Define and give conversions of the three scales of measuring temperature.
- 3. Define Molarity. How would you prepare
 - a. 1 litre of 0.1 M NaOH solution? (Mol.wt. of NaOH=40)
 - b. 100 ml of 1M NaOH
 - c. 500 ml of 0.2 M NaOH
- 4. Define Normality. How would you prepare 1 litre of 2 N NaOH solution?
- 5. Explain briefly the measures of central tendencies?

Define mean, median and mode and explain each with an example.

The observations of length (in cm) of 10 fishes are 22, 24, 34, 26, 28,31,

20, 25, 36, 32. Calculate the arithmetic mean of fish length (in cm).

Calculate the arithmetic mean for the following data on fish length byDirect method.

Class interval (length in cm)	5-15	15-25	25-35	35-45	45-55
Frequency (no. of fish)	9	21	40	22	8

Calculate the arithmetic mean for the above data on fish length by shortcut method.

How do you find the median of the data and state the significance of median? What is mode? How do you calculate mode for ungrouped and grouped data?

What is random sampling? State the significance.

Explain simple, subdivided and multiple bar diagrams.

What is a pie diagram? Write the formula for calculating the angles of degrees for different components.

The following data shows the areas in million square miles of the oceans of theworld.

Construct a pie diagram for the data.

Ocean	Pacific	Atlantic	Indian	Antarctic	Arctic	Total
Area h (million sq. a miles)	70.8	41.2	28.5	7.6	4.8	152.9

Plot a histogram/Bar diagram? Explain how it is constructed.

UNIT 2: (5 marks)

Give applications of Biotechnology in the field of Medicine / Fishery / Animal Husbandry.

Give the Scope of Biotechnology in different areas as a diagrammatic sketch What is SCID? Name the scientist who discovered the gene therapy for it.

In SCID which enzyme does not work properly?

Which cells are used for SCID gene therapy?

Which gene is defective in SCID?

Define transgenesis and mention any two transgenic animals.

Ethical issues of transgenesis.

Enlist five applications of DNA finger printing.

What are green genes? State one application of it.

(10 marks)

Describe SCID and its treatment with suitable diagram.

Explain various methods of transgenesis.

What is Cystic fibrosis? Explain its diagnostic biotechnological method. Define transgenesis and explain retro viral method with its application.

UNIT 3: (10 marks)

Describe the components of a compound microscope giving function.

Explain the principle and the applications of compound microscope.

Discuss in detail the principle, construction and applications of dissecting microscope.

Write the principle and applications of

Colorimeter Centrifuge Spectroscopy Compound microscope Dissecting microscope

Explain the principle of centrifugation and add a note on its application.

What is pH? Give the principle and applications of pH meter.

Describe paper chromatography as a separation technique.

Describe Agarose gel electrophoresis. Add a note on its applications.

Explain the principle and applications of Polyacrylamide gel electrophoresis.

With the help of a diagram, explain the parts of a colorimeter. Discuss the principle and uses.

Describe principle and uses of colorimeter.

Explain the principle and application of adsorption chromatography.

PRACTICALS

USZOP1 (Course I)

Skeleton - Practical Examination Question Paper Pattern

Marks: 50

Time: 2 hrs

From the given sample mount foraminiferan shells (Minimum three types)	(15 Marks)
OR	
Mounting of scales (placoid and cycloid/ctenoid) from fishes.	
Identify the photograph of the given animals and comment on the type of interaction /speciality. (symbiosis, camouflage, cannibalistic mate eating animals and ani architects, bioluminiscence). Any two	mal (10 Marks)
Identify giving reasons - Venomous/Non-venomous snake (from photographs).	(5 Marks)
Identification (one specimen each)	(10 Marks)
Types of corals	
Amphibians-breeding and parental care	
Adaptive radiation in reptiles	
Types of feathers/ claws in birds	
Types of beaks in birds	
Field study report (Biodiversity) and viva on it.	(10 Marks)

Semester I

USZOP1 (Course II)

Skeleton - Practical Examination Question Paper Pattern

Marks: 50

Time: 2 hrs

- 0.1 Dilute the given sample and estimate the OD using colorimeter (Three dilutions) (15marks) OR Calculate concentration from given OD by formula (3 concentrations) OR Find pH of water samples (three) and comment on their chemical nature. OR Using red cabbage pH indicator, determine pH of the given samples and comment on their chemical nature OR Extract fruit juice using pectinase and compare the result with a set without using pectinase. Perform experiment for separation of pigments by adsorption chromatography. O. 2. (10Marks) OR Perform experiment for separation of mixture of amino acids by paper chromatography OR Calculate R_f value and identify the pigment from chromatogram. OR Perform Thin Layer Chromatography (TLC) for separation of lipids Q. 3. Focus the given slide under 10 X and 45 X and show it to examiner. (5 Marks) OR Prepare a frequency distribution table / Plot histogram / Pie diagram / Bar diagram from the given data. Identification (10 Marks) 0.4. (Safety Symbols (two), parts of compound microscope, transgenic animals, DNA fingerprinting)
- Q. 5. Journal and Viva voce(on practical component) (10 Marks)
SEMESTER-II

USZO201 (Course: 3)

Ecology and Wildlife Management

Unit 1: Population ecology:

(15 L)

Objective: To facilitate the learning of population ecology, its dynamics and regulatory factors important for its sustenance.

Desired Outcome: This unit would allow learners to study about nature of animal population, specific factors affecting its growth and its impact on the population of other life form.

: Population dynamics

- : Population density
- : Natality
- : Mortality
- : Fecundity
- : Age structure
- : Sex ratio
- : Life tables
- : Survivorship curves
- : Population dispersal and distribution patterns
- Niche concept

: Population growth regulation

- : Intrinsic mechanism Density dependent fluctuations and oscillations
- : Extrinsic mechanism- Density independent, environmental and climate factors, population interactions

: Population growth pattern

- : Sigmoid
- : J Shaped

: Human census (India) – Concept, mechanism and significance

Unit 2: Ecosystem:

(15 L)

Objective: To impart knowledge of different components of ecosystem and educate about essentials of coexistence of human beings with all other living organisms.

Desired Outcome: Learners will grasp the concept of interdependence and interaction of physical, chemical and biological factors in the environment and will lead to better understanding about implications of loss of fauna specifically on human being, erupting spur of desire for conservation of all flora and fauna.

: Concept of Ecosystems

- : Ecosystem Definition and components
- 2.1.2: Impact of temperature on biota
- 2.1.3: Biogeochemical cycles (Water, Oxygen, Nitrogen, Sulphur)
- 2.1.4: Fresh water ecosystem Lentic and Lotic
- : Food chain and food web in ecosystem (Fresh water and Grass land).
- : Ecological pyramids energy, biomass and number.
- : Animal interactions (commensalism, mutualism, predation, antibiosis, parasitism)

Unit 3: National parks and Sanctuaries of India (15 L)

Objective: To enlighten learners about the current status of wild life conservation in India in the light of guidelines from different relevant governing agencies vis-à-vis with adversity of poaching and biopiracy.

Desired Outcome: Learners would be inspired to choose career options in the field of wild life conservation, research, photography and ecotourism.

: Concept of Endangered and Critically Endangered species using examples of Indian Wildlife with respect to National Parks and Wildlife Sanctuaries of India (Sanjay Gandhi National Park, Tadoba Tiger Reserve, Corbett National Park, Kaziranga National Park, Gir National Park, Silent Valley, Pirotan Island Marine Park, Keoladeo Ghana National Park, Bandipur Sanctuary)

- : Management strategies with special reference to Tiger and Rhinocerosin India
- : Ecotourism
- : Biopiracy

SEMESTER-II

Course: 4 [USZO 202]

NUTRITION, PUBLIC HEALTH AND HYGIENE

Unit 1: Nutrition and Health

(15 L)

Objective: To make learners understand the importance of balanced diet and essential nutrients of food at different stages of life.

Desired Outcome: Healthy dietary habits would be inculcated in the life style of learners in order to prevent risk of developing health hazards in younger generation due to faulty eating habits.

- : Concept of balanced diet, dietary recommendations to a normal adult, infant, pregnant woman and aged.
- : Malnutrition disorders Anemia (B₁₂ and Iron deficiency), Rickets, Marasmus, Goiter, Kwashiorkar (cause, symptoms, precaution and remedy).
- : Constipation, piles, starvation, acidity, flatulence, peptic ulcers (cause, symptoms, precaution and remedy).
- : Obesity (Definition and consequences).
- 1.5: Importance of fibres in food.
- : Significance of breast feeding.
- : Swine flu and Dengue (cause, symptoms, precaution and remedy).
- 1.8: BMI calculation and its significance.

Unit 2: Public Health and Hygiene

Objective: To impart knowledge about source, quantum and need for conservation of fast depleting water resource and essentials of maintaining proper sanitation, hygiene and optimizing use of electronic gadgets.

Desired Outcome: Promoting optimum conservation of water, encouragement for maintaining adequate personal hygiene, optimum use of electronic gadgets, avoiding addiction, thus facilitating achievement of the goal of healthy young India in true sense.

: Health

- : Definition of Health, the need for health education and healthgoal.
- : Physical, psychological and Social health issues.
- : WHO and its programmes Polio, Small pox, Malaria and Leprosy (concept, brief accounts and outcome with respect toIndia).
- : Ill effects of self-medication.

: Water and water supply

- : Sources and properties of water.
- : Purification of water, small scale, medium scale and large scale (rapid sand filters)
- : Water footprint (concept, brief accounts and significance).

: Hygiene:

: Hygiene and health factors at home, personal hygiene, oral hygiene and sex hygiene.

: Radiation risk:

: Mobile Cell tower and electronic gadgets (data of recommended level, effects and precaution).

: First Aid:

: Dog bite and its treatment.

: Blood bank – Concept and significance

UNIT 3: Common Human Diseases and Disorders (15 L)

Objective: To educate learners about causes, symptoms and impact of stress related disorders and infectious diseases.

Desired Outcome: Learners will be able to promptly recognize stress related problems at initial stages and would be able to adopt relevant solutions which would lead to psychologically strong mind set promoting positive attitude important for academics and would be able to acquire knowledge of cause, symptoms and precautions of infectious diseases.

: Stress related disorders

: Hypertension, Diabetes type II, anxiety, insomnia, migraine, depression (cause, symptoms, precaution and remedy)

: Communicable and non-communicable diseases

- : Tuberculosis and Typhoid
- : Hepatitis (A and B), AIDS, Gonorrhea and Syphilis
- 3.2.3: Diseases of respiratory system- Asthma, Bronchitis.
- 3.2.4: Oral Cancer

(Discuss cause/causative agents, symptoms, diagnostics, precaution /prevention and remedy)

SEMESTER II

Practical USZOP2 (Course III)

- 1. Interpretation of the given graphs/ tables and comment on pattern of population nature :
 - i. Survivorship curve
 - ii. Life tables
 - iii. Fecundity tables
 - iv. Age structure
 - v. Sex ratio
- 2. a) Calculation of Natality, Mortality, Population density from given datab) Estimation of population density by capture recapture method
- 3. Interpretation of Growth curves (Sigmoid and J shaped)
- 4. Estimation of hardness from given water sample (tap water v/s well water)
- 5. Estimation of Free carbon dioxide (Free CO₂) from two different samples- aerated drinks(diluted) v/s tap water Identification and interpretation of aquatic and terrestrial (Grassland) food chains and food
- 6. webs
- 7. Construction of food chain/food web using given information/data.
- 8. a) Identification and interpretation of ecological pyramids of energy, biomass and number
 - b) Construction of different types of pyramid from given data.
- 9. Study of the following:

Endangered (Great Indian Bustard, Asiatic lion, Blackbuck, Olive Ridley sea turtle) and critically endangered species (Slender-billed vulture, Gharial, Malabar civet) of Indian wildlife and state reasons for their decline

Study Biodiversity hotspots using world map (Western Ghats and Indo-Burma)

Study of sanctuaries, national parks, biosphere reserves in India with respect to its brand fauna as listed in theory)

*Note - The practicals may be conducted by using specimens authorised by the wildlife and such other regulating authorities though it is strongly recommended that the same should be taught by using photographs/audio-visual aids/ simulations / models, etc. as recommended by the UGC and as envisaged in the regulations of the relevant monitoring bodies. No new specimens, however, shall be procured for the purpose of conducting practicals mentioned here-in-above.

#There shall be at least one excursion/field trip

SEMESTER II

Practical USZOP2 (Course IV)

1. Qualitative estimation of Vitamin C by Iodometric method.

Study of microscopic structure of starch granules of different cereals (wheat, maize and jowar).

a) Estimation of maltose from brown/white bread.

b) Moisture content from biscuits or other suitable food products.

Food adulteration Test:

Milk adulterants (starch and glucose), methylene blue reduction Test (MBRT). Adulterants in Cheese, Butter, Jaggery, Ghee, Honey, Iodised Salt.

a) Estimation of protein content of two egg varieties.

b) Study of efficacy of different antacids (any two antacids).

.Study of Human Parasites

Endoparasites - Protozoans (*Entamoeba, Plasmodium*), Helminths (*Ascaris, Wuchereria*), Ectoparasites (Head louse, tick) and Exoparasites (Bed bug, Mosquito).

Screening of anaemic/non-anaemic persons using CuSO method.

- First Aid Demonstration Practical Training for teachers and students to be conducted by the experts from Redcorss, Civil defence, Civic authorities by individual institute or cluster colleges in rotation.
- BMI analysis Measurement of Height/ Weight and calculation of BMI using formula, preparation and submission of report. (10 students/ group-50 readings/group)

*Note - The practicals may be conducted by using specimens authorised by the wildlife and such other regulating authorities though it is strongly recommended that the same should be taught by using photographs/audio-visual aids/ simulations / models, etc. as recommended by the UGC and as envisaged in the regulations of the relevant monitoring bodies. No new specimens, however, shall be procured for the purpose of conducting practicals mentioned here-in-above.

Semester II USZOP2 (Course III)

Marks: 50

(15 Marks)

Skeleton - Practical Examination Question Paper Pattern

OR

Estimate Hardness from given water samples and compare the results.

Estimate Free CO₂ from given samples and compare the results.

Time: 2 hrs

Solve the given problems (using statistical approach wherever possible) based on (Any two) (10Marks) Natality Mortality Sex Ratio Fecundity Population density Identify brand animals (Min. 4) and place them in their respective National parks/ Sanctuarieson the given map quoting reasons for their decline. (5 Marks) OR Mark National parks and Sanctuaries on the map of India and mention the name of their brand animals stating reason for their decline. (Min. 4) (5 Marks) OR Identify endangered and critically endangered animals (photographs) one each and state their reason of decline (5 Marks) Study the given information and give answers on the basis of food chain/food web and ecological pyramids. (10 Marks) OR Prepare food chain/food web and ecological pyramid from the given data and give its significance. (10 Marks) OR Identify and interpret the given graph/growth curve/age structure and comment on the pattern of population dispersal. (10 Marks) OR Determine Population density by capture and recapture method. (10 Marks) Journal and Viva voce (Based on practical component) (10 Marks)

Semester II USZOP2 (Course IV)

Skeleton -Practical Examination Question Paper Pattern

Time: 2 hrs	Marks: 50	
Estimate Vitamin C from given sample.	(15 Marks)	
Estimate Maltose content from bread.		
OR		
Estimate protein content from two different types of eggs.		
Analyse the given food sample and identify food adulterants (any 2 samples). OR	(10 Marks)	
Evaluate milk quality by Methylene Blue Reduction Test (MBRT). OR		
Determine efficacy of different antacids (any two) on acidic solution.		
Determine moisture content from biscuits/ any other suitable food product.		
On the basis of microscopic structure of starch granules identify different cereals OR	(any two).	
Detect adulterants present in th given milk sample (any two). OR		
Determine whether given blood sample is from anaemic/non-anaemic person using	CuSO ₄	
Method and suggest the appropriate diet.		
Identification	10 Marks)	
One specimen of Protozoan Parasites.		
One specimen of Helminth Parasites.		
One specimen from Ectoparasite		
One specimen from Exoparasite		
One specimen from Endoparasite		
Submission of report of Body Mass Index (viva based on it)	(10 Marks)	

Note: There shall be at least one excursion/field trip.

USZO201 (Course III)

REFERENCES AND ADDITIONAL READING

- Introduction to Ecology and Wildlife University Text Book of Zoology, F.Y.B.Sc. Semester II Course 3. University Press.
- Fundamentals of Ecology Eugene P. Odum and Grey W. Barrett, Brook Cole/ Cengage learning
- Fundamentals of Ecology M. C. Dash , Tata McGraw Hill company Ltd,New Delhi
- Ecology Mohan P. Arora, Himalaya Publishing House
- Field Biology and Ecology -- Alen H. Benton and William E. Werner ,Tata McGraw Hill ltd, New Delhi
- Ecology and Environment Sharma P. D, Rastogi Publication, Mumbai
- Ecology : Principles and Applications Chapman J.L , Cambridge Universitytrust
- Ecology Subramaniam and Others, Narosa Publishing House
- Wildlife laws and its impact on tribes Mona Purohit, Deep and deepPublication
- Biology Eldra Solomon, Linda R. Berg and Diana W. Martin, Thomson/ Brooks/ Cole
- Economic Zoology, Biostats and Animal Behaviour Shukla, Mathur, Upadhyay, Prasad. Rastogi Publications.

USZO202 (Course IV)

REFERENCES AND ADDITIONAL READING

- Common Diseases, Health and Hygiene University Text Book of Zoology, F.Y.B.Sc. Semester II Course 4. University Press.
- Common Medical Symptoms edited P. J. Mehta National Inblisents and Distributions
- Parks Textbook of Preventive and Social Medicine K. Park M/S Banarasidas Bhanot Jabalpar.
- Human Physiology Volume I II C. C. Chatterjee, Medical Allied agency, Kolkatta.
- Parasitology (Protozoology and Helminthoology) K. D. Chatterjee, Chatterjee Medial Publishers.

- Nand's handbook of Forensic Medicine and Toxicology Apurba Nandy, NCBA publication.
- Essentials of Public Health and Sanitation- Part I and Part II. All India Instituteof Local Self Government.
- Epidemiology and Management for Health Care for all. P.V. Sathe, A. P. Sathe, Popular Prakashan, Mumbai.
- Textbook of Medical Parasitology- C. K. JayaramPaniker. Jaypee Brothers.
- A Treatise on Hygiene and Public Health. -B. N. Ghosh. Calcutta Scientific Publishing Company.
- Prevention of Food Adulteration, Act 1954. Asian Law House.
- Clinical Dietetics and Nutrition F. P. Antia and Philip, Oxford University Press.
- A Complete Handbook of Nature Cure Dr. H. K. Bakru, Jaico Publishing House.
- Dietetics B. Srilakshmi, New Age International (P) Ltd. Publishers.
- Nutrition: Principles and Application in Health Promotion J. B. Lippincott Company. Philadelphia.
- Are You Healing Yourself Mr. Executive Dr. R. H. Dastur. IBH Publishing Company.
- Food Nutrition and Health- Dr. Shashi Goyal, Pooja Gupta, S. Chand Publications.
- Public Health Nutrition. Edited Michael J. Gidney, Barrie M. Margetts, John M. Kearney and Lenore Arab. Willey Blackwell Publication.
- Food and Nutrition Vol. I and II Dr. Swaminathan, Bappeo Publication.
- Textbook of Human Nutrition Mahtab Bamji, Prahlad Rao.

Total Health by Paramjit Rana.

SCHEME OF EXAMINATION THEORY

- Internal assessment of twenty five (25) marks per course per semester should be conducted as class test according to the guidelines given by University of Mumbai vide circular number UG/04 of 2014 Dated 5th June 2014 to be implemented from academic year 2014-15.
- External assessment of seventy five (75) marks per course per semester should be conducted as per the following skeleton paper pattern.
- One practical examination of fifty (50) marks per course each should be conducted at the end of every semester.

SKELETON- EXAMINATION PATTERN FOR THE ABOVE SYLLABUS

All Questions are compulsory

Figures to the right indicate full marks

Time: 2.5 hours

Total marks: 75

Q.1.	UNIT 1 Answer any four out of eight (5 marks each)	20 marks
Q.2.	UNIT 2 Answer any one of the two (10 marks) Answer any two out of the four (5 marks each)	20 marks
Q.3.	UNIT 3 Answer any two out of four (10 marks each)	20 marks
Q.4.	Q.4.Unit 1 - (One note of five marks OR objective type questions)Unit 2 - (One note of five marks OR objective type questions)Unit 3- (One note of five marks OR objective type questions)	

*For Question 4 it is recommended to have objective questions such as -

- (a) Match the column (b) MCQ
- (c) Give one word for (d) True and False
- (e) Define the term (f) Answer in one sentence etc.

MODEL QUESTION BANK SEMESTER II USZO203 (COURSE III)

Question bank is suggestive and not exhaustive. The paper setters are free to modify the questions or include new questions to the best of their wisdom

UNIT 1: (10 marks)

Describe with suitable Example J-Shaped and Sigmoid growth patterns Population dispersal and distribution patterns Natality and Mortality Natality and Fecundity Fecundity and Mortality Density dependant fluctuation and oscillations Population interactions Age structure and population density Concept of niche and its significance in population ecology.

Write notes on / Give a brief account of: (5 marks)

Population density Natality Mortality Fecundity Age structure Sex ratio Survivorship curve Sigmoid growth pattern J-shaped growth curve Intrinsic mechanism Extrinsic mechanism Niche Population dispersal and distribution pattern

UNIT 2: (5 marks)

1. Effect of temperature on metabolism

Impact of temperature on reproduction

Effect of temperature on animal behaviour

Define ecosystem and describe any two abiotic factors

Define ecosystem and describe any two biotic factors

Explain producers / autotrophs

Give a brief account of various levels of consumers in an ecosystem

Describe in short the inter-relationship between biotic and abiotic factors

Describe the following (any one of the cycles can be asked) water cycle,

nitrogen cycle and oxygen cycle, sulphur cycle.

Explain any one of the following - lake or river

Explain food chain from terrestrial or aquatic ecosystem

What is food web and explain the same with a suitable example

Give a brief account of: Energy pyramid, Pyramid of biomass, Pyramid of numbers.

Unit 3: (10 marks question)

State the differences between National park and Wildlife Sanctuary?

Write an account of critically endangered species of Indian wildlife with at least two examples.

Explain briefly management strategy of any one tiger project in India.

Briefly explain management strategy of Rhinoceros project in India.

Write in detail about Indian Wildlife (Protection) Act 1972.

What is biopiracy? Explain with suitable examples.

Write a note on flora and fauna of Sanjay Gandhi national park.

Write an account of Tadoba tiger reserve project.

Give an account of biodiversity of Jim Corbett national park.

Write a note on Ranthambore Tiger reserve.

Write in details about Gir Lion project.

Write a note on Keoladeo Ghana National park.

Write an account of biodiversity of Silent valley.

Describe in detail about Bandipur sanctuary.

Write a note on ecotourism in India with few examples.

MODEL QUESTION BANK (COURSE IV) SEMESTERII

Question bank is suggestive and not exhaustive. The paper setters are free to modify the questions or include new questions to the best of their wisdom

Unit I (5 marks)

Explain the following:

Concept of balanced diet and dietary recommendations of any one of the following:

Normal adult b)Infant c) Pregnant woman d) Aged

Cause and symptoms of the following: a) Anemia b) B₁₂ deficiency c) Vitamin D deficiency d) Marasmus e) Kwashiorkar f) Goiter, g) Swine flu, h) Dengue

Precautions and remedy for all above mentioned health conditions.

Significance of breast feeding.

Importance of fibres in food.

Food adulterants and toxins with two side effects of each.

Causes, symptoms, precautions and treatment of a) Constipation, b) Piles, c) Insomnia, d) Starvation, e) Flatulence, f) Peptic ulcer, g) Obesity BMI and its significance.

Unit II (5/10 marks)

Question of 5 marks:

Give a brief account and outcome of WHO Programs: Polio b) Smallpox c) Malaria d) Leprosy

a) Explain the concept of health goal and health knowledge.
Enlist different needs of health education.
State five points of social health issues.

Question of 10 marks:

Describe sources and properties of water in relation to human consumption.

Describe methods of purification of water – small scale, medium scale and large scale.

Explain the concept of water footprint and give its significance.

Describe disposal of human and animal waste – STP and ETP, its functioning and significance.

Give a brief of risk of radiation from mobile cell towers and electronic gadgets.

Explain the concepts of physical health, psychological health and myth related to it.

Describe the term hygiene and explain in brief health factors related to it at home.

Explain personal hygiene, oral hygiene and sex hygiene with significance of each.

Describe ill effects of self medication with respect to antibiotics and steroids. Give brief account of first aid symbols.

Unit III (10 marks)

Explain causes, symptoms, precautions and remedy

Hypertension b) Diabetes Type II c) Anxiety and Insomnia d) Migraine and depression

Explain causes, symptoms, precautions and remedy

Tuberculosisb) Common fluc) Dengued) Malariae) Typhoidf) Hepatitis Ag) Hepatitis Bh) AIDS

Semester I USBO101			Cr	
Paper I Plant Diversity 1			2	
U	<u>NIT I</u>	15		
A	LGAE			
1	Structure, life cycle and systematic position of Nostoc and			
	Spirogyra.			
2	Economic importance of Algae.			
UNIT II				
F	UNGI			
1	Structure, life cycle and systematic position of Rhizopus and			
Aspergillus				
2	Economic importance of Fungi.			
3	Modes of nutrition in Fungi (Saprophytism and Parasitism).			
U	NIT III	15		
B	RYOPHYTA			
1	General characters of Hepaticae			
2	Structure, life cycle and systematic position of Riccia.			

Semester I USBO102			
Paper II – Form and Function 1			2
U	NIT I	15	
C	ELL BIOLOGY		
1	General structure of plant cell: cell wall		
	Plasma membrane (bilayer lipid structure, fluid mosaic model)		
2	Ultra structure and functions of the following cell organelles:		
	Endoplasmic reticulum and Chloroplast		
U	NIT II	15	
E	COLOGY		
1	Energy pyramids, energy flow in an ecosystem.		
2	Types of ecosystems: aquatic and terrestrial.		
U	NIT III	15	
G	ENETICS		
1	Phenotype/Genotype, Mendelian Genetics- monohybrid, dihybrid;		
	test cross; back cross ratios.		
2	Epistatic and non epistatic interactions; multiple alleles.		

	Semester I USBOP1					
	PRACTICAL Paper I – Plant Diversity 1	30	1			
1	Study of stages in the life cycle of <i>Nostoc</i> from fresh/ preserved material and permanent slides					
2	Study of stages in the life cycle of <i>Spirogyra</i> from fresh/ preserved material and permanent slides					
3	Economic importance of algae: <i>Ulva</i> (Biofuel), <i>Spirulina</i> (Neutraceutical), <i>Gelidium</i> (Agar)					
4	Study of stages in the life cycle of <i>Rhizopus</i> from fresh/ preserved material and permanent slides.					
5	Study of stages in the life cycle of <i>Aspergillus</i> from fresh/ preserved material and permanent slides.					
6	Economic importance of Fungi: Mushroom, Yeast, wood rotting fungi (any bracket fungus).					
7	Study of stages in the life cycle of <i>Riccia</i> from fresh/ preserved material.					
8	Study of stages in the life cycle of <i>Riccia</i> with the help of permanent slides.					
	DRACTICAL BADER IL FORMAND FUNCTION 4					
1	Examining various stages of mitosis in root tip cells (<i>Allium</i>)	30	1			
2	Cell inclusions: Starch grains (Potato and Rice): Aleurone Layer					
2	(Maize)					
3	Cystolith (Ficus); Raphides (Pistia); Sphaeraphides (Opuntia).					
4	Identification of cell organelles with the help of photomicrograph:					
	Plastids: Chloroplast, Amyloplast, Endoplasmic Reticulum and					
	Nucleus					
4	Identification of plants adapted to different environmental conditions: Hydrophytes: Floating: Free floating (Pistia/Eichornia); Rooted floating (Nymphaea); Submerged (Hydrilla)					
3	Mesophytes (any common plant); Hygrophytes (<i>Typha/Cyperus</i>)					

6	Xerophytes : Succulent (<i>Opuntia</i>); Woody Xerophyte (<i>Nerium</i>);			
	Halophyte (Avicennia pneumatophore)			
	No sections in ecology, only identification and description of			
	specimens. Morphological adaptations only.			
7	Calculation of mean, median and mode.			
8	Calculation of standard deviation.			
9	Frequency distribution, graphical representation of data- frequency			
	polygon, histogram, pie chart.			
10	Study of Karyoptypes: Human: Normal male and female, Allium			
	сера.			

	Semester II USBO201	Hrs	Cr
Paper I Plant Diversity 1			2
UNIT I			
PT	TERIDOPHYTES		
1	Structure life cycle, systematic position and alternation of		
	generations in Nephrolepis		
2	Stelar evolution		
UI	<u>NIT II</u>	15	
G	YMNOSPERMS		
2	Structure life cycle systematic position and alternation of		
	generations in Cycas		
3	Economic importance of Gymnosperms		
Ur	nit III		
Aľ	NGIOSPERMS	15	
1.	Leaf: simple leaf, types of compound leaves, Incisions of leaf,		
	venation, phyllotaxy, types of stipules, leaf apex, leaf margin, leaf		
	base, leaf shapes. Modifications of leaf: spine, tendril, hooks,		
	phyllode, pitcher, Drosera or insectivorous plants.		
2	Inflorescence: Racemose: simple raceme, spike, catkin, spadix,		
	panicle. Cymose: monochasial, dichasial, polychasial.		
	Compound: corymb, umbel, cyathium, capitulum, verticellaster,		
	hypanthodium.		
3	Study of following families: Malvaceae, Amaryllidaceae.		

	Semester II USBO202		
Paper II – Form and Function 1			2
U	NIT I	15	
A	NATOMY		
1	Simple tissues, complex tissues.		
2	Primary structure of dicot and monocot root, stem and leaf.		
3	Epidermal tissue system: types of hair, monocot and dicot stomata.		

U	NIT II	15			
Pl	HYSIOLOGY				
1	Photosynthesis: Light reactions, photolysis of water,				
	photophosphorylation (cyclic and non cyclic), carbon fixation				
	phase (C ₃ , C ₄ and CAM pathways).				
U	NIT III	15			
Μ	EDICINAL BOTANY				
1	Concept of primary and secondary metabolites, difference				
	between primary and secondary metabolites.				
2	Grandma's pouch: Following plants have to be studies with				
	respect to botanical source, part of the plant used, active				
constituents present and medicinal uses: Oscimum sanctum					
	Adathoda vasica Zinziber officinale Curcuma longa Santalum				
	album Alagaang				
	album, Albe vera.				

	Semester II USBOP2	Cr
	PRACTICAL Paper I – Plant Diversity 1	1
1	Study of stages in the life cycle of <i>Nephrolepis</i> : Mounting of ramentum, hydathode, T.S. of rachis.	
2	T.S. of pinna of <i>Nephrolepis</i> passing through sorus.	
3	Stelar evolution with the help of permanent slides: Protostele:	
	haplostele, actinostele, plectostele, mixed protostele, siphonostele: ectophloic, amphiphloic, dictyostele, eustele and atactostele.	
4	Cycas: T.S of leaflet (Cycas pinna)	
5	Megasporophyll, microsporophyll, coralloid root, microspore, L.S. of ovule of <i>Cycas</i> – all specimens to be shown.	
6	Economic importance of Gymnosperms: <i>Pinus</i> (turpentine, wood, seeds)	
7	Leaf morphology : as per theory	
8	Types of inflorescence: as per theory	
9	Malvaceae	
10	Amaryllidaceae	
	PRACTICALPaper II – Form and Function 1	1
1	Primary structure of dicot and monocot root.	
2	Primary structure of dicot and monocot stem.	
3	Study of dicot and monocot stomata.	
4	Epidermal outgrowths: with the help of mountings	
	Unicellular: Gossypium/Radish	
	Multicellular: Lantana/Sunflower	
	Glandular: Drosera and Stinging: Urtica – only identification	
	with the help of permanent slides.	
	Peltate: Thespesia	
	Stellate: Erythrina/Sida acuta/Solanum/Helecteris	

	T-shaped: Avicennia	
5	Separation of chlorophyll pigments by strip paper chromatography.	
6	Separation of amino acids by paper chromatography.	
7	Change in colour because of change in pH: Anthocyanin: black grapes/Purple cabbage	
8	Test for tannins: tea powder/catechu.	
9	Identification of plants or plant parts for grandma's pouch as per theory.	

AC 7/4/2014 Item No. 4.23

DISTRIBUTION OF TOPICS AND CREDITS F Y B Sc. BOTANY SEMESTER I

Course	Nomenclature	Credits	Topics
USBO101	PLANT	02	1. Algae
	DIVERSITY 1		
			2. Fungi
			3. Bryophyta
USBO1O2	FORM AND	02	1. Cell Biology
	FUNCTION I		
			2. Ecology
			3. Genetics
USBOP1	Plant Diversity I,	02	
	form and Function		
	I (Practical I & II)		

F Y B Sc BOTANY SEMESTER II

Course	Nomenclature	Credits	Topics
USBO2O1	PLANT	02	1. Pteridophytes
	DIVERSITY I		
			2. Gymnosperms
			3. Angiosperms
USBO2O2	FORM AND	02	1. Anatomy
	FUNCTION I		
			2. Physiology
			3. Medicinal
			Botany
USBOP2	Plant Diversity I,	02	
	Form and Function I		
	(Practical I & II)		

AC 7/4/2014 Item No. 4.23

References

College Botany Volume I and II Gangulee, Das and Dutta latest edition. Central Education enterprises Cryptogamic Botany Volume I and II by G M Smith McGrawHill. Genetics by Russel. Wesley Longman inc publishers. (5th edition) Plant Physiology by Taiz and Zeiger Sinauer Associates inc. publishers Fundamentals of Ecology by E P Odum and G W Barrett. Thompson Asia Pvt Ltd. Singapore.

Cell Biology by De Robertis

AC 7/4/2014 Item No. 4.23

Scheme of Examinations

Internal and External Assessment as per CBSS of University of Mumbai

Note:

Two short field excursions for habitat studies are compulsory.

Field work of not less than eight hours duration is equivalent to one period per week for a batch of 15 students.

A candidate will be allowed to appear for the practical examinations only if he/she submits a certified journal of F.Y.B.Sc. Botany or a certificate from the Head of the department / Institute to the effect that the candidate has completed the practical course of F.Y.B.Sc. Botany as per the minimum requirements. In case of loss of journal a candidate must produce a certificate from the Head of the department /Institute that the practicals for the academic year were completed by the student. However such a candidate will be allowed to appear for the practical examination but the marks allotted for the journal will not be granted.

AC 26/2/2015 Item No. 4.33



S.Y.B.Sc. Botany Syllabus Restructured for Credit Based and Grading System To be implemented from the Academic year 2015-2016

Course Code	UNIT	TOPICS	Credits	L / Week
]	PLANT DIVERSITY II		
LIGDO201	Ι	Thallophyta- Algae		1
USBO301	II	Bryophyta	2	1
	III	Angiosperms		1
	FC	ORM AND FUNCTION II		
USBO302	Ι	Instrumentation and Techniques		1
	II	Cell Biology	2	1
	III	Cytogenetics		1
	<u>CUR</u>	<u>RENT TRENDS IN PLANT</u> <u>SCIENCES I</u>		
USBO303	Ι	Pharmacognosy&Phytochemi stry	2	1
	II	Forestry & Economic Botany		1
	III	Molecular Biology		1
USBOP3	Practical	based on all the three courses in theory	3	9

SEMESTER III

Course Code	UNIT	TOPICS	Credits	L / Week
]	PLANT DIVERSITY II		
USBO401	Ι	Thallophyta: Fungi, Plant Pathology and Lichens		1
	II	Pteridophyta and Paleobotany	2	1
	III	Gymnosperms		1
	FC	ORM AND FUNCTION II		
USBO402	Ι	Anatomy		1
	П	Physiology and Plant Biochemistry	2	1
	III	Ecology and Environmental Botany		1
	CURR	<u>ENT TRENDS IN BOTANY I</u>		
	Ι	Horticulture		1
USBO403	II	Biotechnology	2	1
	III	Biostatistics & Bioinformatics		1
USBOP4	Practical	based on all the three courses in theory	3	9

SEMESTER IV

<u>SEMESTER III</u> <u>THEORY</u>

Course Code	Title	Credits
USBO301	PLANT DIVERSITTY II	2 Credits (45 lectures)
Unit I : Thallon General Ch pigments sexual, A Structure, lif Dictyota Sargassum Pigments in	phyta- Algae aracters of Division Phaeophyta: Distribution, Cell structure, s, reserve food, range of thallus, reproduction: asexual and Alternation of Generations, Economic Importance. fe cycle and systematic position of Algae.	15 Lectures
Unit II : Bryon General Acc Structure, lit Antho Funa	bhyta count of Class Anthocerotae and Musci fe cycle and systematic position of <i>pceros</i> <i>ria</i>	15 Lectures
Unit III : Angi Morphology of Flower Mon Parts Flow Thala The a fc The H ar C OV A Flora With the he flowerin importan Magr Myrta Aster Apoc Amai Palm	osperms 'Flowering Plants rphology : of a flower, flower symmetry; er as a modified shoot, unus, insertion of floral leaves on the thalamus accessory whorls : Calyx types and modifications, Corolla – orms; Aestivation, The Perianth; Essential whorls: Androecium parts of the androecium, Number nd insertion of stamens, Union of stamens; Types of oronaGynoecium: the carpel, style and stigma; Union of Carpel; vary- placentation, types of ovules, evolution of placenta in ngiosperm. 1 formula, floral diagram. elp of Bentham and Hooker's system of classification for g plantsstudy the vegetative, floral characters and economic tee of the following families: noliaceae acceae ynaceae ranthaceae ae	15 Lectures

Course Code	Title	Credits
USBO302	FORM AND FUNCTION II	2 Credits
		(45 lectures)
Unit I : Instru Microscopy Chromatogi chromat Principles a	mentation and Techniques – Principle and working of Light, and electron microscope. raphy- Principles and techniques in paper and thin layer ography. nd techniquesof Horizontal and Vertical electrophoresis.	15 Lectures
Unit II : Cell I Ultra Struct	<u>Biology</u> ure and functions of the following cell organelles:	
Mito	chondrion	
Glvc	xisomes	
Ribo	somes	
Cell Divisio	on and its significance	15 Lectures
Cell	Cycle	
Mito	sis &Meiosis	
Diffe	erences between Mitosis and Meiosis	
Nucleic Act	ids: Types, structure and functions of	
DNA	Ν	
RNA	<u> </u>	
<u>Unit III : Cyto</u>	ogenetics	
Variation i Defin Delet Variation i	n Chromosome structure (Chromosomal Aberrations) ition, Origin, Cytological and Genetic Effects of the following: ions, Duplications, Inversions and Translocations. In Chromosome Number Origin and production, morphological	
of An allopoly	euploids and Euploids(Monoploids, Autopolyploids and ploids)	15 Lectures
Extranucle	ar Genetics	
Organell	e heredity-	
Chlor Str	oplast determines heredity -Plastid transmission in plants, eptomycin resistance in <i>Chlamydomonas</i> .	
Mitoc	chondrion determined heredity- petite colonies in yeast	

Course Code	Title	Credits
USBO303	CURRENT TRENDS IN PLANT SCIENCES I	2 Credits (45 lectures)
Unit I : Pharm	acognosy and Phytochemistry	
Introduction	n to pharmacopoeia	
Study of se	condary metabolites (sources, properties and uses) with	
referenc	e to	
Alka	loids,	15 Lectures
Glyc	osides,	
Tanr	ins,	
Vola	tile oils and	
Gum	s and resins (example of one plant for each category)	
Unit II : Fore	stry and Economic Botany	
Types of fo	rests – classification of forests, different types of forests in	
India		
Application	is of forestry- Social forestry, Reforestation, Aforestation,	
Defores	tation.	
Economic	Botany:	15 Lectures
Fibre	es: Types of fibres, fibre yielding plants	
Pape	r: Types of paper, paper yielding plants, paper processing.	
Spic	es and condiments: Nutmeg, Mace, Clove, Cardamom and affron	
Unit III: Mol	ecular Biology	
DNA replic	eation : Replication(prokaryotic and eukaryotic)	
Protein Sy	nthesis:	
Cent	ral dogma of Protein synthesis	15 Lectures
Tran	scription: The transcription process in prokaryotes and	15 Lectures
e	ukaryotes, RNA synthesis, RNA processing, Adenylation&	
C	apping.	

SEMESTER III PRACTICAL

Semester III USBOP3	Cr
PRACTICAL Paper I – Plant Diversity II	<u> </u>
Algae	
Study of stages in the life cycle of <i>Dictyota</i> from fresh/ preserved materialand permanent slides.	
Study of stages in the life cycle of <i>Sargassum</i> from fresh/ preserved materialand permanent slides.	
Economic importance and range of thallusinPhaeophyta	
Bryophyta	
Study of stages in the life cycle of <i>Anthoceros</i> from fresh/ preserved materialand permanent slides.	
Study of stages in the life cycle of <i>Funaria</i> from fresh/ preserved material and permanent slides.	
Angiosperms	
Study of Floral Morphology	
7- Study of one plant from each family prescribed for theory: morphological9. peculiarities and economic importance of the members of these families.	

Semester III USBOP3	Cr
PRACTICAL Paper II – FORM AND FUNCTION- II	1
Instrumentation and Techniques	
Preparation of herbarium and wet preservation technique	
Chromatography: Separation of amino by circular paper chromatography	
Separation of Carotenoids by thin layer chromatography	
Horizontal and Vertical Gel Electrophoresis – Demonstration	
Cell Biology	
Study of the ultra-structure of cell organelles prescribed for theory from	
Photomicrographs	
Estimation of DNA from plant material (one Std& one Unknown, No Std	
Graph)	
Estimation of RNA from plant material (one Std& one Unknown, NoStd	
Graph)	
Cytogenetics	
Study of inheritance pattern with reference to Plastid Inheritance	
9Aberrations karyotypes - Cri – du- chat, Philadelphia, D-G translocation,	
DownSyndrome.	

PRACTICAL - Paper III CURRENT TRENDS IN PLANT SCIENCES I 1 Pharmacognosy 1	PRACTICAL - Paper III CURRENT TRENDS IN PLANT SCIENCES I 1 Pharmacognosy
Pharmacognosy	Dhanmaaagnagy
1 nur muco Shosy	r nar macognosy
A. Tests for alkaloids from <i>Strychnos</i> (seeds) and <i>Holarrhena</i> (bark)	A. Tests for alkaloids from <i>Strychnos</i> (seeds) and <i>Holarrhena</i> (bark)
B. Tests for glycosides from <i>Glycyrrhizarhizome/ Aloe</i> leaf/ Senna leaf.	B. Tests for glycosides from Glycyrrhizarhizome/ Aloe leaf/ Senna leaf.
Preparation of any herbal cosmetic.(Demonstration)	Preparation of any herbal cosmetic. (Demonstration)
Stomatal Index	Stomatal Index
Palisade Ratio, Vein islet number	Palisade Ratio, Vein islet number
Forestry and Economic Botany	Forestry and Economic Botany
Study of Biodiversity Composition of different types of forests in India	Study of Biodiversity Composition of different types of forests in India
(tropical, subtropical & temperate)	(tropical, subtropical & temperate)
Sources, properties and uses of : fibres & paper	Sources, properties and uses of : fibres & paper
Sources, properties and uses of spices and condiments	Sources, properties and uses of spices and condiments
Molecular Biology	Molecular Biology
DNA sequencing- Sanger's method	DNA sequencing- Sanger's method
Determining the sequence of amino acids in the protein molecule	Determining the sequence of amino acids in the protein molecule
synthesised from the given m-RNA strand (prokaryotic and eukaryotic)	synthesised from the given m-RNA strand (prokaryotic and eukaryotic)
SEMESTER IV THEORY

Course Code	Title	Credits
USBO401	PLANT DIVERSITY II	2 Credits
		(45 lectures)
Unit II : Thall Fungi- General cha Structure, li Erysiphe and X Plant Patholog Symptoms, Powe Late Lichens- Classificatio Ecologio	 ophyta: Fungi. Plant Pathology and Lichens racters of Ascomycetae fe cycle and systematic position of <i>tylaria</i> <u>ty-</u> causative organism, disease cycle and control measures of dery mildew and blight of potato on, Structure, Method of Reproduction, Economic Importanceand causificance of Lichens. 	15 Lectures
Unit II : Pterio Pteridophyta- Salient feat Psilophy followed Structure, 1 Paleobotany- The geologi Formation a Structure an	dophyta and Paleobotany ures and classification upto orders (with examples of each) of ta and Lepidophyta (G M Smith's system of classification to be d), ife cycle and systematic position of <i>Selaginella</i> cal time scale; and types of fossils; id systematic position of form genus <i>Rhynia</i>	15 Lectures
Unit III : Gym Salient feat economi classific Structure lif Structure ar	ures, classification up to orders (with examples of each) and ic importance of Coniferophyta (Chamberlain's system of ation to be followed) The cycle and systematic position of <i>Pinus</i> and systematic position of the form genus <i>Cordaites</i>	15 Lectures

Syllabus for the S.Y.B.Sc. Program: B.Sc.Course : BOTANY

Course Code	Title	Credits
USBO402 FORM AND FUNCTION II		2 Credits (45 lectures)
Unit I : Anato	<u>my</u>	
Normal Sec	ondary Growth in Dicotyledonous stem and root.	
Secondary g	growth in Monocot stem – Dracaena.	
Mechanical	Tissue system	
Tissu	tes providing mechanical strength and support and their isposition	15 Lectures
I-gir	ders in aerial and underground organs	
Conducting	tissue system :	
Xyle	m and its elements,	
Phlo	em and its elements	
Туре	es of Vascular Bundles.	
<u>Unit II : Plant</u>	Physiology and Plant Biochemistry	
Respiration	n: Aerobic: Glycolysis, TCA Cycle, ETS & Energetic of	
respirati	on; Anaerobic respiration.	
Photorespi	ration	
Photoperio	dism:Phytochrome Response and Vernalization with reference to	15 Lectures
flowerin	g in higher plants, Physico-chemical properties of phytochrome,	
Pr-Pfrin	terconversion, role of phytochrome in flowering of SDPs and	
LDPs;		
Vernalizat	ion mechanisms and applications.	
<u>Unit III : Ecol</u>	<u>ogy and Environmental Botany</u>	
Biogeocher	nical Cycles- Carbon, Nitrogen and Water.	
Ecological	factors: Concept of environmental factors. Soil as an edaphic	15 Lectures
factor, S	oil composition, types of soil, soil formation, soil profile.	15 Lectures
Community	ecology- Characters of community - Quantitative charactersand	
qualitati	ve characters	

Course Code	Title	Credits
USBO403	CURRENT TRENDS IN PLANT SCIENCES I	2 Credits (45 lectures)
Unit I : Hortic	ulture and Gardening	
Introductio	n to Horticulture:Branches of Horticulture	
Gardening		
Loca	tions in the garden- edges, hedges, lawn, flower beds, avenue,	
W	rater garden (with names of two plants for eachcategory). Focal	15 Lectures
p	oint.	15 Lectures
Types of ga	rdens	
Form	al and informal gardens,	
Natio	onal Park: Sanjay Gandhi National Park.	
Bota	nical Garden: Veer Mata JijabaiUdyan (Victoria Garden).	
Unit II : Biote	<u>chnology</u>	
Introductio	n to plant tissue culture	
Labo	ratory organization and techniques in plant tissue culture	
Totip	ootency	
Orga	nogenesis	
Orga	n culture – root cultures, meristem cultures, anther and pollen ulture, embryo culture.	15 Lectures
R-DNA	technology-	
0	ene cloning	
Enzy	mes involved in Gene cloning	
Vect	ors used for Gene cloning.	
Unit III : Biost	atistics and Bioinformatics	
Biostatistic	s:	
The	chi square test.	
Corr	elation – Calculation of coefficient of correlation.	
Bioinforma	tics	
Infor u	mation technology: History and tools of IT, Internet and its ses.	15 Lectures
Intro Aims B	duction to Bioinformatics- goal, need, scope and limitation of Bioinformatics: Data organization, Tools of ioinformatics- tools for web search, Data retrieval tools- Entrez,	
BLA	oformatics programme in India	
DIUII	normanos programme in maia.	

SEMESTER IV PRACTICAL

Semester IV USBOTP4	Cr
PRACTICAL Paper I – Plant Diversity	
Fungi and Plant Pathology	
Study of stages in the life cycle of <i>Erysiphe</i> from fresh/ preserved material and	
permanent slides.	
Study of stages in the life cycle of Xylaria from fresh/ preserved material and	
permanent slides.	
Study of fungal diseases as prescribed for theory.	
Study ofLichens (crustose, foliose, &fruiticose).	
Pteridophyta and Palaeobotany	
5-6 Study of stages in the life cycle of <i>Selaginella</i> from fresh/ preserved material	
and permanent slides.	
7 Study of form genera <i>Rhynia</i> with the help of permanent slides/	
photomicrographs.	
Gymnosperms	
8- Study of stages in the life cycle of <i>Pinus</i> from fresh/ preserved material and	
permanent slides.	
Study of the form genus Cordaites with the help of permanent slide/	
photomicrographs.	

SEMESTER IV USBOT P4	Cr
PRACTICALS Paper II – FORM AND FUNCTION- II	1
Anatomy	
Study of normal secondary growth in the stem and root of a	
Dicotyledonous plant	
Study of secondary growth in monocot stem (Dracena).	
Types of mechanical tissues, mechanical tissue system in aerial,	
Study of conducting tissues. Vylam and phloom claments in	
Study of conducting tissues- Aylem and phoem elements in	
Gymnosperms and Angiosperms as seen in LS and through maceration	
technique.	
Study of different types of vascular bundles.	
Plant Physiology and Plant Biochemistry	
Q ₁₀ – germinating seeds using Phenol redindicator	
NR activity – <i>in-vivo</i>	
Estimation of proteins by Lowry's method (Prepare standard graph).	
Ecology and Environmental Botany	
Study of the working of the following Ecological Instruments- Soil	
thermometer, Soil testing kit, Soil pH, Wind anemometer.	
Mechanical analysis of soil by the sieve method & pH of soil.	
Quantitative estimation of organic matter of the soil by Walkley and Blacks Banid titration method	
Study of vacatation by the list quadrat mathed	
Study of vegetation by the list quadrat method	

Cr
SEMESTER IV USBOP4
PRACTICALS - Paper III – CURRENT TRENTS IN PLANT SCIENCES <u>1</u>
Horticulture
Study of five examples of plants for each of the garden locations as prescribed for
theory
Preparation of garden plans – formal and informal gardens
Bottle and dish garden preparation.
Biotechnology
Various sterilization techniques
Preparation of Stock solutions, Preparation of MS medium.
Seed sterilization, callus induction
Regeneration of plantlet from callus
Identification of the cloning vectors – pBR322, pUC 18, Ti plasmid.
Biostatistics and Bioinformatics
Chi square test
Calculation of coefficient of correlation
Web Search – Google, Entrez.
BLAST



SEMESTER - III, , S.Y.B.Sc. BOTANY PRACTICAL SKELETON PAPER (PROPOSED)

TIME - 2 hours 15 min PAPER – I T	otal Marks – 50
Identify, Classify and describe specimen 'A' . Sketch neat and labeled diagram.	(10)
Identify, Classify and describe specimen 'B'. Sketch neat and labeled diagram.	(10)
Assign the specimen 'C' to its family giving reasons. Give the distinguishing cha	aracters, floral
Diagramand floral formula. Sketch the L.S. of flower and T.S. of ovary. (10)	
Identify and describe the specimen/ slide/ photograph -'D', 'E', 'F', 'G' and 'H'	' . (15)
Journal.	(05)
<u>KEY :</u>	
– Dictyota / Sargasum	
–Anthoceros / Funaria	
Any Angiospermic Family as per syllabus.	
Algae – economic importance / range of thallus in Phaeophyta	
Anthoceros / Funaria	
Calyx / Corolla (any one type)	
Androecium / Gynoecium (any one type)	
Economic importance or morphological peculiarity of any one family.	

SEMESTER - III, , S.Y.B.Sc. BOTANY PRACTICAL SKELETON PAPER (PROPOSED)

		5207	
TIME - 2 hours 15 min	PAPER – II	Total Ma	arks — 50
Q.1. To Separate given material 'A' by any ap	propriate chromatog	raphy technique .	(10)
Q.2. To estimate DNA/ RNA from the given sa	ample 'B'.		(10)
Q.3. Make an Idiogram from the given Karyot	:ype 'C'. Identify and e	enlist the symptoms	
of the chromosomal abberation.			(10)
Q.4. Identify and describe the specimen/ pho	tograph - 'D' (05), 'E'	(05) and	
'F' (05 or 03 + 02).			(15)
Q.5. Field Report.			(05)
<u>KEY :</u>			
A. – Carotenoids/amino acids			
Cauliflower			
Cri-du-chat; Philadelphia; D-G translocation,	DownSyndrome		
Electrophoresis			
Dry or wet preservation			
Cell organelles / Plastid inheritance.			

SEMESTER - III, , S.Y.B.Sc. BOTANY PRACTICAL SKELETON PAPER (PROPOSED)

TIME - 2 hours 15 min	PAPER – III	Total Marks – 50	
Q.1. a). Identify the active constituents present in specimen 'A' by performing suitable			
chemical tests.		(08)	
b).Calculate the stomatal index	/ palisade ratio / vein – islet numbers fr	om the	
given specimen 'B' .		(07)	
Describe the ecological factors,	, enlist the dominant flora and mark the	e area on the map	
of a forest type 'C' .		(10)	
Determine the sequence of bas	es in a DNA strand by Sanger's method	from the	
given data 'D'or Determ	ine the sequence of amino acids in the	polypeptide synthesized	
from the given m-RNAst	rand 'D' (08)		
Identify and describe the specir	men/ slide/ photograph - 'E', 'F' , and '(G'. (12)	
Viva - Voce.		(05)	
<u>KEY :</u>			
Alkaloids / Glycosides.			
Betel leaf / Vincaleaf.			
Importance of	in herbal cosmetics.		
Fibres / Paper.			
Spices / Condiments.			

SEMESTER - IV, , S.Y.B.Sc. BOTANY PRACTICAL SKELETON PAPER (PROPOSED)

TIME - 2hours 15 min	PAPER – I	Total Marks – 50
Identify, Classify and describe speci	men 'A' . Sketch neat and labeled diagram.	(10)
Identify, Classify and describe speci	men 'B' . Sketch neat and labeled diagram.	(10)
Identify, Classify and describe speci	men 'C' .Sketch neat and labeled diagram.	(10)
Identify and describe the specimen,	/ slide/ photograph - 'D', 'E' and 'F' .	(15)
Journal.		(05)
<u>KEY :</u>		
– Xylaria / Erysiphe		
–Selaginella – Stem / strobilus		
Pinus – needle / stem / male cone.		
Fungal disease – Powdery mildev	w / any other disease as per syllabus.	
Lichen.		
Rhynia / Cordaites.		

SEMESTER - IV, ,S.Y.B.Sc. BOTANY

PRACTICAL SKELETON PAPER (PROPOSED)

TIME - 2hours 15 minPAPER - IITotal Marks - 501. a)Make a temperatu stained proparation of T.S. of specimen 'A' and comment

Q.1. a). Make a temporary stained preparation of T.S. of specimen **'A'** and comment on the secondary growth . (10)

b). Make a temporary stained preparation of T.S. of specimen **'B'** and commenton the mechanical tissue system .

OR

Macerate the given material 'B' and describe the conducting tissue seen.	(05)
Perform the Physiological experiment 'C' allotted to you .	(12)
Perform the Ecological experiment 'D' allotted to you .	(12)
Identify and describe the specimen/ slide/ photograph - 'E', and 'F' .	(06)
Viva - Voce.	(05)
KEY :	

- Dicot stem/ dicot root / monocot stem.

-Mechanical Tissue (*Coleus stem, Typha leaf, Maize stem and* Maize root /*Annona* / *Magnolia*formaceration).

E. – Vascular bundles / phloem/xXylem.

F. – Ecological Instrument.

SEMESTER - IV, , S.Y.B.Sc. BOTANY PRACTICAL SKELETON PAPER (PROPOSED)

50

TIME - 2hours 15 min	PAPER – III	Total Marks –
Prepare a garden plan 'A' . Mention ar	ny three garden locations with	suitableplants
(Botanical names). (10)		
Prepare MS medium <u>OR</u> Perform seed	d sterilization technique 'B' .	(08)
a). Perform Chi- square test OR Coeffic	cient of Correlation using the g	given data 'C' and
analyse the results .	(12)	
Q.3.b). Perform the experiment 'D' re	elated to Web search.	(06)
Q.4.a). Identify and describe the spec	imen/ photograph - 'E'	(05)
Q.4.b). Identify and describe the spec	cimen/ photograph - 'F', 'G' a	and 'H'. (09)
<u>KEY :</u>		
Bottle or dish garden.		
Sterilization Technique.		
Cloning Vectors.		

Bioinform

Chapter 7

SYLLABUS FOR MATHEMATICAL AND STATISTICAL TECHNIQUES AT <u>F.Y.B.Com. EXAMINATION</u> <u>Revised Course</u> (WITH EFFECT FROM THE ACADEMIC YEAR 2016-2017)

Why Revision?

There is a Rapid expansion of knowledge in subject matter areas and improved instructional method during last decade. There are considerable curricular revisions happening at the high school level. Application of Mathematics and Statistics are widely used in industry and business. Keeping this in mind, a revision of syllabus required in accordance with the growth of subject of at the high school level and emerging needs of industry and its application.

Objective:

The main objective of this course is to introduce mathematics and statistics to undergraduate students of commerce, so that they can use them in the field of commerce and industry to solve the real life problems.

Distribution of topics and lectures

Workload :

Theory: 5 lectures per week of which 2 lectures are for Mathematics and 3 lectures for Statistics.

Tutorial: 1 lecture per week per batch. Batch size is as prescribed by the University. **No. of working weeks** in a semester: 15

Total no. of lectures in a semester: 15 * 5 = 75

Introductory lecture of about 120 minutes may be arranged for students who did not offer general mathematics in the 9th & 10th Standard and/or Mathematics at the XIth and XIIth to familiarize the students with the concept of Tabulation, Graphical Representation of the data (basically Histogram and Ogives)

Semester 1				
Course	Topic	No. of lectures		
UBCOMFSI.6	Unit I	15		
Mathematical	Unit II	15		
and	Unit III	15		
Statistical	Unit IV	15		
Techniques-I	Unit V	15		
	Total	75		

Semester	I
SUMUSIUI	

Total number of lectures 75 +Notional75=150 lectures = 3 CREDITS

Semester II

Semester II					
Course	Topic	No. of lectures			
UBCOMFSII.6	Unit I	15			
Mathematical	Unit II	15			

and	Unit III	15
Statistical	Unit IV	15
Techniques-II	Unit V	15
	Total	75

Total number of lectures 75 +Notional 75=150 lectures = 3 CREDITS

MATHEMATICAL AND STATISTICAL TECHNIOUES

WORKLOAD: MATHEMATICS : 2 lectures per week STATISTICS

TUTORIAL

: 3 lectures per week : 1 per week

Tutorial batch size : 25 Students

Semester I **Course: UBCOMFSI.6 Mathematical and Statistical Techniques-I** [A] MATHEMATICS: (40 marks)

Unit I: Shares and Mutual Funds

Shares: Concept of share, face value, market value, dividend, equity shares, preferential shares, bonus shares. Simple examples.

Mutual Funds: Simple problems on calculation of Net income after considering entry load, dividend, change in Net Asset Value (N.A.V.) and exit load. Averaging of price under the Systematic Investment Plan (S.I.P.)

Unit II: Permutation, Combination and Linear Programming Problems:

Permutation and Combination: Factorial Notation, Fundamental principle of counting, Permutation as arrangement, Simple examples, combination as selection, Simple

examples, Relation between ${}^{n}C_{r}$ and ${}^{n}P_{r}$ Examples on commercial application of permutation and combination.

Linear Programming Problem: Sketching of graphs of (i) linear equation Ax + By + C

= 0 (ii) linear inequalities. Mathematical Formulation of Linear Programming Problems upto 3 variables. Solution of Linear Programming Problems using graphical method up to two variables.

STATISTICS: (60 marks)

Unit III: Summarization Measures:

- Measures of Central Tendencies: Definition of Average, Types of Averages: Arithmetic Mean, Median, and Mode for grouped as well as ungrouped data. Quartiles, Deciles and Percentiles. Using Ogive locate median and Quartiles. Using Histogram locate mode. Combined and Weighted mean.
- Measures of Dispersions: Concept and idea of dispersion. Various measures Range, Quartile Deviation, Mean Deviation, Standard Deviation, Variance, Combined Variance.

Unit IV: Elementary Probability Theory:

Probability Theory: Concept of random experiment/trial and possible outcomes; Sample Space and Discrete Sample Space; Events their types, Algebra of Events, Mutually Exclusive and Exhaustive Events, Complimentary events.

Classical definition of Probability, Addition theorem (without proof), conditional probability.

Independence of Events: $P(A \cap B) = P(A) P(B)$. Simple examples.

Random Variable: Probability distribution of a discrete random variable; Expectation and Variance of random variable, simple examples on probability distributions.

Unit V: Decision Theory:

Decision making situation, Decision maker, Courses of Action, States of Nature, Pay-off and Pay-off matrix; Decision making under uncertainty, Maximin, Maximax, Minimax regret and Laplace criteria; simple examples to find optimum decision. Formulation of Payoff Matrix. Decision making under Risk, Expected Monetary Value (EMV); Decision Tree; Simple Examples based on EMV. Expected Opportunity Loss (EOL), simple examples based on EOL.

Semester II Course: UBCOMFSII.6 Mathematical and Statistical Techniques-II

[A] MATHEMATICS : (40 marks)

Unit I: Functions, Derivatives and Their Applications

Concept of real functions: constant function, linear function, x^n , e^x , a^x , $\log x$.

Demand, Supply, Total Revenue, Average Revenue, Total cost, Average cost and Profit function. Equilibrium Point, Break-even point.

Derivative of functions:

Derivative as rate measure, Derivative of x^n , e^x , a^x , $\log x$.

- Rules of derivatives: Scalar multiplication, sum, difference, product, quotient (Statements only), Simple problems. Second order derivatives.
- Applications: Marginal Cost, Marginal Revenue, Elasticity of Demand. Maxima and Minima for functions in Economics and Commerce.

(Examination Questions on this unit should be application oriented only.)

Unit II: Interest and Annuity:

Interest: Simple Interest, Compound Interest (Nominal & Effective Rate of Interest),. Calculations involving upto 4 time periods.

Annuity: Annuity Immediate and its Present value, Future value. Equated Monthly Installments (EMI) using reducing balance method & amortization of loans. Stated Annual Rate & Affective Annual Rate Perpetuity and its present value. Simple problems involving up to 4 time periods.

STATISTICS: (60 marks)

Unit III: Bivariate Linear Correlation and Regression

- **Correlation Analysis:** Meaning, Types of Correlation, Determination of Correlation: Scatter diagram, Karl Pearson's method of Correlation Coefficient (excluding Bivariate Frequency Distribution Table) and Spearman's Rank Correlation Coefficient.
- **Regression Analysis:** Meaning, Concept of Regression equations, Slope of the Regression Line and its interpretation. Regression Coefficients (excluding Bivariate Frequency Distribution Table), Relationship between Coefficient of Correlation and Regression Coefficients, Finding the equations of Regression lines by method of Least Squares.

Unit IV : Time series and Index Numbers

- **Time series**: Concepts and components of a time series. Representation of trend by Freehand Curve Method, Estimation of Trend using Moving Average Method and Least Squares Method (Linear Trend only). Estimation of Seasonal Component using Simple Arithmetic Mean for Additive Model only (For Trend free data only). Concept of Forecasting using Least Squares Method.
- **Index Numbers:** Concept and usage of Index numbers, Types of Index numbers, Aggregate and Relative Index Numbers, Lasperye's, Paasche's, Dorbisch-Bowley's, Marshall-Edgeworth and Fisher's ideal index numbers, Test of Consistency: Time Reversal Test and Factor Reversal Test. Chain Base Index Nos. Shifting of Base year. Cost of Living Index Numbers, Concept of Real Income, Concept of Wholesale Price Index Number. (Examples on missing values should not be taken)

Unit V: Elementary Probability Distributions

Probability Distributions:

- Discrete Probability Distribution: Binomial, Poisson (Properties and applications only, no derivations are expected)
- Continuous Probability distribution: Normal Distribution. (Properties and applications only, no derivations are expected)

<u>Tutorial:</u>

Two tutorials to be conducted on each unit i.e. 10 tutorials per semester. At the end of each semester one Tutorial assignment of 10 marks should be given.

Examination:

Semester End Examination: 100 marks

At the end of each semester, there will be a Semester End Examination of 100 marks, 3 hours duration and question paper pattern as shown below.

Question Paper Pattern :(Course: UBCOMFSI.6 and Course: UBCOMFSII.6)

- In Section I (based on Mathematics), Two questions carrying 20 marks each. First question should be on Unit I and Second question should be from Unit II.
- In each question there should be five sub-questions carrying 5 marks each. Students should be asked to answer any 4 sub questions from each question.
- In Section II (based on Statistics), Three questions carrying 20 marks each. First question should be on Unit III, Second question should be from Unit IV and thirdquestion should be from Unit V.
- In each question there should be five sub-questions carrying 5 marks each. Students should be asked to answer any 4 sub questions from each question.

Reference Books:

- Mathematics for Economics and Finance Methods and Modelling by Martin Anthony and Norman Biggs, Cambridge University Press, Cambridge low-priced edition, 2000, Chapters 1, 2,4, 6 to 9 & 10.
- Applied Calculus: By Stephen Waner and Steven Constenoble, Brooks/Cole Thomson Learning, second edition, Chapter 1 to 5.
- Business Mathematics By D. C. Sancheti and V. K. Kapoor, Sultan Chand & Sons, 2006, Chapter 1,5, 7, 9 &10.
- Mathematics for Business Economics: By J. D. Gupta, P. K. Gupta and Man Mohan, Tata Mc-Graw Hill Publishing Co. Ltd., 1987, Chapters 9 to 11 & 16.
- Quantitative Methods-Part-I By S. Saha and S. Mukerji, New Central Book Agency, 1996, Chapters 7 & 12.
- Mathematical Basis of Life Insurance By S.P. Dixit, C.S. Modi and R.V. Joshi, Insurance Institute ofIndia, Chapters 2: units 2.6, 2.9, 2.20 & 2.21.
- Securities Laws & Regulation of Financial Market : Intermediate Course Paper 8, Institute of Company Secretaries of India, Chapter 11.
- Investments By J.C. Francis & R.W. Taylor, Schaum's Outlines, Tata Mc-Graw Hill Edition 2000, Chapters 2,4 & section 25.1.
- Indian Mutual Funds Handbook : By Sundar Shankaran, Vision Books, 2006, Sections 1.7,1.8.1, 6.5 & Annexures 1.1to 1.3.
- STATISTICS by Schaum Series.
- Operations Research by Gupta and Kapoor
- **Operations Research by Schaum Series**
- Fundamentals of Statistics D. N. Elhance.
- Statistical Methods S.G. Gupta (S. Chand & Co.
- Statistics for Management Lovin R. Rubin D.S. (Prentice Hall of India)
- Statistics Theory, Method & Applications D.S.Sancheti & V. K. Kapoor.
- Modern Business Statistics (Revised)-B. Pearles & C. Sullivan Prentice Hall of India.

Business Mathematics & Statistics : B Aggarwal, Ane Book Pvt. Limited Business Mathematics : D C Sancheti & V K Kapoor, Sultan Chand & Sons Business Mathematics : A P Verma, Asian Books Pvt. :Limited.

QUESTION PAPER – SET I

MARKS:- 100 TIME:- 3 HRS

N.B: (1) ALL QUESTION ARE COMPALSORY

- (2) ALL QUESTION CARRY EQUAL MARKS
- (3) FIGURES TO THE RIGHT INDICATES MARKS TO A SUB-QUESTION.
- (4) GRAPGH PAPER WILL BE SUPPLIED ON REQUEST.
- (5) USE OF NON-PROGRAMMABLE CALCULATOR IS ALLOWED.

SECTION-I

Q.1 ATTEMPT ANY FOUR OF THE FOLLOWING

(a) 5 Marks (b) 5 Marks (c) 5 Marks (d) 5 Marks (e) 5 Marks 20 Marks

Q.2 ATTEMPT ANY FOUR OF THE FOLLOWING

(a) 5 Marks (b) 5 Marks (c) 5 Marks (d) 5 Marks (e) 5 Marks 20 Marks

SECTION-II

Q.3 ATTEMPT ANY FOUR OF THE FOLLOWING	
(a) 5 Marks (b) 5 Marks (c) 5 Marks (d) 5 Marks (e) 5 Marks	20 Marks
Q.4 ATTEMPT ANY FOUR OF THE FOLLOWING	
(a) 5 Marks (b) 5 Marks (c) 5 Marks (d) 5 Marks (e) 5 Marks	20 Marks
Q.5 ATTEMPT ANY FOUR OF THE FOLLOWING	
(a) 5 Marks (b) 5 Marks (c) 5 Marks (d) 5 Marks (e) 5 Marks	20 Marks

Aniversity of Alumbai



No. UG/ 7 of 2020-21

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Humanities, Science & Technology Faculty is invited to this office circular No.UG/57 of 2018-19, dated 6th July, 2018 relating to the revised syllabus for the F.Y.B.Sc/F.Y.B.A. in Mathematics (Sem. I & II).

They are hereby informed that the recommendations made by the Board of Studies in Mathematics at its meeting held on 11^{th} March, 2020 <u>vide</u> item No.1 and subsequently made by the Board of Deans at its meeting held on 20^{th} July, 2020 <u>vide</u> item No.54 have been accepted by the Academic Council at its meeting held on 23^{td} July, 2020 <u>vide</u> item No. 4.106 and that in accordance therewith, the revised sylfabus practical book of F.Y. B.Sc./ F.Y.B.A. in Mathematics under the (CBCS) in 75:25 pattern has been brought into force with effect from the academic year 2020 -21 accordingly. (The same is available on the University's website <u>www.mu.ac.in</u>).

MUMBAI - 400 032 M⁴ November, 2020 To

The Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities, Science & Technology Faculty. (Circular No.UG/334 of 2017-18 dated 9th January, 2018.)

A.C/4.106/23/07/2020

No. UG/ (年 -A of 2020-21 MUMBAI-4 Copy forwarded with Compliments for information to:-

MUMBAI-400 032

1) The Dean, Faculty of Humanities, Science & Technology,

- 2) The Chairman, Board of Studies in Mathematics,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-ordinator, University Computerization Centre,

(Dr. Vinod Patil) I/c REGISTRAR

November, 2020

(Dr. Vinod Patil)

I/c REGISTRAR

Copy to :-

- 1. The Director of Board of Student Development.,
- 2. The Deputy Registrar (Eligibility and Migration Section)
- 3. The Director of Students Welfare,
- 4. The Executive Secretary to the to the Vice-Chancellor,
- 5. The Pro-Vice-Chancellor
- 6. The Registrar and
- 7 The Assistant Registrar, Administrative sub-centers, Ratnagiri, Thane & Kalyan, for information.
- **1.** The Director of Board of Examinations and Evaluation
- 2. The Finance and Accounts Officers
- **3. Record Section**
- 4. Publications Section
- 5. The Deputy Registrar, Enrolment, Eligibility and Migration Section
- 6. The Deputy Registrar (Accounts Section), Vidyanagari
- 7. The Deputy Registrar, Affiliation Section
- 8. The Professor-cum- Director, Institute of Distance and Open Learning Education,
- 9. The Director University Computer Center (IDE Building), Vidyanagari,
- 10. The Deputy Registrar (Special Cell),
- **11.** The Deputy Registrar, (PRO)
- 12. The Deputy Registrar, Academic Authorities Unit (1 copies) and
- **13.** The Assistant Registrar, Executive Authorities Unit

They are requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to in the above circular and that on separate Action Taken Report will be sent in this connection.

1. The Assistant Registrar Constituent Colleges Unit

- 2. BUCTU
- 3. The Deputy Accountant, Unit V
- 4. The In-charge Director, Centralize Computing Facility
- 5. The Receptionist
- 6. The Telephone Operator
- 7. The Secretary MUASA
- 8. The Superintendent, Post-Graduate Section
- 9. The Superintendent, Thesis Section

for information.

UNIVERSITY OF MUMBAI

Syllabus

for F. Y. B. Sc. / F. Y. B. A. Semester I & II (CBCS)

Program: B. Sc. / B. A.

Course: Mathematics

with effect from the academic year 2020-2021

F. Y. B. Sc. (CBCS) SEMESTER I

CALCULUS I							
Course Code	Course Code UNIT TOPICS Credit						
	I	Real Number System					
USMT 101	11	Sequences in R	2	3			
		First Order First Degree Differential Equations					
	ALGEBRA I						
USMT 102	I	Integers and Divisibility		3			
	11	Functions, Relations and	2				
		Binary Operations	2				
		Polynomials					
PRACTICALS							
USMTP01	-	Practicals based on	2	2			
		USMT101, USMT102	-	-			

F. Y. B. A. (CBCS) SEMESTER I

CALCULUS I						
Course Code	Credits	L/Week				
	I	Real Number System				
UAMT 101	1	Real Sequences	3	3		
111		First Order First Degree Differential Equations				
Tutorials						

F. Y. B. Sc. (CBCS) SEMESTER II

CALCULUS II						
Course Code	UNIT	TOPICS	Credits	L/Week		
I Limits and Continuity						
	11	Differentiability of functions				
USMT 201	111	Applications of Differentiability	2	3		
DISCRETE MATHEMATICS						
	I	Preliminary Counting				
USMT 202		Advanced Counting	2	3		
	111	Permutations and Recurrence Relation				
PRACTICALS						
	-	Practicals based on	2	2		
031011702		USMT201, USMT202	2	2		

F.	Υ.	В.	Α.	(CBCS)	SEMESTER	11
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CALCULUS II						
Course Code	UNIT	TOPICS	Credits	L/Week		
	I	Limits and Continuity				
	- 11	Differentiability of functions				
UAMT 201	111	Applications of Differentiability	3	3		
TUTORIALS						
	-	Tutorials based on				
		UAMT201				

Revised Syllabus in Mathematics Choice Based Credit System F. Y. B. Sc. / B. A. 2020-2021

Preamble:

The University of Mumbai has brought into force the revised syllabi as per the Choice Based Credit System (CBCS) for the First year B. Sc/ B. A. Programme in Mathematics from the academic year 2020-2021.

Mathematics has been fundamental to the development of science and technology. In recent decades, the extent of application of Mathematics to real world problems has increased by leaps and bounds. Taking into consideration the rapid changes in science and technology and new approaches in different areas of mathematics and related subjects like Physics, Statistics and Computer Sciences, the board of studies in Mathematics with concern of teachers of Mathematics from different colleges affiliated to University of Mumbai has prepared the syllabus of F.Y.B. Sc. / F. Y. B. A. Mathematics. The present syllabi of F. Y. B. Sc. for Semester I and Semester II has been designed as per U. G. C. Model curriculum so that the students learn Mathematics needed for these branches, learn basic concepts of Mathematics and are exposed to rigorous methods gently and slowly. The syllabi of F. Y. B. Sc. / F. Y. B. A. would consist of two semesters and each semester for F. Y. B. A. Mathematics. Courses for F. Y. B. Sc. Mathematics and one course for each semester for F. Y. B. A. Mathematics. Course I is 'Calculus I and Calculus II'. Calculus is applied and needed in every conceivable branch of science. Course II, 'Algebra I and Discrete Mathematics' develops mathematical reasoning and logical thinking and has applications in science and technology.

Aims:

- (1) Give the students a sufficient knowledge of fundamental principles, methods and a clear perception of innumerous power of mathematical ideas and tools and know how to use them by modeling, solving and interpreting.
- (2) Reflecting the broad nature of the subject and developing mathematical tools for continuing further study in various fields of science.
- (3) Enhancing students' overall development and to equip them with mathematical modeling abilities, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
- (4) A student should get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences

Course outcomes:

- 1. Calculus (Sem I & II): This course gives introduction to basic concepts of Analysis with rigor and prepares students to study further courses in Analysis. Formal proofs are given lot of emphasis in this course which also enhances understanding of the subject of Mathematics as a whole. The portion on first order, first degree differentials prepares learner to get solutions of so many kinds of problems in all subjects of Science and also prepares learner for further studies of differential equations and related fields.
- 2. Algebra I (Sem I) & Discrete Mathematics (Sem II): This course gives expositions to number systems (Natural Numbers & Integers), like divisibility and prime numbers and

their properties. These topics later find use in advanced subjects like cryptography and its uses in cyber security and such related fields.

Teaching Pattern for Semester I

- [1.]Three lectures per week per course.
- [2.]One Practical per week per batch for each of the courses USMT101, USMT 102 (the batches to be formed as prescribed by the University).
- [3.]One Tutorial per week per batch for course UAMT101 (the batches to be formed as prescribed by the University).

Teaching Pattern for Semester II

- [1.]Three lectures per week per course.
- [2.]One Practical per week per batch for each of the courses USMT201, USMT 202. (the batches to be formed as prescribed by the University).
- [3.]One Tutorial per week per batch for the course UAMT201 (the batches to be formed as prescribed by the University).
F.Y.B.Sc. / F.Y.B.A. Mathematics

SEMESTER I

USMT 101 / UAMT 101: CALCULUS I

Note: All topics have to be covered with proof in details (unless mentioned otherwise) and examples.

Unit 1 : Real Number System (15 Lectures)

- (1)Real number system R and order properties of R, absolute value | | and its properties. (2)AM-
- GM inequality, Cauchy-Schwarz inequality, Intervals and neighbourhoods, interior points, limit point, Hausdorff property.
- (3)Bounded sets, statements of I.u.b. axiom and its consequences, supremum and infimum, maximum and minimum, Archimedean property and its applications, density of rationals.

Unit II: Sequences in R (15 Lectures)

(1) Definition of a sequence and examples, Convergence of sequences, every convergent sequences is bounded. Limit of a convergent sequence and uniqueness of limit, Divergent sequences.

(2) Convergence of standard sequences like
$$\frac{1}{1 + na} \quad \forall a > 0, \quad (b^n) \quad \forall b, \quad 0 < b < 1, \quad (c_n) \quad \forall c > 0, \quad \& \quad (n_n^{\frac{1}{2}}).$$

(3) Algebra of convergent sequences, sandwich theorem, monotone sequences, monotone con-

vergence theorem and consequences as convergence of $1 + \frac{1}{n}^{n}$.

(4) Definition of subsequence, subsequence of a convergent sequence is convergent and converges to the same limit, definition of a Cauchy sequences, every convergent sequences s a Cauchy sequence and converse.

Unit III: First order First degree Differential equations (15 Lectures)

Review of Definition of a differential equation, order, degree, ordinary differential equation and partial differential equation, linear and non linear ODE. Solution of homogeneous and nonhomogeneous differential equations of first order and first degree. Notion of partial derivatives.

- (1) Exact Equations: General solution of Exact equations of first order and first degree. Necessary and sufficient condition for Mdx + Ndy = 0 to be exact. Non-exact equations: Rules for finding integrating factors (without proof) for non exact equations, such as :
 - *i*) $\frac{1}{M x + N y}$ is an I.F. if M x + N y = 0 and M dx + N dy = 0 is homogeneous.
 - ii) $\frac{1}{Mx Ny}$ is an I.F. if $Mx Ny \neq 0$ and Mdx + Ndy = 0 is of the form $f_1(x, y) y dx + f_2(x, y) x dy = 0$.

iii) $e^{\int f(x) dx}$ (resp $e^{\int g(y) dy}$) is an I.F. if $N \neq 0$ (resp M = 0) and $\frac{1}{N} \frac{\partial M}{\partial y} - \frac{\partial N}{\partial x}$

 $\operatorname{resp} \frac{1}{M} \quad \frac{\partial M}{\partial y} - \frac{\partial N}{\partial x} \quad \text{is a function of } x \text{ (resp } y\text{) alone, say } f(x) \text{ (resp } g(y)\text{).}$

iv)Linear and reducible linear equations of first order, finding solutions of first order differential equations of the type for applications to orthogonal trajectories, population growth, and finding the current at a given time.

(2) Reduction of order :

- (i) If the differential equation does not contain only the original function y, that is equations of Type $F(x, y^{i}, y^{ij}) = 0$.
- (ii) If the differential equation does not contain the independent variable x that is, equations of Type $F(y, y^{\downarrow}, y^{\downarrow)}) = 0$.

Reference Books:

- 1.R. R. Goldberg, Methods of Real Analysis, Oxford and IBH, 1964.
- 2.K. G. Binmore, Mathematical Analysis, Cambridge University Press, 1982.
- 3.R. G. Bartle- D. R. Sherbert, Introduction to Real Analysis, John Wiley & Sons, 1994.
- 4.Sudhir Ghorpade and Balmohan Limaye, A course in Calculus and Real Analysis, Springer International Ltd, 2000.
- 5.G. F. Simmons, Differential Equations with Applications and Historical Notes, McGraw Hill, 1972.
- 6.E. A. Coddington , An Introduction to Ordinary Differential Equations.Prentice Hall, 1961.
- 7.W. E. Boyce, R. C. DiPrima, Elementary Differential Equations and Boundary Value Problems, Wiely, 2013.

Additional Reference Books

- 1.T. M. Apostol, Calculus Volume I, Wiley & Sons (Asia) Pte, Ltd.
- 2. Richard Courant-Fritz John, A Introduction to Calculus and Analysis, Volume I, Springer.
- 3. Ajit kumar and S. Kumaresan, A Basic Course in Real Analysis, CRC Press, 2014.
- 4. James Stewart, Calculus, Third Edition, Brooks/ cole Publishing Company, 1994.
- 5.D. A. Murray, Introductory Course in Differential Equations, Longmans, Green and Co., 1897.
- 6.A. R. Forsyth, A Treatise on Differential Equations, MacMillan and Co., 1956.

ALGEBRA I USMT 102

Prerequisite :

Set Theory: Set, subset, union and intersection of two sets, empty set, universal set, complement of a set, De Morgan's laws, Cartesian product of two sets, Relations, Permutations ${}^{n}P_{r}$ and Combinations ${}^{n}C_{r}$.

Complex numbers: Addition and multiplication of complex numbers, modulus, amplitude and conjugate of a complex number.

Unit I : Integers & Divisibility (15 Lectures)

- (1) Statements of well-ordering property of non-negative integers, Principle of finite induction (first and second) as a consequence of Well-Ordering Principle.
- (2) Divisibility in integers, division algorithm, greatest common divisor (g.c.d.) and least common multiple (l.c.m.) of two non zero integers, basic properties of g.c.d. such as existence and uniqueness of g.c.d. of two non zero integers a&b and that the g.c.d. can be expressed as ma + nb for some $m, n \in \mathbb{Z}$, Euclidean algorithm.
- (3) Primes, Euclid's lemma, Fundamental Theorem of arithmetic, The set of primes is infinite, there are arbitrarily large gaps between primes, there exists infinitely many primes of the form 4n 1 or of the form 6n 1.
- (4) Congruence, definition and elementary properties, Results about linear congruence equations. Examples.

Unit II : Functions, Relations and Binary Operations (15 Lectures)

- (1) Definition of relation and function, domain, co-domain and range of a function, composite functions, examples, Direct image f(A) and inverse image $f^{-1}(B)$ for a function f, injective, surjective, bijective functions, Composite of injective, surjective, bijective functions when defined, invertible functions, bijective functions are invertible and conversely, examples of functions including constant, identity, projection, inclusion, Binary operation as a function, properties, examples.
- (2) Equivalence relation, Equivalence classes, properties such as two equivalences classes are either identical or disjoint, Definition of partition, every partition gives an equivalence relation and vice versa.
- (3) Congruence is an equivalence relation on Z, Residue classes and partition of Z, Addition modulon, Multiplication modulo n, examples.

Unit III: Polynomials (15 Lectures)

- (1) Definition of a polynomial, polynomials over F where F = Q, R or C, Algebra of polynomials, degree of polynomial, basic properties.
- (2) Division algorithm in F[X] (without proof), and g.c.d of two polynomials and its basic properties, Euclidean algorithm (proof of the above results may be given only in the case of Q[X] with a remark that the results as well as the proofs remain valid in the case of R[X] or C[X]).

- (3) Roots of a polynomial, relation between roots and coefficients, multiplicity of a root. Elementary consequences such as the following.
 - (i) Remainder theorem, Factor theorem.
 - (ii) A polynomial of degree *n* has at most *n* roots.
 - (iii) Complex and non-real roots of a polynomials in R[X] occur in conjugate pairs.

(Emphasis on examples and problems in polynomials with real coefficients).

(4) Necessary condition for a rational number p q to be a root of a polynomial with integer coefficients (viz. p divides the constant coefficient and q divides the leading coefficient), corollary for monic polynomials (viz. a rational root of monic polynomial with integer coefficients is necessarily an integer). Simple consequence such as the irrationality is necessarily of $\sqrt[7]{p}$ for any prime number p. Irreducible polynomials in Q[x], Unique Factorisation Theorem. Examples.

Reference Books:

- 1. David M. Burton, Elementary Number Theory, Seventh Edition, McGraw Hill Education (India) Private Ltd.
- 2.2. Norman L. Biggs, Discrete Mathematics, Revised Edition, Clarendon Press, Oxford 1989.

Additional Reference Books

- 1.I. Niven and S. Zuckerman, Introduction to the theory of numbers, Third Edition, Wiley Eastern, New Delhi, 1972.
- 2.G. Birkoff and S. Maclane, A Survey of Modern Algebra, Third Edition, Mac Millan, New York, 1965.
- 3.N. S. Gopalkrishnan, University Algebra, Ne Age International Ltd, Reprint 2013.
- 4.I.N. Herstein, Topics in Algebra, John Wiley, 2006.
- 5.P. B. Bhattacharya S. K. Jain and S. R. Nagpaul, Basic Abstract Algebra, New Age International, 1994.
- 6.Kenneth Rosen, Discrete Mathematics and its applications, Mc-Graw Hill, International Edition, Mathematics Series.

PRACTICALS FOR F.Y.B.Sc USMTP01 – Practicals

A. Practicals for USMT101/ UAMT 101:

(1) Algebraic and Order Properties of Real Numbers and Inequalities

(2)Hausdorff Property and LUB Axiom of R, Archimedian Property.

(3)Convergence and divergence of sequences, bounded sequences, Sandwich Theorem.

(4)Cauchy sequences, monotonic sequences, non-monotonic sequences.

(5)Solving exact and non-exact, linear, reducible to linear differential equations.

(6)Reduction of order of Differential Equations, Applications of Differential Equations.

(7) Miscellaneous Theoretical Questions based on full paper.

B. Practicals for USMT102:

- (1) Mathematical induction ,Division Algorithm, Euclidean algorithm in Z, Examples on expressing the gcd. of two non zero integers a&b as ma + nb for some $m, n \in \mathbb{Z}$,
- (2) Primes and the Fundamental theorem of Arithmetic, Euclid's lemma, there exists infinitely many primes of the form 4n 1 or of the form 6n 1.
- (3) Functions, Bijective and Invertible functions, Compositions of functions.

(4) Binary Operation, Equivalence Relations, Partition and Equivalence classes.

(5)Polynomial (I)

(6) Polynomial (II)

(7) Miscellaneous Theoretical Questions based on full paper.

TUTORIALS FOR F.Y.B.A

Tutorials for UAMT101 :

(1)Algebraic and Order Properties of Real Numbers and Inequalities

(2)Hausdorff Property and LUB Axiom of R, Archimedian Property.

(3)Convergence and divergence of sequences, bounded sequences, Sandwich Theorem.

(4)Cauchy sequences, monotonic sequences, non-monotonic sequences.

(5)Solving exact and non-exact, linear, reducible to linear differential equations.

(6)Reduction of order of Differential Equations, Applications of Differential Equations.

(7)Miscellaneous Theoretical Questions based on full paper.

Semester II USMT 201 / UAMT201: CALCULUS II

Unit-I: Limits and Continuity (15 Lectures)

{Brief review: Domain and range of a function, injective function, surjective function, bijective function, composite of two functions (when defined), Inverse of a bijective function. Graphs of some standard functions such as |x|, e^x , $\log x$, ax^2+bx+c , $\frac{1}{x}x^n n \ge 3$), $\sin x$, $\cos x$, $\tan x$, $\sin \frac{1}{x}$, $x^2 \sin \frac{1}{x}$ over suitable intervals of R. No direct questions to be added. }

- (1) $\varepsilon \delta$ definition of Limit of a function, uniqueness of limit if it exists, algebra of limits, limits of composite function, sandwich theorem, left-hand-limit $\lim_{x \to a^{-}} f(x)$, right-hand-limit $\lim_{x \to a^{-}} f(x)$, non-existence of limits, $\lim_{x \to a^{-}} f(x)$, $\lim_{x \to a^{-}} f(x)$ and $\lim_{x \to a^{-}} f(x) = \pm \infty$.
- (2)Continuous functions: Continuity of a real valued function at a point and on a set using $\epsilon \delta$ definition, examples, Continuity of a real valued function at end points of domain using $\epsilon_{-}\delta$ definition, f is continuous at a if and only if $\lim_{x \to -\alpha} f(x)$ exists and equals to f(a), Sequential continuity, Algebra of continuous functions, discontinuous functions, examples of removable and essential discontinuity.
- (3)Intermediate Value theorem and its applications, Bolzano-Weierstrass theorem (statement only): A continuous function on a closed and bounded interval is bounded and attains its bounds.

Unit-II: Differentiability of functions (15 Lectures)

- (1) Differentiation of real valued function of one variable: Definition of differentiability of a function at a point of an open interval, examples of differentiable and non differentiable functions, differentiable functions are continuous but not conversely, algebra of differentiable functions.
- (2) Chain rule, Higher order derivatives, Leibniz rule, Derivative of inverse functions, Implicit differentiation (only examples)

Unit-III: Applications of differentiability (15 Lectures)

- (1) Rolle's Theorem, Lagrange's and Cauchy's Mean Value Theorems, applications and examples, Monotone increasing and decreasing functions, examples.
- (2) L-Hospital rule (without proof), examples of indeterminate forms, Taylor's theorem with Lagrange's form of remainder with proof, Taylor polynomial and applications.
- (3) Definition of critical point, local maximum/minimum, necessary condition, stationary points, second derivative test, examples, concave/convex functions, point of inflection.
- (4) Sketching of graphs of functions using properties.

Reference books:

- 1.R. R. Goldberg, Methods of Real Analysis, Oxford and IBH, 1964.
- 2.James Stewart, Calculus, Third Edition, Brooks/ Cole Publishing company, 1994.
- 3.T. M. Apostol, Calculus, Vol I, Wiley And Sons (Asia) Pte. Ltd.

4.Sudhir Ghorpade and Balmohan Limaye, A course in Calculus and Real Analysis, Springer International Ltd, 2000.

Additional Reference:

- 1. Richard Courant and Fritz John, A Introduction to Calculus and Analysis, Volume-I, Springer.
- 2. Ajit Kumar and S. Kumaresan, A Basic course in Real Analysis, CRC Press, 2014.
- 3.K. G. Binmore, Mathematical Analysis, Cambridge University Press, 1982.
- 4.G. B. Thomas, Calculus, 12th Edition 2009

USMT 202: DISCRETE MATHEMATICS

Unit I: Preliminary Counting (15 Lectures)

- (1) Finite and infinite sets, countable and uncountable sets examples such as N, Z, N \times N, Q (0, 1), R.
- (2) Addition and multiplication Principle, counting sets of pairs, two ways counting.
- (3)Stirling numbers of second kind. Simple recursion formulae satisfied by S(n, k) for $k = 1, 2, \dots, n-1, n$.

(4)Pigeonhole principle simple and strong form and examples, its applications to geometry.

Unit II: Advanced Counting (15 Lectures)

- (1) Permutation and combination of sets and multi-sets, circular permutations, emphasis on solving problems.
- (2) Binomial and Multinomial Theorem, Pascal identity, examples of standard identities such as the following with emphasis on combinatorial proofs.

∑	т	n _ m+n	$\sum k^2 2k$
<u>k=0</u>	k	r-k r	i = k
~	i	= n + 1	$\frac{2}{n}$ $n = 2^n$
i=r	r	<i>r</i> + 1	i=0 i -2

- (3) Non-negative integer solutions of equation $x_1 + x_2 + \cdots + x_k = n$.
- (4) Principal of inclusion and exclusion, its applications, derangements, explicit formula for d_n , deriving formula for Euler's function $\varphi(n)$.

Unit III: Permutations and Recurrence relation (15 lectures)

(1) Permutation of objects, S_n , composition of permutations, results such as every permutation is a product of disjoint cycles, every cycle is a product of transpositions, signature of a permutation, even and odd permutations, cardinality of S_n , A_n . (2) Recurrence Relations, definition of homogeneous, non-homogeneous, linear, non-linear recurrence relation, obtaining recurrence relations of Tower of Hanoi, Fibonacci sequence, etc. in counting problems, solving homogeneous as well as non homogeneous recurrence relations by using iterative methods, solving a homogeneous recurrence relation of second degree using algebraic method proving the necessary result.

Recommended Books:

- 1. Norman Biggs, Discrete Mathematics, Oxford University Press.
- 2. Richard Brualdi, Introductory Combinatorics, John Wiley and sons.
- 3.V. Krishnamurthy, Combinatorics-Theory and Applications, Affiliated East West Press.
- 4. Discrete Mathematics and its Applications, Tata McGraw Hills.
- 5. Schaum's outline series, Discrete mathematics,
- 6. Allen Tucker, Applied Combinatorics, John Wiley and Sons.
- 7.Sharad Sane, Combinatorial Techniques, Springer.

PRACTICALS FOR F.Y.B.Sc USMTP02-Practicals

A. Practicals for USMT201 :

- (1) Limit of a function and Sandwich theorem, Continuous and discontinuous function.
- (2)Algebra of limits and continuous functions, Intermediate Value theorem, Bolzano-Weierstrass theorem.
- (3) Properties of differentiable functions, derivatives of inverse functions and implicit functions.
- (4) Higher order derivatives, Leibnitz Rule.
- (5) Mean value theorems and its applications, L'Hospital's Rule, Increasing and Decreasing functions.
- (6) Extreme values, Taylor's Theorem and Curve Sketching.
- (7) Miscellaneous Theoretical Questions based on full paper.

B. Practicals for USMT202:

- (1) Counting principles, Two way counting.
- (2) Stirling numbers of second kind, Pigeon hole principle.
- (3) Multinomial theorem, identities, permutation and combination of multi-set.
- (4)Inclusion-Exclusion principle. Euler phi function.
- (5)Composition of permutations, signature of permutation, inverse of permutation.
- (6)Recurrence relation.
- (7) Miscellaneous Theoretical Questions based on full paper.

TUTORIALS FOR F.Y.B.A

Tutorials for UAMT201 :

(1)Limit of a function and Sandwich theorem, Continuous and discontinuous function.

- (2)Algebra of limits and continuous functions, Intermediate Value theorem, Bolzano-Weierstrass theorem.
- (3) Properties of differentiable functions, derivatives of inverse functions and implicit functions.
- (4) Higher order derivatives, Leibnitz Rule.
- (5) Mean value theorems and its applications, L'Hospital's Rule, Increasing and Decreasing functions.
- (6) Extreme values, Taylor's Theorem and Curve Sketching.
- (7) Miscellaneous Theoretical Questions based on full paper.

Scheme of Examination (75:25)

The performance of the learners shall be evaluated into two parts. The learner's performance shall be assessed by Internal Assessment with 25 percent marks in the first part and by conducting the Semester End Examinations with 75 percent marks in the second part. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:-

I. Internal Evaluation of 25 Marks:

F.Y.B.Sc. :

(i) One class Test of 20 marks to be conducted during Practical session.

Paper pattern of the Test:

Q1: Definitions/ Fill in the blanks/ True or False with Justification (04 Marks).

Q2: Multiple choice 5 questions. (10 Marks: 5×2)

Q3: Attempt any 2 from 3 descriptive questions. (06 marks: 2×3)

(ii)Active participation in routine class: 05 Marks.

F.Y.B.A. :

(i) One class Test of 20 marks to be conducted during Tutorial session.

Paper pattern of the Test:

Q1: Definitions/ Fill in the blanks/ True or False with Justification (04 Marks).

Q2: Multiple choice 5 questions. (10 Marks: 5×2)

Q3: Attempt any 2 from 3 descriptive questions. (06 marks: 2×3) (ii)Journal : 05 Marks.

II. Semester End Theory Examinations : There will be a Semester-end external Theory examination of 75 marks for each of the courses USMT101/UAMT101, USMT102 of Semester I and USMT201/UAMT201, USMT202 of semester II to be conducted by the college. 1. Duration: The examinations shall be of 2 and $\frac{1}{2}$ hours duration.

- 2. Theory Question Paper Pattern:
 - a) There shall be FOUR questions. The first three questions Q1, Q2, Q3 shall be of 20 marks, each based on the units I, II, III respectively. The question Q4 shall be of 15 marks based on the entire syllabus.
 - b) All the questions shall be compulsory. The questions Q1, Q2, Q3, Q4 shall have internal choices within the questions. Including the choices, the marks for each question shall be 25-27.
 - c)The questions Q1, Q2, Q3, Q4 may be subdivided into sub-questions as a, b, c, d & e, etc and the allocation of marks depends on the weightage of the topic.

3. Semester End Examinations Practicals:

At the end of the Semesters I & II Practical examinations of three hours duration and 100 marks shall be conducted for the courses USMTP01, USMTP02.

In semester I, the Practical examinations for USMT101 and USMT102 are held together by the college.

In Semester II, the Practical examinations for USMT201 and USMT202 are held together by the college.

Paper pattern: The question paper shall have two parts A and B. Each part shall have two Sections.

Section I Objective in nature: Attempt any Eight out of Twelve multiple choice questions (04 objective questions from each unit) ($8 \times 3 = 24$ Marks).

Section II Problems: Attempt any Two out of Three (01 descriptive question from each unit) ($8 \times 2 = 16$ Marks).

Practical	Part A	Part B	Marks	duration
Course			out of	
USMTP01	Questions	Questions	80	3 hours
	from USMT101	from USMT102		
USMTP02	Questions	Questions	80	3 hours
	from USMT201	from USMT202		

Marks for Journals and Viva:

For each course USMTP01 (USMT101, USMT102) and USMTP02 (USMT201, USMT202):

1. Journal: 10 marks (5 marks for each journal).

2.Viva: 10 marks.

Each Practical of every course of Semester I and II shall contain at least 10 objective questions and at least 6 descriptive questions.

A student must have a certified journal before appearing for the practical examination. In case a student does not posses a certified journal he/she will be evaluated for 80 marks. He/she is not qualified for Journal + Viva marks.

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UNIVERSITY OF MUMBAI

Syllabus

for S. Y. B. Sc. / S. Y. B. A. Semester III & IV (CBCS)

Program: B. Sc. / B. A.

Course: Mathematics

with effect from the academic year 2021-2022

(UNIVERSITY OF MUMBAI)

Syllabus for: S.Y.B.Sc./S.Y.B.A.

Program: B.Sc./B/A. Course: Mathematics Choice based Credit System (CBCS) with effect from the academic year 2021-22

SEMESTER III

Calculus III						
Course Code	UNIT	TOPICS	Credits	L/Week		
	I	Infinite Series				
USMT 301, UAMT 301	11	Riemann Integration		3		
		Applications of Integrations and				
		Improper Integrals				
Linear Algebra I						
	I	System of Equations and Matrices				
USMT 302 ,UAMT 302	02 II Vector Spaces over IR		2	3		
		III Determinants, Linear Equations (Revisited)				
ORDINARY DIFFERENTIAL EQUATIONS						
	I	Higher Order linear Differential Equations				
USMT 303	11	Systems of First Order Linear differential equations		3		
		Numerical Solutions of Ordinary				
		Differential Equations				
PRACTICALS						
		Practicals based on USMT301, USMT 302 and USMT 303		5		
				5		
		Practicals based on		4		
UAIVITEUS		UAMT301, UAMT 302	2	4		

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SEMESTER IV

Multivariable Calculus I						
Course Code	UNIT	TOPICS	Credits	L/Week		
	I	Functions of several variables				
	11	Differentiation of Scalar Fields	2	3		
031011 401, 0A1011 401		Applications of Differentiation of				
		Scalar Fields and Differentiation of				
		Vector Fields				
		Linear Algebra II				
	I	Linear transformation, Isomorphism,				
LISNAT 402 LIANAT 402		Matrix associated with L.T.		3		
031011 402 ,0A1011 402	11	Inner product spaces				
		Eigen values, eigen vectors,				
		diagonalizable matrix				
Numerical methods (Elective A)						
	I	Solutions of algebraic and				
		transcendental equations	2	3		
LISMT 402A	11	Interpolation, Curve fitting,				
031011 403A		Numerical integration				
		Solutions of linear system				
		of Equations and eigen value problems				
Statistical methods an their applications(Elective B)						
	I	Descriptive Statistics and				
		random variables	2	3		
LISMT 402P	11	Probability Distribution and				
031011 4038		Correlation				
	111	Inferential Statistics				
PRACTICALS						
		Practicals based on	2	5		
051011104		USMT401, USMT 402 and USMT 403	5	5		
		Practicals based on UAMT401, UAMT 402		Λ		
				4		

Teaching Pattern for Semester III

- 1. Three lectures per week per course. Each lecture is of 48 minutes duration.
- 2.One Practical (2L) per week per batch for courses USMT301, USMT 302 combined and one Practical (3L) per week for course USMT303 (the batches tobe formed as prescribed by the University. Each practical session is of 48 minutes duration.)

Teaching Pattern for Semester IV

- 1. Three lectures per week per course. Each lecture is of 48 minutes duration.
- 2.One Practical (2L) per week per batch for courses USMT301, USMT 302 combined and one Practical (3L) per week for course USMT303 (the batches to be formed as prescribed by the University. Each practical session is of 48 minutes duration.)

Semester-III

Note: Unless indicated otherwise, proofs of the results mentioned in the syllabus should be covered.

USMT301/ UAMT301: Calculus III

Unit I. Infinite Series (15 Lectures)

- 1. Infinite series in R. Definition of convergence and divergence. Basic examples including geometric series. Elementary results such as if a_n is convergent, then $a_n \rightarrow 0$ but converse not true. Cauchy Criterion. Algebra of convergent series.
- 2. Tests for convergence: Comparison Test, Limit Comparison Test, Ratio Test (without proof), Root Test (without proof), Abel Test (without proof) and Dirichlet Test (without proof). Examples. The decimal expansion of real numbers. Convergence of $\sum_{n=1}^{\infty} \frac{1}{n^p}$ (p > 1).

Divergence of harmonic series $\sum_{n=1}^{\infty} \frac{1}{n}$.

3. Alternating series. Leibnitz's Test. Examples. Absolute convergence, absolute convergence implies convergence but not conversely. Conditional Convergence.

Unit II. Riemann Integration (15 Lectures)

- 1. Idea of approximating the area under a curve by inscribed and circumscribed rectangles. Partitions of an interval. Refinement of a partition. Upper and Lower sums for a bounded real valued function on a closed and bounded interval. Riemann integrability and the Riemann integral.
- 2. Criterion for Riemann integrability. Characterization of the Riemann integral as the limit of a sum. Examples.

3. Algebra of Riemann integrable functions. Also, basic results such as if $f: [a, b] \rightarrow \mathbb{R}$

is integrable, then (i)
$$f(x) dx = f(x) dx + f(x) dx$$
. (ii) $|f|$ is integrable and

$$\int_{b} \int_{b} \int_{a} \int_{b} \int_{b} \int_{b} \int_{b} \int_{b} \int_{b} \int_{b} \int_{b} \int_{a} \int_{$$

4. Riemann integrability of a continuous function, and more generally of a bounded function whose set of discontinuities has only finitely many points. Riemann integrability of monotone functions.

Unit III. Applications of Integrations and Improper Integrals (15 lectures)

- 1. Area between the two curves. Lengths of plane curves. Surface area of surfaces of revolution. $\int_{-\infty}^{\infty} x$
- 2. Continuity of the function $F(x) = \int_{a}^{a} f(t) dt, x \in [a, b]$, when $f : [a, b] \to \mathbb{R}$ is Riemann integrable. First and Second Fundamental Theorems of Calculus.
- 3.Mean value theorem. Integration by parts formula. Leibnitz's Rule.
- 4. Definition of two types of improper integrals. Necessary and sufficient conditions for convergence.
- 5. Absolute convergence. Comparison and limit comparison tests for convergence.
- 6.Gamma and Beta functions and their properties. Relationship between them (without proof).

Reference Books

- 1.Sudhir Ghorpade, Balmohan Limaye; A Course in Calculus and Real Analysis (second edition); Springer.
- 2.R.R. Goldberg; Methods of Real Analysis; Oxford and IBH Pub. Co., New Delhi, 1970.
- 3.Calculus and Analytic Geometry (Ninth Edition); Thomas and Finney; Addison-Wesley, Reading Mass., 1998.
- 4.T. Apostol; Calculus Vol. 2; John Wiley.

Additional Reference Books

- 1. Ajit Kumar, S. Kumaresan; A Basic Course in Real Analysis; CRC Press, 2014
- 2.D. Somasundaram and B.Choudhary; A First Course in Mathematical Analysis, Narosa, New Delhi, 1996.
- 3.K. Stewart; Calculus, Booke/Cole Publishing Co, 1994.
- 4.J. E. Marsden, A.J. Tromba and A. Weinstein; Basic Multivariable Calculus; Springer.
- 5.R.G. Brtle and D. R. Sherbert; Introduction to Real Analysis Second Ed. ; John Wiley, New Yorm, 1992.

6.M. H. Protter; Basic Elements of Real Analysis; Springer-Verlag, New York, 1998.

USMT/UAMT 302: Linear Algebra I

Unit I. System of Equations, Matrices (15 Lectures)

- Systems of homogeneous and non-homogeneous linear equations, Simple examples of finding solutions of such systems. Geometric and algebraic understanding of the solutions. Matrices (with real entries), Matrix representation of system of homogeneous and nonhomogeneous linear equations. Algebra of solutions of systems of homogeneous linear equations. A system of homogeneous linear equations with number of unknowns more than the number of equations has infinitely many solutions.
- 2. Elementary row and column operations. Row equivalent matrices. Row reduction (of a matrix to its row echelon form). Gaussian elimination. Applications to solving systems of linear equations. Examples.
- 3. Elementary matrices. Relation of elementary row operations with elementary matrices. Invertibility of elementary matrices. Consequences such as (i) a square matrix is invertible if and only if its row echelon form is invertible. (ii) invertible matrices are products of elementary matrices. Examples of the computation of the inverse of a matrix using Gauss elimination method.

Unit II. Vector space over R (15 Lectures)

- Definition of a vector space over R. Subspaces; criterion for a nonempty subset to be a subspace of a vector space. Examples of vector spaces, including the Euclidean space Rⁿ, lines, planes and hyperplanes in Rⁿ passing through the origin, space of systems of homogeneous linear equations, space of polynomials, space of various types of matrices, space of real valued functions on a set.
- 2. Intersections and sums of subspaces. Direct sums of vector spaces. Quotient space of a vector space by its subspace.
- 3. Linear combination of vectors. Linear span of a subset of a vector space. Definition of a finitely generated vector space. Linear dependence and independence of subsets of a vector space.
- 4. Basis of a vector space. Basic results that any two bases of a finitely generated vector space have the same number of elements. Dimension of a vector space. Examples. Bases of a vector space as a maximal linearly independent sets and as minimal generating sets.

Unit III. Determinants, Linear Equations (Revisited) (15 Lectures)

1. Inductive definition of the determinant of a $n \times n$ matrix (e.g. in terms of expansion along the first row). Example of a lower triangular matrix. Laplace expansions along an arbitrary row or column. Determinant expansions using permutations

$$\det(A) = \sup_{\sigma \in S_n} \operatorname{sign}(\sigma) \prod_{i=1}^{n} a_{\sigma(i),i} .$$

- 2. Basic properties of determinants (Statements only); (i) det $A = \det A^{T}$. (ii) Multilinearity and alternating property for columns and rows. (iii) A square matrix A is invertible if and only if det $A \neq 0$. (iv) Minors and cofactors. Formula for A^{-1} when det A = 0. (v) det(AB) = det A det B.
- 3. Row space and the column space of a matrix as examples of vector space. Notion of row rank and the column rank. Equivalence of the row rank and the column rank. Invariance of rank upon elementary row or column operations. Examples of computing the rank using row reduction.
- 4. Relation between the solutions of a system of non-homogeneous linear equations and the associated system of homogeneous linear equations. Necessary and sufficient condition for a system of non-homogeneous linear equations to have a solution [viz., the rank of the coefficient matrix equals the rank of the augmented matrix [A|B]]. Equivalence of statements (in which A denotes an $n \times n$ matrix) such as the following.
 - (i) The system Ax = b of non-homogeneous linear equations has a unique solution.

(ii) The system Ax = 0 of homogeneous linear equations has no nontrivial solution.

(iii) A is invertible.

(iv)det A /= 0.

(v)rank(A) = n.

5. Cramers Rule. LU Decomposition. If a square matrix A is a matrix that can be reduced to row echelon form U by Gauss elimination without row interchanges, then A can be factored as A = LU where L is a lower triangular matrix.

Reference books

1Howard Anton, Chris Rorres, Elementary Linear Algebra, Wiley Student Edition).

2Serge Lang, Introduction to Linear Algebra, Springer.

3S Kumaresan, Linear Algebra - A Geometric Approach, PHI Learning.

4Sheldon Axler, Linear Algebra done right, Springer.

5Gareth Williams, Linear Algebra with Applications, Jones and Bartlett Publishers.

6David W. Lewis, Matrix theory.

USMT303: Ordinary Differential Equations

Unit I. Higher order Linear Differential equations (15 Lectures)

- 1. The general n—th order linear differential equations, Linear independence, An existence and uniqueness theorem, the Wronskian, Classification: homogeneous and non-homogeneous, General solution of homogeneous and non-homogeneous LDE, The Differential operator and its properties.
- 2. Higher order homogeneous linear differential equations with constant coefficients, the auxiliary equations, Roots of the auxiliary equations: real and distinct, real and repeated, complex and complex repeated.

- 3. Higher order homogeneous linear differential equations with constant coefficients, the method of undermined coefficients, method of variation of parameters.
- 4. The inverse differential operator and particular integral, Evaluation of $\frac{1}{f(D)}$ for the functions like e^{ax} , sin ax, cos ax, x^m , x^m sin ax, $x^m \cos ax$, $e^{ax}V$ and xV where V is any function of x,
- 5. Higher order linear differential equations with variable coefficients: The Cauchy's equation: $x_3 \frac{d^3y}{dx^3} + x_2 \frac{d^2y}{dx^2} + x \frac{dy}{dx} + y = f(x)$ and The Legendre's equation: $(ax + b)^3 \frac{d^3y}{dx^3} + (ax + b) \frac{2}{dx^2} \frac{d^2y}{dx^2} + (ax + b)\frac{dy}{dx} + y = f(x).$

Reference Books

- 1. Units 5, 6, 7 and 8 of E.D. Rainville and P.E. Bedient; Elementary Differential Equations; Macmillan.
- 2. Units 5, 6 and 7 of M.D. Raisinghania; Ordinary and Partial Differential Equations; S. Chand.

Unit II. Systems of First Order Linear Differential Equations (15 Lectures)

(a)Existence and uniqueness theorem for the solutions of initial value problems for a system of two first order linear differential equations in two unknown functions *x*, *y* of a single

independent variable *t*, of the form $\frac{\Box \frac{dx}{dt}}{dt} = F(t, x, y)$ (Statement only). $\Box \frac{dy}{dt} = G(t, x, y)$

(b)Homogeneous linear system of two first order differential equations in two unknown func-

tions of a single independent variable t, of the form $\frac{dx}{dt} = a_1(t)x + b_1(t)y,$ $\frac{dx}{dt} = a_2(t)x + b_2(t)y.$

- (c) Wronskian for a homogeneous linear system of first order linear differential equations in two functions *x*, *y* of a single independent variable *t*. Vanishing properties of the Wronskian. Relation with linear independence of solutions.
- (d) Homogeneous linear systems with constant coefficients in two unknown functions x, y of a single independent variable t. Auxiliary equation associated to a homogenous system of equations with constant coefficients. Description fo the general solution depending on the roots and their multiplicities of the auxiliary equation, proof of independence of the solutions. Real form of solutions in case the auxiliary equation has complex roots.
- (e)Non-homogeneous linear system of linear system of two first order differential equations in two unknown functions of a single independent variable *t*, of the form

$$\frac{dx}{dt} = a_1(t)x + b_1(t)y + f_1(t),$$

$$\frac{dy}{dt} = a_2(t)x + b_2(t)y + f_2(t).$$

General Solution of non-homogeneous system. Relation between the solutions of a system

of non-homogeneous linear differential equations and the associated system of homogeneous linear differential equations.

Reference Books

1.G.F. Simmons; Differential Equations with Applications and Historical Notes; Taylor's and Francis.

Unit III. Numerical Solution of Ordinary Differential Equations (15 lectures)

- 1. Numerical Solution of initial value problem of first order ordinary differential equation using:
 - (i) Taylor's series method,
 - (ii) Picard's method for successive approximation and its convergence,
 - (iii)Euler's method and error estimates for Euler's method,
 - (iv)Modified Euler's Method,
 - (v)Runge-Kutta method of second order and its error estimates,
 - (vi)Runge-Kutta fourth order method.
- 2. Numerical solution of simultaneous and higher order ordinary differential equation using:
 - (i) Runge-Kutta fourth order method for solving simultaneous ordinary differential equation,
 - (ii) Finite difference method for the solution of two point linear boundary value problem.

Reference Books

1. Units 8 of S. S. Sastry, Introductory Methods of Numerical Analysis, PHI.

Additional Reference Books

- 1.E.D. Rainville and P.E. Bedient, Elementary Differential Equations, Macmillan.
- 2.M.D. Raisinghania, Ordinary and Partial Differential Equations, S. Chand.
- 3.G.F. Simmons, Differential Equations with Applications and Historical Notes, Taylor's and Francis.
- 4.S. S. Sastry, Introductory Methods of Numerical Analysis, PHI.
- 5.K. Atkinson, W.Han and D Stewart, Numerical Solution of Ordinary Differential Equations, Wiley.

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USMT P03 / UAMT P03: Practicals

Suggested Practicals for USMT 301/ UAMT 301

- 1.Examples of convergent / divergent series and algebra of convergent series.
- 2.Tests for convergence of series.
- 3.Calculation of upper sum, lower sum and Riemann integral.
- 4. Problems on properties of Riemann integral.
- 5. Problems on fundamental theorem of calculus, mean value theorems, integration by parts, Leibnitz rule.
- 6. Convergence of improper integrals, different tests for convergence. Beta Gamma Functions.
- 7. Miscellaneous Theoretical Questions based on full paper.

Suggested Practicals for USMT302 / UAMT 302

- 1.Systems of homogeneous and non-homogeneous linear equations.
- 2. Elementary row/column operations and Elementary matrices.
- 3. Vector spaces, Subspaces.
- 4. Linear Dependence/independence, Basis, Dimension.
- 5.Determinant and Rank of a matrix.
- 6.Solution to a system of linear equations, LU decomposition
- 7. Miscellaneous Theory Questions.
- 8. Miscellaneous theory questions from units I, II and III.

Suggested Practicals For USMT 303

- 1. Finding the general solution of homogeneous and non-homogeneous higher order linear differential equations.
- 2. Solving higher order linear differential equations using method of undetermined coefficients and method of variation of parameters.
- 3. Solving a system of first order linear ODES have auxiliary equations with real and complex roots.
- 4. Finding the numerical solution of initial value problems using Taylor's series method, Picard's method, modified Euler's method, Runge-Kutta method of fourth order and calculating their accuracy.
- 5. Finding the numerical solution of simultaneous ordinary differential equation using fourth order Runge-Kutta method.
- 6. Finding the numerical solution of two point linear boundary value problem using Finite difference method.

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Semester-IV

Note: Unless indicated otherwise, proofs of the results mentioned in the syllabus should be covered.

USMT 401/ UAMT 401: Multivariable Calculus I

UNIT I. Functions of Several Variables (15 Lectures)

- 1. Review of vectors in \mathbb{R}^n [with emphasis on \mathbb{R}^2 and \mathbb{R}^3] and basic notions such as addition and scalar multiplication, inner product, length (norm), and distance between two points.
- 2. Real-valued functions of several variables (Scalar fields). Graph of a function. Level sets (level curves, level surfaces, etc). Examples. Vector valued functions of several variables (Vector fields). Component functions. Examples.
- 3. Sequences, Limits and Continuity: Sequence in \mathbb{R}^n [with emphasis on \mathbb{R}^2 and \mathbb{R}^3] and their limits. Neighbourhoods in \mathbb{R}^n . Limits and continuity of scalar fields. Composition of continuous functions. Sequential characterizations. Algebra of limits and continuity (Results with proofs). Iterated limits.

Limits and continuity of vector fields. Algebra of limits and continuity vector fields. (without proofs).

4. Partial and Directional Derivatives of scalar fields: Definitions of partial derivative and directional derivative of scalar fields (with emphasis on R^2 and R^3). Mean Value Theorem of scalar fields.

UNIT II. Differentiation of Scalar Fields (15 Lectures)

- Differentiability of scalar fields (in terms of linear transformation). The concept of (total) derivative. Uniqueness of total derivative of a differentiable function at a point. Examples of functions of two or three variables. Increment Theorem. Basic properties including (i) continuity at a point of differentiability, (ii)existence of partial derivatives at a point of differentiability, and (iii) differentiability when the partial derivatives exist and are continuous.
- 2. Gradient. Relation between total derivative and gradient of a function. Chain rule. Geometric properties of gradient. Tangent planes.
- 3. Euler's Theorem.
- 4. Higher order partial derivatives. Mixed Partial Theorem (n=2).

UNIT III. Applications of Differentiation of Scalar Fields and Differentiation of Vector Fields (15 lectures)

 Applications of Differentiation of Scalar Fields: The maximum and minimum rate of change of scalar fields. Taylor's Theorem for twice continuously differentiable functions. Notions of local maxima, local minima and saddle points. First Derivative Test. Examples. Hessian matrix. Second Derivative Test for functions of two variables. Examples. Method of Lagrange Multipliers. Differentiation of Vector Fields: Differentiability and the notion of (total) derivative. Differentiability of a vector field implies continuity, Jacobian matrix. Relationship between total derivative and Jacobian matrix. The chain rule for derivative of vector fields (statements only).

Reference books

- 1.T. Apostol; Calculus, Vol. 2 (Second Edition); John Wiley.
- 2. Sudhir Ghorpade, Balmohan Limaye; A Course in Multivariable Calculus and Analysis (Second Edition); Springer.
- 3. Walter Rudin; Principles of Mathematical Analysis; McGraw-Hill, Inc.
- 4.J. E. Marsden, A.J. Tromba and A. Weinstein, Basic Multivariable Calculus; Springer.
- 5.D.Somasundaram and B.Choudhary; A First Course in Mathematical Analysis, Narosa, New Delhi, 1996.
- 6.K. Stewart; Calculus; Booke/Cole Publishing Co, 1994.

Additional Reference Books

- Calculus and Analytic Geometry, G.B. Thomas and R. L. Finney, (Ninth Edition); Addison-Wesley, 1998.
- 2. Howard Anton; Calculus- A new Horizon, (Sixth Edition); John Wiley and Sons Inc, 1999.
- 3.S L Gupta and Nisha Rani; Principles of Real Analysis; Vikas Publishing house PVT LTD.
- 4.Shabanov, Sergei; Concepts in Calculus, III: Multivariable Calculus; University Press of Florida, 2012.
- 5.S C Malik and Savita Arora; Mathematical Analysis; New Age International Publishers.

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USMT402/UAMT402: Linear Algebra II

UNIT I. Linear Transformations

- Definition of a linear transformation of vector spaces; elementary properties. Examples. Sums and scalar multiples of linear transformations. Composites of linear transformations. A Linear transformation of V -→ W, where V, W are vector spaces over R and V is afinitedimensional vector space is completely determined by its action on an ordered basis of V.
- 2. Null-space (kernel) and the image (range) of a linear transformation. Nullity and rank of a linear transformation. Rank-Nullity Theorem (Fundamental Theorem of Homomorphisms).
- 3. Matrix associated with linear transformation of $V \rightarrow W$ where V and W are finite dimensional vector spaces over R.. Matrix of the composite of two linear transformations. Invertible linear transformations (isomorphisms), Linear operator, Effect of change of bases on matrices of linear operator.

4. Equivalence of the rank of a matrix and the rank of the associated linear transformation. Similar matrices.

UNIT II. Inner Products and Orthogonality

- 1. Inner product spaces (over R). Examples, including the Euclidean space R^n and the space of real valued continuous functions on a closed and bounded interval. Norm associated to an inner product. Cauchy-Schwarz inequality. Triangle inequality.
- 2. Angle between two vectors. Orthogonality of vectors. Pythagoras theorem and some geometric applications in R². Orthogonal sets, Orthonormal sets. Gram-Schmidt orthogonalizaton process. Orthogonal basis and orthonormal basis for a finite-dimensional inner product space.
- 3. Orthogonal complement of any set of vectors in an inner product space. Orthogonal complement of a set is a vector subspace of the inner product space. Orthogonal decomposition of an inner product space with respect to its subspace. Orthogonal projection of a vector onto a line (one dimensional subspace). Orthogonal projection of an inner product space onto its subspace.

UNIT III. Eigenvalues, Eigenvectors and Diagonalisation

- 1. Eigenvalues and eigenvectors of a linear transformation of a vector space into itself and of square matrices. The eigenvectors corresponding to distinct eigenvalues of a linear transformation are linearly independent. Eigen spaces. Algebraic and geometric multiplicity of an eigenvalue.
- 2. Characteristic polynomial. Properties of characteristic polynomials (only statements). Examples. Cayley-Hamilton Theorem. Applications.
- 3. Invariance of the characteristic polynomial and eigenvalues of similar matrices.
- 4.Diagonalisable matrix. A real square matrix A is diagonalisable if and only if there is a basis of \mathbb{R}^n consisting of eigenvectors of A. (Statement only $A_{n \times n}$ is diagonalisable if and only if sum of algebraic multiplicities is equal to sum of geometric multiplicities of all the eigenvalues of A = n). Procedure for diagonalising a matrix.
- 5.Spectral Theorem for Real Symmetric Matrices (Statement only). Examples of orthogonal diagonalisation of real symmetric matrices. Applications to quadratic forms and classification of conic sections.

Reference books

- 1. Howard Anton, Chris Rorres; Elementary Linear Algebra; Wiley Student Edition).
- 2.Serge Lang; Introduction to Linear Algebra; Springer.
- 3.S Kumaresan; Linear Algebra A Geometric Approach; PHI Learning.
- 4.Sheldon Axler; Linear Algebra done right; Springer.

5.Gareth Williams; Linear Algebra with Applications; Jones and Bartlett Publishers.

6.David W. Lewis; Matrix theory.

USMT403A: Numerical Methods (Elective A)

Unit I. Solution of Algebraic and Transcendental Equations (15L)

- 1. Measures of Errors: Relative, absolute and percentage errors, Accuracy and precision: Accuracy to *n* decimal places, accuracy to *n* significant digits or significant figures, Rounding and Chopping of a number, Types of Errors: Inherent error, Round-off error and Truncation error.
- Iteration methods based on first degree equation: Newton-Raphson method. Secant method. Regula-Falsi method.
 Derivations and geometrical interpretation and rate of convergence of all above methods to be covered.
- 3. General Iteration method: Fixed point iteration method.

Unit II. Interpolation, Curve fitting, Numerical Integration(15L)

- 1. Interpolation: Lagrange's Interpolation. Finite difference operators: Forward Difference operator, Backward Difference operator. Shift operator. Newton's forward difference interpolation formula. Newton's backward difference interpolation formula. Derivations of all above methods to be covered.
- 2. Curve fitting: linear curve fitting. Quadratic curve fitting.
- 3. Numerical Integration: Trapezoidal Rule. Simpson's 1/3 rd Rule. Simpson's 3/8th Rule. Derivations all the above three rules to be covered.

Unit III. Solution Linear Systems of Equations, Eigenvalue problems(15L)

- 1. Linear Systems of Equations: LU Decomposition Method (Dolittle's Method and Crout's Method). Gauss-Seidel Iterative method.
- 2. Eigenvalue problems: Jacobi's method for symmetric matrices. Rutishauser method for arbitrary matrices.

Reference Books:

- 1. Kendall E. and Atkinson; An Introduction to Numerical Analysis; Wiley.
- 2.M. K. Jain, S. R. K. Iyengar and R. K. Jain; Numerical Methods for Scientific and Engineering Computation; New Age International Publications.
- 3.S. Sastry; Introductory methods of Numerical Analysis; PHI Learning.

4.An introduction to Scilab-Cse iitb.

Additional Reference Books

- 1.S.D. Comte and Carl de Boor; Elementary Numerical Analysis, An algorithmic approach; McGrawHilll International Book Company.
- 2. Hildebrand F.B.; Introduction to Numerical Analysis; Dover Publication, NY.
- 3.Scarborough James B.; Numerical Mathematical Analysis; Oxford University Press, New Delhi.

USMT403B Statistical Methods and their Applications (Elective B)

Unit I. Descriptive Statistics and random variables (15 Lectures)

Measures of location (mean, median, mode), Partition values and their graphical locations, measures of dispersion, skewness and kurtosis, Exploratory Data Analysis (Five number summary, Box Plot, Outliers), Random Variables (discrete and continuous), Expectation and variance of a random variable.

Unit II. Probability Distributions and Correlation (15 Lectures)

Discrete Probability Distribution (Binomial, Poisson), Continuous Probability Distribution: (Uniform, Normal), Correlation, Karl Pearson's Coefficient of Correlation, Concept of linear Regression, Fitting of a straight line and curve to the given data by the method of least squares, relation between correlation coefficient and regression coefficients.

Unit III. Inferential Statistics (15 lectures)

Population and sample, parameter and statistic, sampling distribution of Sample mean and Sample Variance, concept of statistical hypothesis, critical region, level of significance, confidence interval and two types of errors, Tests of significance (t-test, Z-test, F-test, Chi-Square Test (only applications))

Reference Books

- 1. Fundamentals of Mathematical Statistics, 12th Edition, S. C. Gupta and V. K. Kapoor, Sultan Chand & Sons, 2020.
- 2. Statistics for Business and Economics, 11th Edition, David R. Anderson, Dennis J. Sweeney and Thomas A. Williams, Cengage Learning, 2011.
- 3. Introductory Statistics, 8th Edition, Prem S. Mann, John Wiley & Sons Inc., 2013.
- 4.A First Course in Statistics, 12th Edition, James McClave and Terry Sincich, Pearson Education Limited, 2018.
- 5. Introductory Statistics, Barbara Illowsky, Susan Dean and Laurel Chiappetta, OpenStax, 2013.
- 6. Hands-On Programming with R, Garrett Grolemund, O'Reilly.

USMT P04 / UAMT P04: Practicals

Suggested Practical for USMT 401/ UAMT 401

- 1. Limits and continuity of scalar fields and vector fields, using "definition and otherwise", iterated limits.
- 2. Computing directional derivatives, partial derivatives and mean value theorem of scalar fields.
- 3. Differentiability of scalar field, Total derivative, gradient, level sets and tangent planes.
- 4. Chain rule, higher order derivatives and mixed partial derivatives of scalar fields.
- 5. Maximum and minimum rate of change of scalar fields. Taylor's Theorem. Finding Hessian/Jacobean matrix. Differentiation of a vector field at a point. Chain Rule for vector fields.
- 6. Finding maxima, minima and saddle points. Second derivative test for extrema of functions of two variables and method of Lagrange multipliers.
- 7. Miscellaneous Theoretical Questions based on full paper.

Suggested Practicals for USMT402/UAMT 402

- 1.Linear transformation, Kernel, Rank-Nullity Theorem.
- 2.Linear Isomorphism, Matrix associated with Linear transformations.
- 3.Inner product and properties, Projection, Orthogonal complements.
- 4. Orthogonal, orthonormal sets, Gram-Schmidt orthogonalisation
- 5. Eigenvalues, Eigenvectors, Characteristic polynomial. Applications of Cayley Hamilton Theorem.
- 6. Diagonalisation of matrix, orthogonal diagonalisation of symmetric matrix and application to quadratic form.
- 7. Miscellaneous Theoretical Questions based on full paper.

Suggested Practicals for USMT403A

The Practical no. 1 to 6 should be performed either using non-programable scientific calculators or by using the software Scilab.

- 1.Newton-Raphson method, Secant method.
- 2.Regula-Falsi method, Iteration Method..
- 3. Interpolating polynomial by Lagrange's Interpolation, Newton forward and backward difference Interpolation.
- 4. Curve fitting, Trapezoidal Rule, Simpson's 1/3rd Rule, Simpson's 3/8th Rule.
- 5.LU decomposition method, Gauss-Seidel Interative method.

6.Jacobi's method, Rutishauser method..

7. Miscellaneous theoretical questions from all units.

Suggested Practicals for USMT403B

All practicals should be performed using any one of the following softwares: MS Excel, R, Strata, SPSS, Sage Math to carry out data analysis and computations.

- 1. Descriptive Statistics.
- 2. Random Variables.
- 3. Probability Distributions.
- 4. Correlation and Regression.
- 5.Testing of hypothesis.
- 6. Case studies.
- 7. Miscellaneous Theory questions based on Unit I, II, III.

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Scheme of Examination (75:25)

The performance of the learners shall be evaluated into two parts.

- Internal Assessment of 25 percent marks.
- Semester End Examinations of 75 percent marks.
- I. Internal Evaluation of 25 Marks:

S.Y.B.Sc. :

(i) One class Test of 20 marks to be conducted during Practical session.

Paper pattern of the Test:

- **Q1:** Definitions/ Fill in the blanks/ True or False with Justification (04 Marks).
- **Q2:** Multiple choice 5 questions. (10 Marks: 5×2)
- **Q3:** Attempt any 2 from 3 descriptive questions. (06 marks: 2×3)
- (ii) Active participation in routine class: 05 Marks.

OR

Students who are willing to explore topics related to syllabus, dealing with applications historical development or some interesting theorems and their applications can be encouraged to submit a project for 25 marks under the guidance of teachers.

S.Y.B.A. :

(i) One class Test of 20 marks to be conducted during Tutorial session.

Paper pattern of the Test:

Q1: Definitions/ Fill in the blanks/ True or False with Justification (04 Marks).

Q2: Multiple choice 5 questions. (10 Marks: 5×2)

Q3: Attempt any 2 from 3 descriptive questions. (06 marks: 2×3) (ii)Journal : 05 Marks.

OR

Students who are willing to explore topics related to syllabus, dealing with applications historical development or some interesting theorems and their applications can be encouraged to submit a project for 25 marks under the guidance of teachers.

- Semester End Theory Examinations : There will be a Semester-end external Theory examination of 75 marks for each of the courses USMT301/UAMT301, USMT/USAT 302, USMT 303 of Semester III and USMT/UAMT401, USMT/UAMT 402, USMT 403 of semester IV to be conducted by the college.
- 1. Duration: The examinations shall be of 2 and $2^{\frac{1}{2}}$ hours duration.

2. Theory Question Paper Pattern:

- a) There shall be FOUR questions. The first three questions Q1, Q2, Q3 shall be of 20 marks, each based on the units I, II, III respectively. The question Q4 shall be of 15 marks based on the entire syllabus.
- b) All the questions shall be compulsory. The questions Q1, Q2, Q3, Q4 shall have internal choices within the questions. Including the choices, the marks for each question shall be 25-27.
- c)The questions Q1, Q2, Q3, Q4 may be subdivided into sub-questions as a, b, c, d & e, etc and the allocation of marks depends on the weightage of the topic.

III. Semester End Examinations Practicals:

At the end of the Semesters III & IV Practical examinations of three hours duration and 150 marks shall be conducted for the courses USMTP03, USMTP04.

At the end of the Semesters III & IV Practical examinations of two hours duration and 100 marks shall be conducted for the courses UAMTP03, UAMTP04.

In semester III, the Practical examinations for USMT301/UAMT301, USMT302/UAMT302 and USMT303 are held together by the college.

In Semester IV, the Practical examinations for USMT401/UAMT401, USMT402/UAMT402 and USMT403 are held together by the college.

Paper pattern: The question paper shall have two parts A and B. Each part shall have two Sections.

- Section I Objective in nature: Attempt any Eight out of Twelve multiple choice questions (04 objective questions from each unit) ($8 \times 3 = 24$ Marks).
- Section II Problems: Attempt any Two out of Three (01 descriptive question from each unit) (8 \times 2 = 16 Marks).

Practical	Part A	Part B	Part C	Marks	duration
Course				out of	
USMTP03	Questions	Questions	Questions	120	3 hours
	from USMT301	from USMT302	from USMT 303		
UAMTP03	Questions	Questions		80	2 hours
	from UAMT301	from UAMT302			
USMTP04	Questions	Questions	Questions	120	3 hours
	from USMT401	from USMT402	from USMT403		
UAMTP04	Questions	Questions		80	2 hours
	from UAMT401	from UAMT402			

Marks for Journals and Viva:

For each course USMT301/UAMT301, USMT302/UAMT302, USMT303, USMT401/UAMT401, USMT402/UAMT402, USMT3031:

1. Journal: 10 marks (5 marks for each journal).

2.Viva: 10 marks.

Each Practical of every course of Semester III and IV shall contain 10 (ten) problems out of which minimum 05 (five) have to be written in the journal.

A student must have a certified journal before appearing for the practical examination.

In case a student does not posses a certified journal he/she will be evaluated for 120/80 marks. He/she is not qualified for Journal + Viva marks.

xxxxxxx
AC- 23/02/2021 Item No. – 5.3(R)

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	FYBA : Communication Skills in English
2	Eligibility for Admission	10+2
3	Passing Marks	40
4	Ordinances / Regulations (if any)	
5	No. of Years / Semesters	1 Year (semester I and II)
6	Level	P.G. / U.G./ Diploma / Certificate (Strike out which is not applicable)
7	Pattern	Yearly / Semester (Strike out which is not applicable)
8	Status	New / Revised (Strike out which is not applicable)
9	To be implemented from Academic Year	From Academic Year 2021 -2022

Signature :



Date: 21/12/2020 Name of BOS Chairperson / Dean :

Dr. Sudhir Nikam



University of Mumbai

Syllabus for F.Y.B.A

Program: B.A.

Course: Communication Skills in English (Core Paper)

(Choice Based Credit System with effect from the academic year 2021-2022)

Board of Studies in English

Dr. Sudhir Nikam (Chairperson)

Dr. Rajesh Karankal (Member)

Dr. Bhagyashree Varma (Member)

Dr. B. N. Gaikwad (Member)

Dr. Satyawan Hanegave (Member)

Dr. Santosh Rathod (Member)

Dr. Deepa Mishra (Member)

Dr. Dattaguru Joshi (Member)

Dr. Deepa Murdeshwar-Katre (Member)

Syllabus Sub-Committee

Dr. Deepa Murdeshwar-Katre (Convener)	:	Department of English, Vartak College, Vasai Road, Dist Palghar
Dr. Susmita Dey (Member)	:	Department of English and Research Centre (Retd.), V. G. Vaze College, Mumbai
Dr. Sachin Labade (Member)	:	Department of English, University of Mumbai
Mr. Vinodsinh Patil (Member)	:	Department of English, Arts & Commerce College, Phondaghat, Dist.Sindhudurg
Ms Gayatri Gadgil (Member)	:	Department of English, D. G. Ruparel College of Arts, Science and Commerce, Mahim, Mumbai
Mrs. Shanti Polamuri (Member)	:	Department of English, Maharashtra College of Arts, Science and Commerce, Mumbai
Mr. Sanjay Kalekar (Member)	:	Department of English, DRT's A. E. Kalsekar Degree College, Kausa, Thane
Mr. Rameshwar Solanke (Member)	:	Department of English, Khare Dhere - Bhosale College, Guhagar, Dist.Ratnagiri
Dr. S. Vishnu Priya (Member)	:	Department of ELT, SDE, EFLU, Hyderabad.

Course: Communication Skills in English

(80:20 Marks Examination Pattern)

(Choice Based Credit System with effect from the academic year 2021-22)

1. Syl	labus as	s per Credit Based Semester and Gr	ading Sy	ystem:
	i)	Name of the Programme	:	B.A.
	ii)	Course Code	:	UACS 101 & UACS 201
	iii)	Course Titles	:	Communication Skills in English
	iv)	Semester-wise Course Content	:	Enclosed the copy of syllabus
	v)	References and Additional Refere	ences:	Enclosed in the Syllabus
	vi)	Credit Structure	:	No. of Credits per Semester – 02
	vii)	No. of lectures per Unit	:	15
	viii)	No. of lectures per week	:	03 lectures + 01 tutorial
2.	Schen	ne of Examination	:	Written Exam: 4 Questions of 20 Marks each Internal Assessment: 20 marks
3.	Specia	al notes, if any	:	No
4.	Eligib	vility, if any	:	No
5.	Fee Structure		:	As per University Structure
6.	Special Ordinances / Resolutions if any		:	No

Revised Syllabus for FYBA

Communication Skills in English Paper I and Paper II

To be implemented from 2021-22 (80:20 Marks Examination Pattern)

Preamble:

The English language is the dominant medium through which one can connect to the global community. It is, therefore, vital that all learners acquire adequate skills in this language. Communication Skills in English is a core course wherein the first year learners are guided to acquire the four skills of communication viz., Listening, Speaking, Reading and Writing.

The focus of the syllabus is on building confidence in the learners in applying these skills while using the English language both academically and socially. Keeping this in mind, the units will have a multi-pronged approach. The course is graded from basic to higher levels of learning so as to help learners gradually acquire the skills. The 80:20 pattern will also help in accomplishing this goal. The tutorial activities are designed to focus on oral skill development, while the lectures are aimed at honing their cognitive, analytical, linguistic and creative skills.

It is hoped that by the end of the academic year, the learners will have developed confidence in using the English language both for oral and written communication as well as develop interest in enhancing these skills later on.

Objectives:

- 1. To enhance English language proficiency of students by familiarizing them with the skills of Listening, Speaking, Reading and Writing (LSRW)
- 2. To introduce learners to different perspectives of looking at a text or passage
- 3. To equip learners in the functional aspects of English so that they use the acquired language skills correctly and confidently
- 4. To guide learners in the effective use of the digital medium of communication.

Outcomes:

- 1. The learners will learn to understand and interpret any text they are reading from different perspectives
- 2. The interest of learners in listening to and watching good quality audio and visual media will be aroused.
- 3. Learners will acquire proficiency in the skills of listening, speaking, reading and writing that will help them meet the challenges of the world.
- 4. The learners will develop good oral and written skills of communication in the English language.

Periods: 45 lectures + 15 Tutorials (3 lectures + 1 tutorial per week per batch) per semester

All passages, stories, articles, poems selected should help the learners develop different communication skills. Learning through example and practice with a theoretical base is the intention.

Semester I

Communication Skills in English Paper I

Course Content

Unit 1: Introduction to Communication Skills

No. of lectures: 08

English as an international language and varieties of English

- 1. Significance and ways of effective communication in English
- 2. Listening for academic and professional development
- 3. Formal and informal communication in spoken English
- 4. Reading for different purposes
- 5. Features of effective writing skills
- 6. Study skills in English

This unit shall work as theoretical base for the following units that are practical in nature.

Unit 2: Developing Comprehension Skills in English No. of lectures: 12

A. Reading Skills

- 1. Scanning a text for information
- 2. Skimming a passage to look for main ideas, understanding text type
- 3. Guessing meaning of an expression (word/phrase/clause)
- 4. Building inference skills
- 5. Understanding language structure (such as subject verb agreement, voice, direct and reported speech)
- 6. Note making
- 7. Summarizing

Passages from fables, folk stories, short stories, non-fiction, history, business or environment, of around 250-300 words, could be chosen in this unit.

b. Listening Skills

- 1. Listening for main ideas/Gist
- 2. Listening for detail
- 3. Listening for text organization features
- 4. Listening for tone, accent, style and register
- 5. Predicting content and guessing meaning
- 6. Making inferences from the audio-visual text
- 7. Listening for opinion/argument/counter-arguments etc.
- 8. Taking notes

A variety of relevant audio/visual texts as samples may be drawn from various sources. Listening skills in English should be developed through various activities along with the practice done while teaching in the class.

Unit 3: Speaking Skills in English

No of lectures: 15

a. Public Speaking in English

- 1. Introduction
- 2. Characteristics of an effective speech
- 3. Analysis of model speeches
- 4. Drafting and presenting a speech in formal and informal gatherings

b. Conversation in English

- 1. Opening a conversation
- 2. Introducing oneself in various contexts
- 3. Introducing others formally and informally
- 4. Building a conversation
- 5. Leaving and closing a conversation
- 6. Conversation in group in various situations

c. Speaking at an Event

- 1. Anchoring/compering an event
- 2. Introducing guests/ speakers/dignitaries
- 3. Proposing a vote of thanks

A variety of relevant texts as samples may be drawn from print and non-print sources such as books, videos, audio files etc. Speaking skills in English should be developed through various activities along with the practice done while teaching in the class.

Unit 4: Formal Writing Skills

No. of lectures: 10

- i. Letters:
- 1. Job applications with bio data (solicited and unsolicited)
- 2. RTI applications
- 3. Applications for duplicate documents (I-cards / mark sheet, etc.)
 - ii. Emails:
- 1. Job acceptance and joining
- 2. Resignation
- 3. Complaints
- 4. Requests for references
- 5. Request for sponsorship

Tutorial Activities:

- 1. Use of YouTube videos for use of grammar study and practice that may be taken from the list recommended or similar relevant videos.
- 2. Listening to audio clips/ books to enhance listening skills
- 3. Reading aloud from newspapers, magazines, stories, non-fiction followed by classroom discussion on these to enhance reading and speaking skills
- 4. Making short presentations on given topics
- 5. Official letter writing/ email writing exercises

Communication Skills in English Paper II

Course Content

Unit 1: English Usage in Communication

No. of lectures: 08

- 1. Distinction between American English and British English
- 2. Indianism and Indian English
- 3. Appropriacy in the Use of English
- 4. Non-verbal Communication
- 5. Elevator Pitch
- 6. Information and Communication Technology and Use of English
- 7. Modes and Types of Interview
- 8. Principles of Creative Writing

This unit shall work as theoretical base for the following units that are practical in nature.

Unit 2: Enhancing Reading Competencies

No. of lectures: 12

A variety of passages of 200-250 words may be taken such as extracts from novels, short stories, plays, magazine, newspapers, reports, documents, academic texts. The passages should have complex text type, function and lexis. The learners may be encouraged to gather meaning contextually or by referring to offline and online sources such as dictionary, thesaurus, and encyclopedia.

- 1. Augmenting active vocabulary
- 2. Understanding relations between parts of a text
- 3. Transferring information (Verbal to Non-Verbal)
- 4. Understanding concepts and arguments,
- 5. Developing skills in analysis and interpretation
- 6. Rewriting a passage from a defined perspective
- 7. Reading critically (presenting a reasoned argument that evaluates and analyses what you have read)

Weightage of questions on texts -

- a. On vocabulary, synonyms and antonyms, prefixes and suffixes, collocations, making sentences of their own from the idioms or difficult words in the extract (50%)
- b. On writing their opinions, perspectives on the passages in longer, more descriptive ways (50%)

Unit 3: Advanced Oral Communication Skills

No. of lectures: 15

- A. Presentation skills: (Formal presentations and skits)
 - 1. Planning and structuring
 - 2. Opening and closing a presentation
 - 3. Use of body language
 - 4. Use of technology in making a presentation
 - 5. Drafting a skit (Not to be tested in theory exam)
 - 6. Reading of a skit
 - 7. Presenting a skit

Students are advised to prepare their own presentation scripts. Teachers should help them in drafting, reading and presenting those scripts in the class.

- B. Group Discussion
 - 1. Formal and informal discussion
 - 2. Elements of group discussion
 - Using appropriate language: Initiating, seeking and giving opinions, suggesting, responding to a suggestion, agreeing, disagreeing, interrupting, requesting, clarifying, summing up
 - 4. Types of discussion:

Giving and sharing opinions of a given topic, making decisions, problem solving (case study)

C. Interview Skills

- 1. Interviewing others
 - Researching the interviewee (writer, social worker, entrepreneur, actor etc.)
 - Preparing questions
 - Conducting interview
- 2. Attending an Interview (Job/Entrance)
 - Researching the organization
 - Reviewing job-profile and your bio-data/CV
 - Preparing for standard questions
 - Responding to questions
 - Preparing your questions to ask to the interviewer/s
- 3. Analyzing Interviews

Students can be tested on forming actual interview frameworks including questions. Teachers must form the groups and conduct actual interviews involving full strength of students.

Unit 4: Advanced Writing Skills

No. of lectures: 10

- A. Report Writing:
 - 1. News report
 - 2. Activity/Event report
- B. Creative Writing:
 - 1. Personal Essay
 - 2. Memoir
 - 3. Short Speech on the given occasion/ event
 - 4. Story writing

Tutorial Activities:

- 1. Dialogue-writing exercises
- 2. Writing skits and presenting them
- 3. Giving speeches
- 4. Group discussions
- 5. Mock Interviews

- 6. Development of stories, passages from hints given, in about 200-250 words
- 7. Report writing tasks
- 8. Statement of Purpose

Evaluation Pattern:

		Marks	Remarks
1	Performance in Tutorial activities	10	 Sem I Learners may be asked to make presentations, hold conversation in class, whichwill be assessed Sem II Learners may be asked to participate in group discussions or mock interviews in class, which will be assessed
2	Participation in classes (lectures and tutorials)	05	Learners' response to teaching, timely submission of tasks will be assessed
3.	Overall attendance (lectures and tutorials)	05	Percentage of learners' attendance in class to be considered

A. Internal Evaluation (20 Marks)

B. Written Examination: (80 marks)

Semester I: 4 questions carrying 20 marks each

Q. No.	Question details	Marks		
1	Short Notes (4 out of 6) from Unit 1			
2	 Unseen Passage (200-250 words) (Unit 2) a. On content, the use of tenses, articles, prepositions, direct-indirect speech and concord, voice, word meanings - (50%) b. On reading sub-skills (pointing out main ideas and supporting details, making inferences) (50%) 	10 10		

3	Any four to be attempted from given options (based on Unit 3)	
	 a. Preparing a speech on a given topic b. Questions on introducing self and others c. Develop a conversation on a given situation\ d. Introducing speakers/guests in a given event e. Drafting vote of thanks at a given event 	20
4	a. Job application with bio data	08
	b. RTI letter	07
	c. Email writing (1 out of 2)	05

Semester II: 4 questions carrying 20 marks each

Q.	Question details	Marks
No.		
1	Short Notes (4 out of 6) on theory from Unit 1	20
2	Unseen Passage (200-250 words) (Unit 2)	
	a. On content, synonyms and antonyms, prefixes and suffixes, collocations, making sentences of their own from the idioms or difficult words in the passage (50%)	10
	 b. On other sub-skills (such as writing their opinions, perspectives on the passages in longer, more descriptive ways (50%) 	10
3	Any Two out of Three to be attempted (based on Unit 3)	20
	a. Preparing a draft of presentation on a given topic	
	b. Preparing a draft for a mock interview based on the given	
	instructions	
	c. Preparing a draft of a group discussion on a given topic &	
	instructions	

4	Report writing (1 out of 2) 0	08
	a. Personal essay/Memoir 0	07
	b. Story Writing/Speech 0	05

Recommended Reading:

- Bellare, Nirmala. *Reading & Study Strategies*. Books. 1 and 2. Oxford University Press, 1997, 1998
- Bellare, Nirmala. *Easy Steps to Summary Writing and Note-Making*. Amazon Kindle Edition, 2020
- Comfort, Jeremy, et al. *Speaking Effectively: Developing Speaking Skills for Business English.* Cambridge University Press, 1994.
- Das, Bikram K., et. al. *An Introduction to Professional English and Soft Skills*. Cambridge University Press India Pvt. Ltd., 2010
- Das, Yadjnaseni & R. Saha (eds.) *English for Careers*. Pearson Education India, 2012.
- Devlin, Joseph. How to Speak And Write Correctly. New York, The Christian Herald, 1910
- Dimond-Bayir, Stephanie. Unlock Level 2 Listening and Speaking Skills Student's Book and Online Workbook: Listening and Speaking Skills Student's Book+ Online Workbook. Cambridge University Press, 2014.
- Doff, Adrian and Christopher Jones. Language in Use (Intermediate and Upper Intermediate). CUP, 2004.
- Glendinning, Eric H. and Beverley Holmstrom. Second edition. *Study Reading: A Course in Reading Skills for Academic Purposes*. CUP, 2004
- Goodale, Malcolm. *Professional Presentations Video Pack: A Video Based Course*. Cambridge University Press, 1998.
- Grellet, F. Developing Reading Skills. Cambridge: Cambridge University Press, 1981

- Grussendorf, Marion. English for Presentations. Oxford University Press, 2007.Hamp-Lyons, Liz and Ben Heasiey. Second edition. Study Writing: A Course in Writing Skills for Academic Purposes. CUP, 2006
- Kumar, Sanjay and Pushp Lata. *Communication Skills*. Second Edition. New Delhi, 2011. Oxford University Press, 2015
- Lewis, N. *How to Read Better & Faster*. New Delhi, Goyal Publishers & Distributors Pvt. Ltd, 2006.
- McCarthy, Michael and Felicity O'Dell. *English Vocabulary in Use*. Cambridge: Cambridge University Press, 2001.
- Mohan, RC Sharma Krishna. *Business Correspondence and Report Writing*. Third edition. Tata McGraw-Hill Education, 2002.
- Murphy, Raymond, et al. *Grammar in use: Intermediate*. Cambridge University Press, 2000
- Richards, Jack C., and Chuck Sandy. *Passages Level 2* Student's Book. Cambridge University Press, 2014.
- Sadanand, Kamlesh & S. Punitha. Spoken English: A Foundation Course. (Part 1 & 2). Orient Blackswan. 2009.
- Sasikumar, V., et al. *A Course in Listening & Speaking I.* 2005. Cambridge University Press India Pvt. Ltd. (under the Foundation Books Imprint), 2010
- Savage, Alice, et al *Effective Academic Writing*. Oxford: OUP, 2005
- Sethi, J. *Standard English and Indian usage: Vocabulary and grammar*. PHI Learning Pvt. Ltd., 2011.
- Taylor, Grant. English Conversation Practice. 1967. Tata McGraw-Hill, 2013
- Turton, Nigel D. A B C of Common Grammatical Errors. 1995. Macmillan India Ltd., 1996
- Vas, Gratian. English Grammar for Everyone. Mumbai, Shree Book Centre, 2015
- Watson, T. Reading Comprehension Skills and Strategies: Level 6. Saddleback Educational
- Publishing, 2002
- Wright. Andrew, et al. Games for Language Learning: Cambridge Handbooks for Language Teachers (Third Edition). 2006. Cambridge (UK), Cambridge University Press, 2010

Web link Resources:

- A rendezvous with Simi Garewal: Ratan Tata :_
 <u>https://www.youtube.com/watch?v=ozetTgOHu78&t=510s</u>Here Ratan Tata discusses his personal life, his expectations, his experience as a CEO of Tata and sons.
- A rendezvous with Simi Garewal: Kiran Bedi:
 <u>https://youtu.be/vX2NyKvEAXQ</u>
 In this video, Kiran Bedi shares her daring adventures, her field, her passion for career with Simi Garewal.
- In Conversation: Rajiv Mehrotra with J.R.D.Tata: <u>https://youtu.be/68otfg601HI</u>
 J. R. D. Tata discloses his dream of India, his experiences with Pandit Nehru, Mahatma Gandhi, Sardar Patel and his contribution to modern India.
- 4. The Tharoor Guide To Indian English: <u>https://youtu.be/NsyI9LIXbFM</u>

Shashi Tharoor talks of new words like "defenstrate", "brinjol"; talks about Indian English, ethnicity and so on.

- Dr.A.P.J Abdul Kalam on Discovery, invention and innovation:<u>https://youtu.be/9CKCfiX3uO0</u> Dr. Kalam addresses IIT Delhi students.
- 6. Malala Yousafzai's speech on the occasion of her Nobel Peace Prize (2014) on education:<u>https://youtu.be/c2DHzlkUI6s</u>
- 7. Kailash Satyarthi's speech on the occasion of Nobel Peace Prize(2014) on the innocence of children; he gives voice to voiceless in his speech:https://youtu.be/wt0LSCEuc M
- 8. Speech by Mr. Ratan Tata: <u>https://youtu.be/m7-tKX7aZXM</u>
- 9. "I Have a Dream" speech by Martin Luther King Jr. HD (subtitled) <u>https://www.youtube.com/watch?v=vP4iY1TtS3s</u>
 "I Have a Dream" is a public speech that was delivered by American civil rights activist Martin Luther King Jr. during the March on Washington for Jobs and Freedom on August 28, 1963, in which he called for civil and economic rights and an end to racism in the United States.
- 10. Speech by Emma Watson on Gender Equality :<u>https://youtu.be/nIwU-9ZTTJc</u>
- 11. Imaginative science video: Could humans live in underwater cities? https://youtu.be/GUGtU7Ii1yk
- 12. A conversation about household appliances: <u>https://youtu.be/rAPl0fSborU</u>
- 13. Video on psychology: Why do we dream? <u>https://youtu.be/2W85Dwxx218</u>
- 14. Video on space: Solar system 101: <u>https://youtu.be/libKVRa01L8</u>
- 15. Video on evolution: How Apocalypses paved the way for Humans <u>https://youtu.be/libKVRa01L8</u>
- 16. Video on biology: Why Bats Aren't as Scary as You Think https://youtu.be/D6e_qh3YRPs
- 17. Video on social media: What is a social media influencer? https://youtu.be/39A3og7enz8
- 18. Tips on communication (TED Talk): The Secrets of Learning a New Language<u>https://youtu.be/o_XVt5rdpFY</u>
- 19. Expressing opinions: If Cinderella Were a Guy:<u>https://youtu.be/p4OyCNctKXg</u>
- 20. Telling stories without words: Partly Cloudy https://youtu.be/ix13P9NqBjo
- 21. Telling stories without words: Tree of Unity <u>https://youtu.be/sAo41Gyl6hY</u>

- 22. Bonding over the Radio: A special storytelling series by the much loved author Ruskin Bond: akashvaniair <u>https://youtu.be/oxf60BIR2Q4</u> <u>https://youtu.be/ISX7rUOJOms</u> <u>https://youtu.be/rrC_s0XPXKI</u> <u>https://youtu.be/FUML3q1ncF0</u> <u>https://youtu.be/3by_ninqRzg</u>
- 23. Video on the English language: Where did English come from? https://youtu.be/YEaSxhcns7Y
- 24. Video on biology: The science of skin colour: <u>https://youtu.be/_r4c2NT4naQ</u>
- 25. Video on advertising: The Science of Persuasion <u>https://youtu.be/cFdCzN7RYbw</u>
- 26. "The Happy Prince" Oscar Wilde Michael Mills Classic Animated Short 1974 <u>https://www.youtube.com/watch?v=q3RZh1yaqxM</u> Learners may be encouraged to watch animated stories such as this one and questions asked later on.

AC_____ Item No. _____

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	FYBA Optional English: 'Introduction to Prose and Fiction'
2	Eligibility for Admission	10+2
3	Passing Marks	40
4	Ordinances / Regulations (if any)	
5	No. of Years / Semesters	1 Year (Semester I and II)
6	Level	P.G. / U.G./ Diploma / Certificate (Strike out which is not applicable)
7	Pattern	Yearly / Semester (Strike out which is not applicable)
8	Status	New / Revised (Strike out which is not applicable)
9	To be implemented from Academic Year	From Academic Year 2021-2022





University of Mumbai

Syllabus for F.Y.B.A

Program: B.A.

Course: Introduction to Prose and Fiction

(Choice Based Credit System with effect from the academic year 2021-2022)

Board of Studies in English

Dr. Sudhir Nikam (Chairperson)

Dr. Rajesh Karankal (Member)

Dr. Bhagyashree Varma (Member)

Dr. B. N. Gaikwad (Member)

Dr. Satyawan Hanegave (Member)

Dr. Santosh Rathod (Member)

Dr. Deepa Mishra (Member)

Dr. Dattaguru Joshi (Member)

Dr. Deepa Murdeshwar-Katre (Member)

Syllabus Sub-Committee

Dr. Rajesh Karankal	:	Convenor, Head, Department of English, University of Mumbai
Dr. Rajesh Yeole	:	Member, Head, Department of English, Changu Kana Thakur A.C.S.College, New Panvel,
Ms. Sumali Bose	:	Member, Department of English, N.E.S Ratnam College, Mumbai
Dr. Shweta Salian	:	Member, Department of English, Mithibai College, Mumbai
Dr. Satyajit Kosambi	:	Member, Department of English, Sathaye College, Mumbai
Dr. Bharat Tupere	:	Member, Department of English, Sant Rawool Maharaj College, Kudal

Course: Introduction to Prose and Fiction

(100 Marks Examination Pattern)

(Choice Based Credit System with effect from the academic year 2021-22)

1. Syl	llabus as	s per Credit Based Semester and Gr	ading Sy	/stem:
	i)	Name of the Programme	:	B.A.
	ii)	Course Code	:	UAENG 101 & UAENG 201
•	iii)	Course Titles	:	Introduction to Prose and Fiction Paper – I and II
	iv)	Semester-wise Course Content	:	Enclosed the copy of syllabus
	v)	References and Additional Refere	ences:	Enclosed in the Syllabus
	vi)	Credit Structure	:	No. of Credits per Semester – 03
	vii)	No. of lectures per Unit	:	15
	viii)	No. of lectures per week	:	04
2.	Scher	ne of Examination	:	Written Exam: 5 Questions of 20 Marks each
3.	Speci	al notes, if any	:	No
4.	Eligib	oility, if any	:	No
5.	Fee Structure		:	As per University Structure
6.	Special Ordinances / Resolutions if any		:	No

Revised Syllabus for FYBA Optional English

Introduction to Prose and Fiction Paper I and II

To be implemented from 2021-22 (100 Marks Examination Pattern)

Objectives of the Course:

- To create interest and develop passion amongst learners towards English Literature
- To familiarize learners with salient characteristics of literary genres like short story, prose, fiction and non-fiction
- To introduce learners to various elements of selected short stories written in English and translated into English
- To acquaint learners with different forms of prose and its importance through close reading of selected works
- To understand that literature is an expression of human values and universal truths

Course Outcomes:

- To develop passion for reading literary works amongst students
- To make learners at ease in the process of appreciation of literature
- To enable learners to understand and analyze selected stories, prose, fiction and nonfiction masterpieces
- To imbibe the underlying philosophy and values reflected in literature
- To develop sensitivity to nature and understand the relationship between human beings and environment

Semester I

Optional English: Introduction to Prose and Fiction Paper I

Course Content

Unit 1:

Development of Short Story, Elements of Short Story: Plot, Character, Setting, Narrative, Development of Essay, Features of Prose writing, Types of Prose, Autobiography

Unit 2:

No. of lectures: 15

• O' Henry	:	"The Cop and the Anthem"
• Ray Bradbury	:	"A Sound of Thunder"
Rabindranath Tagore	:	"The Kabuliwala"
Bernard Malamud	:	"The Jewbird"
Baburao Bagul	:	"Mother"
• Ken Liu	:	"The Paper Menagerie"

Unit 3:

No. of lectures: 15

•	Sir Francis Bacon	:	"Of Marriage and Single Life" and "Of Revenge"
•	Charles Lamb	:	"The Two Races Of Men"
•	Ralph Waldo Emerson	:	"Self – Reliance"
•	W.E.B. du Bois	:	"Strivings of the Negro People"
•	Shobha De	:	From "Speedpost": "Dear Arundhati"Aug'99 and
			"Dear Aditya" June 99
•	Subroto Bagchi	:	From Go kiss the world: "Learning to Listen"
			(p. 145-150) and "Who Is a Good Leader?"
			(p. 150-155)

No. of lectures: 15

Evaluation: First Semester End Examination Pattern 100 Marks: 3 Hours

Question 1	:	Short Notes on Unit 1 (4 out of 6)	:	20 Marks
Question 2	:	Essay on Unit 2 (1 out of 2)	:	20 Marks
Question 3	:	Essay on Unit 3 (1 out of 2)	:	20 Marks
Question 4	:	Short Notes on Unit 2 (2 out of 4)	:	20 Marks
Question 5	:	Short Notes on Unit 3 (2 out of 4)	:	20 Marks

Semester II

Optional English: Introduction to Prose and Fiction Paper II

Course Content

Unit 1:

Novella, Aspects of Novel, Children's Fiction, Adventure Novel, Mystery novel, Science Fiction, Social Novel, Philosophical Novel, Historical Novel

Unit 2:

- John Steinbeck: *The Pearl* OR
- Ruskin Bond: The Blue Umbrella

Unit 3:

- R.K. Narayan: *The Financial Expert* OR
- Isaac Asimov: *Fantastic Voyage*

Evaluation: Second Semester End Examination Pattern 100 Marks: 3 Hours

Question 1	:	Short Notes on Unit 1 (4 out of 6)	:	20 Marks
Question 2	:	Essay on Unit 2 (1 out of 2)	:	20 Marks
Question 3	:	Essay on Unit 3 (1 out of 2)	:	20 Marks
Question 4	:	Short Notes on Unit 2 (2 out of 4)	:	20 Marks
Question 5	:	Short Notes on Unit 3 (2 out of 4)	:	20 Marks

No. of lectures: 15

No. of lectures: 15

No. of lectures: 15

References:

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AC - 17/05/2022 Item No. - 5.1(R)

UNIVERSITY OF MUMBAI



Revised Syllabus for S.Y.B.A. (English) (Ancillary) and (Applied Component) Semester - Sem V and VI (Choice Based Credit System)

(With effect from the academic year 2022-23)

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. N	lo. Heading	Particulars	
1	Title of the Course	S.Y.B.A. (English) (Ancillary) and (Applied Component) F.Y.B.A. 40%	
2	Eligibility for Admission		
3	Passing Marks		
4	Ordinances / Regulations (if any)		
5	No. of Years / Semesters	02 years & 04 semesters	
6	Level	P.G. / U.G. / Diploma / Certificate (Strike out which is not applicable)	
7	Pattern	Yearly / Semester (Strike out which is not applicable)	
3	Status	New / Revised (Strike out which is not applicable)	
1 fi	To be implemented rom Academic Year	From Academic Year 2022-2023	

Date: 25/10/2021

Signature :

Name of BOS Chairperson / Dean

C. Dr. Sudhir Nikam


University of Mumbai Revised Syllabus for S.Y.B.A. (English)

(Ancillary) & (Applied Component)

Semester- III / IV

(Choice Based Credit System) With effect from the academic year 2022-23

Board of Studies in English

Dr. Sudhir Nikam (Chairperson)

Dr. Rajesh Karankal (Member)

Dr. Santosh Rathod (Member)

Dr. Bhagyashree Varma (Member)

Dr. B. N. Gaikwad (Member)

Dr. Satyawan Hanegave (Member)

Dr. Deepa Mishra (Member)

Dr. Dattaguru Joshi (Member)

Dr. Deepa Murdeshwar-Katre (Member)



University of Mumbai

Syllabus for S.Y.B.A. (English) (Ancillary)

Program: B.A.

Course: Optional English: Introduction to Drama

Paper II

(Choice Based Credit System with effect from the Academic Year 2022- 2023)

1. Syllabus as per Choice Based Credit System (CBCS):

i)	Name of the Program	: S.Y.B.A. English (Ancillary)
ii)	Course Code	: Semester III UAENG301 & Semester IV UAENG401
iii)	Course Title	: Optional English: Introduction to Drama Paper II
iv)	Semester wise Course Contents	: Enclosed the copy of the syllabus
v)	References and Additional Refere	ences: Enclosed in the Syllabus
vi)	Credit Structure	03
vii)	No. of lectures per Unit	15
viii)	No. of lectures per week	03
2.	Scheme of Examination	: 5 Questions of 20 marks each
3.	Special notes, if any	: No
4.	Eligibility, if any	: No
5.	Fee Structure	: As per University Structure

6. Special Ordinances / Resolutions if any: No.

SYBA English (Ancillary) Course Title

Optional English: Introduction to Drama

Paper II

(100 Marks Examination Pattern)

Objectives of the Course:

- To create interest and develop passion amongst learners towards drama (and theatre)
- To familiarize learners with the salient elements and characteristics of drama
- To introduce learners to different forms and types of drama
- To introduce learners to the trends and characteristics of significant dramatic movements through representative dramas
- To equip the learners with the tools and techniques to critically appreciate drama
- To inculcate and propagate human values reflected in the plays among learners
- To demonstrate that drama is reflection / representation of life
- To Develop analytical skills and critical thinking through close reading of drama

Course Outcomes:

By the end of the course, a learner will:

- develop interest and passion for drama (and theatre).
- be familiarized with the salient elements and characteristics of drama.
- be able to identify the different forms and types of drama.
- be capable to identify the various trends and characteristics of significant dramatic movements through the representative dramas.
- be equipped with the tools and techniques to critically appreciate drama.
- imbibe human values reflected in the selected plays.
- justify that drama is reflection / representation of life.
- develop analytical skills and critical thinking through close reading of the representative dramas.

Semester III:	Paper II	Total Credits: 03
	Course Title: Optional English: Introduc	tion to Drama

Total Lectures: 45

Course Content

Unit 1:

No. of lectures: 15

Definition, Concept and Significance of Drama

Origin and Development of Drama

Terms and Concepts associated with Drama:

Plot (Main Plot, Sub-plot, Simple, Complex, Peripeteia and Anagnorisis, Exposition,

Complication, Resolution, Denouement, Climax, Anti-climax)

Character (Hero, Villain, Confidante, Foil)

Act and Scene,

Soliloquy and Aside,

Music, Chorus Lights, Masks, Proscenium Arch, Play within Play, Subtext, Catharsis, Hamartia, Comic relief, Unity of action, time and place, Narrator and Sutradhar, etc.

Unit 2:

No. of lectures: 15

Sophocles	: Oedipus Rex / Oedipus, The King
John Galsworthy	: Strife

Unit 3:

No. of lectures: 15

Girish Karnad : Flowers OR : Half-way House (Adhe Adhure) Mohan Rakesh

Evaluation: First Semester End Examination Pattern 100 Marks: 3 Hours

Question 1	:	Short Notes on Unit 1 (4 out of 6)	:	20 Marks
Question 2	:	Essay on Unit 2 (1 out of 2)	:	20 Marks
Question 3	:	Essay on Unit 3 (1 out of 2)	•	20 Marks
Question 4	:	Short Notes on Unit 2 (2 out of 4)	•	20 Marks
Question 5	:	Short Notes on Unit 3 (2 out of 4)	:	20 Marks

Total Lectures: 45

Course Content

Unit 1:

No. of lectures: 15

Types of Drama (based on form, content, function, theme, style, etc.): Interlude, Chronicle Plays, Mystery Plays, Miracle Plays, Morality Plays, Romantic Comedy, Comedy of Humours, Restoration Comedy of Manners, Sentimental Comedy, Senecan Plays or Revenge Plays, History Plays, Heroic Drama, Blank Verse Drama, Poetic Drama / Verse Drama, Drama of Ideas / Problem Play, Expressionist Plays, Epic Theatre, Absurd Plays, Plays by Angry Young Men, Kitchen Sink Drama, Theatre of Cruelty, Comedy of Menace, etc.

Unit 2:

Eugene O'Neil : *The Hairy Ape* OR Lorraine Hansberry : *A Raisin in the Sun*

Unit 3:

Wole Soyinka : *The Lion and the Jewel* OR David Williamson : *The Removalists* No. of lectures: 15

No. of lectures: 15

Evaluation: Second Semester End Examination Pattern 100 Marks: 3 Hours

Question 1	:	Short Notes on Unit 1 (4 out of 6)	:	20 Marks
Question 2	:	Essay on Unit 2 (1 out of 2)	:	20 Marks
Question 3	:	Essay on Unit 3 (1 out of 2)	:	20 Marks
Question 4	:	Short Notes on Unit 2 (2 out of 4)	:	20 Marks
Question 5	:	Short Notes on Unit 3 (2 out of 4)	:	20 Marks

References:

Abrams, M. H. and Harpham, Geoffrey Galt. A Glossary of Literary Terms. Cengage Learning, 2015.

Ackerman, Alan Louis, editor. *Reading Modern Drama*. University of Toronto Press, 2012. Albert, Edward. *History of English Literature*. Oxford UP, 2009.

Andermahr, Sonya. et al. A Glossary of Feminist Theory. Arnold, 2000.

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- Kennedy X. J. and Dana *Gioia. An Introduction to Fiction, Poetry, and Drama*. HarperCollins College Publishers Inc., 1995.
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- Prasad, Birjadish. Background of the Study of English Literature. Macmillan, 1999.
- Pritner, Cal, and Scott E. Walters. Introduction to Play Analysis. Waveland Press, 2017.
- Quinn, Edward. A Dictionary of Literary and Thematic Terms. Facts on File Inc., 2006.
- Rakesh, Mohan. Halfway House. Translated by Bindu Batra. Worldview Publications, 1999.
- Rees, R. J. English Literature: An Introduction to Foreign Readers. Macmillan, 1982.
- Rush, David. A Student Guide to Play Analysis. Carbondale, IL: Southern Illinois UP, 2005.
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Sanders, Andrew. The Short Oxford History of English Literature. Oxford UP, 2004.
Shepherd-Barr, Kirsten. Modern Drama: A Very Short Introduction. Oxford UP, 2016.
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Soyinka, Wole. The Lion and the Jewel. Oxford UP, 1974.
Styan, J. L. Elements of Drama. Cambridge UP, 2001.
Styan, J. L. Modern Drama in Theory and Practice. Cambridge UP, 1980.
Turco, Lewis. The Book of Literary Terms. UP of New England, 1999.
Walsh William, Commonwealth Literature. Oxford UP, 1973.
Widdowson, Peter. The Palgrave Guide to English Literature and its Contexts 1500-2000. Palgrave Macmillan, 2004.

Williamson, David. The Removalists. Currency Press, 1980.

Activity: Students should be encouraged to perform any scene or act from any play.

MOOCs:

Merin Simi Raj. Twentieth Century American Drama. IIT Madras. https://nptel.ac.in/noc/courses/noc21/SEM2/noc21-hs75/

Prof. Aysha Iqbal. American Literature and Culture. IIT Madras. https://nptel.ac.in/noc/courses/noc21/SEM2/noc21-hs63/

Chattopadhyay, Sayan. 'Introduction to Literary Theory.' IIT Kanpur. https://onlinecourses.nptel.ac.in/noc20_hs82/preview

Perui, Avishek . 'Gender and Literature'. IIT Madras. https://onlinecourses.nptel.ac.in/noc20_hs59/preview

Raj, Merin Simi. 'History of English Language and Literature'. IIT Madras. https://onlinecourses.nptel.ac.in/noc20_hs52/preview_

Perui. Avishek. 'Feminists Writings'. IIT Madras. https://onlinecourses.nptel.ac.in/noc20_hs58/preview

Web Resources:

- 1. <u>https://youtu.be/2CVO9Vd067U</u> (Greek Theatre Explained)
- 2. <u>https://youtu.be/4_XPcAwmuLg</u> (Ancient Greek Theatre and Machinery)
- 3. <u>https://ingilizedebiyati.net/wp-content/uploads/ABSURD_DRAMA.pdf</u> The Theatre Of The Absurd: The Basics
- 4. <u>https://asianethnology.org/downloads/ae/pdf/a430.pdf</u> Indian Folk Traditions and the Modern Theatre
- 5. <u>https://www.mansworldindia.com/currentedition/from-the-magazine/drama-mahesh-dattanis-life/</u>
- 6. <u>https://en.wikipedia.org/wiki/Indian_classical_drama#:~:text=The%20term%20Indian%20</u> <u>classical%20drama,highest%20achievement%20of%20Sanskrit%20literature</u>. (Indian Classical Drama)
- 7. <u>http://www.unishivaji.ac.in/uploads/distedu/Home/SIM%202015/B.%20A.%20III%20Un</u> <u>derstanding%20Drama%20Paper-9.PDF</u> Understanding Drama

- 8. <u>http://notedesk.blogspot.com/2017/05/allied-i-background-to-study-of-english.html</u> Elements of Drama
- 9. <u>http://notedesk.blogspot.com/2017/05/allied-paper-ii-background-to-study-of.html</u> Drama
- 10. <u>https://web.archive.org/web/20051107010423/http://www.hccy.cg.catholic.edu.au/home/pamela_cohen/removalists/removalistindex.htm</u> The Removalists: A Study Guide

Syllabus Drafting Committee

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- Shankar Pandurang Khobare: Assistant Professor, Department of English, S. K. Patil Sindhudurg Mahavidyalaya, Malvan, Dist. Sindhudurg, 416606.
- Surendra Athawale: Assistant Professor, Department of English, Vikas College Of Arts, Science & Commerce, Vikas High School Marg, Kannamwar Nagar–2, Vikhroli (East), Mumbai 400083.



1. Syllabus as per Choice Based Credit System (CBCS):

i) Name of the Program : S.Y.B.A. English (Ancillary)

ii)	Course Code	: Semester III UAENG302
		& Semester IV UAENG402
iii)	Course Title	: Optional English: Introduction to Poetry Paper III
iv)	Semesterwise Course Contents	: Enclosed the copy of the syllabus
v)	References and Additional Refere	ences: Enclosed in the Syllabus
vi)	Credit Structure	03
vii)	No. of lectures per Unit	15
viii)	No. of lectures per week	03
2.	Scheme of Examination	: 5 Questions of 20 marks each
3.	Special notes , if any	: No
4.	Eligibility, if any	: No
5.	Fee Structure	: As per University Structure

6. Special Ordinances / Resolutions if any: No.

SYBA English (Ancillary) Course Title: Optional English: Introduction to Poetry Paper III (100 Marks Examination Pattern)

Objectives of the Course:

- To introduce students to different genres and forms of poetry
- To sensitize them to the rhythmical and formal properties of poetry by introducing key elements of poetry
- To provide them with basic poetic devices for analyzing poems
- To introduce them to the trends and characteristics of significant poetic movements through representative poems
- To develop their skills in reading, writing and to critically appreciate poetry
- To introduce students to poetry produced in various social and cultural context

Course Outcome: By the end of the course, a student should develop the ability to:

- Identify different genres and forms of poetry
- Identify poetic technique, style and rhetorical devices used in poetry
- Critically appreciate poems by separating various component parts and investigating the relationship of the parts to the whole
- Demonstrate understanding of wide range of poems from different historical periods, written in a wide range of forms, styles and subject matter
- Identify the major poets of world literature and define the importance of their works
- Enhance their cultural sensitivity through reading of representative poems from diverse cultural context

Sei	mester III:	Paper III	Total Credits: 03
	Cours	e Title: Optional English: Introduction to Poet	ry
Unit I		I otal	Lectures: 45 15 Lectures
A)	Elements of Poetry:	Furns of Speech: Voice and persona, tone, mood,	attitude; Diction:
	Denotation and conno	otation; Imagery; Symbol; Allegory; Figurative 1	Language; Music:
	Rhyme and Rhythm,	Scansion (scansion to be taught and practiced; not	for evaluation)
B)	Types of Verse: Natu	re, characteristics and functions: Epic, lyric, sonn	et, elegy, ode,
	ballad, dramatic mono	logue and free verse	
Unit I	I John Milton	:'Invocation' (from Paradise Lost), Book 1, Line	15 Lectures es 1-26
	Robert Frost	:'The Road Not Taken'	
	Edmund Spenser	: 'Men Call you Fayre'(Amoretti LXXIX)	
	William Shakespeare :	Sonnet 19, 'Devouring Time, blunt thou the Lior	n's paws'
	Walt Whitman	:'O Captain! My Captain!'	
	Ralph Waldo Emersor	n: 'Ode to Beauty'	
	W. B. Yeats	: 'The Song of Wandering Aengus'	
Unit I	II John Keats	: 'La Belle Dame sans Merci'	15 Lectures
	Alfred Lord Tennyson	:: 'Ulysses'	
	Rabindranath Tagore	: 'Freedom'	
	Sarojini Naidu	: 'Indian Weavers'	
	Wole Soyinka	: 'To My First White Hairs'	
	Pablo Neruda	: 'You Start Dying Slowly'	
	Nissim Ezekiel	: 'Enterprise'	

Evaluation Pattern:

Third Semester	End Examination Pattern	n Duration: 3 Hou	irs	Marks: 100
Question 1(A):	Short notes on Unit I (A)	(2 out of 4)	:10 Marks	
and				
Question 1 (B):	Short notes on Unit I (B)	(2 out of 4)	:10 Marks	
Question 2: Ess	ay on Unit II	(1out of 3)	:20 Marks	
Question 3: Ess	ay on Unit III	(1 out of 3)	:20 Marks	
Question 4: Shore	rt Notes on Unit II	(2 out of 4)	:20 Marks	
Question 5: Sho	rt Notes on Unit III	(2 out of 4)	:20 marks	

	Course Title: Introduction to Poetry	
	То	tal Lectures: 45
Unit I: Trends and Moveme Modernism, War Poetry, Har	e nts in Poetry: Modernism and after lem Renaissance, Imagism, Symbolism, Su	15 Lectures rrealism, Confessional Poetry,
Beat poetry, Modernism in Ir	ndian English Poetry	
Unit II		15 Lectures
T.S. Eliot	:'The Love Song of J. Alfred Prufrock'	
Wilfred Owen	:'Anthem for Doomed Youth'	
Claude McKay	:'If We Must Die'	
William Carlos Willia	ams :'The Red Wheelbarrow'	

Paper III

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Total Credits:03

Wallace Stevens:'Sunday Morning'Kamala Das:'An Introduction'Arun Kolatkar:'The Bus'

Unit III

Semester IV:

II		15 Lectures
Phillip Larkin	:'Church Going'	
Robert Creeley	: 'I Know a Man'	
Meena Kandasamy	:'Touch'	
Gabriel Okara:	: 'The Mystic Drum'	
Chinua Achebe	: 'Refugee Mother and Child'	
Margaret Atwood	: 'This is a Photograph of Me'	
Derek Walcott	: 'A Far Cry from Africa'	

Evaluation Pattern:

Fourth Semester End Examination Patte	rn Duration: 3 Hou	urs Marks: 100
Question 1: Short notes on Unit I	(4 out of 6)	:20Marks
Question 2: Essay on Unit II	(1out of 3)	:20 Marks
Question 3: Essay on Unit III	(1 out of 3)	:20 Marks
Question 4: Short Notes on Unit II	(2 out of 4)	:20 Marks
Question 5: Short Notes on Unit III	(2 out of 4)	:20 marks

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- Friedlander, Benjamin. (ed.) Robert Creeley: Selected Poems 1945-2005. University of California Press, 2008.
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Perui, Avishek . 'Gender and Literature'. IIT Madras.

https://onlinecourses.nptel.ac.in/noc20 hs59/preview

Raj, Merin Simi. 'History of English Language and Literature'. IIT Madras.

https://onlinecourses.nptel.ac.in/noc20 hs52/preview

Perui. Avishek. 'Feminists Writings'. IIT Madras.

https://onlinecourses.nptel.ac.in/noc20 hs58/preview

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University of Mumbai Syllabus for S.Y.B.A. (Applied Component) **Course: Business Communication** Paper I & II (Choice Based Credit System with effect from the Academic Year 2022-2023)

1. Syllabus as per Choice Based Credit System (CBCS):

i. Name of the Program	: S.Y.B.A. (Applied Component)	
ii. Course Code	: Semester III (UABC301)	
	Semester IV (UABC401)	
iii. Course Title	: Business Communication Papers I and II	
iv.Semester wise Course Contents	: Enclosed in the Copy of the Syllabus	
v.References & Additional References	: Enclosed in the Syllabus	
vi. Credit Structure	: Number of credits per Semester – 02	
vii. No. of lectures per Unit	: As mentioned in the syllabus	
viii. No. of lectures per week	04	
2. Scheme of Examination	: 05 Questions of 20 Marks each	
3. Special notes, if any	: No	
4. Eligibility, if any	: No	
5. Fee Structure	: As per University Fee Structure	
6. Special Ordinances / Resolutions if any	: No	

Syllabus for S.Y.B.A. (Applied Component) Course Title: Business Communication Paper I & II (100 Marks Examination Pattern)

Objectives of the Course: This course aims to introduce students with

- To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students.
- To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc.

Course Outcome: At end of the course learners will develop

- Theoretical understanding of both business and communication
- The business correspondence techniques.
- Competency in effective use of media and electronic devices in business.
- Interpersonal skills, presentation skills, oral, written and listening skills.

Semester III	Applied Component: Paj	per-I Total Credits: 02
	Course Title: Busines	s Communication
		Total Lectures: 60
Unit I	Theory of Communication	ı (05)
 Concep Meanin Definiti Process Need Feedbac Emerge world 	of Communication g on k hee of Communication as a key con	cept in the Corporate and Global
Unit II	Communication at the Wo	orkplace
i. Channel s Formal and In	of Communication formal – Vertical, Horizontal, Dia	gonal and Grapevine (03)
ii. Methods	of Communication	(05)

V	Verbal, Non-Verbal and Visual (including Kinesics, Para-Language, Proxemics, Silence, Sign, Signal and Symbol)	
iii.	Business Etiquette	(04)
C	Office Etiquette, Internet Etiquette / Netiquette, Business Card Etiquette, Handshake Etiquette, Mobile Phone Etiquette	
iv. P	Barriers to Communication and Ways to Overcome Them Physical or Environmental, Semantic or Language, Psychological and Cross-Cultural Barriers	(06)
V	Vays to Overcome these Barriers	
v. V T Lı	Listening What is Listening? The Listening Process mportance of Good Listening	(04)
E C	Iow to Develop Effective Listening Skills	
vi.	Business Ethics	(07)
V Li E E	What is Ethics? Business Ethics? mportance of Business Ethics at Workplace Digital Ethics Environmental Ethics Ethics in International Business	
C	Corporate Social Responsibility	
Un • •	it III: New Media in Communication Impact of Technology Enabled Communication Video Conference: Skype, Google Meet, Go-To-Meeting and Jio-Meet Social Media: WhatsApp, Twitter, Facebook, Instagram, Telegram and Blogs	(07)
Un	it IV: Business Correspondence	
i. •	Theory of Business Letter Writing Principles of Effective Letter Writing Parts of a Business Letter Levent of a Pusiness Letter (Full Plack)	(05)
• ii.	Layout of a Business Letter (Full Block) Personnel Correspondence Job Application Letter and Resume Letter of Recommendation Letter of Appointment Letter of Acceptance of Job Offer Letter of Appreciation Letter of Personnel Correspondence	(09)

Unit V: Paragraph Writing and Book Review

i.	Paragraph Writing Developing an idea, using appropriate linking devices, etc. Cohesion and Coherence, etc.	(02)
ii. St R B	Book Review teps in writing a book review: Introduction, Summary, Opinion and Conclusion ecommended Books are: <i>The Wings of Fire</i> by Dr. APJ Abdul Kalam, hujia Barons: <i>The Untold Story of How Haldiram Built a 5000 Crore Empire</i> by Pavitra Kumar and <i>The 7 Habits of Highly Effective People</i> by Stephen Covey	(03)

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Evaluation Pattern:

Third Semester	End Examination Pattern	Duration: 3 Hours	Marks: 100
Question 1.		:20 Marks (10)+05+05)
A. Explain the	ne terms in 2 to 3 sentences (five o	out of eight) (from all Units)	
B. Objective	type questions (From all Units)		
C. True or Fa	alse (From all Units)		
Question 2. Short No.	otes (four out of six) (From Unit –	- I and III) :20 Ma	urks
Question 3. Essay	Гуре Questions (two out of three	e (From Unit – II) :20 Ma	urks
Question 4. Personn	el Letters (four out of five)	:20 Ma	irks
Letter of Reco	ommendation		
Letter of App	ointment		
Letter of Acc	eptance of Job Offer		
Letter of App	reciation		
Letter of Resi	gnation		
Question 5.		20 Marks (10-	+05+05)
A. Job Appli	cation Letter with Resume (05+05	5)	
B. Book Rev	view		

C. Paragraph Writing

Semester IV:	Title of the paper:	Paper- II	Total Credits:03
	Course Titl	e: Business Communication	

	Tota	l Lectures: 60
Uni	it I : Group Communication	
i.	Group Discussion and Interview	(08)
٠	Group Discussion	
W	/hat is GD? Effective Participation in GD, Role of Participants in GD and Role Evaluators	of
٠	Interview, Definition	
P: T	reparing for an interview: the Interviewer and the Interviewee ypes of interview: Selection Interview, Appraisal Interview, Stress Interview, Ex Interview and Online Interview	kit
•	Soft Skills - Emotional Quotient (EQ), Conflict Management	
ii.	Meetings	(10)
٠	Need and Importance of Meetings	
•	Types of Meetings: Formal and Informal Meetings	
•	Preparation and Conduct of Formal Meetings and Group Dynamics	
•	Role of the Chairperson	
•	Role of the Participants	
•	Drafting of Notice, Agenda and Resolutions	
•	Secretary: Types of Secretaries- Company Secretary/Private Secretary,	
	Functions of Secretaries.	
iii.	Committees and Conferences	(08)
•	Committee	
D	efinition of Committee	
Т	ypes of Committees	
А	dvantages and Disadvantages of Committee	
٠	Conference	
D	activities of Conference	

Definition of Conference Organizing a Conference Advantages and Disadvantages of organizing a conference

U

iii.

ii.

nit II: Public Relations	(10)
• Meaning	
• Functions of the PR Department of an Organization	
• Qualification of a PRO	
• External and Internal Measures of Promoting PR	
Crisis Management	
• Definition	
Causes of Crisis	
• Types of Crisis	

Stages for Crisis Management •

Role of Crisis Manager	
Unit III: Business Correspondence	(10)
• Letters of Inquiry	
• Letters of Reply to Inquiry	
• Letters of Complaint, Claim and Adjustments	
Sales Letters	
Consumer Grievance Redressal Letters	
Unit III : Report Writing	(06)
Parts of a Business Report	
Drafting Feasibility Reports	
Drafting Investigative Reports	
Unit V: Language and Writing Skills	(08)
i. Presentation Skills	
• Principles of Effective Presentation	
• Use of PPT	
How to make effective Power-Point Presentation	
ii. Interactive Sessions (Not to be assessed in exam)	
Group Discussion	

Mock Interview ٠

Evaluation Pattern:

Fourth Semester End Examination Pattern	Duration: 3 Hours Marks	s: 100
Question 1. Short Notes (four out of six)	:20 Marks	
(From Unit – I Group Discussion, Interviews, 1	Aeetings)	
Question 2. Essay Type Questions (two out of thr	ee) :20 Marks	
(Based on Committees, Conferences and Publi	c Relations)	
Question 3. Trade Letters (four out of five)	:20 Marks	
Letters of Inquiry		
Letters of Reply to Inquiry		
Letters of Complaint, Claim and Adjustments		
Sales Letters		
Consumer Grievance Redressal Letters		
Question 4. Answer the following questions	:20 Marks (10-	+10)
A. Drafting Notice, Agenda and Two Resolu	ions (03+03+04)	
B. Report Writing (One out of two)	(10)	
Question 5. Answer the following questions.	:20 Marks (10-	+05+05)
A. Explain the terms in 2 to 3 sentences (five	out of eight) (from all Units)	

B. Multiple Choice Questions (From all Units)C. Short Notes (From Unit-V (i) Presentation Skills)

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- 1. Kalam, APJ. Wings of Fire. University Press, 1999.
- 2. Covey, Stephen. *The 7 Habits of Highly Effective People*. Electronic Ed. RosettaBooks LLC, 2012.
- 3. Kumar, Pavitra. *Bhujia Barons: The Untold Story of How Haldiram Built a 5000 Crore Empire.* Potfolio/Penguin, 2016.

Web Resources:

- 1. http://lifehacker.com/top-10-ways-to-improve-your-communication-skills- 1590488550
- 2. https://www.thebalance.com/verbal-communication-skills-list-2059698
- 3. https://bemycareercoach.com/soft-skills/list-soft-skills.html
- 4. https://www.thebalance.com/verbal-communication-skills-list-2059698
- 5. https://bemycareercoach.com/soft-skills/list-soft-skills.html
- 6. <u>https://www.sitepoint.com/social-networking-sites-for-business</u>

Suggested List of YouTube Videos:

- 1. <u>https://www.youtube.com/watch?v=K15ca0n0ois</u>
- 2. <u>https://www.youtube.com/watch?v=ixSUB11WNxk</u>
- 3. <u>https://www.youtube.com/watch?v=K15ca0n0ois</u>

MOOCs:

- 1. <u>https://www.mooc-list.com/tags/communication-skills</u>
- 2. https://www.mooc-list.com/tags/effective-communication
- 3. <u>http://www.about.com/Communication+Skills+List</u>

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UNIVERSITY OF MUMBAI



Syllabus for

S.Y.B.A. (Applied Component) Course Title: Mass Communication Paper I & II

(Choice Based Credit System with effect from the Academic Year 2022-2023)

7. Syllabus as per Choice Based Credit System (CBCS):

ix.	Name of the Program	: S.Y.B.A. (Applied Component)
X.	Course Code	: Semester III (UAMASSCOM301)
		Semester IV (UAMASSCOM401)
xi.	Course Title	: Mass Communication
		Papers I and II
xii.	Semester wise Course Contents	: Enclosed in the Copy of the Syllabus
xiii.	References & Additional References	: Enclosed in the Syllabus
xiv.	Credit Structure	: Number of credits per Semester – 02
XV.	No. of lectures per Unit	: As mentioned in the syllabus
xvi.	No. of lectures per week	04
8. Sch	eme of Examination	: 05 Questions of 20 Marks each
9. Spe	cial notes, if any	: No
10. Elig	ibility, if any	: No
11. Fee	Structure	: As per University Fee Structure
12. Spe	cial Ordinances / Resolutions if any	: No

Syllabus for S.Y.B.A. (Applied Component) Course Title: Mass Communication Paper I & II (100 Marks Examination Pattern)

Learning Objectives:

- 1. To introduce some major aspects of communication, mass communication processes, crucial mass media theories and mass communication industries
- 2. To develop a broad perspective of the past and the present status of mass media in India
- 3. To comprehend different types of Mass Media and gain a critical understanding of the impact of mass media on Indian history, society and culture
- 4. To develop critical awareness of the ethics and ideologies in mass media products
- 5. To understand the mass media laws in India, and how these laws shape the media practices
- 6. To introduce students to the application of social media
- 7. To identify various careers opportunities in media industry.

Course Outcome:

By the end of the course the students should be able to

- 1. understand the importance, scope, and function of communication and media
- 2. understand the strengths and limitations of basic theories of mass communication
- 3. demonstrate knowledge of growth and development of various mass media
- 4. throw light on the present status of various mass media
- 5. gain knowledge about various media laws and ethics
- 6. critically understand and analyse various mass media products and explore various career opportunities in media industry.

Semester III – Paper I

Credits: 02

Lectures per week: 04

Unit 1- Nature of Mass Communication

- A) Scope, need, and elements of communication
- B) Meaning, definition, and features of Mass Communication
- C) Mass media theories like Cultivation theory, Gatekeeping theory, Magic bullet/hypodermic needle theory
- D) Functions of Mass Communication: entertainment, surveillance, education, interpretation, persuasion, socialization, opinion building
- E) Mass audience & opinion leaders: concept, sociology and psychology

Unit II- Traditional media, Print Media and Radio (15 lectures)

- A) Folk media
- B) The making of a newspaper: major formats of newspaper items
- C) Partisan Journalism/Yellow Journalism/Objective Reporting
- D) Major types of magazines
- E) Radio as a patron of music
- F) Radio News, Radio Drama, Community Radio and Campus Radio

Unit III- Films/ Cinema

- A) History of Indian cinema and major milestones
- B) Major types of films/cinema: Documentaries, Art films, Animations, Short films, and Biopics
- C) Some aspects of film making (scripting, directing, sounds)
- D) The impact of films/cinema on society
- E) Ethics of cinema

Unit IV- Trends in New media or Digital media

A) Online news websites

(15 lectures)

(10 lectures)

(20 lectures)

Total lectures: 60 per semester

- B) Social media and social networking sites
- C) Special issues regarding social media: mass campaigns; fake news; fact-checkers
- D) Film streaming services (Netflix, Amazon Prime)
- E) Web series

Evaluation Pattern:

Third Semester End Examination

Duration: 3 Hours

100 Marks

- Q.1. Objective Type:
 - a) Explain the following in 2/3 sentences (5 terms from all the 4 units): 10 marks
 - b) Multiple choice questions (5 questions on all the 4 units): 05 marks
 - c) State whether the statements are true or false (5 statements on all the 4 units): 05 marks

Question No. 2 to 5 on Unit No. 1 to 4 respectively:

Q.2	a) 1 Full length essay type question: marks	20
	OR	
	b) 2 Short essay type questions (a and b): (10+10) =	20 marks
Q.3	a) 1 Full length essay type question: marks	20
	b) 2 Short essay type questions (a and b) :(10+10) =	20 marks
Q.4	a) 1 Full length essay type question: 20 marks OR	
	b) 2 Short essay type questions (a and b): (10+10) =	20 marks
Q.5	a) 1 Full length essay type question: marks	20
	OR	
	b) 2 Short essay type questions (a and b): $(10+10) =$	20 marks

Semester IV – Paper II

Credits: 2

Lectures per week: 04Total lectures: 60 per semesterCourse Title: Mass Communication

Unit I- Evolution of Different Media and the Contemporary Context (10 Lectures)

- A) Beginnings of mass media in India
- B) Technological milestones and changing trends from conventional to digital media
- C) Role of media in national development
- D) Reach of media (regional and demographic coverage)

Unit II - Television

- A) Major formats of TV programmes
- B) Television and its impact on Indian families
- C) Television and consumerism
- D) Television and surveillance
- E) Reality Television

Unit III- Media-related Issues and Laws in India

- A) Freedom of expression and Censorship
- B) Relationship between media and government
- C) Media objectivity, media bias, and political leanings
- D) Trial by media and media ethics (Television and Print)
- E) Objectionable advertising
- F) Information technology (IT) Acts related to media
- G) Major laws in India related to media

Unit IV- Functions of Media Personnel and Careers in Media (15 lectures)

- A) Cyber Journalism
- B) Editors

(15 lectures)

(20 lectures)

- C) Translators
- D) Copywriters
- E) Role of Radio Jockey/Video Jockey
- F) Blogging
- G) Writing jingles
- H) Voice-over Artists
- I) Public Relations specialists
- J) Advertising/marketing specialists
- K) Script-writers
- L) Newsreaders
- M) Researchers/Writers
- N) Music specialists
- O) Social media specialist

Evaluation Pattern:

Fourth Semester End Examination

Duration: 3 Hours

100 Marks

- Q.1 Objective Type:
 - a) Explain the following in 2/3 sentences (5 terms from all the 4 units) :10 marks
 b) Multiple choice questions (5 questions on all the 4 units) :05 marks
 c) State whether the statements are true or false (5 statements on all the 4 units):05 marks.
- Question No. 2 to 5 on Unit No. 1 to 4 respectively:

Q.2	a) 1 Full length essay type question OR	:20 marks
	b) 2 Short essay type questions (a and b): (10+10) = 20 marks	
Q.3	a) 1 Full length essay type question OR	:20 marks
	b) 2 Short essay type questions (a and b): (10+10) = 20 marks	
Q.4	a) 1 Full length essay type question OR	:20 marks
	b) 2 Short essay type questions (a and b): (10+10) = 20 marks	
Q.5	a) 1 Full length essay type question OR	: 20 marks
	b) 2 Short essay type questions (a and b): $(10+10) = 20$ marks	

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UNIVERSITY OF MUMBAI



Syllabus for S.Y.B.A. (English) (Applied Component) Program: B.A.

Course: Introduction to Journalism

(Choice Based Credit System with effect from the academic year 2022-2023)
1. Syllabus as per Choice Based Credit System with effect from the academic year 2021-2022

i)	Name of the Program	: B.A.
ii)	Course Code	: Semester III UAJOUR301
		Semester IV UAJOUR401
iii)	Course Title	: S.Y.B.A. Introduction to Journalism
		(Applied Component)
		SEM III: Fundamentals of Journalism and Reporting
		SEM IV: Editing, Feature Writing and Layout

iv)	Semester wise Course Contents	: Enclosed the copy of syllabus
v)	References and Additional References	ences: Enclosed in the Syllabus
vi)	Credit Structure	: No. of Credits per Semester – 02
vii)	No. of lectures per week	04

2. Scheme of Examination : 5 Questions of 20 marks each

- 3. Special notes , if any : No
- 4. Eligibility, if any : No
- 5. Fee Structure : As per University Structure
- 6. Special Ordinances / Resolutions if any : No

Syllabus for S.Y.B.A. (Applied Component) **Course Title: Introduction to Journalism** Paper I & II (100 Marks Examination Pattern)

Objectives of the Course

- 1) To acquaint the learners with the basic concepts of journalism and to familiarize them with the content of a newspaper and departments of the newspaper publishing house.
- 2) To sensitize them to the styles of journalistic prose
- 3) To inculcate in them the skills of reporting, editing and feature writing in print medium
- 4) To enable the students to have a career perspective in journalism

Course Outcomes: By the end of the course, a student should develop the ability:

- To write in various journalistic formats effectively
- To write and edit reports and features •
- To develop a career perspective in journalism

Semester III: Fundamentals of Journalism and Reporting	(Applied Component) Paper I
Course code-UAJOUR301	Credits 2

Total: 60 Lectures 12 lectures

Unit 1: Introduction:

(i) What is news (ii) Origin and development of the Indian Press (iii) Major Press Laws in India: Adam's Regulations, Vernacular Press Act (iv) Press and Socio-Political issues in pre- and post-Independence India (v) Journalism during Freedom Movement (vi) Press during the Emergency (vii) Photo-journalism

Unit 2: Agencies, Electronic Journalism, Ethics: 12 lectures (i) News Agencies, (ii) Press Syndicate (iii) Electronic Journalism (iv) Ethics in Journalism

Unit 3: Organization and Structure of a Newspaper House: 12 lectures

Circulation, Advertising, Editorial and Mechanical Departments

Unit 4: Basics of Reporting:

News Value, News Gathering, Readers' interest, Qualities and aptitude necessary for a reporter, Types of reports

Unit 5: Writing of Reports:

Basic principles: objectivity, accuracy, speed, clarity and integrity; Parts of a news report; 5Ws; Headline writing; Types of Leads; and Report writing

Evaluation	a: Third Semester End Examination Pattern	100 Marks	3 Hours
Question 1:	Essay (1/2) or Short Notes (2/4) on Unit 1	:20 Marks	
Question 2:	Essay (1/2) or Short Notes (2/4) on Unit 2	: 20 Marks	
Question 3:	Essay (1/2) or Short Notes (2/4) on Unit 3	: 20 Marks	
Question 4:	Essay (1/2) or Short Notes (2/4) on Unit 4	: 20 Marks	

Question 5: Students to write a news report with clear headlines and lead on a given topic or essay (1/2)on the basics of reporting on Unit:20 Marks

12 lectures

12 lectures

Total: 60 Lectures

Unit 1: Basics of Editing:

Principles of editing, Editorial policy, Role of the Editor, Role of the News Editor, Role of Chief Sub-editor, Role of Sub-editors

Unit 2: Process of Editing:

Compiling of data, Editing for language and style, Editing for space, Editing for correctness, Editing for clarity

Unit 3: Editing an Article:

Students are expected to learn how to edit an article for newsworthiness, length and suitable expression.

Unit 4: Basics of Feature Writing:

Types of features: Obits, Reviews, Columns, Trend Stories.

Students are expected to learn how to write a feature on a contemporary topic.

Unit 5: Design and Make up:

Make up and its functions, Types of Layout: Horizontal, Vertical Make up, Circus Make up,

Modular layout, Broadsheet layout, Tabloid layout, Fonts and Typography

Evaluation:	Fourth Semester End Examination Pattern	100 Marks 3 Hours
Question 1:	Essay (1/2) or Short Notes (2/4) on Unit 1	:20 Marks
Question 2:	Essay (1/2) or Short Notes (2/4) on Unit 2	:20 Marks
Question 3:	Edit an article or report.	: 20 Marks
Question 4:	Write a feature on a contemporary topic $(1/2)$:20 Marks
Question 5:	Essay (1/2) or Short Notes (2/4) Unit 5	: 20 Marks

Semester IV: Editing, Feature Writing and Layout (Applied Component) Paper 2

Course code-UAJOUR401

16 lectures

12 lectures

12 lectures

12 lectures

8 lectures

Credits 2

References

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Natrajan. J. *History of Indian Journalism*. New Delhi: Ministry of Information and Broadcasting, 1995. Parthasarathy, Rangaswami. *Basic Journalism*. New Delhi: MacMillan India Ltd. 1989.

Parthasarathy, Rangaswami. *Here is the News! Reporting for the Media*. New Delhi: Sterling Publishers, 1994.

Prasad, Sharada, Rukun Advani (et al) Editors on Editing. New Delhi: National Book Trust, 2004.

Selvaraj, Madhur. News Editing and Reporting. New Delhi: Dominant Publishers, 2005.

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Syllabus for S.Y.B.A. (Public Relations) (Applied Component)

Program: B.A.

Course: Public Relations

(Choice Based Credit System with effect from the academic year 2022-2023)

1. Syllabus as per Choice Based Credit System:

i) Name of the Program	: S.Y.B.A. (Applied Component)	
	Semester III and IV	
ii) Course Code	: UAPR3A1 & UAPR4A1	
iii) Course Title	: Public Relations Papers I & II	
iv) Semester wise Course Contents	: Enclosed the copy of syllabus	
v) References and Additional References	: Enclosed in the Syllabus	
vi) Credit Structure	: No. of Credits per Semester – 02	
vii) No. of lectures per week	04	
viii) No. of lectures per unit	15	
2. Scheme of Examination	: 5 Questions of 20 marks each	
3. Special notes, if any	: No	
4. Eligibility, if any	: No	
5. Fee Structure	: As per University Structure	

6.Special Ordinances / Resolutions if any : No

Syllabus for S.Y.B.A. (Applied Component)

Course Title: Public Relations

Paper I & II

(100 Marks Examination Pattern)

Objectives of the Course:

- To introduce learners to the origin, basic concepts and activities of Public Relations.
- To motivate learners to practice various basic skills required for successful career in the field of Public Relations
- To give learners an insight about the significance, uses and functions of Public Relations.
- To explain the learners importance of ethics and professional code for PR practitioners.
- To explicate the learners the role and function of Public Relations for Corporate field, education institutions, local self-government, government and NGOs
- To create awareness among students about various career opportunities available in the field of public relations and also to motivate them to pursue the same

Course Outcomes: By the end of the course,

- Students will be able to understand and explain the basic components and aspects of the Public Relations
- Students will comprehend and recognise the importance of Public Relations for achieving success in the various fields like business, education, works carried out by various government, local government bodies as well as non-government organisations
- Students will be able to practice various communication skills required in the field of Public Relations as well as in other fields
- Students will opt for various careers like PR officer as well as attempt to pursue other career opportunities in the field of Public Relations

Semester Three: Public Relations: Paper 1 - 2 Credits

Lectures: 60

Unit 1: Introduction to Public Relations

- The concept of Public Relations: Origin, definitions, activities, and role of PR
- Objectives of Public Relations
- Evolution and the development of modern Public Relations
- Development of Public Relations in India, Pre and post-independence period.

Unit 2: Principles, Components and importance of Public Relations for various sectors

- Principles of Public Relations
- Components of PR-Employees Relations, Industrial Relations, Community Relations, Customer Relations, Financial Relations, Press Relations, Government Relations and Liaison, Special Events, Counseling Research, Publicity, Fundraising/Launches
- Importance of Public Relations in business, industry, and for governmental, Public, nonprofit, nongovernmental organizations such as cultural, sports, educational organizations like trusts, clubs, schools, colleges etc.
- Misconceptions about PR –Propaganda, Fine Appearance, Free Gifts, Annual Parties, Protocol, Goodwill

Unit 3 : Process of Public Relations

- Defining the model, planning, execution and evaluation of the Action Plan of PR process
- Importance of communication in the process of PR, including theory, objectives, types, barriers, art of listening and communication skills required for successful process of PR
- Process and activities of Internal PR
- Process and activities of External PR

Unit 4 : Functions and tools of PR

- Functions and uses of Public Relations
- Media tools for PR- Press Release, Press Conference, Special Issue, News Clippings, Photo Gallery, Meetings
- Specific tools for PR- Family get together and outing, cultural programme for employees, Celebration of foundation day, week for specific purpose, camp, competition, lecture series, exhibition, open day, sponsorship, newsletter, in- house Journal etc.
- Crisis Management as PR function-types, guiding principles, preparation and role of PR in the Crisis management, services provided by PR during the crisis, the review of Crisis Management, Crisis communication in the times of Industrial disaster, consumer pressures, image problems, quality issues

Evaluation Pattern: Third Semester End Examination Duration:3 Hours 100 Marks

Question1. Objective type questions: (based on all units)

a) Explain the following concepts in three to five sentences each. (Any five) :10 Marks

(7 Short answer Questions should be framed)

b) Match the following pairs. :05 marks

c) State whether the following statements are true or false. :05 marks

Question 2. Based on Unit 1

a) 1 Full length essay type question :20 marks

OR

b) 2 Short essay type questions (a and b) :(10+10) =20 marks

Question 3. Based on Unit 2

a) 1 Full length essay type question :20 marks

OR

b) 2 Short essay type questions (a and b) :(10+10) =20 marks

Question 4. Based on Unit 3

a) 1 Full length essay type question :20 marks

OR

b) 2 Short essay type questions (a and b) :(10+10) = 20 marks

Question 5. Based on Unit 4

a) 1 Full length essay type question :20 marks

OR

b) 2 Short essay type questions (a and b) :(10+10) = 20 marks

Semester Four: Public Relations : Paper 2 - 2 Credits

Lectures: 60

Unit 1: Public Relations in Corporate Business

- Image Building of the brand, company and constituents of Image Building
- Corporate Social Responsibility and Public Relations
- New trends in corporate Public Relations-Benchmarking, Consultancy, Team Building, Branding and Image Building, Public Opinion, ICT technology and Digital Social Media like Facebook, twitter, linkedin, blogs etc.
- Corporate Citizenship and Public Relations
- Professional nature of Public Relations, reasons and factors responsible for the development of professional nature of public relations in business world, Research and training in the Public Relations

Unit 2: Ethics and Code of Conduct in PR

- Principles of Public Relations Practice
- Code of Ethics prescribed by PR Society of India
- IPRA Code of Conduct
- Purpose of Professional Bodies
- Code of AIR and T.V. Channels
- Code of commercial advertising on T.V. Channels
- Advertising and PR ethics.
- Impact of PR on the society

Unit 3: Public Relations in Practice

- Qualities of a PR Practitioner
- Areas of Work (Functions) of Public Relations Practitioners—Writing, Editing, Media Relations, Special Events, Mass Media Production ,Corporate Counseling, Crisis Communication, Managing News and Features
- Effective Oral Communication skill
- Skills for PR -Effective Public Speaking, Writing Skills, Debating Skills, Group Interaction.
- Written Communication and Audio-Visual Aids for PR

Unit 4: Public Relations and other related areas

- PR and Marketing, PR and Journalism, PR and Business Communication, PR and Psychology
- PR and advertising, types, creativity, message through entertainment, correlation and differences between PR and advertising
- PR Campaign
- Relations with Shareholders, Relations with Dealer Distributor, Relations with Financial Institutions, Relations with other Business Groups Community Relations, Consumer Relations.

Evaluation Pattern:

Fourth Semester End Examination

Duration:3 Hours

100 Marks

Question1. Objective type questions: (based on all units)
a) Explain the following concepts in three to five sentences each. (Any five) :10 Marks (7 Short answer Questions should be framed)
b) Match the following pairs. :05 marks
c) State whether the following statements are true or false. :05 marks

Question 2. Based on Unit 1

a) 1 Full length essay type question :20 marks OR b) 2 Short essay type questions (a and b) :(10+10) =20 marks

Question 3. Based on Unit 2

a) 1 Full length essay type question :20 marks OR

b) 2 Short essay type questions (a and b) :(10+10) =20 marks

Question 4. Based on Unit 3

a) 1 Full length essay type question :20 marks

OR

b) 2 Short essay type questions (a and b) :(10+10) = 20 marks

Question 5. Based on Unit 4

a) 1 Full length essay type question :20 marks

OR

b) 2 Short essay type questions (a and b) :(10+10) = 20 marks

Suggested Readings :-

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Alison, Theaker., (2008) The Public Relations Handbook,: Routledge.

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Butterick, Keith. ,(2010) Introducing Public Relations: Theory and Practice, New Delhi: Sage Publications.

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James E. Grunig, David M. Dozier, William P. Ehling, Larissa A. Grunig, Fred C. Repper,

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Jethwaney, Jaishri., (2018) Corporate Communication-Principles and Practice, New Delhi: Sage Publication.

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- Silvia, Cambie and Yang-May, Ooi., (2009) International Communications Strategy Developments in Cross-Cultural Communications, PRand Social Media, Kogan Page.
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Sharma, Diwakar., (i2004) Public Relations., Delhi: Deep and Deep Publications.

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‼ा ड ा कप्त ात्त, साजय.,।ा फा ला, कक्शोर,. (2009) जनसापक, पर्णा

:डायमाड पब्ल िाका शन्स . ाा पा री, सा रा श. (2013) जनसापक : साकल्पना एवा

कसद**ा**ााात, औरगगा ब**ा**द : साद फ्रगा शन.

Web Resources

The Era of Corporate Social Responsibility is Ending | Rachel Hutchisson | TEDxWilmington, @ <u>https://www.youtube.com/watch?v=N8dXNzCIVxg</u> accessed on 10th July 2020

The social responsibility of business | Alex Edmans | TEDxLondonBusinessSchool, @ <u>https://www.youtube.com/watch?v=Z5KZhm19EO0</u> accessed on 12th July 2020

Re-thinking corporate social responsibility: Andy Le Seelluer at TEDxStHelier,@ <u>https://www.youtube.com/watch?v=jga4s0Ei7Zs</u> accessed on 15th July 2020

Book Review on "Corporate Communication", <u>@https://www.youtube.com/watch?v=iu11_zkq444</u> accessed on 25th July 2020

- Career in Public Relations, @ <u>https://www.youtube.com/watch?v=zdiNCOixLBA</u> accessed on 25th July 2020
- About PR in general: <u>https://apps.prsa.org/AboutPRSA/PublicRelationsDefined/</u> accessed on 26th July 2020
- Readings on Global PR: <u>http://www.instituteforpr.org/global-public-relations/</u> accessed on 5th August 2020
- Anderson, F., & Hadley, L. (1999). Guidelines for setting measurable public relations objectives. Institute for Public Relations, retrieved February 6, 2010, from <u>http://www.instituteforpr.org/ipr_info/measureable_public_objectives</u> accessed on 7th August 2020.

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Syllabus for S.Y.B.A. (Women's Studies) (Applied Component) Program: B.A.

Course: Women's Studies

(Choice Based Credit System with effect from the academic year 2022-2023)

1. Syllabus as per Choice Based Credit System:

i)	Name of the Program	: B.A.
ii)	Course Code	: Semester III (UAWS3A1) and
		Semester IV (UAWS4A1)
iii)	Course Title	: Women's Studies (Applied Component)
iv)	Semester wise Course Contents	: Enclosed the copy of syllabus
v)	References and Additional Refere	ences: Enclosed in the Syllabus
vi)	Credit Structure	: No. of Credits per Semester – 02
vii)	No. of lectures per week	04
2.	Scheme of Examination	: 5 Questions of 20 marks each
3.	Special notes , if any	: No
4.	Eligibility, if any	: No
5.	Fee Structure	: As per University Structure

6. Special Ordinances / Resolutions if any : No

Syllabus for S.Y.B.A. (Applied Component)

Course Title: Women's Studies

Paper I & II

(100 Marks Examination Pattern)

Objectives of the Course:

- i. To enable an understanding of concepts such as sex and gender, patriarchy
- ii. To enable an understanding of the construction of gender
- iii. To provide insight into the workings of patriarchy and its oppressive nature
- iv. To familiarize students with an understanding of feminist theory and the schools of feminist thought
- v. To empower students with a knowledge of women's rights and legal safeguards
- vi. To provide an understanding of major historical developments and feminist movements in feminist history
- vii. To engender a critical understanding of literary and media texts dealing with women's issues

Course Outcome: By the end of the course, a student should develop the ability:

- i. To articulate concepts linked to gender and feminism
- ii. To have an understanding of patriarchy
- iii. To have an awareness of crimes against women, and the constitutional and legal safeguards protecting / empowering women
- iv. To have knowledge and understanding of feminist theory
- v. To have a knowledge of feminist history
- vi. To analyze and critically evaluate literary and media texts dealing with women's issues
- vii. To be gender-sensitive, have a feminist outlook, and combat stereotypes and gender biases prevalent in society

Semester Three: Women's Studies : Paper 1 (Applied Component) 2 Credits

Lectures: 60 Unit 1: An Introduction to Concepts, and the Scope and Practice of Women's Studies

- a) Women's Studies: Relevance, Prospects and the Indian Context
- b) Sex, Gender and Biological Determinism
- c) Patriarchy as an oppressive ideology
- d) Three Waves: Feminine, Feminist and Female

Unit 2: Schools of Feminism and Feminist Theory

- a) Liberal Feminism
- b) Marxist Feminism
- c) Psychoanalytical Feminism
- d) Radical Feminism

Unit 3: Combatting Crimes and Discrimination - Constitutional and Legal Safeguards for Women

- a) Convention on the Elimination of All Forms of Discrimination Against Women (CEDAW)
- b) National Policy on Empowerment of Women
- c) Laws and safeguards against Rape and Sexual Harassment: Indian Penal Code; the Indecent Representation of Women Prohibition Act, 1987; the Vishakha Guidelines; the 'Sexual Harassment of Women at the Workplace (Prevention, Prohibition and Redressal) Act, 2013'; the Internal Complaints Committee in organizations; the Zero FIR
- d) Laws related to Women and Pregnancy: Maternity Benefit Act, 1961; Medical Termination of Pregnancy Act, 1971; The Pre-Conception and Pre-Natal Diagnostic Techniques (Prohibition of Sex Selection) Act, 2003; the Surrogacy (Regulation) Bill, 2016

Unit 4: Feminist historiography and Feminist Movements in India

- a) Locating Women in History: The need for Feminist historiography
- b) The Brahmo Samaj in India
- c) The White Revolution, Amul and Women's Empowerment
- d) The Nirbhaya case and combatting 'rape culture'

Unit 5: Literary Texts

- a) Charlotte Perkins Gilman: "The Yellow Wallpaper"
- b) James Joyce: "Eveline"
- c) Fay Weldon: "Weekend"
- d) Mahasweta Devi: "The Breast Giver"

Evaluation:	Third Semester End Examination Pattern	100 Marks : 3 Hours	
Question 1:	One Essay or Two Short Notes	:20 Marks	
Question 2:	One Essay or Two Short Notes	:20 Marks	
Question 3:	One Essay or Two Short Notes	:20 Marks	
Question 4:	One Essay or Two Short Notes	:20 Marks	
Question 5:	One Essay or Two Short Notes	:20 Marks	

Each question corresponds to the respective unit in the syllabus. In each question, there will be 2 essay type questions in options A and B respectively, and option C will have four short notes, with two to be attempted. There will be a choice of 3 questions: A (essay) or B (essay) or C (short notes).

Semester Four: Women's Studies (Applied Component)

2 Credits Lectures: 60

Unit 1: Feminist History and Global Movements

- a) The Seneca Falls Convention and Women's Suffrage Movement
- b) Women Scientists and women in science
- c) Women, Self-help Groups and Entrepreneurship
- d) The #MeToo Movement

Unit 2: Schools of Feminism and Feminist Theory

- a) Gynocriticism
- b) Postmodern Feminism
- c) Postcolonial Feminism
- d) Intersectional Feminism

Unit 3: Women and Work

- a) The Public-Private Dichotomy, sexual division of work and perceptions of jobs as genderspecific
- b) Concepts of visible and invisible work, paid and unpaid labour
- c) The Glass Ceiling, Sticky Floor and Glass Escalator Effects
- d) Issues of working mothers and single working women

Unit 4: Women and the Media: Sexuality, Body Politics and Media Representations

- a) Women and the Beauty Industry: Ageism, beauty standards, racism, cosmetic surgery, the Male gaze, and the casting couch phenomenon
- b) Pregnancy related issues: Family Planning, Contraception, Abortion, Sex-determination, mental health and post-partum depression
- c) Women on social media platforms, body shaming, cyber-bullying, cat-phishing, online stalking and harassment
- d) The Representation of Women in the Media: Ads, Films, Music Videos and in the news

Unit 5: Literary and Media Texts

- a) Sylvia Plath: "The Mirror"
- b) Maya Angelou: "Still I Rise"
- c) Short Films: *Juice* (directed by Neeraj Ghaywan), *Going Dutch* (Tittar Lodge Productions); *Ahalya* (directed by Sujoy Ghosh) and *Devi* (directed by Priyanka Banerjee)
- d) Dove ads focusing on the campaign of 'real beauty'

Evaluation:		Fourth Semester End Examination Pattern	100 Marks: 3 Hours	
	Question 1:	One Essay or Two Short Notes	:20 Marks	
	Question 2:	One Essay or Two Short Notes	:20 Marks	
	Question 3:	One Essay or Two Short Notes	:20 Marks	
	Question 4:	One Essay or Two Short Notes	:20 Marks	
	Question 5:	One Essay or Two Short Notes	:20 Marks	
	F 1		11	

Each question corresponds to the respective unit in the syllabus. In each question, there will be 2 essay type questions in options A and B respectively, and option C will have four short notes, with two to be attempted. There will be a choice of 3 questions: A (essay) or B (essay) or C (short notes).

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- Juice: <u>https://www.youtube.com/watch?v=R-Sk7fQGIjE</u>
 Going Dutch:
- https://www.youtube.com/watch?v=iFFYF-fykaU
- 3. Devi
 - https://youtu.be/2KP0aDTVtFI
- 4. Ahalya https://youtu.be/Ff82XtV78xo

MOOC

Andrea Walsh, and Elizabeth Fox. *WGS.101 Introduction to Women's and Gender Studies*. Fall 2014. Massachusetts Institute of Technology: MIT OpenCourseWare, <u>https://ocw.mit.edu</u>. License: <u>Creative Commons BY-NC-SA</u>.

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University of Mumbai

Syllabus for S.Y.B.A. (Applied Component)

Program: B.A.

Course: Introduction to Advertising

(Choice Based Credit System with effect from the Academic Year 2022-23)

1. Syllabus as per Choice-Based Credit System:

a)	Name of the Program	: S. Y.	B.A. (Applied Component) Semester III and IV	
b)	Course Code	: Seme	ester III (UAIA3A1) Semester IV (UAIA4A1)	
c)	Course Title	: Introc	duction to Advertising Semester III: Paper I,	
			(Basic Concepts of Advertising)	
		Semes	ter IV: Paper II, (Creativity and Research in Advertising)	
d)	Semester wise Course Conte	nts	: Enclosed the copy of syllabus	
e)	References and Additional R	eference	es: Enclosed in the Syllabus	
f)	Credit Structure		: No. of Credits per Semester – 02	
g)	No. of lectures per Unit		12	
h)	No. of lectures per week		04	
Schem	ne of Examination		: 5 Questions of 20 marks each	
Special notes, if any			: No	
Eligibility, if any			: No	
Fee Structure			: As per University Structure	

6. Special Ordinances /: No Resolutions if any: No

2.

3.

4.

5.

S.Y. B.A. (Applied Component)

Course Title: Introduction to Advertising

Paper I & II

(100 Marks Examination Pattern)

• Objectives:

- i) To introduce learners to the main subfields and basic modern concepts/ideas, theoretical models, empirical instruments and data sources in advertising.
- ii) To encourage learners for further interest in advertising studies
- iii) To develop professional communicative competence
- iv) To introduce learners to different tools of communication for corporate identity /brand building through various advertising techniques

• Course Outcomes:

By the end of the course, learners should develop the following abilities:

- i) To demonstrate a working knowledge of the following areas associated with the advertising industry: Target marketing, Ad agency organizations and operations, media strategies, use of electronic media, outdoor media, print media, sales promotions, etc.
- ii) To write clearly, coherently and effectively about various concepts in advertising
- iii) To define the economic and social impact of advertising on society
- iv) To understand the communication process of advertising, marketing research, campaign strategies, concepts, budgets, creative process, and ethics in advertising.

Semester-IIIApplied ComponentPaper – ITotal Credits – 2

Course Title: Introduction to Advertising - Basic Concepts of Advertising

Unit- I Introduction to Advertising

- a) Advertising: Evolution of Advertising, Features of Advertising, Active participants, Role of Advertising in Marketing Mix, Role of Advertising in society.
- b) Classification of Advertising: Social Advertising, Political Advertising, Advocacy Advertising, Retail Advertising, Financial Advertising, Corporate Image Advertising, Print Media Advertising, Electronic or Broadcast Media Advertising, National Advertising, International Advertising, Advertising on Social media

Unit- II Advertising and Media for Marketing and Communication

a) Introduction to Integrated Marketing Communication, Advertising and Publicity, Public Relation, Sales promotion, Different Forms of Displays -Window Display, Showcases, Showrooms, Exhibitions, Trade Fairs,

Total Lectures: 60 12 Lectures

Traveling Displays, Car Cards, Sky Writing or Sky Balloons, Word of Mouth Influence (WOM), Packaging,

b) Advertising and Brand Management, A History of Branding and Advertising, Psychology of Advertising, Media Ecology, Consumer Behaviour, Environmental Marketing Communications

Unit- III The impact of Media in Advertising

- a) Factors influencing Media selection and Media Planning Strategies, Importance of Advertising in Marketing , Role of Celebrity Endorsers in Advertising,
- b) Media options for advertising Television, Radio , Internet, Print, Film, Outdoor advertising and Social Media,
- c) Concepts Media Buying, Media Selling, Media Mix, Clutter, Zipping & Zapping, Branding & Brand Positioning

Unit- IV Economic & Social Aspects of Advertising

- a) Economic aspects of Advertising: Impact on production, distribution and consumer cost, advertising and competition, Understanding the role of advertising agencies.
- b) Social aspects of advertising, advertising and culture (values, festivals, customs), standard of living, ethics in advertising, Advertising and Women, Advertising and Children, Ethical issues of Packaging and Branding, Ethical issues in Online and Social Media Marketing,
- c) Regulation and control on advertising in India Advertising Standard Council of India (ASCI), Advertising Agencies Association of India (AAAI), and Information & Broadcasting Ministry, Advertising self-Regulation

Unit- V Advertising Agency and Advertising as a Career

- a) Advertising Agency definition, types of services offered, types of advertising agencies, structure of Ad agencies, agency selection criterion, ways of getting clients with special reference to creative pitch, Top advertising agencies and their campaigns.
- b) Career options available in advertising field Advertising agency, media, production houses, research and allied fields printing, graphics and animation, modelling and dubbing, brand managers, copywriters, Art Directors, Web content Managers, Creative writers, Freelancing

Unit-VI Practical Segment

(This Unit is not to be considered for the Assessment/ Examination)

- a) Poster / Technology based group presentations on various Advertisements on socially relevant topics with relevant case studies.
- b) Creating a print Advertisement (Students can be asked to make a print advertisement and displaying it to the class)

12 Lectures

12 Lectures

Evaluation Pattern:

Third Semes	ster End Examination	Duration: 3 Hours	100 Marks
Question 1	One Essay or Two Short no	tes on Unit I	20 Marks
Question 2	One Essay or Two Short notes on Unit II		20 Marks
Question 3	One Essay or Two Short notes on Unit III		20 Marks
Question 4	One Essay or Two Short no	tes on Unit IV	20 Marks
Question 5	One Essay or Two Short notes on Unit V		20 Marks

Semester IVApplied ComponentPaper II2 CreditsCourse Title: Introduction to Advertising - Creativity and Research in Advertising

Total Lectures: 60

Unit- I Creativity and Psychology in Advertising

- a) Role of Creativity in Advertising, Positioning strategies, Role of Persuasion, Determining the message theme, USP, Decision on Advertising appeals and selling styles (soft selling / hard selling skills), Appropriateness and Novelty, Styles of Creative Advertising-Generic Creative Style, Pre-emptive Creative Style, Resonance Creative Style
- b) Psychology in Advertising Perception, attitudes and values, personality and motivations (including buying motives), Use of Metaphors in Advertising

Unit-II Copy Writing

- a) Copy types and essentials, Copy writing for print, Outdoor, Radio, Web and Television (concept of storyboards)
- b) Elements of copy headline (functions and types), over line, body copy, captions, taglines, slogans, call to action, logo, company name

Unit-III Creativity in Advertising

- a) Illustrations functions and types, Essentials of a good illustration
- b) Visualization Techniques of Visualization, Layouts- Stages and Types, Slogans, Logo, Headlines, Memes, GIFs as means of creative marketing strategy etc.
- c) Digital Advertising: The societal and business impact of digital advertising, Types of digital advertising, The future of online advertising

12 Lectures

12 Lectures

Unit-IV Advertising Research

- a) Evaluating advertising effectiveness, Importance of research in Advertising, Types of research: copy research and behavioural research, Psychographic Segmentation
- b) The impact of Ideology on Advertisements- Various ideological issues and concerns
- c) Pre-testing and Post-testing methods of evaluation, Pre-testing methods: methods for concept testing and copy testing, Post-testing methods: sales and response rates, recall tests, recognition tests and attitude and opinion tests.

Unit- V Advertising Budget

- a) Meaning of Advertising Budget: Collection of Data and Preparation of Advertising Budget, Presentation and Approval of the Budget, Budget Execution, Control of Budget
- b) Methods of Framing the Advertising Budget: Affordable Method, Percentage of Sales Method, Competitive Parity Method, Return on Investment Method, Objective and Task Method, Judgment Method
- c) Approaches to Advertising Budget: Traditional Approach, Modern Approach, Marcom Budgeting

Unit-VI Practical Segment:

(This Unit is not to be considered for the Assessment/ Examination)

- a) A visit to an Advertising agency or group presentation on Copy writing
- b) Creating an electronic Advertisement and displaying it to the class via electronic communication medium

Fourth Seme	ester End Examination Duration: 3 Hours	100 Marks
Question 1	One Essay or Two Short notes on Unit I	20 Marks
Question 2	One Essay or Two Short notes on Unit II	20 Marks
Question 3	One Essay or Two Short notes on Unit III	20 Marks
Question 4	One Essay or Two Short notes on Unit IV	20 Marks
Question 5	One Essay or Two Short notes on Unit V	20 Marks

Evaluation Pattern:

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- 2. www.advertisinginindia.com
- 3. www.tamindia.com
- 4. www.tamadex.com

- 5. www.aidem.in
- 6. http://en.wikipedia.org/wiki/Chennai
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- 11. http://www.revistalatinacs.org/_2008/23_34_Santiago/Francisco_Campos.html
- 12. http://www.anthropoetics.ucla.edu/a
- 13. http://ideasmarkit.blogspot.in/2009/02/indian-advertising-2009-2013-kpmg-ficci.html
- 14. http://info.shine.com/Industry-Information/Automobiles/783.aspx=Media advertising By Shailja Shah Purohit
- 15. http://www.inderscience.com/search/index.php?action=record&rec_id=11489
- 16. 16. http://Writingfordigital.Com/2010/04/19/Three-Key-Media-Variables-Time-Attention-And-Memory/
- 17. http://www.merinews.com/article/the-changing-scenario-of-advertising/126596.shtml
- 18. http://www.entrepreneur.com/encyclopedia/media-planning
- 19. http://www.chillibreeze.com/ articles various/advertising-firms.asp
- 20. www.afaqs.com
- 21. www.ascionline.org;
- 22. www.campaignindia.in
- 23. www.exchange4media.com
- 24. www.tamindia.com
- 25. www.cengage.com/global

MOOC Courses:

- 1) << https://www.mooc-list.com/course/online-advertising-onlinead-open2study>>
- 2) << https://www.mooc-list.com/course/integrated-marketing-communications-
- advertisingpublic-relations-digital-marketing-and-more>>
- 3) <<https://www.mooc-list.com/course/content-advertising-social-imc-coursera>>>
- 4) <<https://www.mooc-list.com/course/advertising-and-society-coursera>>

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SYLLABUS

T.Y.B.A. - English

Semester V & VI

Revised Syllabus as per CBCS pattern

(w.e.f. Academic Year - 2018-19)

T.Y.B.A. – English - Semester V & VI Revised Syllabus as per CBCS pattern (w.e.f. Academic Year 2018-19)

Paper No.	Name of the Course	Semester	Paper Code	Name of the Paper
Paper IV	16 th to 18 th Century	Sem - V	UAENG501	16 th to 18 th Century English Literature - I
	English Literature	Sem - VI	UAENG601	16 th to 18 th Century English Literature - II
Paper V	Literary Criticism	Sem - V	UAENG502	Literary Criticism - I
		Sem - VI	UAENG602	Literary Criticism - II
Paper VI-A	Grammar and Art of	Sem - V	UAENG503A	Grammar and Art of writing - I
	writing	Sem - VI	UAENG603A	Grammar and Art of writing – II
Paper VI-B	Translation Studies:	Sem - V	UAENG503B	Translation Studies: Theory and Practice - I
	Theory and Practice	Sem - VI	UAENG603B	Translation Studies: Theory and Practice - II
Paper VI-C	Popular Culture	Sem - V	UAENG503C	Popular Culture - I
		Sem - VI	UAENG603C	Popular Culture - II
Paper VII	19 th Century English	Sem - V	UAENG504	19th Century English Literature - I
	Literature	Sem - VI	UAENG604	19 th Century English Literature - II
Paper VIII	20th Century British	Sem - V	UAENG505	20th Century British Literature – I
	Literature	Sem - VI	UAENG605	20th Century British Literature – II
Paper IX-A	Literature and Gender	Sem - V	UAENG506A	Literature and Gender - I
		Sem - VI	UAENG606A	Literature and Gender - II
Paper IX-B	Drama and Theatre	Sem - V	UAENG506B	Drama and Theatre - I
		Sem - VI	UAENG606B	Drama and Theatre - II
Paper IX-C	Film and Literature	Sem - V	UAENG506C	Film and Literature - I
		Sem - VI	UAENG606C	Film and Literature - II
Paper IX-D	Literature of Protest	Sem - V	UAENG506D	Literature of Protest - I
		Sem - VI	UAENG606D	Literature of Protest - II

University of Mumbai

Syllabus for T.Y.B.A. English Paper IV

Semester: V & VI

Course: Core Paper

Course Title: 16th to 18th Century English Literature

(Choice Based Credit System with effect from the Academic Year 2018-19)

1.		Syllabus as per Choice Based Credit System			
	i)	Name of the Program :	T.Y.B.A. English		
	ii)	Course Code :	UAENG501 & UAENG601		
	iii)	Course Title :	16 th to 18 th Century English Literature		
	iv)	Semester wise Course Contents:	Enclosed the copy of syllabus		
	v)	References and Additional : References	Enclosed in the Syllabus		
	vi)	Credit Structure : No. of Credits per Semester	04		
	vii)	No. of lectures per Unit :	20		
	viii) No. of lectures per week :		04		
	ix) No. of Tutorials per week :				
2.		Scheme of Examination :	5 Questions of 20 marks each.		
3.		Special notes, if any:	No		
4.		Eligibility , if any :	No		
5.		Fee Structure :	As per University Structure		
6.		Special Ordinances / : Resolutions if any	No		

Syllabus for TYBA Paper IV

Course: 16th to 18th Century English Literature **Course Codes:** UAENG501& UAENG601

Objectives of the Course:

- 1) To introduce students to English Literature of the 16th, 17th and 18thcenturies.
- 2) To show them how background influences shaped the writer's thinking.
- 3) To present them to the literary masters who dominated the scene
- 4) To familiarize students with different writing styles that each age adopted.

Outcome of the Course:

After completion of the course, students are expected to be able to:

- To understand the distinctive features of English literature of the 16th, 17th and 18th centuries
- 2) To comprehend how background influences shaped the writer's thinking.
- 3) To recognize and appreciate the literary masters who dominated the scene.
- 4) To grasp the different writing styles that each age adopted.

Semester V: 16 th to 18 th Century English Literature –I							
Course code- UAENG501	04Credits	Total Lectures: 60					

Unit 1: Important Concepts & Terms:

20 Lectures

A. The Elizabethan Age (1550-1603)

- i) Renaissance, Humanism and Reformation.
- ii) Elizabethan Poetry Sonnets, Epic and Pastoral
- iii) Elizabethan Drama
- iv) University Wits.

B. The Jacobean Period (1603-1650)

- i) Characteristics of the Jacobean Period (Major influences and its impact on literature)
- ii) Metaphysical Poetry
- iii) Jacobean Drama- (Revenge Tragedy and Comedy)
Unit 2: William Shakespeare: <u>Hamlet</u> OR William Shakespeare: <u>Comedy of Errors</u>

Unit 3: Selected Verse from the Elizabethan and Jacobean periods.20 Lectures

Elizabethan Period:

- a. Sir Philip Sidney from <u>Astrophel and Stella</u> sonnet sequence.
 Sonnet 37 "My mouth doth water and my breast doth swell".
 39 "Come Sleep! O Sleep, the certain knot of peace".
- b. Edmund Spenser: from <u>The Shepheardes Calender</u> "April Eclogue".
 "November Eclogue".
- c. William Shakespeare:
 Sonnet 116 "Let me not to the marriage of true minds"
 Sonnet 138 "When my love swears that she is made of truth"

Jacobean Period:

- a. John Donne:"A Valediction Forbidding Mourning". Holy Sonnet 10 –"Death Be Not Proud".
- b. George Herbert: "The Pulley". "Love".
- c. Andrew Marvell:"The Coronet". "On a Drop of Dew".

Semester VI Course code	: 16 th to 18 th Century Engl - UAENG601	ish Literature –II 04Credits	Total Lectures: 60
Unit 1: Back	ground and Important Cor	ncepts:	20 Lectures
A. <u>The Ro</u> i) i) ii)	estoration Period (1660-17 Characteristics of Restorat (Major events of the age a Restoration Poetry- (Epic, Restoration Drama- Come	<u>(00)</u> tion Period nd their impact on lite Mock epic, Satire) dy of Manners, Hero	erature) ic Tragedy
iv) B. Neo-C i) ii) iii)	Diary Writing lassical Period (1700-1798 Neo-Classical/Augustan Age of Satire Rise of the Periodical Essa	8) ay and the Novel	
Unit 2: John Dryden: All for Love OR20 LecturesOliver Goldsmith: She Stoops to Conquer20 LecturesUnit 3: Selected Verse from the Puritan Era, the Restoration Period20 Lectures			
Restoration F	Period:		
a. Joh	n Milton: from <u>Paradise L</u>	<u>ost</u> Book I	
(105-1	24) 105- And shook his th 124- Sole reigning ho	rone. What though th lds the tyranny of He	ne field he lost? aven.
(242-270) 242- Is this the region, this the soil, the clime 270- Regained in Heaven, or what more lost in Hell?			
(315-3	56) 315- Of Hell resounde 356- Forthwith, from	ed: 'Princes, Potentate every squadron and e	es. each band.
 b. Alexander Pope: <u>The Rape of the Lock</u>- Canto II Lines 1-54 (1) Not with more Glories, in th' Etherial Plain, (54) Th' impending Woe sate heavy on his Breast 			

c. John Dryden: "The Fire of London"

Semester End Examination Pattern: 100 Marks 03 Hours

The Semester End Examination for 100 marks will have 5 questions (with internal choice) of 20 marks each.

Question 1: A. Essay or Question 1: B. Essay or Question 1.C. Short Notes (two out of four) - Unit I

- Q.2 Essay Type Question (1 out of 2) Unit 2
- Q.3 Essay Type Question (1 out of 2) Unit 3
- Q.4 Short Notes (2 out of 4)- Unit 2
- Q.5 Short Notes (2 out of 4)- Unit 3

References:

- 1. Alpers, Paul E. Elizabethan Poetry: Modern Essays in Criticism (OUP: 1967)
- Daiches, David. <u>A Critical History of English Literature (Secker and Warburg:</u> London, 1960)
- 3. Ford, Boris Ed. The New Pelican Guide to English Literature: <u>The Age of Shakespeare</u> Vol. 2 (Penguin, 1993) <u>From Donne to Marvell</u> Vol. 3 (Penguin, 1990)
- 4. Keast, William B. <u>Seventeenth Century English Poetry: Modern Essays in</u> <u>Criticism</u> (OUP: 1971)
- 5. King, Bruce. <u>Seventeenth Century English Literature(Macmillan:1983)</u>.
- 6. Leggatt, Alexander. <u>English Drama: Shakespeare to The Restoration 1590-</u> <u>1660</u> (Longman: Literature in English Series, 1988)
- 7. Perfitt, George. <u>English Poetry of the Seventeenth Century</u> (Longman: Literature in English Series,1992)
- 8. Parry, Graham. <u>The Seventeenth Century: The Intellectual and Cultural Context</u> <u>of English Literature. 1603-1700</u> (Longman: Literature in English Series, 1989)
- 9.Pooley, Roger. <u>English Prose of the Seventeenth Century</u> (Longman: Literature in English Series, 1992)
- 10.Ricks, Christopher. The Penguin History of English Literature Vol.3. (Penguin, 1993)
- 11. Roston, Murray. <u>Sixteenth Century English Literature (Macmillan, 1983)</u>
- 12. Baugh, Albert C. A Literary History Of England, The Restoration and

Eighteenth Century (1660-1789), 2nd Edition, (London, Routledge and Kegan Paul, 1967)

- 13. Clifford, James L. Ed. <u>Eighteenth Century English Literature: Modern</u> <u>Essays in Criticism</u>(OUP, 1959)
- 14. Craig, Hardin. Ed. A History of English Literature Series. <u>Literature of the</u> <u>Restoration and the Eighteenth Century 1660-1798.Vol III</u> (London, Macmillan, 1969)
- 15. Ford, Boris. Ed. **The Pelican Guide To English Literature:** From Dryden to Johnson, Vol.4, (Penguin, 1982) & From Blake to Byron, Vol.5, (Penguin, 1982)
- 16. Jack, Ian. <u>Augustan Satire: Intention and Idiom in English Poetry 1660-1750</u> (OUP, 1978)
- 17. Roger. <u>The Penguin History of English Literature: Dryden to</u> Johnson. Vol.4, (Penguin, 1993)
- 18.Probyn, Clive T.<u>English Fiction of The Eighteenth Century 1700-1789</u> (Longman Literature in English Series, 1987)
- 19.Novak, Maximillian E. <u>Eighteenth Century English Literature</u>, (Macmillan, 1983)
- 20. Sambrook, James. <u>The Eighteenth Century: The Intellectual and Cultural</u> <u>Context of English Literature 1700-1789</u>. (Longman Literature in English Series, 1986)
- 21. Sutherland, James. A Preface to Eighteenth Century Poetry, (OUP, 1975).

Syllabus Prepared by:

Dr. Marie Fernandes,	St. Andrew's College	:	Convener
Dr. Sr. Ananda Amritmah	al, Sophia College	:	Member
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Prof. Mythili Mukund, Maharshi Dayanand College		:	Member
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UNIVERSITY OF MUMBAI

Syllabus for T.Y.B.A. English Semester: V & VI

Course: Core Paper Course Title: Literary Criticism Course Codes: UAENG502 & UAENG602

(Choice Based Credit System with effect from the academic year 2018-19)

1.		Syllabus as per Choice Based Credit System		
	i)	Name of the Programme	T. Y. B. A. English	
	ii)	Course Code	UAENG502&UAENG602	
	iii)	Course Title	Literary Criticism	
	iv)	Semester-wise Course Contents	Enclosed the copy of syllabus	
	v)	References and Additional References	Enclosed in the Syllabus	
	vi)	Credit Structure		
		No. of Credits per Semester	04	
	vii)	No. of lectures per Unit	15	
	viii)	No. of lectures per week	04	
	ix)	No. of Tutorials per week		
2.		Scheme of Examination	5 Questions of 20 marks each	
3.		Special notes, if any	No	
4.		Eligibility, if any	No	
5.		Fee Structure	As per University Structure	
6.		Special Ordinances / Resolutions, if any	No	

Syllabus for TYBA Course: Literary Criticism Course Code: UAENG502 & UAENG602

Objectives of the Course:

- 1) To introduce the learners to important critical terms
- 2) To make them aware of the nature and function of literature and criticism
- 3) To impart the technique of close reading of literary texts
- 4) To enable them to understand various literary theories and critical approaches
- 5) To familiarize the learners with the tenets of practical criticism

Outcome of the Course:

After completion of the course, students are expected to be able to:

- 1) use some important critical terms
- 2) become aware the nature and function of literature and criticism
- 3) impart the technique of close reading of literary texts
- 4) understand the various literary theories and critical approaches
- 5) be familiar with the tenets of practical criticism

UNIT I: Critical Terms

(15 lectures)

(i) Simile, (ii) Imagery, (iii) Symbol, (iv) Paradox, (v) Ambiguity, (vi) Myth

UNIT II: Nature and Function of Literature

- i. Literature as Imitation (Plato-Aristotle debate)
- ii. Literature and Imagination (the Romantic Idea of the Imagination)
- iii. Literature as an expression of the writer's personality
- iv. Function of Literature (aesthetic, moral and cognitive functions)

UNIT III: Nature and function of Literary Criticism (15 lectures)

- i. Nature of Literary Criticism
- ii. Functions of Literary Criticism (Explication, Analysis, Interpretation, Evaluation, Theorizing)
- iii. A survey of the Role of a Critic

UNIT IV: Practical Criticism: Scansion

Two short passages of poetry (6 to 10 lines each) will be set for scansion. Students should scan the poem, identify the base metre (iamb, trochee), variations (pyrrhic, spondee, anapaest, dactyl, cretic, amphibrach, etc.), rhyme scheme, stanza forms if any, and the metrical peculiarities such as end-stopped lines, run-on lines, elision, caesura and other basic concepts of versification.

(5 marks for scanning and identifying the base metre, 4 marks for identifying modulations and other metrical peculiarities and 1 mark for rhyme scheme)

Semester End Examination Pattern	100 Marks	03 Hours

Semester End Examination for 100 marks will have 5 questions (with internal choice) of 20 marks each

Q.1 Short Notes (2 out of 4) – Unit I

Q.2 Essay type Question (1 out of 2) – Unit II

- Q.3 Essay type Question (1 out of 2) Unit III
- Q.4 Short Notes: (2 out of 4) Unit II and III
- Q.5 Scansion of two extracts from poetry of about 6-10 lines each

(15 lectures)

(15 lectures)

Total Lectures: 60

Cours	e Code: UAENG602	04 Credits	Total Lectures: 60
UNI	F I: Literary Movements	5	(15 lectures)
i. (Classicism, ii. Romanticis	m, iii. Realism, iv. Na	turalism, v. Symbolism,
vi.	Aestheticism		
UNI	Г II: Critical Approache	s:	(15 lectures)
i.	New Criticism		
ii.	Structuralism		
 111.	Psychoanalytic Criticisn	n	
iv.	Archetypal Criticism		
UNI	Г III: Critical Approach	es	(15 lectures)
i.	Marxist Criticism		
ii.	Feminist Criticism		
iii.	Postcolonial Criticism		
•	Eas Critisians		

1V. Eco Criticism

UNIT IV: Practical Criticism

Critical Appreciation of an unseen poem: A short poem of about 20 lines will be set for appreciation. The title of the poem will be given. The unit will test the students' responsiveness to the poem and their linguistic ability in analysing the poem. Students are expected to mobilize the techniques of close reading and their understanding of literary devices like imagery, metaphor and other poetic devices while learning this unit.

Semester End Examination Pattern 100 Marks **3** Hours

Semester End Examination for 100 marks will have 5 questions (with internal choice) of 20 marks each

- Q.1 Short Notes (2 out of 4) Unit I
- Q.2 Essay type Question (1 out of 2) Unit II
- Q.3 Essay type Question (1 out of 2) Unit III
- Q.4 Essay type Question (2 out of 4) Unit II & III
- Q.5 Critical Appreciation of an unseen poem

(15 lectures)

Semester VI Paper V: Literary Criticism - II

References:

- Abrams, M. H. A Glossary of Literary Terms. (8th Edition) New Delhi: Akash Press, 2007.
- Abrams, M. H. *The Mirror and the Lamp: Romantic Theory and Critical Tradition.* Oxford: OUP, 1971
- Ashcroft, Bill etal. (ed.) The Post-Colonial Studies Reader. London: Routledge, 1995.
- Baldick, Chris. The Oxford Dictionary of Literary Terms. Oxford: OUP,2001.
- Blackstone, Bernard. Practical English Prosody. Mumbai: Orient Longman, 1984.
- Bodkin, Maud. Archetypal Patterns in Poetry. London: Oxford University Press, 1934.
- Buell, Lawrence. *The Environmental Imagination: Thoreau, Nature Writing, and the Formation of American Culture.* MA: Harvard University Press, 1995.
- Daiches, David. Critical Approaches to Literature. London: Longman, 1984.
- Drew, Elizabeth. Understanding Poetry. New York: Norton, 1959.
- Dutton, Richard. Introduction to Literary Criticism.London: Longman, 1984.
- Eagleton, Terry. Literary Theory.London: Basil Blackwell, 1983.
- Enid, Hamer. The Metres of English Poetry. Booksway, 2014
- Garrard, Greg. *Ecocriticism*. New York: Routledge, 2012.
- Garrard, Greg, ed. The Oxford Handbook of Ecocriticism. New York: OUP, 2014.
- Guerin, Wilfred et al. *A Handbook of Critical Approaches to Literature*.Oxford: OUP, 1999.
- Enright, D.J. and Chickera, E. *English Critical Texts*. Delhi: Oxford University Press, 1962.
- Fowler, Roger (ed.) (rev.)*A Dictionary of Modern Critical Terms*. London: Routledge&Kegan Paul, 1987.
- Frye, Northrop. "The Archetypes of Literature." The Norton Anthology: Theory and Criticism. Ed. Vincent B. Leitch. New York: Norton, 2001.
- Habib, M.A.R. A History of Literary Criticism: From Plato to the Present. London:Blackwell, 2005.
- Hudson, William Henry. An Introduction to the Study of Literature. New Delhi: Atlantic,2007.

Jump, John (ed.) Critical Idiom Series. Metheun.

Lentriccia, Frank. After the New Criticism. Chicago: Chicago UP, 1980.

- Lodge, David (Ed.) Twentieth Century Literary Criticism. London: Longman, 1972.
- Lodge, David, with Nigel Wood. *Modern Criticism and Theory: A Reader*. 2nd Ed. London:

Longman, 1988.

- Nagarajan M. S. English Literary Criticism and Theory: An Introductory History. Hyderabad, Orient Black Swan, 2006.
- Ramamurthi, Lalitha. *An Introduction to Literary Theory*. Chennai: University of Madras, 2006.
- Richards, I. A. Practical Criticism. London: Kegan Paul, 1930.
- Said, Edward. Orientalism. New York: Pantheon, 1978.
- Schreiber, S. M. Introduction to Literary Criticism. Oxford: Pergamon Press, 1965.
- Selden, Raman and Widdowson, Peter. A Reader's Guide to Contemporary Literary Theory.
- 3rd ed. Lexington: University of Kentucky Press, 1993.
- Selden, Raman. *A Reader's Guide to Contemporary Literary Theory*.London: Harvester Press, 1985.
- Scott, Wilbur. Five Approaches to Literary Criticism.London: Longman, 1984.
- Wellek, Rene and Austin, Warren. *Theory of Literature*. London: Jonathan Cape, 1955.
- Wolfreys, Julian. (ed.) Introducing *Literary Theories: A Guide and Glossary*.Edinburgh:Edinburgh University Press, 2003.

Syllabus Prepared by:

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Dr. Pratima Das,	C.H.M. College, Ulhasnagar	:	Member
Ms. Saradha Balas	subramanian, K. C. College, Churchg	gate:	Member
Ms. Shanti Polam	uri, Maharashtra College, Byculla	a :	Member

University of Mumbai

Syllabus for T.Y.B.A. English Semester V & VI

Course: Elective Paper

Course Title: Grammar and the Art of Writing

(Choice Based Credit System with effect from the Academic Year 2018-19)

1. Syllabus as per Credit Based Semester and Grading System:

i)	Name of the Programme	:	T.Y.B.A. English
ii)	Course Code	:	UAENG503A & UAENG603A
iii)	Course Title	:	TYBA English Paper VI
			Grammar and the Art of Writing
iv)	Semester wise Course Contents	:	Enclosed the copy of syllabus
v)	References and Additional Referen	nces:	Enclosed in the Syllabus
vi)	Credit Structure	:	
No. o	f Credits per Semester	:	03
vii)	No. of lectures per Unit	:	15
viii)	No. of lectures per week	:	03
2.	Scheme of Examination	:	4 Questions of 20 marks each and
			a project of 20 marks
3.	Special notes, if any	:	No
4.	Eligibility, if any	:	No
5.	Fee Structure	:	As per University Structure
~		0	

6. Special Ordinances / Resolutions if any: No

Syllabus for TYBA Course: GRAMMAR AND THE ART OF WRITING Course Codes: UAENG503A & UAENG603A

Objectives:

- 1. To develop amongst learners an insight into the process of word formation and transformation
- 2. To develop amongst them an insight into the sounds, stress patterns and intonations in the English language to improve their speaking skills
- 3. To develop among them an insight into the structure of the English language and to provide knowledge of the rules of grammar
- 4. To help them learn grammatical analysis and description and the skills of sentence transformation
- 5. To introduce the mechanics of writing for effective writing for various domains

Outcome of the Course:

After the completion of the course, students are expected to be able to:

- 1. Gain a basic understanding of phonetics, morphology and word transformation
- 2. Have improved speaking skills
- 3. Have developed adequate knowledge of the rules of grammar, grammatical analysis and sentence transformation
- 4. Write effectively in various domains.

SEMESTER- V: Paper VI – Grammar and the Art of Writing – I		
Course Code: UAENG503a	3 Credits	Total Lectures: 45

Phonetics, Morphology, Grammar and the Art of Writing

Unit I: Phonetics and Morphology

15 lectures

A. Phonetics

- Phoneme and its distinctive features
- English Vowels and Consonants (Difference between BRP and Indian English)
- Diphthongs
- Consonant Clusters
- Transcription using phonetic script

B. Morphology

- Morph, Allomorph and Vowel Mutation
- Free and Bound Morphemes
- Root and stem
- Inflection and Derivation
- Morphological Analysis

• Open word classes: nouns, adjectives, verbs, adverbs

conjunctions, enumerators, interjections

• Closed word classes: pronouns, determiners, operator verbs, prepositions,

• Noun Phrase, Genitive Phrase, Prepositional Phrase, Adjective Phrase and Adverb

Unit 2: Grammar: Words and Phrases

I. Discourse Analysis

PhraseVerb Phrase

• Tenor

Unit 3: Art of Writing

- Mode
- Domain

Domain and language change – journalism, advertising and literature, scientific and technical writing

II. Mechanics of Writing

• Understanding paragraph divisions and topic sentences of paragraphs

III. Writing for Print Media

• Print – News Report

Evaluation Pattern:			
1) Semester End Examination: 80	Marks	- 2 1/2	Hours
2) Project: 20 Marks			

1) Semester End Examination (80 marks):

Q.1	a. Phrase analysis	20 marks
Q.2	a. Verb Phrases	06 marks
	b. Morphological analysis	14 marks
Q.3	a. Stress Marking and Intonation	10 marks
	b. Transcription	10 marks
Q. 4.	Writing a news report on the basis of the facts given	20 marks

2) Project work (20 marks):

Students should be tested on –

1. Breaking a passage of about 250-300 words into appropriate paragraphs, picking up the topic statement of each paragraph 10 marks

AND

2. Identifying the register of a passage about 250-300 words 10 marks

15 lectures

15 lectures

SEMESTER- VI: Grammar and the Art of Writing – IICourse Code: UAENG603A3 CreditsTotal Lectures: 45

Grammar and the Art of Writing

Unit I: Grammar

I. Clauses:

- Clause elements and subject –verb concord
- Basic clause patterns
- Types of clauses : finite non-finite (tensed tenseless), independent dependent (Main Subordinated)
- Kinds of subordinate clause : Noun clause, Prepositional Clause, Relative clause, Adverb Clause, Comparative Clause
- Co-ordinated Clauses

II. Sentences:

 Basic and Derived structures
 Following rules to be studied – Fronting, Inversion, Passive reconsideration,
 Substitution of PP for Indirect Object, Tag Questions, Postponement of the postmodifier, Cleft Sentence, Existential Sentence and Extraposition.

Unit 2: Art of Writing

Mechanics of Writing

- Characteristics of typical writing and typical speech
- Cohesion and Coherence
- Correct use of Articles, Prepositions, Adverbs, Adjectives
- Common Errors Grammatical, Syntactical, Lexical, Punctuation, Logical
- Writing a Thesis Statement

Rhetorical Structures

- Classification, Comparison Contrast, Cause Effect, Chronological and Spatial Ordering, Order of Importance, Statement and Elaboration, Restatement, Exemplification, Listing
- Understanding connotations, Using bias-free language, Avoiding jargon and archaic/ outdated language, Eliminating repetition and redundancy, Content Analysis, and Rhetorical Devices

20 lectures

05 lectures

10 lectures

Unit 3: Types/ Domains of Writing

10 lectures

- Argumentative/ reflective writing
- Analytical writing
- Creative / Figurative writing
- Advertisement /Body Copy writing

Evaluation Pattern: 1) Semester End Examination: 80 Marks - 2 1/2 Hours 2) Project: 20 Marks

1) Semester End Examination Pattern (80 marks)

Q 1.	Identifying elements of the Clause (SPOCA)	20 marks
Q 2.	a. Identifying MCL and SCL	10 marks
	b. Basic and Derived Structures	10 marks
Q. 3.	a. Identifying errors in the given passage.	08 marks
	b. Rewriting the passage to make it more fluent and coherent.	12 marks
For	rming a thesis statement on the given topic (1 out of 3) and developing it in	about150
	words and specifying its rhetorical structures.	20 marks

2) Project work (20 marks):

Students should be tested on

- 1. Writing a Literary Passage (creative/ figurative) of about 250-300 words 10 marks AND
- 2. Writing an advertisement copy on the basis of facts provided 10 marks

Prescribed Text:

1. Leech, Geoffrey, Deuchar, Margaret and Hoogenraad, Robert, *English Grammar for Today: A New Introduction*. London: Macmillan, 1973

Additional Reading:

- 1 Quirk, R. and Greenbaum. S. *A University Grammar of English*, Longman, 1973
- 2 Rajimwale, Sharad. *Elements of General Linguistics, Vol. I*, New Delhi: Rama Brothers
- 3 Varshney, Dr. R.L. *An Introductory Text Book of Linguistics and Phonetics*, New Delhi: Prakash Book Depot

Recommended Books for Further Reading:

- Payne, Lucile Vaughan. *The Lively Art of Writing*. New York: Mentor, 1969
- 2. Kleiser, Grenville. The Art of Writing. New Delhi: A P H, 2011
- 3. Trimble, John R. *Writing with Style, Conversations on the Art of Writing*. New Jersey: Prentice Hall, 1975
- 4. Bailey, Stephen. *Academic Writing: A Handbook for International Students*. New York: Routledge , 2011
- 5. Huddleson, Rodney and Pullum, Geoffrey. *A Student's Introduction to English Grammar*. New Delhi: Cambridge University Press, 2005
- 6. Leech, Geoffrey and Svartvik, Jan. *A Communicative Grammar of English*. New York: Routledge, 1975
- Singh Sukhdev and Singh Balbir. Grammar of the Modern English Language: A Resource Book. New Delhi: Cambridge University Press India Pvt. Ltd., 2012
- 8. Turton, Nigel D. *A B C of Common Grammatical Errors*. New Delhi: Macmillan India Ltd., 1996
- 9. Sethi, J. and Dhamija, P.V. *A Course in Phonetics and Spoken English*. New Delhi: Prentice-Hall of India Private Ltd., 2006
- 10. Jones, Daniel. *Everyman's English Pronunciation Dictionary* The English Language Books Society, ELBS
- 11. Gimson, A. C. An Introduction to the Pronunciation of English. ELBS
- 12. Rahman, Tariq. A General Introduction to Linguistics. Orient Blackswan
- 13. Crystal, David. *The Cambridge Encyclopedia of Language*. Cambridge University Press
- 14. Crystal, David. A Little Book of Language. Orient Blackswan.
- 15. Sreedharan, V. *How to Write Correct English.* New Delhi: Goodwill Publishing House
- 16. Lowe, Michelle and Graham, Ben. Language and Power: A Resource Book for Students. Orient Longman, 1998
- 17. Simpson, Paul and Mayr, Andrea. *Language and Power: A Resource Book for Students*. Routledge, Taylor & Francis Group, 2010
- 18. Mohan, Krishna and Raman, Meenakshi. Advanced Communicative English: A Comprehensive Course for Undergraduate Learners. New Delhi: Tata McGraw Hill Education Private Limited, 2010
- 19. Gurman, Pamela J. Strategies for Successful Writing: Written Communication in the Modern World. Pearson Custom Publishing.
- 20. Grammar Handbook (Capella University) available in pdf format at http://www.capella.edu/interactivemedia/onlinewritingcenter/download s/grammar.pdf
- 21. Brighton, Laurel J. *The Structure of Modern English: A Linguistic Introduction* available in pdf format at http://npu.edu.ua/!e-

book/book/djvu/A/iif_kgpm_The%20Structure%20of%20Modern%20En glish.pdf

22. A Course in English Phonetics for English EFL Students available in pdf format at

file:///C:/ADMIN/Desktop/A_Course_in_English_Phonetics%20(1).pdf

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University of Mumbai

Syllabus for T.Y.B.A. English

Semester: V & VI

Course: Elective Paper

Course Title: Translation Studies: Theory and Practice

(Choice Based Credit System with effect from the Academic Year 2018-19)

1.		Syllabus as per Choice Based Credit System		
	i)	Name of the Program :	T.Y.B.A. English	
	ii)	Course Code :	UAENG503B& UAENG603B	
	iii)	Course Title :	Translation Studies : Theory and Practice	
	iv)	Semester wise Course Contents:	Enclosed the copy of syllabus	
	v)	References and Additional : References	Enclosed in the Syllabus	
	vi)	Credit Structure :		
		No. of Credits per Semester	04	
	vii)	No. of lectures per Unit :	15	
	viii)	No. of lectures per week :	03	
	ix)	No. of Tutorials per week :		
2.		Scheme of Examination :	4 Questions of 20 marks each and a project of 20 marks	
3.		Special notes , if any :	No	
4.		Eligibility , if any :	No	
5.		Fee Structure :	As per University Structure	
6.		Special Ordinances / : Resolutions if any	No	

Syllabus for TYBA

Course: Translation Studies: Theory and Practice Course Codes: UAENGUAENG503B&UAENG603B

Objectives of the Course:

- 1. To make students aware of various types of translation
- 2. To enable students to undertake translation of literary texts
- 3. To enable students to use translation in official contexts and mass media
- 4. To help students to avail of job opportunities

Outcome of the Course:

After completion of the course, students are expected to be able to:

- 1) Understand variety of translations
- 2) Able to undertake Literary Translation work at primary level.
- 3) Able to undertake translation in official contexts and mass media
- 4) Equipped to take up jobs.

Semester V: Translation Studies : Theory and Practice Course code- UAENG503B04 CreditsTotal Lectures: 45

Unit 1: Terms & Concept:

- 1. Translation
- 2. Transliteration
- 3. Source Language Text and Target Language Text
- 4. Loss and Gain in Transaction
- 5. Creative & Free Translation
- 6. Word to word & Structural Translation

15 Lectures

Unit 2: Indian Theories of Translation:

15 Lectures

- 1. Bhartrhari's Sphota and Translation
- 2. Theory of Auchitya and Translation
- 3. Sri. Aurobrindo Ghosh's Theory of Translation
- 4. Rabindranath Tagore's Theory of Translation

Unit 3: Translated Non- Fictional texts

15 Lectures

1. Annihilation of Caste (Pages 1-5) (English to Marathi/ Hindi)

2. 1958 Literary Conference Speech by Anna Bhau Sathe (Marathi / Hindi to English)

Evaluation Pattern:1) Semester End Examination: 80 Marks - 2 1/2 Hours 2) Project: 20 Marks

Semester End Examination:

- Q.1. 2 Short Notes based on Unit-I (2 out of 4)
- Q.2. Essay type question based on Unit-II (One out of two)
- Q.3. Essay type question based on Unit-III (One out of two)
- Q.4. Translation of Unseen Non-literary passage from English into Hindi/Marathi

Project Work (20 marks):

A Non-literary passage of about 500 words from Hindi or Marathi to be translated into English by the students. It should also include the introduction of the SL text, list of the problems faced and the loss and gain in the process of translation.

Semester VI: Translation Theory and Practice			
Course code- UAENG603B	04 Credits	Total Lectures: 45	
Unit I: Terms & Concepts		15 Lectures	
1. Formal and Dynamic Equivalence			
2. Interlingual and Intralingual Trans	lation		
3. Qualities and Strategies of Transla	tor		
4. Lexicography bilingual dictionarie	S		
5. Commercial and collaborative Tran	nslation.		
6. Audiovisual, Subtitling and Dubbi	ng		
Unit 2: Types of Translation-proce	ss and problems	15 Lectures	
1. Translation of Prose and fiction			
2. Translation of Poetry			
3. Translation of Drama			
Unit 3: Translated Literary Texts		15 Lectures	
1. Premchand's short story "Gulli	Danda" translated fr	rom Hindi into English	
(Premchand's Selected Stories	s 1, Translated and	adapted by Anupa Lal,	

 Nissim Ezekiel's poem "Night of the Scorpion" translated from English into Marathi (Adhunik- Stotre by Pradeep Deshpande)

Ratna Sagar, P. Ltd. New Delhi 1995)

Semester End Examination for both Semesters:

- Q.1. 2 Short Notes based on Unit-I (2 out of 4)
- Q.2. Essay type question based on Unit-II (One out of two)
- Q.3. Essay type question based on Unit-III (One out of two)
- Q.4. Translation of Unseen Non-literary passage from English into Hindi/Marathi

Project Work for both semesters (20 marks):

A Literary text of about 500 words from Hindi or Marathi to be translated into English by the students. It should also include the introduction of the SL text, list of the problems faced and the loss and gain in the process of translation.

Recommended Reading:

- 1. Bassnett, Susan, Political Discourse, Media and Translation, Cambridge Scholars, 2010.
- Bassnett Susan and Trivedi Harish, "Post-Colonial Writing and Literary Translation" in Post-Colonial Translation: Theory and Practice. Ed. London: Routledge, 1999.
- Didier, Coste, The Poetics and Politics of Literary Translation, New Delhi, 2011. 71
- 4. Ghurye, G.S Caste, Class and Occupation: Popular Book Depot, 1961.
- 5. Guha, Ranjit and Spivak Gayatri Selected Subaltern Studies: Eds., Oxford University Press, New York and Oxford, 1988.
- 6. Lawrence, Venuti, (Edited by) Translation Studies Reader, 2012.
- 7. Mukherjee, Meenakshi. The Twice Born Fiction: Themes and Techniques of theIndian Novel in English New Delhi: Heinemann Educational, 1971.
- 8. Naikar Basavaraj, Glimpses of Indian Literature in English Translation, Authorspress, 2008.
- 9. Pandey, A. P. A Revolutionary Fervor in Kabir's Poetry, by Bhaskar Publications, Kanpur, 2008.

10.Rahman, Anisur. Indian Literature(s) in English Translation - The discourse of Resistance and representation in Journal Of Postcolonial Writing Vol. 43, 2007.

Websites & You Tube Videos

- 1. https://complit.artsci.wustl.edu/graduate/translation_studies
- 2. http://cw.routledge.com/textbooks/translationstudies/data/samples/9780415584

890.pdf

- 3. https://www.youtube.com/watch?v=HZXhzP3mBsA
- 4. https://www.youtube.com/watch?v=gP3bheM6fmg

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Asst. Professor, Department of English		
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University of Mumbai

Syllabus for T.Y.B.A. English

Semester: V & VI

Course: Elective Course Title: Popular Culture

(Choice Based Credit System with effect from the Academic Year 2018-19)

1.		Syllabus as per Choice Based Credit System		
	i)	Name of the Program :	T.Y.B.A. English	
	ii)	Course Code :	UAENG503C & UAENG603C	
	iii)	Course Title :	Popular Culture	
	iv)	Semester wise Course Contents:	Enclosed the copy of syllabus	
	v)	References and Additional : References	Enclosed in the Syllabus	
	vi)	Credit Structure : No. of Credits per Semester	04	
	vii)	No. of lectures per Unit :	15	
	viii)	No. of lectures per week :	03	
	ix)	No. of Tutorials per week :		
2.		Scheme of Examination :	4 Questions of 20 marks each and a Project of 20 marks	
3.		Special notes , if any :	No	
4.		Eligibility , if any :	No	
5.		Fee Structure :	As per University Structure	
6.		Special Ordinances / : Resolutions if any	No	

Syllabus for TYBA

Course: Popular Culture Course Codes: UAENG503C& UAENG603C

Objectives of the Course:

- 1. To understand the nature and politics of Popular Culture.
- 2. To explore the interplay between Culture and Popular Culture and their influence over each other.
- 3. To expand existing critical thinking to enable textual analysis
- 4. To understand different perspectives on politics and control.

Outcome of the Course:

After completion of the course, students are expected to be able to:

- 1. To articulate in writing responses to thinking critically about Popular Culture
- 2. To be able to assert agency over events involving their lives

Semester V: Popular Culture			
Course code- UAENG503C	4 Credits	Total Lectu	res: 45
Unit 1: Understanding the Concept	of Popular Cult	ture	15 Lectures
• Culture, Ideology and the Concept	t of the Popular		
• Culture and Civilisation Tradition			
Culturalism			
• High Culture vs Culture Debate			
Unit 2 Control over Meaning throug	gh perpetuation	of Myths	(15 Lectures)
• Semiotics-Understanding the cons	truction of the S	ign- Saussure	
• Barthes –Structuralism and post st	ructuralism-		
• Will Wright- Myth and the Wester	rn Film		
• Critical terms: myth, genre, theme	, language, struc	ture, character	
• To be applied to any texts/images	of popular cultur	re	
Unit 3: The Politics of Culture-Hege	emony and Post	Marxist Perspe	ectives (15 Lectures)
• Encoding/Decoding of Meaning			
• Negotiation and Agency			
• Caste/Gender Discrimination-Perp	petuating Rape C	ulture	
• Recommended study from the per-	spective of conte	emporary case stu	udies/films
Project: Deconstructing Texts of Pop	oular Culture	20 Marks	
Folk Tales/Fairytales/Animal fable	es		
Detective Fiction/Crime Fiction/T	hriller/Suspense		
• Comics- Tarzan, Wonderwoman,	Peanuts (Marvel	/Shultz)	
• Identify and analyse the historical,	, socio-political a	and literary dynamics	mics as well as themes
and concerns which define genre,	reflect culture, e	xtend across cult	tures or appeal to a

particular culture

Semester VI: Popular Culture - II **Course code- UAENG603C** 4 Credits

Total Lectures: 45

Unit 1 Gender and Popular Culture

- Feminist Approaches to Popular Culture
- Subversions of Femininity/Masculinity in Popular Culture
- Visual Pleasure/Narrative Cinema: Scopophilia and the Male Gaze/Ignoring the Female Spectator/Bechdel Test
- Mainstream Cinema and Female Spectatorship
- Recommended Films Films of Alfred Hitchcock from the perspective of his treatment of women/Films of MadhurBhandarkar 2011 female-centric films/any other films with strong female protagonists (Hindi and Regional Films may be studied.

Unit 2: Postmodernism and Culture: 15 Lectures

- The Global Postmodern •
- Reality/Mediated Reality/Pluralism of Value •
- John Storey/Francois Lyotard/Frederic Jameson/Jean Baudrillard
- Case studies from the perspective of how both Western and Indian cultural paradigms have evolved

Unit 3 Taste/Identity and Popular Culture

- Culture Industry Revisited
- Frankfurt School/Consumerism
- The Politics of Popular Taste
- Privilege and Taste
- Case studies from the perspective of advertising/consumerism

Semester End Examination Pattern: 80 Marks	2 ½ Hours

The Semester End Examination for 80 marks will have 4 questions (with internal choice) of 20 marks each:

Question 1: A. Essay or Question 1: B. Essay or Question 1.C. Short Notes (02 out of 04) - Unit I Q.2 Essay Type Question (1 out of 2) - Unit 2

Q.3 Essay Type Question (1 out of 2) - Unit 3

Q.4 Short Notes (2 out of 4)-02 each on Unit 2 & 3

Project: One project of 20 marks

• Project: Deconstructing Texts of Popular Culture (20 Marks)

Music/Music Videos/Pop Art/Dance/Reality Shows on Television; Identify and analyse the historical, socio-political and literary dynamics as well as themes and concerns which define genre, reflect culture, extend across cultures or appeal to a particular culture

15 Lectures

15 Lectures

Recommended Reading:

- Appadurai, Arjun, and Carol A. Breckenridge."Public Modernity in India." *Consuming Modernity*.Ed. Carol A. Breckenridge. Delhi: Oxford UP, 1995. 1-17. Print.
 - _____. *Modernity at Large: Cultural Dimensions of Globalization*. Minneapolis, MN: U of Minnesota, 1996. Print.
- Arnold, Matthew. Culture and Anarchy. N.p.: n.p., 1869. Print.
- Barrett, Michèle. "Feminism and the Definition of Cultural Politics." *Feminism, Culture, and Politics*. Ed. Rosalind Brunt and Caroline Rowan. London: Lawrence and Wishart, 1982. 37-58. Print.
- Barthes, Roland. *Mythologies*.Trans. Annette Lavers. Hertfordshire: Paladin, 1973. Print. (Essays Novels and Children: page 50, The Face of Garbo: page 56, Striptease: page 84, Accessed on the internet: 16th May, 2016)
- Bartky, S. "Foucault, Femininity, and the Modernization of Patriarchal Power." *Feminismand Foucault: Reflections on Resistance*. Ed. I. Diamond and L. Quinby. Boston: Northeastern UP, 1988. 61-86. Print.
- Berger, John. *Ways of Seeing*. London: British Broadcasting Corporation and Penguin, 2008. Print. (Chapter 7, Accessed on the internet: 5th May, 2016)
- Butler, Judith. Gender trouble: feminism and the subversion of identity. New York:Routledge, 1990. Print.
- Chatterji, Shoma A., Subject: Cinema Object: Woman: A Study of the Portrayal of Women in Indian Cinema. Calcutta: Parumita Publications, 1998.
- Cook, Pam. "Masculinity in Crisis?" Screen 23.3-4 (1982): 39-46. Web.
- Durham, Meenakshi Gigi., and Douglas Kellner. *Media and Cultural Studies: Keyworks*. Malden, MA: Blackwell, 2001. Print.
- Dwyer, Rachel. All You Want Is Money, All You Need Is Love: Sexuality and Romance in Modern India. London: Cassell, 2000. Print.
- Dwyer, R. "Bombay Ishtyle." *Fashion Cultures: Theories, Explorations, and Analysis.* Ed. S. Bruzzi and G. P. Church. New York: Routledge, 2000. 178-90. Print.
- Ellis, John. Visible Fictions: Cinema, Television, Video. London: Routledge, 1992. Print.
- Fiske, J. "Active Audiences," and "Pleasure and Play." *Television Culture*. London and NY: Methuen, 1987. N. pag. Print.
- Fiske, John. Understanding Popular Culture. Boston: Unwin Hyman, 1989. Print.
- Foucault, Michel as cited in Barrett, Michele. *The Politics of Truth: From Marx to Foucault*. Stanford, CA: Stanford UP, 1991. Print.
- Gamman, Lorraine, and Margaret Marshment. The Female Gaze: Women as Viewers of Popular Culture. London: Women's, 1988. Print.
- Ganham, Nicholas, and Raymond Williams. "Pierre Bourdieu and the Sociology of Culture: An Introduction." *Media, Culture and Society* 2.3 (n.d.): 215. Print.
- Gehlawat, Ajay. *Reframing Bollywood: Theories of Popular Hindi Cinema*.N.p.: Sage Publications, 2010. Print.

- Gledhill, Christine., "Pleasurable Negotiations." *Female Spectators: Looking at Film and Television*. Ed. D. E. Pribram. London: Verso, 1988. 64-89. Print.
- Gledhill, Christine., Recent Developments in Feminist Criticism in Film Theory and Criticism, Introductory Readings. Eds: Leo Braudy and Marshall Cohen, New York and Oxford: Oxford University Press, 1999
- Gledhill, Christine. Stardom: Industry of Desire. London: Routledge, 1991. Print.
- Hall, Stuart. "Encoding/Decoding." *The Cultural Studies Reader*.Ed. S. During. London and NY: Routledge, 1993. N. pag. Print.
- Kaarsholm, Preben, ed. City Flicks City Flicks: Indian Cinema and the Urban Experience. Calcutta, New Delhi: Seagull, 2004. Print.
- Kaplan, E. Ann. Looking for the Other: Feminism, Film, and the Imperial Gaze. New York: Routledge, 1997.Web.
- Kasbekar, A. "Hidden Pleasures: Negotiating the Myth of the Female Ideal in Popular Hindi Cinema." *Pleasure and the Nation: The History, Politics, and Consumption of Public Culture in India.* Ed. C. Penney and R. Dwyer. New Delhi: Oxford UP, 2001. 286-308. Print.
- Kavoori, Anandam P., and AswinPunathambekar. *Global Bollywood*. New Delhi: Oxford UP, 2009. Print.
- Kuhn, A. "Women's Genres." Screen 25.1 (1984): 18-29. Web.
- Mathur, Vrinda. "Women in Indian Cinema: Fictional Constructs." *Films and Feminism: Essays in Indian Cinema*. Ed. Jasbir Jain and SudhaRai. Jaipur and New Delhi: Rawat Publications, 2002. N. pag. Print.
- McGuigan, Jim. Cultural Populism. London: Routledge, 1992. Print.
- Modleski, Tania. Loving with a Vengeance: Mass-produced Fantasies for Women. Hamden, CT: Archon, 1982. N. pag. Print.
- Mulvey, Laura. "Visual Pleasure and Narrative Cinema." 1975. Visual Culture: The Reader. Ed. Jessica Evans and Stuart Hall. London: SAGE Publications inAssociation with the Open U, 1999. 381-89. Print.
- Nandy, Ashis. The Secret Politics of Our Desires: Innocence, Culpability, and Indian Popular Cinema. London: Zed, 1998. Print.
- Nayar, Pramod K. An Introduction to Cultural Studies. New Delhi: Viva, 2008. Print.
- Philip, Michelle. *Reel VS Real: The Portrayal of Women in Mainstream Bollywood Cinema*. Mumbai. 2014. Print.
- Philip, Michelle.*Re-possessing the Female Gaze: The Woman as Active Spectator of Mainstream Bollywood Cinema*.Mumbai. 2014. Print.
- Philip, Michelle. The Indian Woman's Search for Identity Vis a Vis Mainstream Bollywood Cinema. 2014. Print.
- Philip, Michelle. *The Treatment of Women in Reel VS Real Life as Influenced by Mainstream Bollywood Cinema*. 2014. Print.

Philip, Michelle. *Peddling Fantasies: The Role of Bollywood Cinema in Coping with Reality with Reference to MadhurBhandarkar's Film, Fashion.* 2015. Print.

Pinto, Jerry. The Greatest Show on Earth: Writings on Bollywood. New Delhi: Penguin, 2011. Print.

Prasad, M. Madhava. *Ideology of the Hindi Film: A Historical Construction*. Delhi: Oxford UP, 1998. Print.

Radway, Janice. *Reading the Romance: Women, Patriarchy, and Popular Literature*. London: Verso, 1987. N. pag. Print.

Saltzman, Joe. "Sob Sisters: The Image of the Female Journalist in Popular Culture." *Image of the Journalist in Pop Culture* (2003): n. pag. Web. 5 Mar. 2017.

Smelik, Anneke. And the mirror cracked: feminist cinema and film theory. New York: St. Martin's Press, 1998. Print.

Stacey, Jackie. *Star Gazing: Hollywood Cinema and Female Spectatorship*. London: Routledge, 1994. Print.

Storey, John. *Cultural Theory and Popular Culture: An Introduction*. Sixth ed. N.p.: Dorling Kindersley, 2014. Print. Indian Reprint

Vasudevan, Ravi. Making Meaning in Indian Cinema. New Delhi: Oxford UP, 2000. Print.

Vasudevan, R. "Cinema in Urban Space." Seminar, No. 525.N.p., n.d. Web. 23 Feb. 2004.

Virdi, Jyotika. *The Cinematic ImagiNation: Indian Popular Films as Social History*. New Brunswick, NJ: Rutgers UP, 2003. Print.

White, Patricia. *Film Studies: Critical Approaches*. Ed. John Hill and Pamela Church. Gibson. Oxford: Oxford UP, 2000. Print.

Willis, Paul. Common Culture. Buckingham: Open UP, 1990. 3. Print.

Wolf, Naomi. *The Beauty Myth: How Images of Beauty Are Used against Women*. London: Vintage, 1991. Print.

Syllabus Prepared by:

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University of Mumbai Syllabus for T.Y.B.A. in English Semester: V&VI

Course: Core Paper

Course Title: 19thCentury English Literature

(Choice Based Credit System with effect from the Academic Year 2018-2019)

1. Syllabus as per Choice Based Credit System

i) Name of the Programme	:	T.Y.B.A. English
ii) Course Code	:	UAENG504 &UAENG604
iii) Course Title	:	19th Century English Literature
iv) Semester wise Course Contents	:	Copy of the syllabus Enclosed
v) References and additional references	:	Enclosed in the Syllabus
vi) Credit structure	:	
No. of Credits per Semester	:	04
vii) No. of lectures per Unit	:	20
viii) No. of lectures per week	:	04
ix) No. of Tutorial per week	:	
2 Scheme of Examination	:	5 Questions of 20 marks each
3 Special notes, if any	:	No
4 Eligibility, if any	:	No
5 Fee Structure	:	As per University Structure
6 Special Ordinances / Resolutions, if any	:	No

Syllabus for TYBA

Course: 19th Century English Literature

Course Codes: UAENG504 &UAENG604

Objectives of the Course:

- 1. To introduce to students the major trends and ideas in the literature and culture of the Romantic and Victorian Eras
- 2. To help students understand the texts in the context of prevailing sociocultural conditions & their historical, political location
- 3. To impress upon students the characteristically rebellious/ radical nature of British Romanticism and the stupendous range of changes in the socio-political conditions of Early (1837-1851), Middle (1851-1870) and Late (1870-1901) Victorian Era
- 4. To familiarize and highlight major representative texts, genres, thematic concerns and select key concepts/terms pertaining to the respective periods
- 5. To help students apply a variety of critical, historical, and theoretical approaches to prescribed literary texts
- 6. To sensitize students to diverse sensibilities and humanitarian concerns through literature of the nineteenth century

Course Outcomes:

After completion of the course, students are expected to be able to:

- 1. To view literary works in their dynamic interface with the background
- 2. To understand the literature of the 19th century as a complex outcome of artistic, intellectual and socio-political cross-currents
- 3. To appreciate poetry as mirroring private personality, protest and subsequently, public concerns
- 4. To view the development of the Victorian Novel as informed by Victorian morality as well as by larger democratic processes
- 5. To contextualize the impulses behind the significant emergence of women writing in the 19th century
Semester V:Paper VII: 19th Century English Literature I

Course Codes: UAENG504 04 Credits Total Lectures: 60

The Romantic Revival (1798-1832)

Unit I: A. Background:

20 Lectures

- Romanticism as a reaction to Neo-classicism
- Influence of Rousseau and French Revolution
- Survey of Literature: Novel, Poetry and Prose (Types, Trends and Characteristics)
- Rise of women writers in the period

B. Concepts:

- Romanticism : Features
- Romantic Imagination
- German Transcendentalism
- The Gothic Revival
- Medievalism
- Pantheism

Unit II: Poetry: Selected Verse from the Romantic Period: 20 Lectures

William Blake :		'The Divine Image' from Songs of Innocence	
		'The Human Abstract' from Songs of Experience	
William Wordsworth	:	'Lines Written in Early Spring'	
'Lucy Gray'			
Samuel Taylor Coleridg	je :	'Kubla Khan'	
Lord Byron	:	'Darkness'	
P.B. Shelley	:	'Ozymandias'	
John Keats:	:	'On First Looking into Chapman's Homer'	
'Ode to Psyche			

Unit III:

20 Lectures

A. Novel: Jane Austen: Emma

OR

B. Essays: Charles Lamb: From Essays of Elia'Christs' Hospital Five and Thirty Years Ago'

'The Dream Children: A Reverie'

'Detached Thoughts on Books and Reading'

William Hazlitt: From Table-Talk: Essays on Men and Manners

'On the Pleasure of Painting' - Essay 1

'Why Distant Objects Please'

'On Going on a Journey'

The Victorian Age (1837 -1901)

Unit I: A. Background20 Lectures

- Effects of Industrial Revolution
- Middle class complacency and the rise of the working class
- Age of Science, Age of Faith and Doubt (the Victorian Dilemma)
- Survey of Literature of the period: Types, features and development (Novel, Poetry and Prose)

B. Concepts

- Utilitarianism
- Darwinism
- Victorian Concept of Morality
- Aestheticism
- Pre-Raphaelitism
- The Oxford Movement
- Bildungsroman and the Victorian Novel

Unit II: Poetry:Selected Verse from the Victorian Period:20 Lectures

Alfred Tennyson : From In Memoriam

Lyric 7: 'Dark house, by which once more I stand'

Lyric 54: 'Oh, yet we trust that somehow good'

Robert Browning : 'Porphyria's Lover'

'Fra Lippo Lippi'

Elizabeth Barrett Browning: Sonnets from the Portuguese:

'Sonnet 21': 'Say over again, and yet once over again'

Matthew Arnold :'The Forsaken Merman'

Dante Gabrielle Rosetti : 'The Cloud Confines'

Thomas Hardy :'Channel Firing'

'Dead Man Walking'

Unit III:

20 Lectures

A. Novel: Charles Dickens: David Copperfield

OR

B. Essays: John Newman: From *The Idea of a University*

Discourse V 'Knowledge its Own End'

John Ruskin: From Sesame and Lilies

'Of Kings' Treasuries'

'From the Queens' Gardens'

Evaluation: Semester End Examination Pattern 100 Marks: 3 Hours

Question 1: A. Essay*or

Question 1: B. Essay or

Question 1.C. Short Notes (two out of four) from Unit I

Question 2: Essay on Unit II (1out of 2)

- Question 3: Essay on Unit III (1 out of 2)
- Question 4: Short Notes on Unit II (2 out of 4)
- Question 5: Short Notes on Unit III (2 out of 4)

*In question 1 the essay questions will be based on Unit I A and Short Notes will be based on Unit I:B

Recommended Reading:

- Abel, Elizabeth, et al. *The Voyage In: Fictions of Female Development*. University Press of New England.
- Abrams, M.H. *The Mirror and the Lamp: Romantic Theory and the Critical Tradition*. OUP, 1971.

Abrams, M.H. *Natural Supernaturalism: Tradition and Revolution in Romantic Literature*. W.W. Norton and Company, 2002.

- Adams, James Eli. A History of Victorian Literature. Wiley-Blackwell, 2009.
- Alexander, Michael. A History of English Literature. Palgrave Macmillan, 2013.

Appignanesi, Richard (ed.) Introducing Romanticism. Totem Books, 2000.

Armstrong, I., Victorian Poetry, Poetics and, Politics. London: Routledge, 1993.

Arnold, Matthew. Culture and Anarchy. Oxford University Press, 2006.

Austen, Jane. Emma. W. W. Norton & Company, 2000.

Baker, William. Jane Austen: A Literary Reference to Her Life and Work, 2008.

Basil Willey. Coleridge to Matthew Arnold Cambridge, Cambridge UP, 1980.

Beer, John. Wordsworth and his Human Heart, Macmillan Press Ltd., 1978.

Bloom, Harold. English Romantic Poetry. Chelsea House Publishers, 2004.

- Bloom, Harold. (ed.) *Romanticism and Consciousness: Essays in Criticism*. W.W. Norton & Co. 1970.
- Bloom, Harold. Charles Dickens's David Copperfield. Chelsea House Publishers, 1987.
- Boris Ford, (ed.) A Pelican Guide to English Literature from Blake To Byron, Vol.5, Penguin, 1982.
- ---. A Pelican Guide to English Literaturefrom Dickens to Hardy, Vol. 6, Penguin, 1982.
- Bottum, Joseph, "The Gentleman's True Name: David Copperfield and the Philosophy of Naming", *Nineteenth-Century Literature*, Vol. 49, No. 4, Mar., 1995, pp. 435-455.
- Bowra, Maurice C. The Romantic Imagination. Oxford University Press, 1961.
- Bristow, Joseph. *The Cambridge Companion to Victorian Poetry Cambridge*. Cambridge University Press, 2000.
- Buckley, Jerome H. "The Identity of David Copperfield." *Victorian Literature and Society:Essays Presented to Richard D. Altick*. Ed. James R. Kincaid and Albert J. Kuhn.Ohio State UP, 1984. 225-39.

- Butler, M. Romantics, Rebels and Reactionaries: English Literature and its Background, 1760-1830, Oxford: Oxford University Press, 1982.
- Burke, Edmund. A Philosophical Enquiry into the Origins of Our Ideas of the Sublime and the Beautiful., Oxford University Press, 2015.
- Burwick, Nancy Moore et al., *The Encyclopedia of Romantic Literature*, Wiley Blackwell, 2012.
- Bush, Douglas: Introduction, Tennyson: selected Poetry, New York, 1951.
- Butt, John. Wordsworth- Selected Poetry and Prose, OUP, 1964.
- Carlyle, Thomas. *Historical Essays*. Univ. of California Press. 2003.
- Chandler, James and Maureen N. Mclane. *The Cambridge Companion to British Romantic Poetry*. Cambridge University Press, 2008.
- Chevalier Tracy (ed). Encyclopedia of the Essay. Fitzroy Dearborn Publishers, 1997.
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University of Mumbai

Syllabus for T.Y.B.A. English

Semester: V & VI

Course: Core paper Course Title: 20th Century British Literature

(Choice Based Credit System with effect from the Academic Year 2018-19)

	Syllabus as per Choice Based Credit System		
i)	Name of the Program :	T.Y.B.A. English	
ii)	Course Code :	UAENG505&UAENG605	
iii)	Course Title :	20th Century British Literature	
iv)	Semester wise Course Contents:	Enclosed the copy of syllabus	
v)	References and Additional : References	Enclosed in the Syllabus	
vi)	Credit Structure : No. of Credits per Semester	04	
vii)	No. of lectures per Unit :	20	
viii)	No. of lectures per week :	04	
ix)	No. of Tutorials per week :		
2.	Scheme of Examination :	5 Questions of 20 marks each	
3.	Special notes , if any :	No	
4.	Eligibility , if any :	No	
5.	Fee Structure :	As per University Structure	
6.	Special Ordinances / : Resolutions if any	No	

Syllabus for TYBA

Course: 20th Century British Literature

Course Codes: UAENG505 & UAENG605

Objectives of the Course:

- To expose students to literary genres, trends, and literary movements of Britain in the 20th Century.
- To enable students to create linkages between social and historical contexts and literary texts.
- To train students to develop skills for a critical and analytical understanding of the text.

Outcome of the Course:

After completion of the course, students are expected to be able to:

- Students will be equipped with comprehensive understanding of literary genres, trends and movements in 20th Century British Literature; thereby ,enabling them to understand the valuable co –relation between the sociocultural ,economical and historical contexts; behind the literary production.
- 2) Students will acquire the discipline to become reflective and imaginative thinkers through a close, critical and analytical reading of the prescribed texts.

Semester V: 20th Century British Literature – I			
Course code- UAENG50	05 4 Credits	Total Lectures: 60	
 Unit 1: Background 1. Modernism 2. Imagism 3. Symbolism 4. War Poetry 5. Movement Poets 	Topics	20 Lectures	
6. Poetic Drama			
7. Social Realism and	l its impact on English D	rama	
8. The Theatre of the	Absurd		
Unit 2: Drama A. JOHN OSBORNE B. BERNARD SHAT	E: Look Back in Anger (1 OR W: Saint Joan (1923)	20 Lectures 1956)	
Unit 3:Poetry		20 Lectures	
1. T.S. ELIOT:	i) 'The Hippopota	mus'ii) 'Portrait of a Lady'	
2. W. B. YEATS:	i) 'The Second Coming'	ii) 'A Prayer for My Daughter'	

- 3. W.H. AUDEN : i) 'The Shield of Achilles' ii) 'In Memory of W.B. Yeats'
- 4. WILFRED OWEN : i) 'Insensibility' ii) 'Strange Meeting'

Semester VI: 20th Century British Literature – II				
Course code-	-UAENG605	4 Credits	Total Lectures: 60)
Unit 1: I	Background Top	Dics:		20 Lectures
1. Feminis	m in Modern Li	iterature		
2. Psycho	ological Novel			
3. The rise	e of Science Fic	tion		
4. Post Wo	orld War II Nov	el		
5. Political	l Satire/Allegory	y as rising literary tre	ends	
6. Imperia	lism and Post co	olonialism in Moder	n British Fiction	
7. Existent	ialism and Mod	dern British Literatur	re	
Unit 2: 1	Novel:			20 Lectures
A. GEOR	GE ORWELL:	1984 (1949)		
	OR			
B. IRIS M	URDOCH: The	e Black Prince (1973)	
Unit 3: S	Short stories :			20 Lectures
1) JAMES	S JOYCE: Evel	ine		
2) ROAL	D DAHL: Lam	b to the Slaughter		
<i>3)</i> GRAH	AM GREENE:	The Invisible Japane	ese Gentleman	
4) ANGE	LA CARTER:	The Courtship of Mr	: Lyon	
Semester En	d Examination	Pattern: 100 Marl	ks 03 Hours	
		0 100 1 11	11	• • • •

The Semester End Examination for 100marks will have 5 questions (with internal

choice) of 20 marks each

Question 1: A. Essay or Question 1: B. Essay or Question 1.C. Short Notes (two out of four) - Unit I

Q.2 Essay Type Question (1 out of 2) - Unit 2

Q.3 Essay Type Question (1 out of 2) - Unit 3

- Q.4 Short Notes (2 out of 4)- Unit 2
- Q.5 Short Notes (2 out of 4)- Unit 3

Recommended Reading:

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- https://www.askwillonline.com/2013/06/the-courtship-of-mr-lyon-by-angela.html
- https://the-artifice.com/angela-carter-beauty-and-the-beast-feminist-romance/
- http://sittingbee.com/the-invisible-japanese-gentlemen-graham-greene/
- http://britishliteratureoverview.blogspot.in/2008/09/invisible-japanese-gentlemen.html
- https://www.youtube.com/watch?v=K1sBQZfDh0I

- https://www.litcharts.com/lit/lamb-to-the-slaughter/summary-and-analysis
- https://www.cliffsnotes.com/literature/d/dubliners/summary-andanalysis/eveline
- https://interestingliterature.com/2017/07/18/a-summary-and-analysis-ofjames-joyces-eveline/
- http://www.newworldencyclopedia.org/entry/Iris_Murdoch

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University of Mumbai Syllabus for T.Y.B.A. English

Semester: V & VI

Course: Elective Paper

Course Title: Literature and Gender

(Choice Based Credit System with effect from the Academic Year 2018-19)

1.		Syllabus as per Choice Based Credit System		
	i)	Name of the Program	T.Y.B.A. English	
	ii)	Course Code	UAENG506A& UAENG606A	
	iii)	Course Title	Literature and Gender	
	iv)	Semester wise Course Contents	Enclosed the copy of syllabus	
	v)	References and Additional References	Enclosed in the Syllabus	
	vi)	Credit Structure :		
		No. of Credits per Semester	04	
	vii)	No. of lectures per Unit	15	
	viii)	No. of lectures per week	03	
	ix)	No. of Tutorials per week		
2.		Scheme of Examination	4 Questions of 20 marks each and a project of 20 marks	
3.		Special notes, if any	No	
4.		Eligibility , if any	No	
5.		Fee Structure	As per University Structure	
6.		Special Ordinances / Resolutions if any	No	
l				

Syllabus for TYBA Course: Literature and Gender Course Codes: UAENG506A& UAENG606A

Objectives of the Course:

- 1) To introduce students to the politics of gender identity
- 2) To enable students to analyze gender
- 3) To empower students to scrutinize gendering in literature
- 4) To appreciate popular culture and diverse gender and sexual identities
- 5) To discern masculinities and femininities

Outcome of the Course:

After completion of the course, students are expected to be able to:

- 1) Understand politics of gender identities
- 2) Undertake gender analysis
- 3) Understand the gendering in literature
- 4) Appreciate popular culture and gender identities
- 5) Interpret masculinities and femininities

Semester V: Gender and LiteratureCourse code- UAENG506A04CreditsTotal Lectures: 45

Unit I:

Schools of Feminism: Liberal and Marxist Feminism

Concepts: Patriarchy, Masculinity Studies, Sex and Gender, The Politics of Feminism(s), Gynocriticism, Indian Feminism

Unit II: Short-Stories

Anne Petry: *Like a Winding Sheet* Katherine Mansfield: *The Fly* Dorothy Parker: *The Waltz* Anita Desai: *The Domestic Maid* Nathaniel Hawthorne: *The Birthmark* Vishwapriya Iyengar : *The Library Girl*

Unit III: Novel

Khaled Hosseini: A Thousand Splendid Suns

OR

Jeanette Winterson: Oranges are not the only Fruit

15 Lectures

15 Lectures

15 Lectures

Semester End Assessment:	80 marks
Q 1. (a) Essay type question on School of Feminism	20 marks
OR	
(b) Essay type question on School of Feminism	
OR	
(c) Short notes on Unit I: Concepts (Two out of Four)	
Q 2. Essay type question on Unit II (One out of two)	20 marks
Q 3. Essay type question on Unit III (One out of two)	20 marks
Q 4 (a) Short notes from Unit II (One out of Two)	10 marks
(b) Short notes from Unit III (One out of Two)	10 marks

Internal Assessment (Project):

A project of 20 marks/semester to be undertaken by the students with particular focus on the schools of feminism studied in that particular semester. Students to analyse a novel of their choice (not prescribed in the syllabus) through the lens of Liberal/Marxist Feminism in Semester V and Socialist/Radical Feminism in Semester VI

Semester VI: Gender and Literatur	re	
Course Code- UAENG606A	04 Credits	Total Lectures: 45

Unit I:

15 Lectures

Schools of Feminism: Socialist and Radical Feminism

Concepts: Ecofeminism, Queer Theory, Postcolonial Feminism, Psychoanalytic Feminism, Postmodern Feminism

Unit II: Poetry

Carol Ann Duffy: *Little Red Cap* Imtiaz Dharker : *Purdah I* Walt Whitman: *We Two, How Long We were Fool'd*

15 Lectures

20 marks

Amrita Pritam : *I will Meet You Again* Audre Lorde: *Coal* Langston Hughes : *Young Sailor*

Café: 3 am

Unit III: Drama

Mahesh Dattani: Tara

OR

Lorraine Hansberry: A Raisin in the Sun

Evaluation Pattern:1) Semester End Examination: 80 Marks – 3Hours 2) Project: 20 Marks

The Semester End Examination for 80 marks will have 4 questions of 20 marks each.

Q 1. (a) Essay type question on School of Feminism	20 marks
OR	
(b) Essay type question on School of Feminism	
OR	
(c) Short notes on Unit I: Concepts (Two out of Four)	
Q 2. Essay type question on Unit II (One out of two)	20 marks
Q 3. Essay type question on Unit III (One out of two)	20 marks
Q 4 (a) Short notes from Unit II (One out of Two)	10 marks
(b) Short notes from Unit III (One out of Two)	10 marks

Internal Assessment (Projest): 20 marks

A project of 20 marks/semester to be undertaken by the students with particular focus on the schools of feminism studied in that particular semester. Students to analyze a novel of their choice (not prescribed in the syllabus) through the lens of Socialist/Radical Feminism in Semester VI.

15 Lectures

References:

- 1. Singh Navsharan and Maitrayee Mukhopadhyay. 2007. Gender Justice, CitizenshipDevelopment. Zubaan.
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- 4. Tsikata Dzodzi and Pamela Golah. 2010. Land Tenure, Gender, and Globalisation. New
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- Reina Lewis, Sara Mills (Ed.), Feminist Postcolonial Theory A Reader Edinburgh University Press, Edinburgh, 2003.
- Hasan Zoya (ed) 1994) Forging Identities: Gender Communities and State, New Delhi, Kali for Women. KapurRatna (ed) (1996) Feminist Terrains in Legal Domains, New Delhi, Kali for Women.
- 9. Hasan Zoya (ed) 1994) Forging Identities: Gender Communities and State, New Delhi, Kali for Women.
- 10. Kapur Ratna (ed) (1996) Feminist Terrains in Legal Domains, New Delhi, Kali for Women.
- 11. Menon, Nivedita (2004), Recovering Subversion: Feminist Politics Beyond the Law, New Delhi, Permanent Black.
- 12. Sangari K. Politics of Diversity: Religious Communities and Multiple Patriarchies, EPW 23 Dec, 1995
- 13. Bassnett, Susan. Translation Studies. London: Methuen, 1980.
- 14. Venuti, Lawrence, ed. The Translation Studies Reader. London: Routledge, 2000.
- 15. Baker, Mona, ed. The Routledge Encyclopedia of Translation Studies. London: Routledge, 1998.
- 16. Trivedi, Harish Susan Bassnet. Postcolonial Translation: Theory and Practice. London: Routledge, 1999.
- 17. Gentzler, Edwin. Contemporary Translation Theories. London: Routledge, 1993.

Syllabus Prepared by:

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University of Mumbai

Syllabus for T.Y.B.A. English

Semester: V & VI

Course: Elective Course

Course Title: Drama and Theatre

(Choice Based Credit System with effect from the Academic Year 2018-19)

1.		Syllabus as per Choice Based Credit System		
	i)	Name of the Program :	T.Y.B.A. English	
	ii)	Course Code :	UAENG506B & UAENG606B	
	iii)	Course Title :	Drama and Theatre	
	iv)	Semester wise Course Contents:	Enclosed the copy of syllabus	
	v)	References and Additional : References	Enclosed in the Syllabus	
	vi)	Credit Structure : No. of Credits per Semester	04	
	vii)	No. of lectures per Unit :	15	
	viii)	No. of lectures per week :	03	
	ix)	No. of Tutorials per week :		
2.		Scheme of Examination :	4 Questions of 20 marks each a Project of 20 marks	
3.		Special notes , if any :	No	
4.		Eligibility , if any :	No	
5.		Fee Structure :	As per University Structure	
6.		Special Ordinances / : Resolutions if any	No	

Syllabus for TYBA Course: Drama and Theatre Course Codes: UAENG506B & UAENG606B

Objectives of the Course:

- 1) To acquaint the learners of literature with various types of drama.
- 2) To sensitize them to the techniques and types of theatre.
- 3) To identify and discuss the theoretical and practical elements of drama.
- 4) To introduce them to drama as a performing art.
- 5) To enhance their understanding of the elements of theatre.
- 6) To enable the learners to critically watch a play, write a review and to put up a play.

Outcome of the Course:

After completion of the course, students are expected to be able to:

- 1) Analyse the social and artistic movements that have shaped theatre and drama.
- 2) Apply discipline-specific skills to the creation of drama.
- 3) Analyze the difference between the concepts of drama and theatre.
- 4) Demonstrate knowledge of the history of drama and theatre as a literature and performing art.

Semester V: Drama and Theatre				
Course code- UAENG506B	4 Credits	Total Lectures: 45		
Unit 1: Literary Terms i) Sanskrit Theatre ii) Greek Tragedy iii) Senecan Tragedy iv) Indian English Drama in Translation v) Structure of Elizabethan Theatre vi) Poetic Drama			(15 Lectures)	
Unit 2:A) Tendulkar Vijay: <i>The Vultures</i> OR B) AdyaRangacharya: <i>Sanjivani</i>			(15 Lectures)	
Unit 3: A) Aeschylus: <i>Prometheus</i> OR B) Eliot T.S.: <i>The Cocktail</i>	Bound Party		(15 Lectures)	

Semester VI: Drama and Theatre				
Course code- UAENG606B	4 Credits	Total Lectures: 45		
Unit 1: Literary Terms			(15 Lectures)	
i) Problem Play				
ii) Expressionism				
iii) Theatre of the Absurd				
iv) Angry Young Men Theatre				
v) Make-up and Costume				
vi) One Act Play				
Unit 2:A) O'Neill Eugene: <i>Desire under the</i> Elms OR			(15 Lectures)	
B) Ibsen Henrik: An Enemy of the	he People			
Unit 3:A) Albee Edward: <i>The Zoo</i> Stor OR		(15 Lectures)		
B) Chekhov Anton: <i>The Propos</i>	al			

Semester End Examination Pattern: 80 Marks 2 1/2 Hours

Semester End Examination Pattern:

Q.1 A. Essay type Or B. Essay type Or C. Short Notes (2 out of 4) - Unit 1 (20 Marks)

Q.2 Essay Type Question (1 out of 2) - Unit 2 (20 Marks)

Q.3 Essay Type Question (1 out of 2) - Unit 3 (20 Marks)

Q.4 Short Notes (2 out of 4) - 02 each on Unit 2 and 3 (15 Marks)

Project 20 Marks:

Writing new/original one act play. Transcreation: A short story to be adopted as a one act play.

Translation of any one act play in Indian Language into English. Group performance of any one act play.

Recommended Reading:

AllardyceNicoll. A History of English Drama 3 Vol. Set. Cambridge: 1946.

Bentley, Eric. *The Theory of the Modern Stage: An Introduction to Theatre and Drama.* London: Penguin Books, 1968.

Beth Osnes. Santa Barbara(ed.) *Acting: an International Encyclopedia*. California; Denver Colorado : ABC-CLIO, c2001. Main Stack PN 2035 .084 2001

Bratton, J. S. *New Readings in Theatre History: Theatre and Performance Theory*. Cambridge: Cambridge University Press, 2003.

Brockett, Oscar. The Essential Theatre: New York: Wadsworth Publishing, 2007.

Brustein, Robert. *The Theatre of Revolt: An Approach to Modern Drama.* New York: Atlantic Monthly Press, 1965.

Clark, Darect H. A Study of Modern Drama. Philadelphia: Century Books-Bindery, 1982.

Frank, Marcie. *Gender, Theatre, and the Origins of Criticism: From Dryden to Manley.* Cambridge: Cambridge University Press, 2003.

Fuchs, Elinor, and Una Chaudhuri. *Land/Scape/Theater: Theater-Theory/Text/Performance*: Ann Arbor: University of Michigan Press, 2002.

Gascoigne, Bamber. Twentieth Century Drama: London: Hutchinson, 1967.

Gassner, John. *Masters of Drama*. New York: Dover Publications, 1954.

Jonathan Law, etc. Rev. and enlarged (ed.). *The new Penguin Dictionary of the theatre*. London: Penguin Books, 2001. Doe Reference PN 2035 .N474 2001

Kobialka, Michal. *Of Borders and Thresholds: Theatre History, Practice, and Theory.* Minneapolis: University of Minnesota Press, 1999.

Lumley, Fredrick. *New Trends in the Twentieth Century Drama: A Survey since Ibsen and Shaw*. Oxford: O.U.P, 1972.

Malekin, Peter, and Ralph Yarrow. Consciousness, *Literature, and Theatre: Theory and Beyond*. New York: St. Martin's, 1997.

Martin Harrison. The Language of Theatre. New York: Routledge, 1998. Main Stack PN 2035 .H297 1998

McAuley, Gay. Space in Performance: Making Meaning in the Theatre. Theater-Theory/Text/Performance: Ann Arbor: University of Michigan Press, 1999.

Michael Patterson. *The Oxford Dictionary of Plays*. Oxford; New York: Oxford University Press, c2005.

Nicoll, Allardyce. The Theatre and Dramatic Theory: London: Harrap, 1962.

Oscar Lee Brownstein and Darlene M. Daubert. *Analytical sourcebook of concepts in dramatic theory*. Westport, Conn.: Greenwood Press, 1981. Doe Reference PN 1631.B7

Rai, Rama Nand. *Theory of Drama: A Comparative Study of Aristotle and Bharata*: New Delhi: Classical Pub. Co. 1992.

Rangacharya, Adya. Introduction to Bharata's Natyasastra. Delhi: Munshirm Manoharlal Pub, Reprint 2005.

Styan, J. L. *Modern Drama in Theory and Practice*. New York: Cambridge University Press, 1980.

Taylor, Russell John: *Anger and After: Guide to the New British Drama.* London: Eyre Methune, 1977.

Williams, Raymond .Drama from Ibsen to Brecht .London: Penguin Books, 1973.

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University of Mumbai

Syllabus for T.Y.B.A. English

Semester: V & VI

Course: Elective Paper

Course Title: Film and Literature

(Choice Based Credit System with effect from the Academic Year 2018-19)

1.		Syllabus as per Choice Based Credit System		
	i)	Name of the Program :	T.Y.B.A. English	
	ii)	Course Code :	UAENG506C & UAENG606C	
	iii)	Course Title :	Film and Literature	
	iv)	Semester wise Course Contents :	Enclosed the copy of syllabus	
	v)	References and Additional : References	Enclosed in the Syllabus	
	vi)	Credit Structure : No. of Credits per Semester	04	
	vii)	No. of lectures per Unit :	15	
	viii)	No. of lectures per week :	03	
	ix)	No. of Tutorials per week :		
2.		Scheme of Examination :	4 Questions of 20 marks each and a Project of 20 marks	
3.		Special notes, if any :	No	
4.		Eligibility, if any :	No	
5.		Fee Structure :	As per University Structure	
6.		Special Ordinances / : Resolutions if any	No	

Syllabus for TYBA

Course: Film and Literature **Course Codes:** UAENG506C & UAENG606C

Objectives of the Course:

- ✤ To introduce the nature of film as an 'art' form.
- ✤ To explore how film as art and literature influence each other.
- ✤ To expand analytical skill towards film adaptation.
- ✤ To appreciate and evaluate different perspectives on film adaptations.
- ✤ To create responses in thinking critically about films.

Outcome of the Course:

After completion of the course, students are expected to be able to:

- ✤ To understand the nature of film as an 'art' form.
- ✤ To explore ways in which film as art and literature influence each other.
- To expand existing textual analytical skill towards an understanding of film adaptation.
- ✤ To understand different perspectives on film adaptations.
- To aid students to think critically and articulate in writing responses about films.
| mester V
ourse cod | e- UAENG506C | 4 Credits | Total Lectures: 4 |
|-----------------------|----------------------------|----------------------|--------------------------|
| Unit 1 | Image and Art | | 15 Lecture |
| • | Early Theories of Film. | | |
| ٠ | Cinema's evolution as a di | istinct art form. | |
| Unit 2 | Evolving technological i | nnovations in cine | ema and 15 Lecture |
| | directorial interventions | | |
| ٠ | Movement -Lumiere Broth | hers | |
| • | Cinematic effects - Georg | ges Méliès | |
| • | Editing -Edwin Porter and | l Sergei Eisenstein | |
| • | Cinematography and narra | ative – D.W. Griffi | th and Orson |
| Unit 3 | Film and ideology | | 15 Lecture |
| • | Defining ideology in fi | ilm | |
| • | Disrupting hegemony of | of western models of | of performance and |
| | cultural dominance in Sha | ikespearean adaptat | tions. |
| | Recommended Films: Om | nkara (2006), Haide | er (2014) Director: Vish |
| | Bharadwaj adapted from V | William Shakespear | re's Othello and Hamlet |
| Topics | for Project: | | |
| • | Application of Film Terms | s as Point of View, | Mise-en-Scene |
| • | Editing, Narrative in Film | L | |
| • | Researching on movies | | |
| • | Writing a screening report | t | |
| • | Writing a movie review | | |
| • | Comparing the earlier and | later versions of th | ne same movie |

Semester VI: Film and Literature-II			
Course code- UA	AENG606C	4 Credits	Total Lectures: 45
Unit 1	Critical Approache	s toward Films Anal	ysis 15 Lectures
• Gen	der-based Approach		
• Mar	xist Approach		
• Psyc	Psychoanalytical Approach		
• Post	-Colonial Approach		
Recommer	ded Films: Mirch M	asala (1987) Directo	r: Ketan Mehta,
Metropolis	Metropolis (1927) Director: Fritz Lang		
Vertigo (19	Vertigo (1958) Director: Alfred Hitchcock		
Satya (199	Satya (1998) Director: Ram Gopal Varma		
Chungking	Chungking Express (1994) Director: Wong Kar Wai		
In the Moo	d for Love (2000) D	irector: Wong Kar W	ai
Unit 2	Adaptations: Defini	itions and Approach	es 15 Lectures
Defining th and radical	e concept of adaptat translations of the s	ions and understandin	ng literal, traditional,

Recommended Film: Adaptation (2002). Director Spike Jonze

15 Lectures

Unit 3	Novel to Film	
•	Passage to India. E.M. Forster (1924)	

Film: *Passage to India* (1984) dir. David Lean **OR**

• *The Hours*. Michael Cunningham (1998) Film: The Hours (2002) dir. Stephen Daldry

Topics for Project:

Writing a report on inter-genre adaptations
Observations on Cinema and digital culture
Transitions in adaptations of literary sources as narratives
Reviews on adaptations of identity and history
Recommended Novel and Film: *Watchmen* (1987) Alan Moore and Dave
Gibbons *Watchmen* (2009) Director: Zack Snyder

Evaluation Pattern:1) Semester End Examination: 80 Marks – 2 ½ Hours

2) Project: 20 Marks

The Semester End Examination for 80 marks will have 4 questions (with internal choice) of 20 marks each:

Question 1: A. Essay or Question 1: B. Essay or Question 1.C. Short Notes (two out of four) - Unit I Q.2 Essay Type Question (1 out of 2) - Unit 2 Q.3 Essay Type Question (1 out of 2) - Unit 3 Q.4 Short Notes (2 out of 4)- Unit 2 & Unit 3

Recommended Reading:

- Austerlitz, Saul. *Black and White*. Reverse Shot Online. n.d. Web. 22 Sept 2009.
- Bharucha, Rustom. "Foriegn Asia/ Foriegn Shakespeare. Dissenting notes on New Asian Interculturality, Postcoloniality and Recolonization". *Theatre Journal*, vol 56, issue 1, 2004, pp1-28.
- Burke, Liam. *The Comic Book Film Adaptation:* Exploring Modern Hollywood's Leading Genre, Univ. Press of Mississippi, 2015

- Cahir, L. *Literature into film: Theory and practical approaches*. Jefferson, N.C.: McFarland& Company, 2006.
- Corrigan, Timothy. *A Short Guide to writing About Film*, Pearson Education Inc. 2007
- Elliot, Kamila. "Literary Cinema and the Form/Content Debate" *Rethinking the Novel / Film Debate*Cambridge University Press, 2003, pp.133-183.
- Giannetti, Louis. Understanding Movies (11th edition), Prentice Hall, 2008.
- Grant, Barry Keith. *Auteurs and authorship: a film reader*, Blackwell Publications 2008
- Hess, John. "Film and Ideology". Jump Cut, no. 17, April 1978, pp. 14-16.
- Hutcheon, Linda. "In Defence of Literary Adaptation as Cultural Production." M/C Journal, vol.10, issue 2, 2007. Web article
- Jeong, Seung-hoon. *Cinematic Interfaces: Film Theory After New Media*, Routledge, 2013.
- Keane, Stephen. *CineTech: Film, Convergence and New Media*, Macmillan Education, 2006.
- Khan, Maryam Wasif (2016-06-22). "Enlightenment Orientalism to Modernist Orientalism: The Archive of Forster's A Passage to India". *MFS Modern Fiction Studies*. 62 (2): 217–235.
- McDonald, Kevin. Film Theory: The Basics, Routledge, 2016.
- Monaco, James. *How to read a film: Movies, Media and Beyond*. Oxford University Press. (2004)
- Leitch, Thomas. "Adaptation studies at a crossroads". *Adaptation* vol. 1, issue 1, pp 63-77.
- "Twelve Fallacies in Contemporary Adaptation Theory". *Criticism* vol. 45, issue 2, (2003): 149-171

- Said, Edward *Culture and Imperialism* (1st Vintage books ed.). New York: Vintage Books, 1994
- Stam, Robert "The Theory and Practice of Adaptation." *Literature and Film: A Guide to the Theory and practice of Film Adaptation*. Oxford Blackwell, 2005, pp 1-30.
- Suleri., Goodyear, Sara (1992). *The Rhetoric of English India*. Chicago: University of Chicago Press. pp. 132–135.
- Žižek, Slavoj. The Fright of Real Tears: Krzysztof Kieślowski Between Theory and Post-Theory. 2001

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Prof. Michelle Philips, Wilson College, Mumbai
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Syllabus for T.Y.B.A. English Semester: V & VI

Course: Optional Paper

Course Title: Literature of Protest

(Choice Based Credit System with effect from the Academic Year 2018-19)

1.		Syllabus as per Choice Based Credit System	
	i)	Name of the Program :	T.Y.B.A. English
	ii)	Course Code :	UAENG506D& UAENG606D
	iii)	Course Title :	Literature of Protest
	iv)	Semester wise Course Contents:	Enclosed the copy of syllabus
	v)	References and Additional : References	Enclosed in the Syllabus
	vi)	Credit Structure : No. of Credits per Semester	04
	vii)	No. of lectures per Unit :	15
	viii)	No. of lectures per week :	03
	ix)	No. of Tutorials per week :	
2.		Scheme of Examination :	4 Questions of 20 marks each, and a Project of 20 marks
3.		Special notes , if any :	No
4.		Eligibility , if any :	No
5.		Fee Structure :	As per University Structure
6.		Special Ordinances / : Resolutions if any	No

Syllabus for TYBA

Course: Literature of Protest

Course Codes: UAENG506D& UAENG606D

Objectives of the Course:

- 1. To explore voices of discord, rhetoric and cultural contexts.
- 2. To compare and contrast the artistic manoeuvres.
- 3. To examine the protest spectrum in literature.
- 4. To bring in panoramic understanding of global protest literature and ideologies.
- 5. To learn the historical links between forms of protest and meanings of literature

Outcome of the Course: After completion of the course, students are expected to be

able to:

- 1. Read and interpret cross cultural texts.
- 2. Understand protest literature.
- 3. Get sensitized towards global issues.
- 4. Learn to look into past, correlate it to present and future.
- 5. Understand the historicity of protest literature.

Semester V: Literature of Protest– I			
Course code- UAENG506D	04 Credits	Total Lectures: 45	

Unit 1: Background Topics:

- 1. Literature and Protest
- 2. Politics and Language of Protest
- 3. Translation and Literature of Protest
- 4. Concept of Caste, Varna Theory and Division of Labor
- 5. Concept of Race and Discrimination
- 6. Protest in African American, Dalit and Tribal Literature

15 Lectures

Unit 2: Autobiography:

I Want to Destroy Myself: A Memoir- Mallika Amar Shaikh Translated by Jerry Pinto Or Dreams from My Father- Barack Obama

Unit 3: Short Story

15 Lectures

15 Lectures

- 1. Death of a Rich Man
- 2. When the Sun God Refused to Set
- 3. Loneliness of An Ex-soldier
- 4. Confessions of a Graveyard Keeper

(The stories are from *Desperate Men and Women: Ten Dalits Short Stories from India,* edited by Rangrao, B., Kalpaz Publications, 2013)

Semester End Examination Pattern: 80 Marks 3 Hours		
Q 1. (a) Short notes on Unit I: Concepts (Two out of Four)	20	
Q 2. (a) Essay type question on Unit II(One out of Two)	20	
Q 3. (a) Essay type question on Unit III (One out of Two)	20	
Q 4. (a) Short notes on Unit II (One out of Two)	10	
(b) Short notes on Unit III (One out of Two)	10	

Internal Assessment: 20 marks

A project of 20 marks/semester (1500-2000 words) to be undertaken by the students with particular focus on the protest literature in the writings such as Aboriginal literature, Dalit literature, Tribal Literature, African American literature. Students to analyse an autobiography or 5 short stories of their choice (not prescribed in the syllabus) through the lens of protest in Semester V)

Course code- UAENG606D	03 Credits	Total Lectures: 45
Unit I: Protest in Contemporary Regional Writings:		15 Lectures
1. Marathi Literature		
2. Tamil Literature		
3. Gujrati Literature		
4. Kannada Literature		
5. Hindi Literature		
6. Bengali Literature		
Unit 2: Novel:		15 Lectures
Uncle Tom's Cabin- Harriet Beeche	r Stowe	
Or		
My Father Baliah- Y.B.Satyanaraya	na	
Unit 3: Poetry		15 Lectures

Kamala Das: 1. The Looking Glass 2. Forest Fire

Semester VI: Literature of Protest – II

Meena Kandasamy: 1. Advaita: The Ultimate Question, 2. The Gods Wake Up

Jyoti Lanjewar: 1. The Nameless Ones (anamikas), 2. Caves,

Semester End Examination Pattern: 80 Marks 3 Hours

Q 1. (a) Short notes on Unit I: Concepts (Two out of Four)	20
Q 2. (a) Essay type question on Unit II (One out of Two)	20
Q 3. (a) Essay type question on Unit III (One out of Two)	20
Q 4. (a) Short notes on Unit II (One out of Two)	10
(b) Short notes on Unit III (One out of Two)	10

Internal Assessment: 20 marks

A project of 20 marks/semester (1500-2000 words) to be undertaken by the students with particular focus on the protest literature in the writings such as Aboriginal literature, Dalit literature, Tribal Literature, African American literature. Students to analyse a novel or 5 poems of their choice (not prescribed in the syllabus) through the lens of protest in Semester VI)

Recommended Reading:

Ambedkar B. R., 1978, *Dr. Babasaheb Ambedkar's Writings and Speeches*, vol 1, Education Department, Government of Maharashtra, Bombay

Lohia, Rammanohar, 1964, *The Caste System*, Rammanohar Lohia Samta Vidyalaya Nyas, Hyderabad.

Dangle, Arjun. Poisoned Bread: Translations from Modern Marathi Dalit Literature. Orient Longman, 1992 –

Faye, Harrison. The Persistent Power of "Race" in the Cultural and Political Economy of Racism. *Annual Review of Anthropology* 24:47-74.

Nath, J.P., 2002, Socialist Leadership in India, Kanishka Publishers, New Delhi

Sharan Kumar Limbale and Jaydeep Sarangi, 2018. Dalit Voice: Literature and Revolt. Authors Press, New Delhi

Zoe, Trodd. American Protest Literature.2008. Belknap Press of Harvard University Press.

Drake, Kimberly. Literature of Protest.2013.Salem Press.

Patricia D. Netzley 1999, Social Protest Literature: An Encyclopedia of Works, Characters, Authors, and Themes. ABC-CLIO Literary Companion

Faye, Harrison.2008. *Outsider Within: Reworking Anthropology in the Global Age.* Urbana: University of Illinois Press.

Guru, Gopal, 2008. Humiliation: Claims and Context. Oxford University Press Delhi.

Hilliard, Nunn, 1998. Representing African Women in Movies in J. D. Hamlet (Ed.), *Afrocentric Visions: Studies in Culture and Communication*. Sage Publications. USA.

Bhowmik, Davinder & Steve Rabson. 2016. Islands of Protest: Japanese Literature from Okinawa

University of Hawai Press.

Reed, T.V. "Introduction" and "Reflections on the Cultural Study of Social Movements." in *The Art of Protest: Culture and Activism from the Civil Rights Movement to the Streets of Seattle.* Minneapolis: University of Minnesota Press, 2005

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4	Dr. Sudhir Nikam	B.N.N. College, Bhiwandi	Member
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7	Dr. Deepa Mishra	Smt. C.H.M College, Ulhasnagar	Member
8	Dr. Rajesh Mali	Arts, Commerce and Science College, Lanja	Member
9	Dr. Madhavi Nikam	Asst. Professor, Department of English,	Member
		R.K.T. College, Ulhasnagar	
10	Dr. B.N. Gaikwad	Asst. Professor & Head, Department of English,	Member
		Acharya Marathe College, Chembur, Mumbai	
11	Dr. R.M. Badode	Professor (Retd.) Department of English,	Spl. Invitee
		University of Mumbai, Mumbai	

Cover Page

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr.	Hooding	Particulars	
No.	incauling	1 al ticulai s	
1	Title of the	F.Y.B.A./F.Y.B.Sc – GEOGRAPHY	
1	Course	PAPER-I	
2	Eligibility for		
Z	Admission		
3	Passing	40	
3	Marks	40	
4	Ordinances /		
	Regulations (if any)		
5	No. of Years /	Som I & II	
5	Semesters	Schi - I & H	
6	Level	U.G	
7	Pattern	Semester	
8	Status	Revised	
9	To be implemented	From Academic Year 2020-2021	
	from Academic Year		



Signature

:

Date: 23/04/2020

Name of BOS Chairman / Dean :Dr. S. A Thakur

AC_23/07/2020 Item No. 4.62



University of Mumbai

Revised Syllabus w.e.f. Academic Year, 2020-21 (CBSGS) F.Y.B.A./F.Y.B.Sc. Geography, Semester – I, Paper – I Subject Title: Human Geography

UNIT-I Human Geography: An Introduction

- Human Geography Meaning, Definition, Nature, Scope
- Branches of Human Geography
- Different Approaches of Human Geography
- Man Environment relation, Determinism Possibilism, Probabilism

UNIT-II Population

- Trends and Patterns of World Population change
- Demographic Transition Model
- Population Density, its distribution and its growth
- Concept and Problems of Under-population, over-population and optimum population

UNIT-III Settlement

- Concept of Urban and Rural Settlements
- Types and Pattern of settlement
- Site and Situation
- Functional classification of Urban settlement

UNIT-IV Migration

- Concept and Types of Migration
- Causes of migration pull and push; Consequences/effects of migration
- Patterns and processes of migration
- Emerging trends of migrations or Issues of legal and illegal international migration Migrant refugee crisis

UNIT-V Practical

- Map Definition, Components, Type and Importance
- Map scale Definition, Verbal Scale and Graphical Scale
- Construction of Choropleth Maps, Isopleth, Dot and Flow Maps

• Construction of Population Pyramid

Bibliography

Johnson R. J. & Others (1983) : The Dictionary of Human Geography, Blackwell England

Singh, L. R. (2009): "Fundamentals of Human Geography", ShardaPustakBhavan, Allahabad

Hussain, M. (2011): "Human Geography", Rawat Publications, Jaipur Dikshit, R. D. (1997): "Geographical Thought: A Contextual History of Ideas", PHI Learning Private Limited, Delhi

Singh, R. Y. (2002): "Geography of Settlements", Rawat Publications, Jaipur

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Singh, L. R. (2009): "Fundamentals of Practical Geography", ShardaPustakBhavna, Allahabad

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University of Mumbai Revised Syllabus w. e. f. Academic year, 2020 - 21 (CBSGS)

F.Y.B.A. / F.Y.B.Sc. Semester - II Geography Paper - I,

Title -GEOGRAPHY OF ENVIRONMENT

UNIT - I: FUNDAMENTALS OF ENVIRONMENTAL GEOGRAPHY

- 1. Definition, Meaning of environment Environmental Geography: Concepts, Scope and Contents
- 2. Nature, scope and importance
- 3. Man's interaction with Environment
- 4. Relationship of Environmental geography with other sciences

UNIT - II: ECOSYSTEM STRUCTURE AND FUNCTIONS

- 1: Ecosystem meaning and definition and its Structure
- 2: Functions: Energy flow in ecosystem, food chains, food webs, food pyramid
- 3: Classification of Ecosystem detail study of Desert, Rainforest and fresh water lake ecosystem
- 4: Biogeochemical Cycles: Hydrological, Carbon and Nitrogen

UNIT - III: CONTEMPORARY ENVIRONMENTAL ISSUES

- 1: Pollution Air and Water Pollution causes, effects
- 2. Land and Noise Pollution causes, effects
- 3: Major environmental issues global warming, Ozone depletion and acid rain

4: Major Environmental Movements - Save Amazon forest or Green peace Movement, Chipko movement, Save Narmada,

UNIT - IV: NATURAL RESOURCES AND BIODIVERSITY

- 1: Natural resources meaning, definitions and importance
- 2. Types of natural resources:
- 3. Causes of depletion and methods/measures of natural resources conservation
- 4: Bio-diversity in India and its conservation

UNIT: V-MAP FILLING AND CONSTRUCTION OF CARTOGRAPH (PRACTICAL)

a) Map Filling - World

b) Interpretation or question answer on thematic maps drawn with techniques - Choropleth Maps, Isopleth, Dot Maps and Flow Maps

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0AC – Item No. – 8.3 (R)



UNIVERSITY OF MUMBAI



Syllabus for Approval

	Heading	Particulars
1	Title of the	S.Y.B.A. / S.Y.B. Sc. (Geography)
1	Course	
2	Eligibility for Admission	F.Y.B.A. / F.Y.B. Sc. (Geography)
3	Passing	40%
	Marks	
4	Ordinances / Regulations	
	(if any)	
5	No. of Years / Semesters	Sem-III &IV
6	Level	U.G.
Ŭ		
7	Pattern	Semester
8	Status	Revised
9	To be implemented from Academic Year	From Academic Year 2022-23

UNIVERSITY OF MUMBAI

Syllabus for S.Y.B.A / S.Y.B. Sc. Course Geography) (CBCS)

Revised Syllabus w.e.f. the academic year 2022-23

Paper – II Semester – III

Title: Geography of Maharashtra

Course code: UAGEO 301 Credits: 03

Course Objectives:

- 1. To acquaint student with the location, administrative and physical Environment of Maharashtra
- 2. To make them understand the spatial distribution of various physical conditions of Maharashtra
- 3. To assess various resources found in Maharashtra
- 4. To make them understand the problems and measures to develop agricultural, livestock and fisheries resources of Maharashtra.
- 5. To acquaint students with different cartographic skills such as map reading and map-filling.
- 6. To provide students an insight to the subject of Geography of Maharashtra from the viewpoint of competitive examination as well as its application in

daily life.

UNIT	TOPIC	NO.OF
Unit I	Maharashtra: Location, Physiography, Rives and Climate	9 Lectures
1.1	Introduction –Location and its significance	
1.2	Physiographic Divisions of Maharashtra	
1.3	Major Rivers basins of Maharashtra	
1.4	Maharashtra climate –seasons and monsoon distribution	
Unit II	Maharashtra: Soil, Forest, Minerals and Energy	9
	Resources	Lectures
2.1	Definition of soil-Importance of soil, types of soils, soil related issues and conservation measures.	
2.2	Definition of forest-Importance of Forest, types of forests, forest related issues and conservation of forest.	
2.3	Definition of Mineral- Types of Minerals, mineral related issues and its conservation	

2.4	Define energy resources, types of Energy resources,	
	problems related to energy resources. Need for	
	conservation of energy, measures of energy conservation.	
Unit II	Maharashtra: Agriculture, Livestock and Fishing	9 Lectures
3.1	Definition of Agriculture- Types of agriculture - major	
	agricultural regions-	
3.2	Problems associated with agriculture and solutions	
3.3	Definition of Livestock resources- Distribution of	
	livestock resources. Issues related with livestock resources	
	and solutions	
3.4	Define Fisheries – Types of fisheries - Fishing related issues and its conservation-	
Unit IV	Industrial Regions, Transportation and	9
	Communication sector	Lectures
4.1	Types and characteristics of Industries (Heavy industries,	
	sugar industry, textile industry and chemical industry)	
4.2	Factors of industrial location -Industrial regions of	
	Maharashtra	
4.3	Definition of Transport and Communication – Types of Transport – Network of Transport Development in	
	Maharashtra	
4.4	Issues related with industrial regions and transport development	
Unit V	Practical	9 Lectures
5.1	Map Filling of important geographical features on outline	
	map of Maharashtra related to units covered with units I to IV	
5.2	Construction of Map – Choropleth, Isopleth,	
	Dot map and Pictogram and Flow map related	
	to units covered with units I to IV	100 1
	Question paper pattern	100 marks
Q.1.	(Unit I) Attempt any two questions out of three.	20
Q.2.	(Unit II) Attempt any two questions out of three.	20
Q.3.	(Unit III) Attempt any two questions out of three.	20
Q.4.	(Unit IV) Attempt any two questions out of three.	20
Q.5.A.	(Unit V) Map filling – Maharashtra	10
Q.5.B.	(Unit V) Thematic map- construction	10

References:

01. Sharma, T.C.: (2013) Economic Geography of India, Rawat Publications.

02. Hussein Majid: (2017) Geography of India, McGraw Hill.

03. Oxford Student Atlas for India (2017), OxfordUniversity Press 04 Economic Geography – Johns 05 Environmental Geography – Savindra Singh

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12 Geography of Maharashtra – Jaymala Diddee,

म. Maharashtra : S.R. Jog, V.S. Kale

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UNIVERSITY OF MUMBAI

Syllabus for S.Y.B.A / S.Y.B. Sc. Course Geography) (CBCS)

Revised Syllabus w.e.f. the academic year 2022-23

S.Y.B.A. / S.Y.B.Sc. (Geography) Semester- III Paper-III

Title: Agricultural Geography

CO	URSE CODE: UAGEO 302 CREDI	ГS : 03		
Objecti	Objectives			
1. To ac	1. To acquaint students with the importance of agriculture in human civilization.			
2. To un	2. To understand the physical and human factors affecting agriculture.			
3. To kr	3. To know the types of agriculture and its spatial distribution pattern in the world.			
4. To stu	4. To study the issues related with agriculture and suggest remedial measures to			
over	come them.			
5. To de	velop and promote the cartographic skills such as map reading an	nd statistical		
techn	iques.			
	ntroduction to Agricultural Geography	Lectures(09)		
1.1	Definition, nature and scope of Agricultural Geography			
1.2	Origin of agriculture, major gene centers			
1.3	Diffusion and change in agriculture			
1.4	Agriculture and human civilizations in the world			
Unit-II	Determinants of Agriculture	Lectures(09)		
2.1	Physical and economic factors			
2.2	Socio-cultural and political factors, role of technology			
2.3	Critical appraisal of Agricultural land use model of Von			
	Thunen			
2.4	Measurement of agricultural productivity - Bhatia's			
	Agricultural Productivity Index			
Unit- Il	I Types of Agriculture and Distribution	Lectures (09)		
3.1	Types of primitive and subsistence agriculture			
3.2	Types of commercial agriculture,			
3.3	Distribution and trade of major food-grains.			
3.4	Modern trends in industrial crops: horticulture, floriculture,			
	sericulture, polyhouse etc.			
Unit-IV	Agricultural Problems and Sustainability of Agriculture	Lectures (09)		
4.1	Environmental, socio-cultural and economic problems related			
	with agriculture.			
4.2	Green revolution, Genetic modification of crops and its impact			

4.3	Agricultural policies and programmes	
4.4	Sustainable agricultural practices, importance of organic	
	Farming	
Unit-V	Practical	Lectures (09)
5.1	Map filling related to 1 to 4 units on agriculture in world	
5.2	Construction of statistical diagrams and graphs: line and bar graph, pie diagram, band graph representing agriculture information covering units 1 to 4.	
	Question paper pattern	100 marks
Q.1.	(Unit I) Attempt any two questions out of three.	20
Q.2.	(Unit II) Attempt any two questions out of three.	20
Q.3.	(Unit III) Attempt any two questions out of three.	20
Q.4.	(Unit IV) Attempt any two questions out of three.	20
Q.5. A.	(Unit V) Map reading – World Agriculture	10
Q.5. B.	(Unit V) Statistical Diagrams and Techniques	10

Reference books:-

- 1. Bansil, B. C. (1975): 'Agricultural Problems of India', Delhi.
- 2. Bayliss Smith, T.P. (1987) : The Ecology of Agricultural Systems. Cambridge University Press, London .
- 3. Berry, B.J.L. et. al.(1976) : The Geography of Economic Systems. Prentice Hall, New York.
- 4. Gregor, H.P.: Geography of Agriculture. Prentice Hall, New York, 1970.
- 5. Grigg, D. (1984): 'An Introduction to Agricultural Geography', Hutchinson Publication, London
- 6. Grigg, D.B.(1974) : The Agricultural Systems of the World. Cambridge University Press, New York.
- 7. Hartshorn, T.N. and Alexander, J.W. (1988): Economic Geography. Prentice Hall, New Delhi.
- 8. Morgan W.B. and Norton, R.J.C. (1971): Agricultural Geography. Mathuen, London,
- 9. Morgan, W. B. and Munton, R. J. C. (1977)

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10. Morgan, W.B.(1978): Agriculture in the Third World - A Spatial

Analysis. Westview Press, Boulde.

- 11. Sauer, C. O. (1952): 'Agricultural Origins and Dispersals', American Geographical Journal
- 12. Sauer, C.O.(1969): Agricultural Origins and Dispersals. M.I.T. Press, Mass, U.S.A.
- 13. Singh J.(1997): Agricultural Development in South Asia: A Comparative A Study in the Green Revolution Experiences, national Books Organization, New Delhi.
- 14. Singh, J. and Dhillon, S. S. (1984): 'Agricultural Geography', McGraw Hill, New Delhi.
- Singh, J. and Dhillon, S.S. (1988), "Agricultural Geography", 2nd edition, Tata McGraw-Hill, NewDelhi
- 16. Symons, L. (1972): 'Agricultural Geography', Bell and Sons, London
- 17. Tarrant, J.R.(1974): Agricultural Geography, Problems in Modern Geography Series, John Wiley and Sons.
- 18. Wigley, G.(1981), Tropical Agriculture: The Development of Production, 4th edition, Arnold, London

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UNIVERSITY OF MUMBAI

Syllabus for S.Y.B.A / S.Y.B. Sc. Course Geography) (CBCS)

Revised Syllabus w.e.f. the academic year 2022-23

Paper – II Semester – IV Title: Geography of India

Course code: UAGEO 401

Credits: 03

Course objectives:

- 1. To acquaint student with the location, administrative and physical environment of the country.
- 2. To understand the distribution of physical and man-made environment in India.
- 3. To analyze the relation between physical and man-made environment.
- 4. To understand the problems, create awareness and promote interest for conservation of environment.
- 5. To develop the cartographic skills such as map reading and filling.
- 6. To acquaint student with use of geographic skills and knowledge and prepare them for competitive examination as well as for its implementation in their daily life.

UNIT	ТОРІС	NO.
		OFLECTURE
Unit I	India: Location Physiography and Climate	D 9 Lectures
e int i	india. Docation, i nysiography and Chinace	> Lectures
1.1	Location and origin of Indian subcontinent	
1.2	Physiographic divisions of India	
1.3	Major River-basins of India	
1.4	Climate of India: Seasons and Origin and Pattern of Monsoon	
	distribution -	
Unit II	India: Soils, Vegetation and Minerals	9 Lectures
2.1	Soils - types and regional distribution	
2.2	Forest – types, regional distribution	
2.3	Minerals: types and distribution	
2.4	Issues related with soil, forest and mineral resources -	
	Conservation and management of soil, forest and mineral	
	resources	
Unit III	India: Agriculture, Livestock and Fishery resources	9 Lectures

3.1	Importance and characteristics of Indian agriculture	
3.2	Agriculture types and distribution of major crops-related issues-	
	policies and programmes	
3.3	Livestock resources : types and distribution, white revolution-	
	related issues-policies and programmes	
3.4	Fisheries – types and production, blue revolution- related issues-	
	policies and programmes	
Unit IV	India: Energy resources, Industries, Transport and Trade	9 Lectures
4.1	Energy resources : types and distribution- related issues-policies	
	and programmes	
4.2	Industries – types, location of major industrial regions- related	
	issues and solutions	
4.3	Transport and communication network-types and spatial	
	distribution- issues related and solutions	
4.4	Define trade- types of trade-Domestic and international trade	
	71	
Unit V	Practical	9 Lectures
Unit V 5.1	Practical Map filling (India) – features related to unit I to IV	9 Lectures
Unit V 5.1 5.2	Practical Map filling (India) – features related to unit I to IV Thematic map reading (India) – Choropleth, Isopleth, dot map and pictogram and flow map	9 Lectures
Unit V 5.1 5.2 Questio	Practical Map filling (India) – features related to unit I to IV Thematic map reading (India) – Choropleth, Isopleth, dot map and pictogram and flow map on paper pattern	9 Lectures 00 marks
Unit V 5.1 5.2 Questic	Practical Map filling (India) – features related to unit I to IV Thematic map reading (India) – Choropleth, Isopleth, dot map and pictogram and flow map on paper pattern	9 Lectures
Unit V 5.1 5.2 Questic Q.1.	Practical Map filling (India) – features related to unit I to IV Thematic map reading (India) – Choropleth, Isopleth, dot map and pictogram and flow map Image: the second se	9 Lectures 00 marks 20
Unit V 5.1 5.2 Questic Q.1. Q.2.	Practical Map filling (India) – features related to unit I to IV Thematic map reading (India) – Choropleth, Isopleth, dot map and pictogram and flow map Image:	9 Lectures 00 marks 20 20 20
Unit V 5.1 5.2 Questic Q.1. Q.2. Q.3.	Practical Map filling (India) – features related to unit I to IV Thematic map reading (India) – Choropleth, Isopleth, dot map and pictogram and flow map on paper pattern (Unit I) Attempt any two questions out of three. (Unit II) Attempt any two questions out of three. (Unit III) Attempt any two questions out of three.	9 Lectures 00 marks 20 20 20 20
Unit V 5.1 5.2 Questic Q.1. Q.2. Q.3. Q.4.	Practical Map filling (India) – features related to unit I to IV Thematic map reading (India) – Choropleth, Isopleth, dot map and pictogram and flow map on paper pattern (Unit I) Attempt any two questions out of three. (Unit II) Attempt any two questions out of three. (Unit III) Attempt any two questions out of three. (Unit IV) Attempt any two questions out of three.	9 Lectures 00 marks 20 20 20 20 20 20 20 20
Unit V 5.1 5.2 Questic Q.1. Q.2. Q.3. Q.4. Q.5. A.	Practical Map filling (India) – features related to unit I to IV Thematic map reading (India) – Choropleth, Isopleth, dot map and pictogram and flow map on paper pattern (Unit I) Attempt any two questions out of three. (Unit II) Attempt any two questions out of three. (Unit III) Attempt any two questions out of three. (Unit IV) Attempt any two questions out of three. (Unit IV) Attempt any two questions out of three. (Unit IV) Map filling – India	9 Lectures 9 Do marks 20 20 20 20 20 10

REFERENCES -

1 – Majid Husain – Geography of India

2 – Gopal Singh - – Geography of India

3 - Khullar D.R.- India – A Comprehensive Geography

4 - Singh R.L.- India – A Regional Geography

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UNIVERSITY OF MUMBAI

Syllabus for S.Y.B.A / S.Y.B. Sc. Course Geography) (CBCS)

Revised Syllabus w.e.f. the academic year 2022-23

Paper – III: Geography of Tourism

COURSE CODE: UAGEO-402,

Credit: 03

Course objectives:

- 1. To know the nature and scope of Tourism Geography
- 2. To recognize the significance, recent trends and factors of tourism.
- 3. To realize the role of infrastructure and travel agency in tourism development
- 4. To know the importance of planning and organization of tourism
- 5. To study the impacts of tourism and concept of sustainable tourism
- 6. To know the policies of tourism and places of tourist interest in India and Maharashtra
- 7. To be able to mark the precise locations of tourist centres on the map of India
- 8. To be able to read thematic maps of India to analyse tourism related information

UNIT – I: Introduction to Geography of Tourism		TOTAL NO OF LECTURES
1.1.	Tourism Geography: definition, nature and scope	<u>9</u>
1.2	Tourism: Concept, Significance and importance of	
	geography in tourism	
1.3	Types of Tourism- Recent trends in tourism	9
1.4	Factors influencing tourism development -Physical, economical and socio-Political	
UNIT -	- II: Tourism Infrastructure and Travel Agency	09
2.1	Tourist accommodation: Concept and Types	
2.2	Transport and tourism development – Road, Rail, Water	
	and Air Transport	
2.3	Tourism Organisations: U.N.W.T.O., TAAI, IATO	
	,I.T.D.C. and M.T.D.C	
2.4	Travel Agency: Features and Functions with reference to	
	documentation	
UNIT – III: Tourism Planning, Impacts and		00
	Sustainability	09
3.1	Tourism planning: Need, components and levels	

3.2	Impacts of tourism on economy, society, culture and environment	
3.3	Sustainable tourism: concept and practices	
3.4	Eco-tourism and responsible tourism: concepts and need	
UNIT – IV: Tourism in India with Special Reference to Maharashtra		09
4.1	Places of physiographic attractions in India and Maharashtra: Hill stations, valleys, wild life sanctuaries, islands, beaches etc	
4.2	Places of religious importance in India and Maharashtra	
4.3	Places of cultural importance in India and Maharashtra	
4.4	Recent tourism policy of India and Maharashtra	
UNIT – V: Map-Filling and Thematic Map Reading Practical)		09
5.1	Map-filling on India outline map with reference to tourism	
5.2	India thematic map-reading: located circles	
5.3	India thematic map-reading: located squares	
5.4	India thematic map-reading: located bars	

REFERENCES:

- 1. Bhatia, A. (2019): "Tourism Development: Principles and Practices", Sterling Publishers, New Delhi
 - 2. Bhatia, A. (2019): "International Tourism Management", Sterling Publishers, New Delhi
- 3. Roday, S., Biwal, A. and Joshi, V. (2018): "Tourism Operations and Management", OxfordUniversity Press, New Delhi
- 4. Swain, S. and Mishra, J. (2018): "Tourism Principles and Practices", Oxford UniversityPress, New Delhi
 - 5. Goeldner, C. and Ritche, J. (2016): "Tourism: Principles, Practices, Philosophies", Wiley
- 6. Nelson, V. (2014): "An Introduction to the Geography of Tourism", Rawat Publications, Jaipur
- 7. Lew, A., Hall. C. and Williams, A. (2004): "A Companion to Tourism", (ed.) Blackwell Publishing
 - 8. Gharpure, V. (2010): "Parytan Bhugol", (Marathi), Pimpalapure Publications, Nagpur

QUESTION PAPER PATTERN

Time: 3 Hours

Marks: 100

N.B. 1. All questions are compulsory and carry equal marks.

2. Use of Map Stencils is permitted.

3. Draw sketches and diagrams wherever necessary.

Q. 1. One Long-answer Question on

Unit – I of 20 Marks OR

One Long-answer Question on Unit – I of 20 Marks / Two Short-answer Questions on Unit – I of 10 Marks each

Q. 2. One Long-answer Question on Unit – II of 20 Marks

OR

One Long-answer Question on Unit – II of 20 Marks / Two Short-answer Questions on Unit –

I of 10 Marks each

Q. 3. One Long-answer Question on Unit – III of 20 Marks

OR

One Long-answer Question on Unit – III of 20 Marks / Two Short-answer Questions on Unit

I of 10 Marks eachQ. 4. One Long-answer Question on Unit – IV of 20 Marks

OR

One Long-answer Question on Unit – IV of 20 Marks / Two Short-answer Questions on Unit

- I of 10 Marks each

Q. 5 A) Map-Filling on India Outline Map with reference to Tourism – 10 marks

B) India Thematic Map Reading (Located Circles / Located Squares / Located Bars)

OR

B) India Thematic Map Reading (Located Circles / Located Squares / Located Bars)

(Both thematic maps will show different techniques.) -10 Marks

UNIVERSITY OF MUMBAI



SYLLABUS FOR THIRD YEAR BACHELOR OF ARTS AND

BACHELOR OF SCIENCE

Program: T.Y.B.A. and T.Y. B.Sc.

Course: Geography

Semester - V and VI at the T.Y.B.A. and T.Y. B.Sc.

Paper IV to IX

(Credit Based Semester and Grading System (CBSGS)with effect from the academic year 2018-19)

University of Mumbai Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS) T.Y.B.A. / T.Y.B.Sc. Geography, Semester – V, Paper – IV

Subject Title: GEOGRAPHY OF SETTLEMENTS

COURSE CODE: _____(2018-19), Credit: __04____

	UNIT – I: Introduction of Settlement Geography	No. of Lectures
1.1	Settlement geography: definitions, nature and scope	
1.2	Settlement types, their characteristics and differences	10
1.3	Factors influencing growth and distribution of settlements	12
1.4	Importance of settlement studies in geography	
	UNIT – II: Geography of Rural Settlements	
2.1	Origin and growth of settlements - evolution of rural settlements	
2.2	Site and situation of rural settlements	12
2.3	Classification of rural settlements on the basis of population and patterns	
2.4	Classification of rural settlements on the basis of spacing and functions	
	UNIT – III: Rural Settlements in India	
3.1	Distribution and density of rural settlements in India	
3.2	Structure of house and building materials in India	12
3.3	Regional variations in rural settlement patterns in India	
3.4	Morphology of rural settlement in India	
	UNIT – IV: Urban Settlements	
4.1	Origin and growth of urban settlements	
4.2	Classification of urban settlements on the basis of culture and functions	12
4.3	Hierarchy of urban Settlement: rank size rule and primate city	
4.4	Ashok Dutts's models of South Asian city: port city and bazaar city	
5.1	Urbanisation in India: Trends, patterns and types of towns	
5.2	Morphology of urban settlements in India (With reference to a port and inland	10
5.2	city)	12
5.3	Urban problems in Indian cities	
5.4	Smart city: Concept, need and implementation in India	

REFERENCES:

- Desphpande, C. D. (2005): "Cities: A Geographical Study", Translated by V. G. Amrite, Manan Prakashan, Mumbai
- Gharpure, V. (2013): "Nagari Bhugol", (Marathi) Pimpalapure and Company Publishers, Nagpur
- Gharpure, V. (2013): "Vasti Bhugol", (Marathi) Pimpalapure and Company Publishers, Nagpur
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- Ghosh. S. (2015): "Introduction to Settlement Geography", Orient Blackswan Private Limited, Hyderabad
- Jyptirmoy Sen (2007): A Text Book of Social and Cultural Geography," Kalyani Publsiher, New Delhi.
- Knowles, R and Wareing, J. (1996): "Economic and Social Geography", the Made Simple Series, Rupa & Co., Calcutta
- Leong, Goh-Cheng and Morgan, G. (1994): "Human and Economic Geography", Oxford University Press, Oxford
- Noble, A. (1998): "Using Descriptive Models to Understand South Asian Cities", *Education About Asia*, Vol. 3, No. 3, Downloaded from <u>http://aas2.asian-studies.org/EAA/EAA-Archives/3/3/205.pdf</u>
- Siddhartha, K and Mukherjee, S. (2016): "Cities, Urbanisation and Urban Systems (Settlement Geography)", KitabMahal, Allahabad
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- Tiwari, R. C. (2016): "Geography of India", Pravalika Publications, Allahabad
- Thakur S. A. and others "Settlement Geography"/ Vasti Bhugol- Konkan Geographers, Publication (2012)
- घारपुरे ळ ऱ (१९९९)ळस्ती भूगोऱ, पपलापुरे अँड कीं..,नागपरू
• शाळिंत एकाळ (१९९८) नागरी भूगोऱ , फ क्के एकाळ न, कोल्षापरू

• शब्दी ए,बी. (२०१०) नागरी भ**ूग**ोऱ, ननर**ाऱी एक**ाळ न, प**ुण**े

Time	: 3 hours		Marks; 100
N.B.	1. All questions are compulsory and carry	equal marks.	
	2. Use of Map Stencils is permitted.		
	3. Draw sketches and diagrams wherever	necessary.	
Q. 1	Long answer qu	lestion on Unit-I	20 Marks
		OR	
	Long answer question	on unit –I for 20 Marks	20 Marks
		or 1 10 M 1	
	Two short answer que	estions each 10 Marks	
Q. 2	Long answer qu	estion on Unit-II	20 Marks
		OR	
	Long answer question of	on unit –II for 20 Marks	20 Marks
	C	or	
	Two short answer que	estions each 10 Marks	
0.2	т		20 1 1
Q. 3	Long answer que	OP	20 Marks
	Laux another substitutes	UR unit III for 20 Marks	20 Maula
	Long answer question of	on unit –III for 20 Marks	20 Marks
	Two short answer que	estions each 10 Marks	
Q. 4	Long answer que	estion on Unit-IV	20 Marks
		OR	
	Long answer question o	on unit –IV for 20 Marks	20 Marks
	C	or	
	Two short answer que	estions each 10 Marks	
0.7	Ť		20.14
Q. 5	Long answer qu	estion on Unit-V	20 Marks
	T		
	Long answer question of	on unit $-V$ for 20 Marks	20 Marks
	Two short answer and	n estions each 10 Marks	

University of Mumbai Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS) T.Y.B.A. / T.Y.B.Sc. Geography, Semester – V Paper: V-A GEOGRAPHY OF MAHARASHTRA

COURSE CODE:_____, Credit: _04_____

	Unit-I : Maharashtra: Geographical Setting	TOTAL LECTURES
1.1	Location, extent and boundaries	
1.2	Administrative setup and divisions	10
1.3	Relief and climate	12
1.4	Drainage system	
	Unit-II : Natural Resources	
2.1	Soils	
2.2	Natural vegetation	12
2.3	Minerals	
2.4	Power resources	
	Unit-III : Human Resources	
3.1	Population growth	
3.2	Distribution –urban-rural and population density	12
3.3	Structure of population : Age-sex	
3.4	Occupational structure of population	
	Unit-IV : Agriculture, Fishing and Livestock Resources	
4.1	Salient features of agriculture	
4.2	Agricultural regions, recent issues and policies	12
4.3	Fisheries, recent issues and policies	
4.4	Livestock resources recent issues and policies	
	Unit-V: Industries, Trade and Transport	
5.1	Major industrial regions	
5.2	Role of transport in industrial development	12
5.3	Industrial issues and policies	
5.4	Trade and transport	

References:

- Jaymala Diddee, S.R. Jog, V.S. Kale Geography of Maharashtra
- Johns: Economic Geography -
- Khullar: Geography of India
- Majid Hussein: Geography of India
- Oxford: Oxford School atlas-
- Savinder Singh Environmental Geography
- Sharma: India's economic and commercial geography
- प्र**ा.शळ दी: मष**ाराएरभग**ो**ऱ
- देळ पाळिंडे एशएश: मषाराष्ट्राचे अथळास्र
- मषाराएराचाभगोऱ प्रा.शी.डीदळ पालिंडे
- मषाराष्ट्र- शळदीआ णके चे
- मष**ार**ाएर**ाच**ाभग**ो**ऱ ब**ी.अरूण**ाचरम
- मषाराष्ट्र 2006 शिंतोवदास्ताने
- जनगणनाऑटऱश मषाराष्ट्रशरकार
- मषाराष्ट्राचेनकाळे–डॉ.के.आ र द दस त
- मषाराष्ट्रातीरजरशिंपदा- प्रा. डॉ.एश.व्यी.ढमढेरे
- मषाराष्ट्रातीऱनद्या श्रीकािंततापीकर
- मषाराएराचाभगोऱ डॉ.शुरेळफु रुे

QUESTION PAPER PATTERN:

Time	: 3 hours		Marks; 100
N.B.	1. All questions are compulsory and carr	y equal marks.	
	2. Use of Map Stencils is permitted.		
	3. Draw sketches and diagrams wherever	r necessary.	
Q. 1	Long answer q	uestion on Unit-I	20 Marks
		OR	·
	Long answer question	on unit –I for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
Q. 2	Long answer qu	uestion on Unit-II	20 Marks
		OR	
	Long answer question	on unit –II for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
Q. 3	Long answer qu	iestion on Unit-III	20 Marks
	Long answer question	on unit –III for 20 Marks	20 Marks
	T 1.	or	
	Two short answer qu	lestions each 10 Marks	
Q. 4	Long answer qu	estion on Unit-IV	20 Marks
OR			
	Long answer question	on unit –IV for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
0.5	Long onewor a	iestion on Unit-V	20 Martes
<u>v</u> . <i>y</i>			20 IVIAINS
	Long answer question	on unit –V for 20 Marks	20 Marks
		or	20 Warks
	Two short answer au	testions each 10 Marks	
	_		

University of Mumbai Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS) T.Y.B.A. / T.Y.B.Sc. Geography, Semester – V, Paper : V-B

Subject Title: POPULATION GEOGRAPHY COURSE CODE: ______, Credit: 04______

UNIT- I, Introduction to Population Geography		TOTAL LECTURES
1.1	Concept, definition, nature, scope, importance	
1.2	Evolution and recent trends	
	Basic sources of population data and their important	12
1.3	elements	
1.4	Population geography and other social sciences	
UN	IT- II, Population Dynamics	
2.1	Population growth in the world (continent wise and level of	
2.1	development)	
2.2	Population growth in India	12
2.3	World : Population density and its determinants	
	Structure of population in developed and developing world (
2.4	Age and Sex, Rural and Urban)	
UNI	T-III, Theories of Population Growth	
3.1	Demographic Transition Model	
3.2	Malthu's Population Theory	12
3.3	Leibestein's motivational theory of population growth	
3.4	Theory of optimum population	
UN	NIT- IV, Migration	10
4.1	Definition and Classification of Migration	12

4.2	Causes and Consequences of Migration	
4.3 Recent trend of migration in India		
4.4	Issues of infiltration and its impacts in India	
UNIT- V, Contemporary Issues		
5.1	Ageing population	
5.2	Gender issues -declining sex ratio, literacy gap,	12
5.3	Poverty and unemployment in India	
5.4	Rapid urbanization in India	

Reference:

- Bhende A. and Kanitkar T.,(2000):*Principles of Population Studies*, Himalaya Publishing House
- ChandnaR.C.andSidhuM.S.,1980:*An Introduction to Population Geography*, Kalyani Publishers
- Chandna, R C (2006), Jansankhya Bhugol, Kalyani Publishers, Delhi
- Chandna, R C (2014),: Geography of Population: Concepts, Determinants and Patterns, Kalyani Publishers, Delhi
- Tiwari Ram Kumar (2015) Jansankhya Bhugol PravalikaPublication, Allahabad
- Thakur, Patil, Datta, Pednekar, Roy, and Kamble (2016): *Population Geography*, Konkan Geographers Association in India
- Roy. D. (2015) Population Geography, Books & Allied Publication, Kolkata

Time	: 3 hours		Marks; 100		
N.B. 1	N.B. 1. All questions are compulsory and carry equal marks.				
	2. Use of Map Stencils is permitted.				
3. Draw sketches and diagrams wherever necessary.					
Q. 1	Long answer q	uestion on Unit-I	20 Marks		
OR					
	Long answer question	on unit –I for 20 Marks	20 Marks		
		or			

	Two short answer questions each 10 Marks	
Q. 2	Long answer question on Unit-II	20 Marks
	OR	
	Long answer question on unit –II for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	
Q. 3	Long answer question on Unit-III	20 Marks
-	OR	
	Long answer question on unit –III for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	
Q. 4	Long answer question on Unit-IV	20 Marks
	OR	I
	Long answer question on unit –IV for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	
Q. 5	Long answer question on Unit-V	20 Marks
	OR	
	Long answer question on unit –V for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	
	1	

University of Mumbai Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS) T.Y.B.A. / T.Y.B.Sc. Geography, Semester – V. Paper No: VI

Subject Title: TOOLS AND TECHNIQUES IN GEOGRAPHY FOR **SPATIAL ANALYSIS-I (Practical)**

COURSE CODE:_____, Credit:__03____

Unit -I	Map Projections	Lectures
		09
	1.1. Basic Concepts – Definition, scale, direction, azimuth, graticule,	
	great circle, true meridian, types of projections, choice of projections	
	1.2. Zenithal Polar Projections – Equal Area, Equidistant	
	1.3. Cylindrical Projections - Equal Area, Equidistant	
	1.4. Conical Projections - One standard parallel, two standard parallel	
Unit-II	Map Basic	
	2.1. Basic elements of map and calculation or identification of relief,	09
	direction, bearing and distance	
	2.2. Area calculation with square method and strip method	
	2.3. Demarcation of watershed on toposheet, Tracing of stream	
	network and contours	
Unit-III	Survey of India Toposheets	
	3.1. Signs and symbols, marginal information	09
	3.2. Study of physiography, drainage and vegetation (one full	
	toposheet of hilly and plateau region each)	
	3.3. Study of settlements – size, pattern, utilities (one full toposheet of	
	plains and urban region each)	
	3.4. Study of transport network (one full toposheet of plains and urban	
	area each)	
Unit-III	Preparation of Thematic maps (Manually)	
	4.1. Preparation of a district thematic maps with actual data- Dot and	09
	Pictogram	
	4.2. Preparation of a district thematic maps with actual data-	
	Choropleth and Isopleth	
	4.3. Preparation of a district thematic maps with actual data- Located	
	bar, located circle and pie chart	
Unit-V	Use of computers in geographical data representation	
	5.1. Construction of line graphs & simple and multiple bar graphs	09

using MS-excel	
5.2. Construction of divided bar graphs & pie charts using MS-exc	əl
5.3. Preparation of datasheet in SPSS	
5.4. Calculation of central tendency and standard deviation using SPSS	

References -

- Ahirrao ani Karanjkhele प्रात्य सक भ ोर,
- Karlekar Shrikant- प्रात्य सक भ ोर, डायमिंड पब्लरके ळन्श
- KarlekarShrikant- Bhoogol shastratil Sanshodhan Paddhati, डायमिंड पल्तरके ळन्श
- Monkhouse F.J. Maps & Diagrams, Methuen and Co., London, 1971 (3rd Edition, Revised).
- NCERT Textbook for Class-12, Practical Work in Geography Part II
- Peter A. Rogerson Statistical Methods for Geography, Sege Publishers -2001
- Robinson A.H. Elements of Cartography, Wiley
- Sarkar Ashis Practical Geography, Orient Black Swan 2015
- Sarkar Ashis –Quantitative Geography, Orient Black Swan 2013
- Singh R.L. & Singh P. B. Elements of Practical Geography, Kalyani Publishers 2005
- Stoddard Robert Field techniques and research methods in geography, Geography faculty publication <u>http://digitalcommons.unl.edu/geographyfacpub/26</u>
- Thakur S. A. प्रतिय सक ोर, Konkan Geographer's publication (2016)
 भग
 QUESTION PAPER PATTERN

(SEM - VI)

MARKS: - 100 TIME: 4 HRS

N.B:

- 1. All questions are compulsory.
- 2. Figures to the right indicate marks to a sub-question.
- 3. Use of map stencils and simple calculator is allowed.

Q. 1	Unit-I	16 Marks
Q. 2	Unit–II	16 Marks
Q. 3	Unit–III	16 Marks
Q. 4	Unit–IV	16 Marks
Q. 5	Unit–V	16 Marks
Q. 6	Journal and Viva	20 Marks

Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS) T.Y.B.A. / T.Y.B.Sc. Geography, Semester – V, Paper – VII Subject title: REGIONAL PLANNING AND DEVELOPMENT COURSE CODE: ______(2018-19), Credit: 04_____

UNIT – I: Understanding Regional Planning		No. of Lectures
1.1	Planning: Concept, types and need	
1.2	Regional planning: Concept, nature, relation with Geography	10
1.3	Role of surveys and geospatial technology in regional planning	12
1.4	Problems associated with regional planning	
	UNIT – II: Concept of Region in Planning	
2.1	Region: Concept, types and delineation	
2.2	Planning Regions: Need, characteristics and hierarchy	12
2.3	Demarcation of planning regions: Principles, criteria and methods	
2.4	Perroux's Growth Pole Theory and regional planning	
	UNIT – III: Understanding Regional Development	
3.1	Development: Concept and indicators	
3.2	Regional disparities in development: Concept and measurements	10
2.2	Spatial and Non-Spatial Models of Development with Special Reference to	12
3.3	Rostow's Model and Myrdal's Model	
3.4	Strategies for regional development	
	UNIT – IV: Regional Planning in India – I	
4.1	Five-Year Plans: Features, achievements and failure	
4.2	Multi-level planning in India	12
4.3	Planning regions of India	
4.4	Changing planning mechanism of India: NITI Ayog	
	UNIT V. Docional Dianning in India U	
5 1	UNII – V: Regional Planning in India – II	
5.1	Nilcro level planning in rural area	10
5.2	Backward area development programme	12
5.3	Urban tringe of Indian cities: Problems and planning	
5.4	Metropolitan Planning: A Case of Mumbai Metropolitan Region	

REFERENCES:

- Chand, Mahesh (2000): "Regional Planning In India", Allied Publishers Ltd., Mumbai
- Chandana, R. C. (2016): "Regional Planning and Development", Kalyani Publishers, New Delhi
- Dhamdhere, S. et al (2015): "Arthik Vikas Ani Niyojan", (Marathi), Diamond Publications, Pune
- Dikshit, J. K. (2011): "The Urban Fringe of Indian Cities: Professor Jaymala Diddee Felicitation Volume", (ed.) Rawat Publications, Jaipur
- Jhingan, M. L. (2017): "The Economics of Development and Planning", Vrinda Publications (P) Limited, Delhi
- Kant, S. et al (2004): "Reinventing Regional Development: Festschrift to Honour Gopal Krishnan", (ed.) Rawat Publications, Jaipur
- Misra, R. P. (2002): "Regional Planning", Concept Publishing Co., New Delhi
- NITI Ayog (2017): "Three Year Action Plan (2017-18 to 2019-20)", NITI Ayog, New Delhi
- Tiwari, R. C. (2016): "Geography of India", Pravalika Publications, Allahabad

Books for further reading:

- Bhargava, G. (2001): "Development of India's Urban, Rural, and Regional Planning in 21st Century: Policy Perspective", Gyan Publishing House, Delhi
- Datt, G. And Mahajan, A. (2016): "Datt and Sundaram's Indian Economy", S. Chand Publishing, New Delhi
- Devi, Laxmi (2000): "Planning Development and Regional Disparities", (ed.) Anmol Publications, New Delhi
- Dhamdhere, S. and Shinde, S. (2010): "Bhartiya Ani Jagtik Arthik Vikas" (Marathi), Diamond Publications, Pune
- Hall, P. (2016): "Urban and Regional Planning" Routledge, London
- Knowles, R and Wareing, J. (1996): "Economic and Social Geography", the Made Simple Series, Rupa& Co., Calcutta

- Sundaram, K. V. (1985): "Geography and Planning: Essays in Honour of Prof. V. L. S. PrakasaRao", Concept Publishing Co., New Delhi
- Sundaram, K. V. (1989): "Regional Planning and Development: Essays on Space, Society, and Development in Honour of Professor R. P. Misra", Heritage Publishers, New Delhi
- Vidyarthi, A. et al (2017): "Understanding India's New Approach to Spatial Planning and Development: A Spatial Shift?", Oxford University Press, New Delhi
- Yojana, Monthly Journal Published in English and Marathi by Government of Maharashtra

IMPORTANT WEBSITES / WEB LINKS:

mmrda.maharashtra.gov.in

niti.gov.in

planningcommission.gov.in

yojana.gov.in

Time	: 3 hours		Marks; 100	
N.B.	N.B. 1. All questions are compulsory and carry equal marks.			
	2. Use of Map Stencils is permitted.			
	3. Draw sketches and diagrams wherever	necessary.		
Q. 1	Long answer q	uestion on Unit-I	20 Marks	
		OR		
	Long answer question	on unit –I for 20 Marks	20 Marks	
		or		
	Two short answer qu	estions each 10 Marks		
	·		·	
Q. 2	Long answer qu	uestion on Unit-II	20 Marks	
OR				
	Long answer question	on unit –II for 20 Marks	20 Marks	
		or		
	Two short answer qu	estions each 10 Marks		
Q. 3	Long answer qu	estion on Unit-III	20 Marks	
	•	OR		
	Long answer question	on unit –III for 20 Marks	20 Marks	

	or	
	Two short answer questions each 10 Marks	
Q. 4	Long answer question on Unit-IV	20 Marks
	OR	
	Long answer question on unit –IV for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	
Q. 5	Long answer question on Unit-V	20 Marks
	OR	
	Long answer question on unit –V for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	

Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS) T.Y.B.A./T.Y.B.Sc. Geography, Semester – V, Paper – VIII - A

Subject Title: GEOGRAPHY OF RESOURCES

COURSE CODE: _____(2018-19), Credit: ___04____

UNIT – I: Introduction to the Resources		TOTAL LECTURES	
1.1	Meaning and importance of the natural resources		
1.2	Factors influencing on resource utilization and related theories	12	
1.3	Classification of resources	12	
1.4	Issues with renewable and non-renewable resources		
U	NIT – II: Natural resources: over exploitation and conservation measures	-	
2.1	Over exploitation and depletion of natural resources		
2.2	Resource consumption pattern in the developed and underdeveloped countries	12	
2.3	Need and measures for resource conservation		
2.4	Sustainable use of natural resources		
	UNIT – III: Natural Resources, Part –I	-	
3.1	Distribution of water resources on the Earth	-	
3.2	Water consumption pattern, water pollution and water conservation	12	
3.3	Distribution of forest resources in the world		
3.4	Deforestation and forest conservation		
4.1	Soil composition and factor affecting soil formation		
4.2	Soil degradation and its conservation	12	
4.3	Minerals and their classification		
4.4	Use of energy minerals and their conservation		
	UNIT – V: Human Resources		
5.1	Concept of human resource: skilled and unskilled workers]	
5.2	Distribution of population in the world	12	
5.3	Concept of over, under and optimum population		
5.4	Population Resource regions		

Reference Books:

1. Chandna R.C. (2014): Geography of Population, Kalyani Publishers, Ludhiana, India

2. Gautam Alka (2010) Environmental Geography: Sharda Pustak Bhavan, Allahabad

3. GautamAlka: 2013: Advanced Economic Geography, Sharda Pustak Bhawan, Allahabad, India, Third Edition

4. Gautam Alka: Resource Geography, Sharda Pustak Bhawan, Allahabad, India,

5. Husain Majid, 2003: Resources Geography, Anmol Publications Pvt. Ltd. (2003) ISBN: 9788170418764

6. Khullar D. R. (2014) India: A Comprehensive Geography, Kalyani Publishers, ISBN-13: 978-9327246759

7. Mondal P and Dalai (2017) Sustainable Utilization of Natural Resources: CRC Press (2017) ISBN 9781498761833

8. Singh Savinder (2015): Environmental Geography: Prayag Pustak Company, Allahabad

9. Singh Vipul (2012) The Human Footprint on Environment: Issues in India, Macmillan Publishers India Pvt. Ltd, ISBN: 935-059-098-0

10. Verma C.L. (2014): Economic and Resource Geography, Forward Books; 1ST edition (2014) ISBN-10: 9381763534

11. Website: https://www.researchgate.net/publication/280298490_Resource_Geography

12. William A.: Nonfuel Minerals and the World Economy", Vogely, World Resources Institute Book Yale University Press

Time	: 3 hours		Marks; 100
N.B. 1. All questions are compulsory and carry equal marks.			
2. Use	e of Map Stencils is permitted.		
	3. Draw sketches and diagrams wherever	necessary.	
Q. 1	Long answer q	uestion on Unit-I	20 Marks
		OR	
	Long answer question	on unit –I for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
			·
Q. 2	Long answer qu	estion on Unit-II	20 Marks
		OR	
	Long answer question	on unit –II for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	

Q. 3	Long answer question on Unit-III	20 Marks		
	OR			
	Long answer question on unit –III for 20 Marks	20 Marks		
	or			
	Two short answer questions each 10 Marks			
Q. 4	Long answer question on Unit-IV	20 Marks		
	OR			
	Long answer question on unit –IV for 20 Marks	20 Marks		
	or			
	Two short answer questions each 10 Marks			
		·		
Q. 5	Long answer question on Unit-V	20 Marks		
	OR			
	Long answer question on unit –V for 20 Marks	20 Marks		
	or			
	Two short answer questions each 10 Marks			

Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)

T.Y.B.A. / T.Y.B.Sc. Geography, Semester –V, Paper: VIII-B

Subject Title: GEOGRAPHY OF HEALTH

COURSE CODE:_____, Credit: 04____

	Unit I - Introduction to Geography of Health	TOTAL LECTURES
1.1	Nature, scope and evolution geography of health	
1.2	Conceptual background and components geography of health	10
1.3	Significance and approaches geography of health	12
1.4	Relation of geography of health with other branches of social science	
	Unit- II - The Pollution Syndrome	
2.1	Air Pollution: Causes, Effects and remedial measures	
2.2	Water Pollution: Causes, Effects and remedial measures	12
2.3	Radioactive Pollution: Causes, Effects and remedial measures	
2.4	Plastic Pollution: Causes, Effects and remedial measures	
	Unit III Coography of Disaasas	
2 1	Weather related diseases and elimete change and Global health	
2.1	3.1 Weather-related diseases and climate change and Global health	
3.3 Case studies of communicable diseases –malaria and HIV – Aids		12
3.5	Case studies of non-communicable diseases – manana and mil – Alds	
5.4		
	Unit IV -Health and Environment	
4.1	Linkages of health with environment	
4.2	Relation between development and health	12
4.3	Population dynamics, urbanisation, poverty and inequality	
4.4	Migration and related health issues	
	Unit V - Health Care Facilities	
5.1	Health care facilities in India	
5.2	Spatial Distribution of health care facilities in Maharashtra	12
5.3	Health care policies in India	
5.4	Health Organisations: WHO, UNISEF, Red Cross Society and NGOs	

References

- 1. Alice E. Marczewski and Michael Kamrin: Toxicology for the Citizen.
- 2. B. Brockband, J.Cohrsson, and V.T. Covello: The Risk Assessment Manual: A Guide to Understanding and Using Health and Environmental Assessments
- 3. Marilyn O. Ruiz: Geography of Disease
- 4. Michael Emch, Elisabeth Dowling Root, and Margaret Carrel: Health and Medical Geography Fourth Edition
- 5. Rhonda Humbird: AP Environmental Science Part 1: The Living World

Time	: 3 hours		Marks; 100
N.B.	1. All questions are compulsory and carry equa	l marks.	
	2. Use of Map Stencils is permitted.		
	3. Draw sketches and diagrams wherever neces	ssary.	
Q. 1	Long answer question	n on Unit-I	20 Marks
	OR		
	Long answer question on un	it –I for 20 Marks	20 Marks
	or		
	Two short answer question	s each 10 Marks	
0.2	Long answer question	on Unit-II	20 Marks
Q. 2			20 WIdIKS
	Long answer question on up	it II for 20 Marks	20 Marks
	Long answer question on an	at -11 101 20 Walks	20 Warks
	Two short answer question	s each 10 Marks	
0.2	T		20 Marta
Q. 3	Long answer question	on Unit-III	20 Marks
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	Long answer question on uni	t –III for 20 Marks	20 Marks
	or the transformed to the transf	1 10 1 1	
	I wo short answer question	s each 10 Marks	
	1		
Q. 4	Long answer question	on Unit-IV	20 Marks
	OR		
	Long answer question on uni	t –IV for 20 Marks	20 Marks
	or		
	Two short answer question	s each 10 Marks	

Q. 5	Long answer question on Unit-V	20 Marks
OR		
	Long answer question on unit –V for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	

Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)

T.Y.B.A. / T.Y.B.Sc. Geography, Semester – V, Paper: VIII-C

Subject Title: GEOGRAPHY OF DISASTER MITIGATION and

MANAGEMENT

COURSE CODE:_____, Credit:__04____

UNI	1 -1, Meaning & Concept of Disaster & Hazard	No. of
		Lectures
1.1	Concepts of Disaster, Hazard, Vulnerability and Risks	12
1.2	Typology of hazards & Disasters- Natural Disasters & Man-made Disasters	
1.3.	Impacts of Disasters – Socio-economic and political	
1.4.	Need of Disaster Management in India	
UNIT	F – II, Elements of Disaster Management	
2.1.	Disaster Management : Meaning & Concept	12
2.2.	Role of International Organisations for Disaster Management – UNISDR,	
	INSARAG, Red Cross	
2.3	Role of National Organisations for Disaster Management	
2.4	Role of NGOs & Community in Disaster Management	
UNIT	1 – III, Disaster Management : Methods & Approaches	
3.1	Disaster Management : Historical Perspective	12
3.2	Disaster Management : Methods & Approaches	
3.3	Pre- Disaster Stage of Management	
3.4	Post- Disaster Stage of Management	
UNIT	I-IV, Natural Disaster and its Management in India	
4.1	Earthquake & Tsunami –Causes, Effects, Management	12

4.2	Flood – Distribution, Causes, Effects, Management	
4.3	Cyclone – Distribution, Causes, Effects, Management	
4.4	Famine – Distribution, Causes, Effects, Management	
UNI	Γ–V, Anthropogenic Disaster and its Management in India	
5.1	Industrial Hazards – Causes, effects and management with reference to	12
	Bhopal Gas Tragedy	
5.2	Terrorism – Causes, effects and management with reference to 26/11	
	Mumbai attack	
5.3	Wild Fire – Types, Causes, effects and management with reference to	
	Uttarakhand forest fire 2016	
5.4	Accidents - Causes, effects and management with reference to Savitri river]
	bridge collapse accident August 2016	

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- Dasgupta R. (2007): Disaster Management and Rehabilitation, Mittal Publications. New Delhi
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- 6. DOB DODD, 9 1 05 : DODDA D DOL DODDADD, DDD4 3 0007 75 0007, 0000.
- 7. COCTI COCCCC, 3 3 4 COCCCC: COCCCC CR COCCCC, COCCCC 1 17 75 COCC, COCC.

Time	: 3 hours		Marks; 100
N.B.	1. All questions are compulsory and carr	y equal marks.	
	2. Use of Map Stencils is permitted.		
	3. Draw sketches and diagrams whereve	r necessary.	
Q. 1	Long answer q	uestion on Unit-I	20 Marks
		OR	
	Long answer question	on unit –I for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
Q. 2	Long answer q	uestion on Unit-II	20 Marks
	·	OR	
	Long answer question	on unit –II for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
Q. 3	Long answer qu	lestion on Unit-III	20 Marks
		OR	
	Long answer question	on unit –III for 20 Marks	20 Marks
		or	
	Two short answer qu	lestions each 10 Marks	
Q. 4	Long answer qu	estion on Unit-IV	20 Marks
	·	OR	
	Long answer question	on unit –IV for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
0.5	Long answer ou	uestion on Unit-V	20 Marks
<u> </u>		OR	
	Long answer question	on unit –V for 20 Marks	20 Marks
		or	_ • 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
	Two short answer qu	estions each 10 Marks	

University of Mumbai Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS) T.Y.B.A. / T.Y.B.Sc. Geography, Semester – V, Paper – IX Subject Title : GEOSPATIAL TECHNOLOGY

Course Code:

Creadit-0 3

UNIT - I	Remote Sensing – I	9
1.1	Geospatial Technology: Concept, Components and Importance	
1.2	Remote Sensing: Concept, Process and Geographical Applications	
1.3	Electromagnetic Energy, EMR and EMS - Spectral Reflectance and	
	Spectral Signature or Curve - Platforms, Sensors and Resolution	
1.4	Elements of Visual Image Interpretation - Mapping of Thematic Layers	
	and Visual Image Interpretation of Physical and Manmade Features	
UNIT - II	Remote Sensing – II	9
2.1	Digital image analysis: landuse and landform classification, 3D view of DEM	
2.2	Aerial Photographs: Concept, Process and Types	
2.3	Interpretation of Aerial Photographs	
2.4	Advanced Remote Sensing Technology - Use of Bhuvan website	
UNIT - III	Global Positioning System	
3.1	GPS : Concept, Segments, Applications	
3.2	Types of GPS – GPS Data Accuracy and Errors	
3.3	Factors Affecting GPS Data - Global Navigation System	
3.4	Ground Survey and Demarcation of Point, Line and Polygon Features	
	with GPS Device – Transfer GPS Data to Computer with Softwares like	
	Easy GPS	
UNIT - IV	Geographic Information System – I	9
4.1	GIS : Concept, Components and Applications - Map Projection and	
4.2	Cis Data Acquisition and Types	
4.2	GIS Data Acquisition and Types	
4.5	Importing Image into GIS Software and Geo-referencing	
4.4	Creating Layers by Digitization of Point, Line and Polygon Features	
	Coographia Information System II	0
5 1	Geographic Information System – II Functions of Database Creation Input Editing and Linking	9
5.1	Spatial Database Analysis: Overlay Marga Overla	
5.2	Using Man Composer for Man Layout and Design	
5.5	Design Map-Composer for Maps	
J. 4	r reparation or ritematic waps	

	Paper – IX : GEOSPATIAL TECHNOLOGY Question Paper Pattern	
Q. 1	Unit –I	16
Q. 2	Unit –II	16
Q. 3	Unit –III	16
Q. 4	Unit –IV	16
Q. 5	Unit –V	16
Q. 6	Preparation Thematic Maps by using Geospatial Technology Tools	10
Q. 7	Journal and Viva	10

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1. कार्रेकर, श्रीकािंत (२००६): भौगो रक माद्यती प्रणार्री, डायम**िंड प्रकाळन, प**ुणे.

2. कारेकर, श्रीकािंत (२०१२): दर शिंळेदन, डायमिंड प्रकाळन, पुणे.

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- 11. Bernhardsen, Tor (2002): Geographical Information Systems: An Introduction, Third Edition, John Wiiey& Sons, Inc., New York.
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SEMESTER –VI

Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)

T.Y.B.A. / T.Y.B.Sc. Geography, Semester – VI, Paper: IV

Subject Title: ENVIRONMENTAL GEOGRAPHY

COURSE CODE: Credit: 04

UNIT -I	Intro	oduction to Environmental Geography	No. of Lectures
	1.1		
		Importance	_
	1.2	Environment: Meaning, Factors and Types	12
	1.3	Approaches to the Study of Man – Environment Relationship	
	1.4	Changing Man - Environment Relationship in Historical	
		Perspective	
UNIT-II	Ecos	ystem	
	2.1	Meaning and Structure of Ecosystem	
	2.2	Ecological Pyramids and Productivity of Ecosystem	12
	2.3	Functions of Ecosystem: Food Chain & Web, Energy Transfer,	
		Biogeochemical Cycles	
	2.4	Types of Ecosystems: Aquatic, Terrestrial, and Aqua-Terrestrial	
		Ecosystems	
UNIT-III	Biod	iversity	
	3.1	Biodiversity: Concept, Types and Distribution	
	3.2	Biodiversity Hotspots: Concept, and Distribution in India with	12
		Special Reference Western Ghats	
	3.3	Threat to Biodiversity: Causes	
	3.4	Conservation of Biodiversity and Management of Biological	
		Reserves	
UNIT-IV	Envi	ronmental Challenges in India	
	4.1	Air pollution and Water Pollution: Cases and Effects	
	4.2	Land and Noise Pollution: Cases and Effects	12
	4.3	Environmental Issues Related to High/large Dams	
	4.4	Major environmental Movements in India	
UNIT-V	Sust	ainable Development and Environmental Management	

5.1	Concepts and Need of Sustainable Development and	
	Environmental Management	12
5.2	Eco-friendly Lifestyle and Need of Environmental Education	
5.3	Biosphere Reserves and Wildlife Management in India	
5.4	Environmental Impact Assessment	

Reference book:

- Bharucha, E. (2004): "A Textbook for Environmental Studies", University Grants Commission, New Delhi, Downloaded from <u>https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf</u>
- Cunningham, W, and Cunnigham, M. (2017): "Principles of Environmental Science: Inquiry and Applications", McGraw Hill Education, Delhi
- Gautam, A. (2010): "Environmental Geography", Sharda Pustak Bhavan, Allahabad
- Karlekar, S. and Borges, J. (2008): "Diamond Bhugol- Paryavaran Shatra Kosh", (Marathi), Diamond Publications, Pune
- Rajagopalan, R. (2016): "Environmental Studies: From Crisis to Core", Oxford University Press, New Delhi
- Sangle, S. (2017): "Paryavaran Bhugol", (Marathi), Diamond Publications, Pune
- Saxena, H. (2017): "Environmental Geography", Rawat Publishers, Jaipur.
- Singh, S. (2017):"Environmental Geography", Prayag Pustak Bhawan, Allahabad
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Time	: 3 hours		Marks; 100
N.B.	1. All questions are compulsory and carr	y equal marks.	
	2. Use of Map Stencils is permitted.		
	3. Draw sketches and diagrams whereve	r necessary.	
Q. 1	Long answer q	uestion on Unit-I	20 Marks
		OR	
	Long answer question	n on unit –I for 20 Marks	20 Marks
		or	
	Two short answer qu	uestions each 10 Marks	
Q. 2	Long answer q	uestion on Unit-II	20 Marks
	·	OR	
	Long answer question	on unit –II for 20 Marks	20 Marks
		or	
	Two short answer qu	uestions each 10 Marks	
			1
Q. 3	Long answer qu	uestion on Unit-III	20 Marks
		OR	
	Long answer question	on unit –III for 20 Marks	20 Marks
		or	
	Two short answer qu	uestions each 10 Marks	
Q. 4	Long answer qu	uestion on Unit-IV	20 Marks
		OR	
	Long answer question	on unit –IV for 20 Marks	20 Marks
		or	
	Two short answer qu	uestions each 10 Marks	
Q. 5	Long answer g	uestion on Unit-V	20 Marks
		OR	I
	Long answer question	on unit –V for 20 Marks	20 Marks
		or	
	Two short answer qu	uestions each 10 Marks	
	-		

University of Mumbai Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS) T.Y.B.A. / T.Y.B.Sc. Geography, Semester - VI Paper No. – V -A **GEOGRAPHY OF TOURISM and RECREATION**

COURSE CODE:_____, Credit:___04____

	Unit-I -Introduction to Tourism Geography	TOTAL LECTURES
1.1	Definition, Nature and Scope	
1.2	Trends of Tourism Development in World	12
1.3	Factors of Tourism Development - Geographical components	12
1.4	Factors of Tourism Development - Socio-cultural and political	
	Unit-II Types & Impact of Tourism	
2.1	Types of Tourism,	
2.2	New Trends in Tourism,	12
2.3	Positive impact of Tourism on Environment, Socio-culture and Economy	
2.4	Negative Impact of Tourism on Environment, Socio-culture and Economy	
	Unit-III - Infrastructure of Tourism and Ancillary Services	
3.1	Accommodation	
3.2	Transportation	12
3.3	Travel Agencies and Tour Guide	
3.4	Documentation and Ticketing	
	Unit-IV - Planning of Tourism and Organisation	
4.1	Need of Planning and Elements of Planning	
4.2	Levels of Planning	12
4.3	Tourism Organizations - IATA, PATA, I.T.D.C. and M.T.D.C	
4.4	Incredible India campaign	
	Unit-V Potential Tourism Sectors in Maharashtra and Tourism Policy	
5.1	Coastal tourism in Maharashtra	
5.2	Adventure tourism in Sahyadri	12
5.3	Heritage tourism in Maharashtra	
5.4	Tourism Policy of Maharashtra State	

• Reference Books

1. Anand M.M., Tourism & Hotel Industry in India, Prentice Hall of India, New Delhi,

- 2. Bhatia A.K., Tourism Development, Sterling Publishers Pvt. Ltd. New Delhi.
- 3. Bhatia A.K., International Tourism, Sterling Publishers Pvt. Ltd. New Delhi
- 4. Bhatia A.K.,- Tourism in India , Sterling Publishers Pvt. Ltd. New Delhi
- 5. Geetanjali, Tourism Geography, Centrum press publishers, New Delhi
- T.K. Sathyadev, P. Manjunath- Tourism Planning, Pacific books Internationals, Delhi.
- 7. Thakur S A (2016) : पयटन भगोर, Konkan Geographer's Publication

Time	: 3 hours		Marks; 100
N.B.	1. All questions are compulsory and carr	y equal marks.	
	2. Use of Map Stencils is permitted.		
	3. Draw sketches and diagrams wherever	r necessary.	
Q. 1	Long answer q	uestion on Unit-I	20 Marks
		OR	
	Long answer question	on unit –I for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
Q. 2	Long answer qu	uestion on Unit-II	20 Marks
		OR	
	Long answer question	on unit –II for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
Q. 3	Long answer qu	lestion on Unit-III	20 Marks
		OR	-
	Long answer question	on unit –III for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
Q. 4	Long answer qu	estion on Unit-IV	20 Marks
		OR	
1	Long answer question	on unit –IV for 20 Marks	20 Marks
		or	

	Two short answer questions each 10 Marks	
Q. 5	Long answer question on Unit-V	20 Marks
OR		
	Long answer question on unit –V for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	

UNIVERSITY OF MUMBAI

Syllabus for T.Y.B.A. Geography

(CBSGS with effect from Academic Year 2018-19)

SEMESTER-VI, Paper No. V -B

Subject Title: POLITICAL GEOGRAPHY

COURSE CODE: _____(2018-19), Credit: __04____

Units	Name of the Unit/Subunit	No of Lectures			
Unit –	(12)				
1.1	Definition, Nature and Scope of Political Geography				
1.2	Historical Development and Recent Trends in Political Geography				
1.3	Concept of state and factors				
1.4	Concept of Nation, Nation-State, and Nationalism				
Unit –	2. : Approaches and Concepts in Political Geography	(12)			
2.1	Hartshorne's Fundamental Approach: Centrifugal and Centripetal				
	Forces				
2.2	Unified Field Theory				
2.3	Core Areas: Concept, Characteristics, and Distribution				
2.4	Capitals: Concept, Functions, and Classification				
Unit –	3. : Frontiers and Boundaries	(12)			
3.1	Frontiers and Boundaries: Concepts and Distinction				
3.2	Functions of Frontiers and Boundaries				
3.3	Classification of Boundaries				
3.4	India's Boundaries: Characteristics and Disputes				
Unit –	4. : Geostrategic and Geopolitical Views	(12)			

4.1	Mackinder's Heartland and Spykman's Rimland Model	
4.2	Geopolitics of Indian Ocean	
4.3	Geopolitics of International Water Disputes with Special Reference	
	to India	
4.4	Changing Political Map of India	
Unit –	5. : Electoral Geography	(12)
Unit – 5.1	5. : Electoral Geography Concept, Nature and Approaches of Electoral Geography	(12)
Unit – 5.1 5.2	5. : Electoral Geography Concept, Nature and Approaches of Electoral Geography Geography of Voting: Geographical Factors Affecting Elections	(12)
Unit – 5.1 5.2 5.3	5. : Electoral GeographyConcept, Nature and Approaches of Electoral GeographyGeography of Voting: Geographical Factors Affecting ElectionsSpatial Organisation of Electoral Areas and Geography of	(12)
Unit – 5.1 5.2 5.3	5. : Electoral GeographyConcept, Nature and Approaches of Electoral GeographyGeography of Voting: Geographical Factors Affecting ElectionsSpatial Organisation of Electoral Areas and Geography ofRepresentation	(12)

Reference Books:

- Adhikari, S. (2015): "Political Geography", Rawat Publications, Jaipur
- Adhikari, S. (2011): "Political Geography of India: A Contemporary Perspective", Sharda Pustak Bhawan, Allahabad
- Dikshit R. (1985): "Political Geography: A Contemporary Perspective" McGraw, Hill, New Delhi
- Dikshit, S. (1993): "Electoral Geography of India", Vishwavidyalaya Prakashan, Varanasi
- Dwivedi, R. (1996): "Political Geography" Chaitanya Prakshan, Allahabad
- Jones, M. (2004): "An Introduction to Political Geography: Space, Place and Politics", Routledge

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ोर, प्रळािंतपब्लरके ळ न, जलगाळ

- Muir, R. (1995): "Modern Political Geography", McMillan, London
- Painter, J. and Jeffrey, A. (2009): "Political Geography", Sage Publications

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- Sinha, M. (2007): "Electoral Geography of India", Adhyayan Publications and Distributers, New Delhi
- घ**ारप**ुर**े ळ ऱ** (२०१३)र**ाजक**ीयभग
- ऱ्राटकर, आफ्टे (१९९८)र**ाजक**ीयभग
- पाटीर ळऱाश (२०१ ५)राजकीयभग्न

Page 35 of 50

QUESTION PAPER PATTERN:

Time	: 3 hours		Marks; 100
N.B.	1. All questions are compulsory and carr	y equal marks.	
	2. Use of Map Stencils is permitted.		
	3. Draw sketches and diagrams wherever	r necessary.	
Q. 1	Long answer q	uestion on Unit-I	20 Marks
		OR	
	Long answer question	on unit –I for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
Q. 2	Long answer qu	uestion on Unit-II	20 Marks
	· · · · · · · · · · · · · · · · · · ·	OR	
	Long answer question	on unit –II for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
0.0	T T		
Q. 3	Long answer qu	lestion on Unit-III	20 Marks
	· ·	OR	
	Long answer question	on unit –III for 20 Marks	20 Marks
	T 1 (or	
	I wo short answer qu	lestions each 10 Marks	
Q. 4	Long answer qu	estion on Unit-IV	20 Marks
		OR	
	Long answer question	on unit –IV for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
0.5	Long answer a	estion on Unit-V	20 Marks
		OR	
	Long answer question	on unit –V for 20 Marks	20 Marks
		or	•
	Two short answer qu	estions each 10 Marks	

Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)

T.Y.B.A. / T.Y.B.Sc. Geography, Semester –VI, Paper No: VI

Subject Title: TOOLS AND TECHNIQUES IN GEOGRAPHY FOR

SPATIAL ANALYSIS-II (Practical)

COURSE CODE:_____, Credit:__03_

Unit -I	Nature of data and central tendency	Lectures
	1.1. Meaning and types of data, variable, observation, observation	09
	value, simple, discrete data and continuous data	
	1.2. Frequency Distribution, Histogram, Frequency Polygon and	
	Ogive	-
	1.3. Measures of Central Tendency- mean, median and mode	-
Unit -II	Dispersion and Deviation	
	2.1.Mean Deviation and Quartile Deviation	09
	2.2. Standard Deviation	
	2.3. Moving Averages (3 years and 5 years)	•
Unit -III	Correlation, Regression & Hypothesis Testing	
	3.1. Calculation of correlation coefficient - Pearson's and Spearman's methods	09
	3.2. Regression analysis	
	3.3. Chi square test	
Unit-IV	Sampling	
	4.1. Sample and sample design in geography	09
	4.2. Point sampling –Systematic and random	
	4.3. Line sampling – Systematic and random	
	4.4. Area sampling – Systematic and random	
I loit V	Field work in Coography of any one place/village	00
Unit-v	Field work in Geography of any one prace/vinage	09
	5.1. Collection of physiographic data – Field observation, field	
	vegetation etc	
	5.2 Collection of socio-economic data _ interviews questionnaire	
	survey, visit to local governing office, NGO's etc.	
	5.3. Collection of geospatial data – toposheets, aerial photographs, Google images/maps, Bhuvan images etc.	
	To prepare a geographical report of a place with the help of an available 5.1, 5.2, and 5.3 aspects	
1		

References -

- Ahirrao ani Karanjkhele प्रात्य सक भ ोर,
- Karlekar Shrikant- प्रात्य सक भ ोर, डायमिंड पब्लरके ळन्श
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- Monkhouse F.J. Maps & Diagrams, Methuen and Co., London, 1971 (3rd Edition, Revised).
- NCERT Textbook for Class-12, Practical Work in Geography Part II
- Peter A. Rogerson Statistical Methods for Geography, Sege Publishers -2001
- Robinson A.H. Elements of Cartography, Wiley
- Sarkar Ashis Practical Geography, Orient Black Swan 2015
- Sarkar Ashis Quantitative Geography, Orient Black Swan 2013
- Singh R.L. & Singh P. B. Elements of Practical Geography, Kalyani Publishers 2005
- Stoddard Robert Field techniques and research methods in geography, Geography faculty publication http://digitalcommons.unl.edu/geographyfacpub/26

QUESTION PAPER PATTERN (SEM - VI) MARKS: - 100 TIME: 4 HRS

N.B:

- 4. All questions are compulsory.
- 5. Figures to the right indicate marks to a sub-question.
- 6. Use of map stencils and simple calculator is allowed.

Q. 1	Unit-I	16 Marks
Q. 2	Unit–II	16 Marks
Q. 3	Unit–III	16 Marks
Q. 4	Unit–IV	16 Marks
Q. 5	Unit–V	16 Marks
Q. 6	Journal and Viva	20 Marks

Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)

T.Y.B.A. / T.Y.B.Sc. Geography, Semester – VI, Paper – VII

Subject Title: ECONOMIC GEOGRAPHY

COURSE CODE: _____(2018-19), Credit: __04____

Units	Name of the Unit/Subunit	No of
		Lectures
	Unit – 1. : Introduction of Economic Geography	(12)
1.1	Definition, Nature, Scope and Branches of Economic Geography	
1.2	Approaches of Economic Geography and Relation with other	
	social sciences	
1.3	Concept and Operation of Economy	
1.4	Resources: Concept, Classification and Importance in Economy	
	Unit – 2. : Economic Activities	(12)
2.1	Economic Activities: Type and Characteristics	
2.2	Factors Affecting Economic Activities	
2.3	Agriculture and Lumbering: Types and Distribution	
2.4	Fishing and Animal Husbandry: Types and Distribution	
	Unit – 3. : Minerals and Industries	(12)
3.1	Minerals: Importance, Characteristics and Distribution of Iron	
	Ore, Manganese, Coal and Mineral Oil	
3.2	Factors Affecting Industrial Locations	
3.3	Weber's Industrial Location Theory	
3.4	Major Industrial Regions of the World	
	Unit – 4. : Transport and International Trade	(12)
4.1	Transportation: Importance and influencing factors	
4.2	Major Transport Patterns in the World	
4.3	Patterns of International Trade: Composition and Direction	
4.4	Major International Trade Organisations: WTO, OPEC,	
	SAARC, G-20 and BRICS	
	Unit – 5 : Economic Development of India	(12)
5.1	Levels of Economic Development in India	
5.2	Globalisation and its impact on Indian economy	
5.3	Special Economic Zones: Concept and issues in India	
5.4	Environment and Economic Development and related issues	
Reference Books:

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- 12. Weber Alfred (1957): "Theory of Location of Industry" Chicago Press

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QUESTION PAPER PATTERN:

Time	e: 3 hours	Marks; 100
N.B.	1. All questions are compulsory and carry equal marks.	
	2. Use of Map Stencils is permitted.	
	3. Draw sketches and diagrams wherever necessary.	
Q. 1	Long answer question on Unit-I	20 Marks
	OR	
	Long answer question on unit –I for 20 Marks	20 Marks
	or the second seco	
	Two short answer questions each 10 Marks	
Q. 2	Long answer question on Unit-II	20 Marks
	OR	
	Long answer question on unit –II for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	
0.3	Long answer question on Unit-III	20 Marks
<u><u> </u></u>	OR	20 101001110
	Long answer question on unit –III for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	
0.4		20 Marta
Q. 4	Long answer question on Unit-IV	20 Marks
	Long answer question on unit IV for 20 Marks	20 Marks
	Long answer question on unit –1 v 101 20 Warks	20 Marks
	Two short answer questions each 10 Marks	
		L
Q. 5	Long answer question on Unit-V	20 Marks
	OR	
	Long answer question on unit –V for 20 Marks	20 Marks
	or the second seco	
	I wo short answer questions each 10 Marks	
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University of Mumbai

Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)

T.Y.B.A./T.Y.B.Sc. Geography, Semester –VI, Paper: VIII – A

Subject Title: BIOGEOGRAPHY

COURSE CODE:_____, Credit:__04____

	Unit-I: Introduction to Biogeography	TOTAL
1 1	Diagonamenty Concent definition notive and soone	LECIURES
1.1	Biogeography-Concept, definition, nature and scope	
1.2.	Answerschapting Disconserverber	12
1.3.	Approaches in Biogeography	
1.4.	Importance of Biogeographic studies	
	Unit-II: Ecosystem and Biosphere	
2.1.	Ecosystem: Concept, meaning and types	
2.2.	Components of ecosystem and ecosystem productivity	12
2.3.	Biosphere: Concept, meaning and components	
2.4.	Biogeographic processes	
3.1.	Concept of plant community and classification of plants	
3.2.	Biotic succession and climax vegetation	12
3.3.	Major plant formation and biomes- Tropical	
3.4.	Major plant formation and biomes- Temperate	
	Unit –IV: Marine Biogeography	
4.1.	Marine Biogeography meaning and concept	
4.2.	Types of ocean habitats	12
4.3.	Biogeography of estuaries	
4.4.	Island biogeography	
	Unit-V: Biodiversity	
5.1.	Meaning and types of Biodiversity	
5.2.	Importance of Biodiversity	12
5.3.	Causes of Biodiversity loss	
5.4	Biodiversity conservation	

References:

- Flannery, T. 2015. The Eternal Frontier: An Ecological History of North America and Its Peoples. Grove/Atlantic, Inc.
- Gavin, D. G. 2012. Biogeography. Pages 77–89 in J. P. Stoltman, editor. 21st Century Geography: A Reference Handbook. SAGE Publications, Thousand Oaks, CA.
- Jackson, S. T. 2004. Quaternary biogeography: Linking biotic responses to environmental variability across timescales. Pages 47–65 in M. V. Lomolino and L. R. Heaney, editors. Frontiers of Biogeography: New Directions in the Geography of Nature. Sinauer, Sunderland, MA.
- Lomolino, M. V., B. R. Riddle, J. H. Brown, and R. J. Whittaker. 2010. Biogeography. Fourth Edition. Sinauer Associates, Sunderland, MA.
- MacDonald, G. M. 2003. Biogeography: Space, Time and Life. Wiley, New York.
- McCarthy, D. 2011. Here Be Dragons: How the study of animal and plant distributions revolutionized our views of life and Earth. OUP Oxford.
- Molles, M. C. 1999. Ecology: Concepts and Applications. WCB/McGraw-Hill.
- Perry, D. A., R. Oren, and S. C. Hart. 2013. Forest Ecosystems. JHU Press.

Time	: 3 hours		Marks; 100	
N.B.	N.B. 1. All questions are compulsory and carry equal marks.			
	2. Use of Map Stencils is permitted.			
	3. Draw sketches and diagrams wherever	necessary.		
Q. 1	Long answer q	uestion on Unit-I	20 Marks	
		OR		
	Long answer question	on unit –I for 20 Marks	20 Marks	
		or		
	Two short answer qu	estions each 10 Marks		
Q. 2	Long answer qu	lestion on Unit-II	20 Marks	
		OR		
	Long answer question	on unit –II for 20 Marks	20 Marks	
		or		
	Two short answer qu	estions each 10 Marks		
Q. 3	Long answer qu	estion on Unit-III	20 Marks	
	OR			
	Long answer question	on unit –III for 20 Marks	20 Marks	

QUESTION PAPER PATTERN:

	or	
	Two short answer questions each 10 Marks	
Q. 4	Long answer question on Unit-IV	20 Marks
	OR	
	Long answer question on unit –IV for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	
Q. 5	Long answer question on Unit-V	20 Marks
	OR	
	Long answer question on unit –V for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	

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Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)

T.Y.B.A. / T.Y.B.Sc. Geography, Semester – VI, Paper – VIII-B:

Subject Title: SOCIAL GEOGRAPHY

COURSE CODE: _____(2018-19), Credit: __04____

	UNIT – I: Introduction to Social Geography	TOTAL LECTURES
1.1	Social Geography: Definitions, Nature, Scope and importance	
1.2	Branches and Approaches in Social Geography	12
1.3	Concept of Social Space and Socio-cultural Regions	12
1.4	Globalisation: The Process of Social and Spatial Change	
2.1	Race: Concept and Basis of Classification and distribution	
2.2	Religion: Characteristics, Distribution and Spread of Major Religions in the World	13
2.3	Language: Characteristics and Distribution of Major Linguistic Families in the World	12
2.4	Tribes: Concept, Characteristics and Patterns of Distribution of Major Tribes in the World	

UNIT – III: : Elements of Social Geography –India		
3.1	Race: Major races and its distribution in India	-
3.2	Religion: Major Religions and its distribution and its distribution in India	12
3.3	Language: Major Linguistic Families in India	
3.4	Tribes: Distribution of Scheduled Tribes in India	
	UNIT - IV: Social Geography of City	
4.1	Social groups – identification and distribution	
4.2	Residential segregation	12
4.3	Functional segregation	
4.4	Social issues in the city	
	UNIT – V: Contemporary Issues in India	
5.1	Religion related social issues	
5.2	Language related social issues	12
5.3	Patterns of gender issues in India	
5.4	Socio-economic problems of indigenous communities in India	

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- Bannerjee-Guha, S. (2004): "Space, Society and Geography", Rawat Publications, Jaipur
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- Warburton, J. (2013): "Corruption as Social Process", in P. Larmour and N. Wolanin (eds), *Corruption and Anti-Corruption*", ANU E Press, Downloaded from <u>http://press-files.anu.edu.au/downloads/press/p228301/pdf/ch13.pdf</u>
- www.nptel.ac.in/courses/109103022/40

QUESTION PAPER PATTERN:

Time	: 3 hours		Marks; 100		
N.B.	1. All questions are compulsory and carry	y equal marks.			
	2. Use of Map Stencils is permitted.				
	3. Draw sketches and diagrams wherever	r necessary.			
Q. 1	Long answer q	uestion on Unit-I	20 Marks		
		OR	· ·		
	Long answer question	on unit –I for 20 Marks	20 Marks		
		or			
	Two short answer qu	estions each 10 Marks			
Q. 2	Long answer qu	uestion on Unit-II	20 Marks		
		OR			
	Long answer question	on unit –II for 20 Marks	20 Marks		

	or	
	Two short answer questions each 10 Marks	
Q. 3	Long answer question on Unit-III	20 Marks
	OR	
	Long answer question on unit –III for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	
Q. 4	Long answer question on Unit-IV	20 Marks
	OR	
	Long answer question on unit –IV for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	
Q. 5	Long answer question on Unit-V	20 Marks
	OR	
	Long answer question on unit –V for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	

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Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)

T.Y.B.A. / T.Y.B.Sc. Geography, Semester – VI, Paper: VIII-C

Subject Title: GEOGRAPHY OF TRANSPORT

COURSE CODE:_____, Credit: _04_____

	Unit-I : Introduction to Transport Geography	TOTAL LECTURES
1.1	Concept and Definition of Geography of Transport	
1.2	Nature and Scope Geography of Transport	13
1.3	Definition of Distance and its types, Factors affecting on Transportation	12
1.4	Significance of the study of Geography of Transport	

	Unit-II – Transport net work system	
2.1	Transport net work system – structure and properties	
2.2	Application of graph theory measures	12
2.3	Location of routes and efficiency of network	
2.4	Conflicting aspects of decision making	
	Unit-III · Evolution of Modes of Transport	
2.1	Evolution of transport network and their environment	-
3.1	Evolution of transport network and then environment	
3.2	Phases of growth and development of different modes of transport	12
3.3	Factors influencing comparative cost structures and locational responses	
3.4	Global patterns of land, water and air transports	
	Unit-IV : Theoretical Framework of Transport	
4 1	Connectivity and its Measurement	-
4.1	Connectivity and its inteastrement	
4.2	Accessibility and its Measurement	12
4.3	Taffe's model	
4.4	Gravity model	
	Unit-V: Transportation Issues in India	
5.1	Issues associated with roadways transport network	
5.2	Issues associated with railways transport network	12
5.3	Issues associated with water transport development]
5.4	Issues associated with air transport development	1

REFERENCES:

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- 2. Hagget, F and Chorley, R.J. Network Analysis', Edward Arnold, London, 1968.
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- 10. Ullman E.L.: American Commodity Flow University of Washington Press 1957.
- 11. White H.P. and Senior, M.L. Transport Geography, Longman, London, 1983.

QUESTION PAPER PATTERN:

Time	: 3 hours		Marks; 100
N.B.	1. All questions are compulsory and carr	y equal marks.	
	2. Use of Map Stencils is permitted.		
	3. Draw sketches and diagrams wherever	r necessary.	
Q. 1	Long answer q	uestion on Unit-I	20 Marks
		OR	
	Long answer question	on unit –I for 20 Marks	20 Marks
		or	
	Two short answer qu	estions each 10 Marks	
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Q. 2	Long answer qu	lestion on Unit-II	20 Marks
OR			
	Long answer question	on unit –II for 20 Marks	20 Marks
		or	
	Two short answer qu	lestions each 10 Marks	
0.3	Long answer at	lestion on Unit-III	20 Marks
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	Long answer question	on unit –III for 20 Marks	20 Marks
	Long unswer question	or	20 Warks
	Two short answer qu	estions each 10 Marks	
Q. 4	Long answer qu	lestion on Unit-IV	20 Marks
		OR	
	Long answer question	on unit –IV for 20 Marks	20 Marks

	or Two short answer questions each 10 Marks	
Q. 5	Long answer question on Unit-V	20 Marks
OR		
	Long answer question on unit –V for 20 Marks	20 Marks
	or	
	Two short answer questions each 10 Marks	



University of Mumbai



CIRCULAR :-

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities and Science & Technology Faculties is invited to this office Circular No. UG/16 of 2018-19, dated 14th June, 2018, relating to syllabus as per the (CBCS) for T.Y.B.A./T.Y.B.Sc. in Geography (Sem V & VI).

They are hereby informed that the recommendations made by the Board of Studies in Geography at its meeting held on 19th December, 2018 have been accepted by the Academic Council at its meeting held on 26th December, 2018 <u>vide</u> item No. 4.19 and that in accordance therewith, the matter of distribution of marks of T.Y.B.A./T.Y.B.Sc. Semester VI Paper – IX Research Methodology in Geography has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website <u>www.mu.ac.in</u>).

MUMBAI - 400 032

(Dr. Ajay Deshmukh) REGISTRAR

To

The Principals of the affiliated Colleges, the Head of the University Departments and Directors of the recognized Institutions in Humanities and Science & Technology Faculties. (Circular No.UG/334of 2017-18 dated 9th January, 2018.)

A.C/4.19/26/12/2018

No. UG/ 15 -A of 2019-20 MUMBAI-400 032 Copy forwarded with Compliments for information to:-

14th May, 2019

- 1) The I/c Dean, Faculty of Humanities,
- 2) The I/c Dean, Faculty of Science & Technology,
- 3) The Chairman, Board of Studies in Geography,
- 4) The Director, Board of Examinations and Evaluation,
- 5) The Director, Board of Students Development,
- 6) The Co-ordinator, University Computerization Centre,

al ons

(Dr. Ajay Deshmukh) REGISTRAR

University of Mumbai Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSCS) T.Y.B.A. / T.Y.B.Sc. Geography, Semester – VI Paper – IX : RESEARCH METHODOLOGY IN GEOGRAPHY Course Code:

Syllabus

Paper – IX	RESEARCH METHODOLOGY IN GEOGRAPHY	No. of
UNIT I	Research Methodology in Geography	Q
	Research in Geography: Concept Types Steps and Significance	,
1.1	Research Methodology: Meaning and Types, Steps and Diginitednee	
1.2	Defining the Descered Broblem: Meening, Need and Techniques	
1.5	Defining the Research Floblent. Meaning, Need and Techniques	
1.4	Research Designs: Concept, Need and Features	
LINIT II	Data Collection and Dupperging	0
	Data Collection and Processing	9
2.1	Sample Design, Measurement and Scaling	
2.2	Data Collection in Geography: Types (Primary and Secondary) and Methods	
	(Observation, Questionnaire, Schedule, Interview, etc.)	
2.3	Role of Internet in Research: Online Research Referencing (Shodhganga,	
	INFLIBNET, ResearchGate, Academia, Mendeley, etc.)	
2.4	Data Processing: Editing, Coding, Classification and Tabulation	
UNIT III	Data Analysis	9
3.1	Data Analysis: Meaning, Significance and Types	
3.2	Using MS-Excel and SPSS for Data Analysis: Graphical, Descriptive and	
	Inferential Statistical Representation	
3.3	Hypothesis: Meaning, Types, Levels of Significance, Degrees of Freedom	
	and Errors	
3.4	Statistical Techniques for Hypothesis Testing	
UNIT IV	Digital Data Analysis and Research Report Writing	9
4.1	Techniques of Spatial and Non-spatial data Analysis in GIS Softwares (O-	
	GIS)	
4.2	Techniques of Data Analysis in Satellite Image Processing Softwares	
	(SAGA)	
4.3	Basics of Research Report Writing: Lavout, Structure, Language,	
_	Bibliography, References and Footnotes	
4.4	Ethics in Research: Plagiarism	
UNIT V	Preparation of Research Report	9
5.1	Research Report on any One Theme in Physical Geography or Human	
	Geography	

No. of	University of Mumbai	Marks
Questions	Revised Syllabus w.e.f. Academic Year: 2018-19 (CBSCS)	
	T.Y.B.A. / T.Y.B.Sc. Geography, Semester – VI	
	Paper – IX : RESEARCH METHODOLOGY IN GEOGRAPHY	
	Course Code:	
	Marking Scheme	
Q.1	Unit - I	18
Q.2	Unit - II	18
Q.3	Unit - III	18
Q.4	Unit - IV	18
Q.5	Unit – V (Research Report)	18
Q.6	Journal and Viva	10
Total Marks		100

References:

- 1. K.L. Narasimha Murthy (2014): Research Methodology in Geography(A Text Book), Concept Publishing company Pvt Ltd, New Delhi
- 2. H. N. Misra, Vijai P. Singh(2002): Research Methodology in Geography Social, Spatial and Policy Dimensions, Rawat Publications, Jaipur and New Delhi
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AC 24 / 06 / 2016 Item no.4.21

UNIVERSITY OF MUMBAI Revised syllabus for Sem I and II Program: B. A. **Course: History & Archaeology** (Choice Based Credit System with effect from the Academic year 2016-17)

F.Y.B.A. (History) History of Modern India (1857-1947) Semester - I

Objectives:-

The course is designed to make the student aware about the making of modern India and the struggle for independence.

Module I: Growth of Political Awakening

- (a) Revolt of 1857 Causes and Consequences
- (b) Contribution of the Provincial Associations
- (c) Foundation of Indian National Congress.

Module II: Trends in Indian Nationalism

- (a) Moderates
- (b) Extremists
- (c) Revolutionary Nationalists

Module III: Gandhian Movements

- (a) Non Co-operation Movement
- (b) Civil Disobedience Movement
- (c) Quit India Movement

Module IV: Towards Independence and Partition

- (a) The Indian Act of 1935
- (b) Attempts to Resolve the Constitutional Deadlock -The Cripps Mission, The Cabinet Mission and the Mountbatten Plan
- (c) Indian Independence Act and Partition

Semester –II History of Modern India: Society and Economy.

Module I: Socio Religious Reform Movements: Reforms and Revival

- (a) Brahmo Samaj, Arya Samaj and Ramakrishna Mission
- (b) Satyashodhak Samaj, Aligarh movement and Singh Sabha Movement.
- (c) Impact of Reform Movements

Module II: Education, Press and Transport

- (a) Introduction of Western Education and its Impact
- (b) Development of Press
- (c) Transport and Communications

Module III: Impact of the British Rule on Indian Economy.

- (a) Revenue Settlements, Commercialisation of Agriculture
- (b) Drain Theory
- (c) Deindustrialisation and Growth of Large Scale Industry

Module IV: Nationalism and Social Groups: interfaces.

- (a) Women
- (b) Dalits
- (c) Peasants and Tribals

References:

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Bandyopadhyay Sekhar, *From Plassey to Partition, A History of Modern India*, Orient Longman, New Delhi, 2004.

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B.A. HISTORY

Question Paper Pattern For F.Y.B.A. History Semester I & II

As per University rules and guidelines.

AC / /2017 Item no.

UNIVERSITYOFMUMBAI



Revised Syllabus for Sem III and Sem IV

Program: B. A.

Course: History and Archaeology

(ChoiceBased Credit System with effect from the Academic year 2017-2018)

SYBA – History Paper-II Landmarks in World History, 1300 A.D.-1945 A.D.SEMESTER–

III

Objectives: To enable the students to comprehend the transition of Europe from medieval to modern times and its impact on the world. To provide accurate knowledge of the most significant events and personalities of the period under study and encourage understanding of the making of the modern world

Module I: The Modern Age

- (a) Renaissance
- (b) Geographical Discoveries
- (c) Reformation

Module II: Age of Revolutions

- (a) American Revolution
- (b) French Revolution
- (c) Industrial Revolution

Module III: Nationalism and Imperialism

- (a) Formation of Nation-States in Europe
- (b) Nationalist Movements in Italy and Germany
- (c) Imperialist Expansion in Asia

Module IV: World in Transition (1914-1919)

- (a) World War I
- (b) Russian Revolution
- (c) League of Nations

SEMESTER-IV

Module I: Inter War Period

- (a) Kemal Pasha and Modernization of Turkey
- (b) Reza Shah and Reforms in Iran
- (c) Birth of Israel

Module II: Rise of Dictatorships

- (a) Fascism
- (b) Nazism
- (c) Militarism in Japan

Module III: World War II and Efforts for Peace

- (a) World War II
- (b) The Atlantic Charter
- (c) United Nations Organization.

Module IV: Nationalist Movements in Asia

- (a) Dr. Sun-Yat-Sen and China
- (b) Mahatma Gandhi and India
- (c) Dr. Sukarno and Indonesia

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VaidyaSuman and ShantaKothekar, Adhunik Jag, Vol. I and II, ShriSainathPrakashan, Nagpur 2000.

SYBA History- Paper- III Ancient India from Earliest Times to 1000 A.D.

SEMESTER-III

Objectives: To acquaint the students with different sources of Ancient Indian History. To enable the students to understand the political, socio-economic and cultural developments in the period under study and appreciate the rich cultural heritage in India

Module I: Sources of Ancient India and their Importance

- (a) Archaeological
- (b) Literary
- (c) Foreign Travellers

Module II: Indus Valley Civilization

- (a) Social and Economic Life
- (b) Religious Life
- (c) Town Planning and Decline of the Civilization

Module III: Vedic Age

- (a) Janapada
- (b) Social and Economic Life
- (c) Religion

Module IV:India after 6th Century B.C.

- (a) Administration of Mahajanapadas
- (b) Jainism and Buddhism
- (c) Persian and Greek Invasions

SEMESTER-IV

Module I: Mauryan and Post- Mauryan Period (322 B.C. to 320 A.D.)

- (a) Chandragupta and Ashoka
- (b) Mauryan Administration
- (c) Post Mauryan Dynasties- Sungas, Kushanas and Satavahanas

Module II: Gupta Age (320 A.D. to 600 A.D.)

- (a) Imperial Expansion: Chandragupta I, Samudragupta and Chandragupta II
- (b) Administration
- (c) Classical Age

Module III:Post Gupta Period (600A.D. to 1000A.D.)

- (a) The Age of Harshavardhan
- (b) The Rise of Rajputs
- (c) Arab Invasion of Sind

Module IV: Major Dynasties of Deccan and South India

- (a) Chalukyas of Badami and Rashtrakutas
- (b) Pallavas and Cholas
- (c) Spread of Indian Culture in South-East Asia

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B.A. HISTORY

Question Paper Pattern for S.Y.B.A. History

Semester III and Semester IV

As per University rules and guidelines

AC / /2018 Item no.


Revised Syallbus

Semester V and Semester VI Programme: B.A. Course: History and Archaeology

(Choice Based Credit System with effect from the Academic year 2018-2019)

As per University rules and guidelines for Faculty of Humanaities

Faculty of Humanities TYBA (Choice Based Credit System, CBCS) Semester V and Semester VI Guidelines With Effect From 2018-2019

Syllabus Structure:

- 1. In TYBA (CBCS) in Sem V and Sem VI, the Core Courses will be Core Courses IV, V, VII and VIII.
- The Elective Courses will be Elective Courses VI and IX which will be partially Project Based Courses. The Boards of Studies may offer choices in the Elective Courses VI and IX.
- 3. In Sem V and Sem VI, each Course namely Core Courses IV, V, VII and VIII and Elective Courses VI and IX will carry 4 Credits per Course per Semester.

Evaluation:

- Core Courses: The Core Courses IV, V, VII and VIII will be theory based Core Courses. The University of Mumbai will conduct the Sem V and Sem VI examinations of 100 marks per Core Course. In Sem V and Sem VI for all the above Core Courses, the student will have to secure a minimum of 40% marks in aggregate per Core Course.
- 2. Elective Courses: The Elective Courses VI and IX will be Electives and Choices of Electives may be offered by the various Board of Studies. The University of Mumbai will conduct the Sem V and Sem VI examination for Elective Courses VI and IX of 80 marks per Elective Course. The Elective Courses namely Elective Courses VI and IX will be partially Project Based Courses. In Sem V and VI, for Elective Course VI and for Elective Course IX, the Colleges will conduct the evaluation of a Project of 20 marks

each and will send the marks to the University of Mumbai as per University of Mumbai guidelines.

- 3. The total marks of the Elective Course VI and Elective Course IX will be 100 marks each that is 80 marks for Theory Examination conducted by University of Mumbai and 20 marks for Project evaluated by the concerned college Faculty in the subject.
- 4. In Sem V and Sem VI, the student will have to submit a Project for Elective Course VI and Elective Course IX in the College before appearing for the University Examination. The last date of submission of the Project will be officially declared by the College.
- 5. In Sem V and Sem VI, the Project topic will be based on the Syllabus of the respective Elective Courses that is Elective Course VI and Elective Course IX. The students will be given the choice of choosing the topic of the project in consultation with the Faculty Member teaching the respective Elective Course. The list of students along with the topics chosen by the students will be displayed by the College in the beginning of the Semester.
- 6. The Project work will be carried out by the student with the guidance of the concerned Faculty Member who will be allotted to the student as the Guide for the Project.
- 7. In Sem V and Sem VI, for Elective Courses VI and IX, the student will have to secure a minimum of 40% marks in aggregate and a minimum of 40% in each component of assessment i.e. 08 out of 20 marks in Internal Evaluation of Project in Elective Course VI and Elective Course IX and 32 out of 80 marks in University Examination of Elective Course VI and Elective Course IX.

Note: All other rules regarding Standard of Passing, ATKT, etc., will be as per those decided by the Faculty of Humanities passed by the Academic Council from time to time.

Faculty of Humanities TYBA (Choice Based Credit System, CBCS) Semester V and Semester VI Question Paper Pattern for T.Y.B.A (CBCS) for Core Courses IV,V,VII and VIII As per University rules and guidelines With Effect From 2018-2019	
	(Time: 3 Hours)
Note: 1. Attempt all questions2. All questions carry equal marks	(Total = 100 marks)
Q.1 (Based on Module I) a. or	(20 marks)
D. Q.2 (Based on Module II) a. or	(20 marks)
b. Q.3 (Based on Module III) a. or	(20 marks)
b. Q.4 (Based on Module IV) a. or	(20 marks)
b. Q.5 Attempt any two short notes. (Based on Module I, II, III and IV) a.	(20 marks)
ь. с. d.	

[The Question paper Pattern for the Revised Syallbus for Semester V and Semester VI, Programme: B.A; Course: History and Archaeology (Choice Based Credit System with effect from the Academic year 2018-2019) will be as per University rules and guidelines for the Faculty of Humanaities].

Faculty of Humanities
TYBA
(Choice Based Credit System, CBCS)
Semester V and Semester VI
Question Paper Pattern for T.Y.B.A (CBCS)
for Elective Courses VI and IX
As per University rules and guidelines
With Effect From 2018-2019

	(Time: 2 & 1/2 Hours)
Note: 1. Attempt all questions2. All questions carry equal marks	(Total = 80 marks)
Q.1 (Based on Module I) a.	(20 marks)
or	
b.	
Q.2 (Based on Module II) a.	(20 marks)
or	
b.	
Q.3 (Based on Module III) a.	(20 marks)
or	
b.	
Q.4 (Based on Module IV) a.	(20 marks)
or	
b.	

[The Question paper Pattern for the Revised Syallbus for Semester V and Semester VI, Programme: B.A; Course: History and Archaeology (Choice Based Credit System with effect from the Academic year 2018-2019) will be as per University rules and guidelines for the Faculty of Humanaities].

SYLLABUS

SEMESTER – V			
Course	Title of the Course	Credits	
Core Course IV	History of Medieval India (1000 CE – 1526 CE)	4 Credits	
Core Course V	History of Modern Maharashtra (1818 CE-1960 CE)	4 Credits	
Elective Course VI. A (With Project)	Introduction to Archaeology	4 Credits	
Elective Course VI B (With Project)	Media and Communication	4 Credits	
Core Course VII	History of the Marathas (1630 CE -1707 CE)	4 Credits	
Core Course VIII	History of Contemporary World (1945 CE -2000 CE)	4 Credits	
Elective Course IX A (With Project)	Research Methodology and Sources of History	4 Credits	
Elective Course IX B (With Project)	Introduction to Heritage Tourism	4 Credits	
		Total 24 Credits	

SEMESTER – VI			
Course	Title of the Course	Credits	
Core Course IV	History of Medieval India (1526 CE – 1707 CE)	4 Credits	
Core Course V	History of Contemporary India (1947 CE- 2000 CE)	4 Credits	
Elective Course VI A	Introduction to Museology and Archival Science	4 Credits	
(With Project)			
Elective Course VI B	Media and Communication	4 Credits	
(With Project)			
Core Course VII	History of the Marathas (1707 CE - 1818 CE)	4 Credits	
Core Course VIII	History of Asia (1945 CE -2000 CE)	4 Credits	
Elective Course IX A	Research Methodology and Sources of History	4 Credits	
(With Project)			
Elective Course IX B	Heritage Tourism in Maharashtra	4 Credits	
(With Project)			
		Total 24 Credita	
		24 Credits	

SEMESTER -V

Core Course IV- History of Medieval India (1000 CE-1526CE)

Objectives:

- 1. To acquaint the students with the history of early Medieval India that laid the foundation of the Sultanate in India.
- 2. To study the contribution of Vijayanagar and Bahamani kingdoms to Medieval Indian History.
- 3. To examine the administrative, socio-economic and cultural aspects of Medieval India.

Module I: Foundation, Expansion and Decline of Delhi Sultanate

- (a) Socio-economic and political conditions on the eve of the Turkish Invasion
- (b) Rise and Decline of Slave dynasty, Khilji Dynasty
- (c) Tughlaq, Sayyid and Lodi Dynasty

Module II: Administrative Structure of the Sultanate

- (a) Central Administration and Iqta system
- (b) Administrative and Military Reforms of Ala-ud-din Khilji
- (c) Reforms of Firozshah Tughlaq and Mohammed bin Tughlaq

Module III: Emergence of Vijaynagar and Bahamani Kingdoms

- (a) Rise, Growth and Decline of Vijaynagar and Bahamani Kingdoms
- (b) Administration, Socio-Economic and Cultural conditions of Vijayanagar Empire
- (c) Administration, Socio-Economic and Cultural conditions of Bahamani Kingdom

Module IV: Society, Economy, Religion and Culture of Delhi Sultanate

- (a) Socio-economic and religious life
- (b) Education and Literature
- (c) Art and Architecture

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SEMESTER -V

Core Course V- History of Modern Maharashtra (1818 CE-1960 CE)

Objectives:

- 1. To acquaint students with regional history.
- To understand political and socio-economic developments during the 19th and 20th centuries.
- 3. To create understanding of the movement that led to the formation of Maharashtra.

Module I: Beginning of the British Rule

- (a) Socio-Economic conditions of Maharashtra in 19th Century
- (b) Administration and Judiciary
- (c) Tribal and Peasant Uprisings

Module II: Socio- Economic Awakening

- (a) Mahatma Jotirao Phule Satya Shodhak Samaj and Universal Humanism
- (b) Prarthana Samaj
- (c) Contribution of thinkers of Maharashtra to Economic Nationalism

Module III: Political Developments in Maharashtra (1885-1960)

- (a) Moderates, Extremists and Revolutionaries in Maharashtra
- (b) Response to Gandhian Movements in Maharashtra
- (c) Samyukta Maharashtra Movement

Module IV: Emergence of New Forces

- (a) Contribution of Reformers in Education
- (b) Contribution of Reformers towards Emancipation of Women
- (c) Contribution of Reformers towards Upliftment of Depressed Classes: V. R. Shinde, Rajarshi Shahu Maharaj and Dr. B.R. Ambedkar

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SEMESTER -V

Core Course VI A – Introduction to Archaeology

Objectives:

- 1. To understand the basic facets of Archaeology.
- 2. To evaluate the importance of Epigraphy.
- 3. To study the importance of Numismatics as an important source of history.

Module I: Aims and Methods of Archaeology

- (a) Definition, Aims and Development of Archaeology in India
- (b) Archaeology and History; Archaeology and Other Sciences
- (c) Field Archaeology: Methods of Exploration, Excavation and Dating Antiquities; Significance of Archaeology

Module II: Pre-Historic, Proto-Historic and Early Historical Periods

- (a) Palaeolithic and Mesolithic Periods
- (b) Neolithic and Chalcolithic Periods
- (c) Megalithic and Early Historical Periods

Module III: Epigraphy

- (a) Definition and History of Indian Epigraphy
- (b) Types of Inscriptions and their significance
- (c) Evolution of Brahmi and Kharosthi Scripts; Edicts of Ashoka

Module IV: Numismatics

- (a) Definition and History of Indian Numismatics
- (b) Ancient Indian Coinage: Punch-Marked, Satavahana, Western Kshatrapas, Kushana and Gupta Coins
- (c) Contribution of Numismatics to Indian History

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SEMESTER -V

Elective Course: Paper VI B – Media and Communication

Objectives:

- 1. To inform students about the Fundamentals of Communication.
- 2. To introduce students to Oral Traditions in Communication and the field of Journalism.
- 3. To familiarize students with the various types of Audio-Visual Media.

Module I: Fundamentals of Communication

- (a) Definition, Evolution and Significance of Communication
- (b) Process, Types, Importance and Need of Communication
- (c) Barriers to Communication

Module II: Oral Traditions in Communication

- (a) Folk Theatre Importance, Marathi Theatre
- (b) Major Dance Forms Folk and Classical
- (c) Folk Expression Songs, Stories and Puppetry

Module III: Journalism

- (a) Definition, Evolution and Types of Journalism
- (b) Role and Functions of Reporters, Sub-Editor and Editor
- (c) Freedom of Press Importance, Ethics and Current Trends

Module IV: Audio-Visual Media

- (a) Photography Types, Scope and Limitations
- (b) Cinema Growth, Development and Technical Aspects
- (c) Types of Films and Global Indian Cinema

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SEMESTER -V

Core Course VII- History of the Marathas (1630 CE – 1707CE)

Objectives:

- 1. To introduce the students to the regional history of Maharashtra.
- 2. To familiarize students with the literary sources of the history of the Marathas.
- 3. To help students to understand the forces leading to the establishment of Maratha power under Chhatrapati Shivaji Maharaj.

Module I: Introduction to Maratha History

- (a) Marathi, Persian and European Sources
- (b) Deccan in the 17th century Geo-Political and Economic conditions
- (c) Socio-Cultural conditions; Maharashtra Dharma

Module II: Establishment of Swarajya

- (a) Shivaji's relations with Bijapur
- (b) Shivaji's relations with the Mughals
- (c) Shivaji's relations with the Europeans

Module III: Period of Consolidation and Crisis

- (a) Coronation and its significance; Shivaji's Karnatak Campaign
- (b) Sambhaji, Rajaram and Tarabai
- (c) Civil War : Tarabai and Shahu

Module IV: Administration during the Royal Period

- (a) Civil Administration
- (b) Revenue and Judicial Administration
- (c) Military Administration

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SEMESTER -V

Core Course VIII: History of Contemporary World (1945 CE – 2000 CE)

Objectives:

- 1. To trace some of the major events of post-World War II period.
- 2. To understand the significance of these events.
- 3. To comprehend the ways in which events of the latter half of the twentieth century have influenced the present.

Module I: Cold War (1945-1985)

- (a) Meaning, Causes of Cold War and Security Pacts
- (b) Conflicts in Cold War: Germany, Korea and Cuba
- (c) Economic Revival of Western Europe; Soviet Union's Relations with Eastern Europe

Module II: Europe, U.S.S.R and U.S.A. (1985-2000)

- (a) Disintegration of U.S.S.R
- (b) Re-drawing of political borders of Germany, Yugoslavia and Czechoslovakia; Emergence of the European Union (EU) in Western Europe
- (c) U.S.A as the dominant world power

Module III: Movements for Equal Rights and Challenging the Bipolar World (1945-2000)

- (a) Campaigns within and outside South Africa against Apartheid
- (b) Civil Rights Movement in U.S.A
- (c) Non-Aligned Movement

Module IV: Major Trends

- (a) Globalisation
- (b) Sustainable Development
- (c) Women's Liberation Movement

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SEMESTER -V

Elective Course IX A - Research Methodology and Sources of History

Objectives:

- 1. To teach students basics of research methodology in history with a view to promote historical research.
- 2. To understand the various kinds of sources of history and its interpretation.
- 3. To acquaint students with the new trends and approaches in history writing.

Module I: History: Definition and Scope

- (a) History: Meaning, Scope and Nature
- (b) Importance of History
- (c) History and Auxiliary Sciences

Module II: Sources of History

- (a) Sources: Nature and Types
- (b) Authenticity and Credibility of Sources
- (c) Importance of Archival Sources

Module III: Research Methods in History

- (a) Methods of Data Collection
- (b) Interpretation and Generalisation of Sources
- (c) Footnotes and Bibliography

Module IV: Sources for Writing Indian History

- (a) Sources for Ancient Indian History
- (b) Sources for Medieval Indian and Maratha History
- (c) Sources for Modern and Contemporary Indian History

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SEMESTER -V

Elective Course IX B - Introduction to Heritage Tourism

Objectives:

- 1. To develop an understanding of Heritage Tourism amongst students.
- 2. To introduce the students to new trends in Heritage Tourism.
- 3. To prepare the students for careers in Tourism industry.

Module I - Understanding Heritage Tourism

- (a) Meaning and Historical Perspective of Tourism
- (b) Concept, Scope and Significance of Heritage Tourism
- (c) National Policies to promote Heritage Tourism and World Heritage Sites in India

Module II - Forms of Heritage Tourism in India

- (a) Natural: Beaches and Sanctuaries
- (b) Built Heritage: Forts, Monuments and Public Buildings
- (c) Cultural: Pilgrimage Sites, Fairs and Festivals

Module III - New Trends in Heritage Tourism

- (a) Entertainment: Performing Arts and Cinema
- (b) Eco-tourism and Adventure Tourism
- (c) Public Private Partnership in Heritage Tourism

Module IV - Heritage Management

- (a) Heritage Legislation
- (b) Role of Tourism Industry
- (c) Role of Museums and Heritage Conservation Societies

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SEMESTER -VI

Core Course: IV- History of Medieval India (1526 CE-1707CE)

Objectives:

- 1. To acquaint the students with the history of India since the emergence of the Mughal rule.
- 2. To understand administration of the Mughal Empire.
- 3. To study the rise of the Maratha Power.

Module I: Foundation, Expansion and Decline of the Mughal Rule

- (a) India on the eve of Mughal Rule; Invasion of Babur
- (b) Humayun, Shershah and Akbar
- (c) Jahangir, Shahjahan and Aurangzeb

Module II: Administrative Structure of the Mughals

- (a) Central and Provincial Administration
- (b) Mansabdari System
- (c) Revenue and Judicial system

Module III: Rise of the Maratha Power

- (a) Shivaji and Foundation of Swarajya
- (b) Administration of Shivaji
- (c) Sambhaji, Rajaram and Tarabai

Module IV: Society and Economy, Religion and Culture of the Mughal Rule

- (a) Society and Economy
- (b) Religion, Education and Literature
- (c) Art and Architecture
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SEMESTER -VI

Core Course V – History of Contemporary India (1947 CE- 2000 CE)

Objectives:

- 1. To understand the process of making the Constitution and the Integration and Reorganization of Indian States.
- 2. To acquaint the students with the political developments in India after Independence.
- 3. To comprehend the socio-economic changes and progress in science and technology in India.

Module I: The Nehru Era (1947 CE – 1964 CE)

- (a) Features of Indian Constitution
- (b) Integration and Reorganization of Indian States
- (c) Socio- Economic Reforms and Foreign Policy

Module II: Political, Social and Economic Developments (1964 CE – 1984 CE)

- (a) Political Developments after Nehru Era; Green Revolution.
- (b) Abolition of Privy Purses and Titles; Nationalization of Banks; The Emergency
- (c) Janata Government; Return of Congress to power ; Foreign Policy

Module III: Political, Social and Economic Developments (1984 CE – 2000 CE)

- (a) Political Developments
- (b) Relations with Neighboring Countries
- (c) Liberalization, Privatization and Globalization

Module IV: Emerging Trends

- (a) Communalism and Separatist Movements
- (b) Women Empowerment and Policy of Reservation
- (c) Science, Technology and Education

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SEMESTER -VI

Elective Course VI A - Introduction to Museology and Archival Science

Objectives:

- 1. To inform the students about the role of Museums in the preservation of Heritage.
- 2. To understand the importance of Archival Science in the study of History.
- 3. To encourage students to pursue careers in various Museums and Archives in India and abroad.

Module I: Museology

- (a) Definition of Museology, Museum Movement in India
- (b) Role of the Curator
- (c) Types of Museums

Module II: Museums

- (a) Methods of Collection and Conservation of Objects in Museums
- (b) Preservation Techniques and Types of Exhibitions
- (c) Changing Role of Museums: In-house and Out-reach activities of Museums

Module III: Archival Science

- (a) Meaning, Scope, Objectives and Classes of Archives
- (b) Importance of Archives: Value of Records as Sources of History
- (c) Classification of Records

Module IV: Management of Archives

- (a) Appraisal and Retention of Records
- (b) Conservation and Preservation of Records
- (c) Digital Archives

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SEMESTER -VI

Elective Course VI B - Media and Communication

Objectives:

- 1. To acquaint students with the various types of Media and Communication.
- 2. To inform students of the developments in Information Technology.
- 3. To understand the impact of Media on Society.

Module I: Radio and Television

- (a) Radio History and Current Trends
- (b) Television History and Current Trends
- (c) Careers in Radio and Television

Module II: Advertising and Public Relations

- (a) Definition, Functions and Responsibilities of Public Relations Officer
- (b) Advertising Definitions and Types
- (c) Careers and Opportunities in Advertising and Public Relations

Module III: Revolution in Information Technology

- (a) Social Media
- (b) Electronic Gadgets Uses and Misuses
- (c) Cyber Crimes and Cyber Laws

Module IV: Impact of Media

- (a) Impact on Society Children, Women, Youth
- (b) Challenges Privatization, Global Competition, Moral Issues, Public Censorship
- (c) Media and Global Issues Human Rights, Environment

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SEMESTER -VI

Core Course VII: History of the Marathas (1707 CE – 1818 CE)

Objectives:

- 1. To enable the students to understand the processes that led to the expansion of the Maratha Power.
- 2. To appreciate the contribution of the Marathas in the national politics of the 18th century.
- 3. To develop an understanding of the society and culture in Maharashtra in the 18th century.

Module I: Expansion of the Maratha Power

- (a) Rise of the Peshwas: Balaji Vishwanath
- (b) Peshwa Bajirao I
- (c) Maratha Confederacy

Module II: Consolidation of the Maratha Power

- (a) Peshwa Balaji Bajirao (Nanasaheb)
- (b) Third Battle of Panipat: causes and consequences
- (c) Defeat of the Marathas and significance of the Third Battle of Panipat

Module III: Post Panipat Revival and Downfall

- (a) Peshwa Madhavrao I
- (b) Barbhai Council
- (c) Downfall of the Maratha Power

Module IV: Administrative and Socio-Cultural Developments

- (a) Peshwa Administration: Civil, Revenue and Military
- (b) Society under the Peshwas Religion, Caste and Position of Women
- (c) Cultural Developments: Literature, Art and Architecture

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SEMESTER -VI

Core Course VIII - History of Asia (1945 CE-2000 CE)

Objectives:

1. To acquaint the students with some of the major changes that occurred in Asia after World War II.

2. To understand the ways in which Asian nations resisted and defied the control of the West.

3.To comprehend some of the trends that emerged in Asia.

Module I: Transformation of China

- (a) Domestic Policy in People's Republic of China under Mao Zedong
- (b) Economic Progress in China under Deng Xiaoping
- (c) Foreign Policy of China with USSR

Module II: Reconstruction of Japan

- (a) American Occupation of Japan
- (b) Economic Miracle in Japan
- (c) Foreign Policy of Japan with USA

Module III: South East Asia

- (a) Cold War and Vietnam
- (b) Guided Democracy in Indonesia
- (c) Association of South East Asian Nations (ASEAN)

Module IV: Conflicts in West Asia

- (a) Arab- Israel Conflict (1948-2000)
- (b) Iranian Revolution of 1979
- (c) Oil Politics and OPEC

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SEMESTER -VI

Elective Course IX A - Research Methodology and Sources of History

Objectives:

- 1. To teach students basics of research methodology in history with a view to promote historical research.
- 2. To understand the various kinds of sources of history and its interpretation.
- 3. To acquaint students with the new trends and approaches in history writing.

Madule I: Historical Research: Methods and Presentation

- (a) Steps in Historical Research
- (b) Methods of Critical Enquiry
- (c) Presentation of Historical Research

Madule II: New Trends in History

- (a) Local History
- (b) Oral History
- (c) Digital and E-Sources

Madule III: Approaches to History

- (a) Subaltern
- (b) Feminist
- (c) Post-Modern

Madule IV: Indian Historiography

- (a) Imperialist
- (b) Nationalist
- (c) Marxist

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Bendre V. C., Sadhan Chikkitsa

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Rajadhyksha Vijaya, (Sampadit), Sadnya Sakanlpana Kosh, Maharashtra Rajya Sahitya Va Sanskriti Mandal, Mumbai.

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Sawant B. T., Salunkhe D., Aaitihasik Kagad Patre va Thale, Mehata Publishing House,

Wamburkar Jaswandi, Ithihas Lekhanatil Nave Pravah, Daimond Prakashan, Pune, 2014.

SEMESTER -VI

Elective Course IX B - Heritage Tourism in Maharashtra

Objectives:

- 1. To introduce students to the Cultural Heritage of Maharashtra
- 2. To understand various resources of Heritage Tourism in Maharashtra
- 3. To acquaint the students with the relevance and scope of Heritage Tourism

Module I: Understanding Heritage Tourism of Maharashtra

- (a) Government Policies and Role of Government Agencies
- (b) Heritage Sites and Precincts
- (c) Careers in Heritage Tourism

Module II: Natural Heritage

- (a) Biodiversity of Sahyadri Range
- (b) National Parks
- (c) Beaches and Hill Stations

Module III: Architectural Heritage

- (a) Caves
- (b) Forts
- (c) Monuments and Public Buildings

Module IV: Cultural Heritage

- (a) Pilgrimage Sites
- (b) Fairs and Festivals
- (c) Folk and Tribal Culture

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Gunaji Milind, Mazi Mulukhgiri, Rajhans Prakashan, Pune, 2001 (Fifth Edition)

Pandit Suraj, Maharashtratil Bauddha Leni, Aparant, Pune, 2018

Paradkar Milind, *Prachin Bharatiya Durgashastra Aani Hindavi Swarajyachya Don Rajdhanya-Ek Tulanatmak Abhyas*, Neelchampa Prakashan, 2011.

AC- 26/07/2019 Item No.- 4.19

UNIVERSITY OF MUMBAI



Revised Syllabus for the F.Y.B.A. (Sem I)

Microeconomics – I

Course: Economics

(As Per Choice Based Credit System with effect from the academic year 2019-20)

F.Y.B.A. Subject: Economics Microeconomics – I Semester – I

(Academic Year: 2019 - 20)

Preamble: This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on the development of analytical thinking with the help of statistical tools among the students and develop the skill of application of microeconomics concepts to analyze the real life situations.

Module - I: Introduction to Microeconomics

Microeconomics: Meaning, Scope, Nature, Importance and Limitations; Basic Economic Problems; Role of Price Mechanism in a Market Economy; Positive Economics and Normative Economics; Concepts of Equation, Functions, Graphs, Diagrams, Line, Slope and Intercept

Module - II: Ten Principles of Economics

Trade-Off Faced by the Individuals; Significance of Opportunity Cost in Decision Making; Thinking at the Margin; Responses to incentives; Benefits from Exchange; Organization of Economic Activities through Markets and its Benefits; Role of Government in improving Market Outcomes; Dependence of Standard of Living on Production; Growth in Quantity of Money; Inflation and Unemployment Trade Off

Module - III: Markets, Demand and Supply

What is a Market; What is Competition; Demand Curves: Market Demand versus Individual Demand, Movements along the Demand Curve, Shifts in the Demand Curve; Supply Curves: Market Supply and Individual Supply, Shifts in Supply Curve; Market Equilibrium - Three Steps to Analyze Changes in Equilibrium; Price Elasticity of Demand, Methods of Measuring Price Elasticity of Demand – Total Outlay Method, Percentage Method and Point Method; Concepts of Income Elasticity of Demand, Cross Elasticity of Demand and Promotional Elasticity of Demand

Module IV: Consumer's Behavior

Introduction to Cardinal and Ordinal Approaches; Indifference Curve Analysis - Properties of Indifference Curves, Budget Line, and Consumer's Equilibrium; Income, Price and Substitution Effect; Derivation of Demand Curve; Consumer's Surplus: Strong Ordering and Weak Ordering

(12 Lectures)

(12 Lectures)

(12 Lectures)

(12 Lectures)

Reference

- 1.N.Gregory Mankiw, (2015), "Principles of Microeconomics" 7th edition- Cengage Learning.
- 2.Sen Anindya, (2007), "Microeconomics Theory and Applications" Oxford University press, New Delhi.
- 3. Salvator D, (2003) "Microeconomics Theory and Applications" Oxford University press, New Delhi.
- 4. M.L.Jhingan, (2006) "Microeconomics Theory", 5th edition Vrinda Publication (P) Ltd.
- 5. H.L.Ahuja, (2016) "Advance Economics Theory" S.Chand & Company Ltd.
- 6. Paul Samuelson and W. Nordhaus, (2009): Economics, 19th Edition McGrawHill Publications.

AC- 26/07/2019 Item No.- 4.20

UNIVERSITY OF MUMBAI



Revised Syllabus for the F.Y.B.A. (Sem II)

Microeconomics – II

Course: Economics

(As Per Choice Based Credit System with effect from the academic year 2019-20)

F.Y.B.A. Subject: Economics Microeconomics – II Semester – II

(Academic Year: 2019 - 20)

Preamble:

As a logical sequence to Microeconomics Paper I, this paper is aimed at giving supply side knowledge of Economics to the learner which will enhance their knowledge about aspects of production, cost and revenue analysis, theories of distribution and understanding about the market structure.

Module I: Production Analysis

Production Function: Concept And Types; Concepts of Total, Average and Marginal Product; Law of Variable Proportion and Returns to Scale, Isoquant and Producer's Equilibrium

Module II: Cost & Revenue Analysis

Concepts of Costs: Money and Real Cost, Social Cost, Private Cost, Explicit and Implicit Cost, Opportunity Cost; Relationship between Average, Marginal and Total Cost; Derivation of Short Run and Long Run Cost Curves; Concepts of Revenue: Types and Interrelationship

Module III: Factor Pricing

Marginal Productivity Theory of Distribution; Rent: Ricardian Theory of Rent, Modern Theory of Rent, Quasi Rent; Wages: Modern Theory of Wages; Collective Bargaining; Supply Curve of Labour; Interest: Classical Theory of Interest, Loanable Funds Theory of Interest; Profit: Risk and Uncertainty Theory, Innovation Theory

Module IV: Equilibrium in Different Market Structure(12 Lectures)

Concept Of Equilibrium: TR - TC And MR - MC Approach; Features of Perfect Competition; Monopoly and Monopolistic Competition, Short Run and Long Run Equilibrium of Firm and Industry under each Market Condition; Selling Cost and Wastages under Monopolistic Competition

Note: we may include case studies and numerical examples for modules 1, 2 and 4 from examination point of view.

(12 lectures)

(12 Lectures)

(12 lectures)

Reference

- 1. A. Koutsoyainnis, (2015), Modern Microeconomics, 2nd edition, Palgrave Macmillan.
- 2. Paul Samuelson and W. Nordhaus, (2009), Economics, 19th edition: Economics, McGrawHill Publications.
- 3. Mankiw M.G (2015), Principles of Micro economics 7th edition Cengage Learning.
- 4. Anindya Sen, (2006), Microeconomics, OUP India Publisher.
- 5. M.L.Jhingan, (2006), "Microeconomics Theory", 5th edition, Vrinda Publication (P) Ltd.
- 6. H.L.Ahuja, (2016), "Advance Economics Theory" S.Chand & Company Ltd.

AC- 26/07/2019 Item No.- 4.25



Macro Economics - I

S.Y.B.A. Semester – III Paper III (Academic Year: 2020 - 21)

Preamble: This course is designed to provide an introduction to the students about the basic building blocks of Macro Economics which will serve as a foundation throughout their career.

Module – I: Introduction to Macro Economics and National Income (12 Lectures) Introduction: Meaning and Scope of Macro Economics; Concepts of National Income: GNP, NNP, NDP, Per Capita Income, Personal Income and Disposal Income; Methods and Difficulties in Measurement of National Income; Circular Flow of National Income: Closed Economy (Two and Three Sector) and Open Economy Models (Four Sector Model)

Module – II: Consumption and Investment

Consumption and Investment; Says Law of Market; Theory of Effective Demand; Consumption Function; Investment Function; Marginal Efficiency of Capital and Rate of Interest- Investment Multiplier

Module – III: Supply of Money and Demand for Money

Supply of Money; Determinants of Money Supply; Velocity of Circulation of Money; RBI's Approach to Measurement of Money Supply; Demand for Money: Classical, Keynesian and Friedman's Approaches

Module – IV: Banking

Banking: Commercial Bank, Functions of Commercial Banks, Multiple Credit Creation, Balance Sheet of Commercial Bank; Development in Commercial Banking Sector Since 1990-91; Central Bank: Functions of Central Bank - Traditional, Developmental, Promotional

Reference

1) N. Gregory Mnakiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning.

2) Abel A. B. B. S. Beranake and D. Croushore (2011), Macroeconomics, Pearson, New Delhi.

3) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi.

4) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.

5) Dornbusch Rudiger, Fischer, Stanley and Startz, (2017) (Indian Edition), Macroeconomics Delhi: Mcgraw Hill Publication.

6) Paul Samuelson and William Nordhaus, (2010), Economics, Mcgraw Hill Publication.

(12 Lectures)

(12 Lectures)

(12 Lectures)

University of Mumbai



No. AAMS(UG)/60 of 2021-22

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the Recognized Institutions in Faculty of Humanities is invited to this office circular No. UG/58 of 2018-19, dated 6^{th} July, 2018 relating to the revised syllabus as per the (CBCS) for the T.Y.B.A. in Economics – Sem V & VI.

They are hereby informed that the recommendations made by the Board of Studies in Economics at its online meeting held on 9th June, 2021 <u>vide</u> Item No. 1 and subsequently passed by the Board of Deans at its online meeting held on 11th June, 2021 <u>vide</u> item No. <u>5.37</u> (R) have been accepted by the Academic Council at its meeting held on 29th June, 2021 <u>vide</u> item No. <u>5.37</u> (R) and that in accordance therewith, the revised syllabus as per the (CBCS) for the T.Y.B.A. in Economics- Sem V & VI has been brought into force with effect from the academic year 2021-22 accordingly. (The same is available on the University's website <u>www.mu.ac.in</u>).

MUMBAI – 400 032 22nd September, 2021

(Dr. B.N.Gaikwad) I/c REGISTRAR

To

The Principals of the Affiliated Colleges the head of the University Departments and Directors of the Recognized Institutions in Faculty of Humanities.

A.C/5.37 (R) 29/06/2021

No. AAMS(UG)/60 -A of 2021-22

22 September, 2021

Copy forwarded with Compliments for information to:-

- 1) The Dean, Faculty of Humanities.
- 2) The Chairman, Board of Studies in Economics,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-ordinator, University Computerization Centre,

(Dr. B.N.Gaikwad) I/c REGISTRAR

Copy to :-

- 1. The Deputy Registrar, Academic Authorities Meetings and Services (AAMS),
- 2. The Deputy Registrar, College Affiliations & Development Department (CAD),
- 3. The Deputy Registrar, (Admissions, Enrolment, Eligibility and Migration Department (AEM),
- 4. The Deputy Registrar, Research Administration & Promotion Cell (RAPC),
- 5. The Deputy Registrar, Executive Authorities Section (EA),
- 6. The Deputy Registrar, PRO, Fort, (Publication Section),
- 7. The Deputy Registrar, (Special Cell),
- 8. The Deputy Registrar, Fort/ Vidyanagari Administration Department (FAD) (VAD), Record Section,
- 9. The Director, Institute of Distance and Open Learning (IDOL Admin), Vidyanagari,

They are requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to in the above circular and that on separate Action Taken Report will be sent in this connection.

- 1. P.A to Hon'ble Vice-Chancellor,
- 2. P.A Pro-Vice-Chancellor,
- 3. P.A to Registrar,
- 4. All Deans of all Faculties,
- 5. P.A to Finance & Account Officers, (F.& A.O),
- 6. P.A to Director, Board of Examinations and Evaluation,
- 7. P.A to Director, Innovation, Incubation and Linkages,
- 8. P.A to Director, Board of Lifelong Learning and Extension (BLLE),
- 9. The Director, Dept. of Information and Communication Technology (DICT) (CCF & UCC), Vidyanagari,
- **10.** The Director of Board of Student Development,
- **11.** The Director, Department of Students Walfare (DSD),
- 12. All Deputy Registrar, Examination House,
- **13.** The Deputy Registrars, Finance & Accounts Section,
- 14. The Assistant Registrar, Administrative sub-Campus Thane,
- 15. The Assistant Registrar, School of Engg. & Applied Sciences, Kalyan,
- 16. The Assistant Registrar, Ratnagiri sub-centre, Ratnagiri,
- **17.** The Assistant Registrar, Constituent Colleges Unit,
- **18. BUCTU,**
- **19.** The Receptionist,
- **20.** The Telephone Operator,
- **21. The Secretary MUASA**

for information.

AC- 29/06/2021 Item No. 5.37 (R)

UNIVERSITY OF MUMBAI



Revised Syllabus for the T.Y.B.A. (Economics) Sem - V and VI

(As per the Choice Based Credit System with effect from the academic year 2021-22)
UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	T.Y.B.A. (Economics)
2	Eligibility for Admission	As per University Rule
3	Passing Marks	-
4	Ordinances / Regulations (if any)	-
5	No. of Years / Semesters	One Year / Two Semesters
6	Level	U.G.
7	Pattern	Semester
8	Status	Revised
9	To be implemented from Academic Year	From Academic Year 2021-2022

Name & Signature of BOS Chairperson :

Name & Signature of Dean:

PREAMBLE:

The syllabus of TYBA has been revised owing to the revised syllabus introduced by the University of Mumbai for FY and SYBA as per the recommendation of Board of Studies of Economics (BOS-E) by keeping in view of the recent trends in the subject of Economics. The BOS-E has further revised the syllabi of papers at the TYBA which will be made effective **from the Academic Year 2021-22**. A broad overview of the revised structure, which includes the core papers and electives as described below.

DURATION:

- The course shall be a full time course.
- The duration of B.A. course shall be of Three years across Six Semesters.

FYBA: SEMESTER – I & II (One paper each semester)
SYBA: SEMESTER – III & IV (Two papers each semester)
TYBA: SEMESTER – V & VI (Six papers each semester)

PATTERN:

The T.Y.B. A. [Entire Economics] Course shall have 12 papers. Every semester shall have six papers, each carrying 100 marks. However students can opt for combination of any two subjects in Economics and the rest in any other subject) in which every semester shall have three papers of each Subject, carrying 100 marks each. Moreover, exams based on Papers IX and Papers XII of Semester V and Paper XV and XVIII of Semester VI are bifurcated into 80 marks of written exam and 20 marks of project. It is hereby stipulated that the projects shall have a maximum page limit of 20.

CASE STUDY APPROACH

As per the latest guidelines issued by UGC in 2021, the themes of the Projects related to applied component papers IX and XII of semester V and papers XV and XVIII of semester VI are resolved to be based on Case Study Approach. Even for the Core Papers and Electives, the relevant modules are focused on Case Study approach.

SCHEME OF EXAMINATION

The duration of the examination, paper pattern and the allotment of lectures as well as marks are given in detail in subsequently.

DURATION:

• Three Hours for each 100 marks paper and Two and Half an Hour for 80 marks paper.

ALLOTMENT OF LECTURES:

 The allotment of lectures is as per the common guidelines stipulated by the Academic Council for Humanities of University of Mumbai.

PAPER PATTERN:

- There shall be five questions each of 20 marks, for 100 marks paper divided into three sub questions
 (a, b, c) with an internal option to choose any two.
- There shall be four questions of 20 marks for 80 marks paper with internal options mentioned as the same above.
- All questions shall be compulsory with internal choice within the questions.
- Questions may be subdivided into sub-questions a, b, c as mentioned earlier and the allocation of marks shall depend on the weightage given to the topic.

Questions	Modules	Marks
Qn.1	Unit I	20
Qn.2	Unit II	20
Qn.3	Unit III	20
Qn.4	Unit IV	20
	4 Sub-questions from Unit I, II, III & IV	
Qn.5	OR	20
	20 MCQs from Unit I, II, III & IV	

COURSE STRUCTURE (APPLICABLE FROM ACADEMIC YEAR: 2021-22) TYBA (SEMESTER –V)

COURSE CODE		REVISED PAPER	CREDIT	MARKS
GROUP - I : CORE PAPERS				
ECOAME501	VII	ADVANCED MICROECONOMICS – III	4	100
ECOGAD502	VIII	ECONOMICS OF GROWTH AND DEVELOPMENT	4	100
		GROUP-II : ELECTIVE PAPERS		
ECOIFSA503	IX	INDIAN FINANIAL SYSTEM-I	3	80
	1	OR		
ECOACB503	IX	ECONOMICS OF AGRICULTURE AND CO - OPERATION – I	3	80
	1	OR	I	
ECOILC503	IX	INDUSTRIAL AND LABOUR ECONOMICS – I	3	80
ECORMA504	X	RESEARCH METHODOLOGY - I	4	100
		OR		
ECOQEB504	X	QUANTITATIVE ECONOMICS - I	4	100
		OR		
ECOESSIC504	X	ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES	4	100
ECOEEA505	XI	ENVIRONMENTAL ECONOMICS -I	4	100
	•	OR		
ECOEIB505	XI	ECONOMICS OF INSURANCE - I	4	100
		OR		
ECOMEAC505	XI	MATHEMATICS FOR ECONOMIC ANALYSIS - I	4	100
ECOEMA506	XII	ECONOMY OF MAHARASHTRA -I	3	80
OR				
ECOHETB506	XII	HISTORY OF ECONOMIC THOUGHTS – I	3	80
OR				
ECOIBFC506	XII	INTERNATIONAL BANKING AND FINANCE – I	3	80

COURSE CODE	GROUP-I : CORE PAPER PAPER NO -VII	CREDIT	MARKS
ECOAME501	ADVANCED MICROECONOMICS - III	4	100

Course Objectives

The course is designed to provide sound understanding in micro economic theory. Since students have been taught perfect competition, this course focuses on three main pillars of microeconomics such as imperfect competition, welfare economics and information economics.

Course Outcomes

- Enables students to get knowledge on new market structure, imperfect competition.
- Provides understanding on the welfare economics and economics of information.

Module 1: General Equilibrium and Welfare Economics(12 Lectures)

Concept of General Equilibrium and Walrasian General Equilibrium Model - Pareto Optimality – The Pareto Optimality Condition of Social Welfare - Marginal Conditions for Pareto Optimal Resource Allocation - Perfect Competition and Pareto Optimality - Arrow's Impossibility Theorem

Module 2: Market Structure: Monopoly and Monopolistic Competition(14 Lectures)

Concept of Monopoly - Measurement of Monopoly Power - Price Discrimination: Types and Classification of Price Discrimination (Degrees of Price Discrimination) - Equilibrium under discriminating Monopoly - Regulation of Monopoly Market Product Differentiation in Monopolistic Competition - Chamberlin's Alternative approach- Equilibrium under Monopolistic Competition - Excess Capacity

Module 3: Oligopoly

The Cournot Model - Meaning and Characteristics of Oligopoly Market - Rigid Prices - The Sweezy Model of Kinked Demand Curve - Collusive Oligopoly - Cartel: Centralised and Market Sharing Cartel -Imperfect Collusion- Price Leadership Models, Game Theory - Prisoner's Dilemma, Nash Equilibrium and Dominant Strategy Equilibrium

Module 4: Information Economics

(12 Lectures)

Economics of Search and Search Cost - The Theory of Asymmetric Information-The Market for Lemons and Adverse Selection - Risk Preference and Expected Utility - The Problem of Moral Hazard - Market Signaling - Principal-Agent Problem

- 1. Jhingan MLL. (2012), Advanced Economic Theory, Vrinda Publications, Delhi.
- 2. Mankiw N. Gregory (2015), Principles of Microeconomics, Cengage Learning.
- Mansfield, Edwin (1985), Micro-economics: Theory & Applications, 5th edition, W.W. Norton & Company, New York.
- 4. Patil K. A (Second edition, 2011, Marathi), Advanced Economic Theory-Micro Analysis, Shri Mangesh Prakashan, Nagpur.
- Salvatore D. (2006), Microeconomics: Theory and Applications, Oxford University Press, New Delhi.
- Varian Hal R. (8 Edition 2010) Intermediate Microeconomics A Modern Approach, East-West Press, New Delhi

COURSE CODE	GROUP-I : CORE PAPER PAPER NO - VIII	CREDIT	MARKS
ECOGAD502	ECONOMICS OF GROWTH AND DEVELOPMENT	4	100

Course Objectives

This paper introduces the concepts, theories, process and policies regarding growth and development. The meaning of the development as it has evolved over the years is clarified. The contemporary as well as classical theories of growth, development, and underdevelopment are considered in detail. Theories and issues related to population, poverty, inequality and human capital are considered. Urban and rural aspects of the development process studied. Importance of technology, infrastructure and planning in development process are considered. The approach has been to cover all important areas of development economics.

Course Outcomes

- Enable students to apply and analyse issues in the development process.
- Students will be able to identify the issues related to Growth and Development
- Students will be able to understand the policy options and analyzed the Measures taken for the Development of an economy.

Module 1: Meaning of Economic Growth and Development(12 Lectures)

Concepts of Economic Growth and Development-Distinction between Economic Growth and Development- Concept of Human Development- H.D.I, G.D.I, Green GDP- Sen's Capability approach-Millennium Development Goals (MDGs)- Initiative by Indian government towards MDGs.

Module 2: Theories of Economic Development(12 Lectures)

Rostow's stages of growth; Big Push Theory- Leibenstein's Critical Minimum Effort Thesis - Harrod - Domar Growth Model- Lewis Model of unlimited supply of labour - Ragner Nurkse's Theory of Disguised Unemployment- Schumpeter's Theory of Development

Module 3: Structural Issues in Development Process

Concept of Human Capital- Role of Education, Health and nutrition in Human Capital - Meaning and Measurement of Poverty and Inequality- Measures to eradicate poverty and Inequality - Meaning of Inclusive growth - SHG and Microfinance- Migration – Urbanization- Formal and Informal Sector- Urban Informal Sector

Module 4: Planning, Technology and Economic Development(12 Lectures)

Concept and Role of infrastructure in Economic Development- Role of technology in Economic Development- Labour intensive versus Capital intensive technology- Schumacher's concepts of intermediate and appropriate technology- Green Technology- Meaning and Types of Economic Planning- Role of Planning in Economic Development

- 1. Boldwin, Economic Development: Theory, History and Policy, Willy Publishers, 1957.
- 2. Mamoria, Joshi, Principles and practice of marketing in India, Kitab Mahal, 1979.
- 3. Meier, Gerald M. and James E. Rauch. Leading Issues in Economic Development, New Delhi: Oxford Univ. Press, 2006.
- 4. Thirlwall, A.P. Growth and Development 8e. New York: Palgrave MacMillan, 2005. 7
- 5. Todaro, Michael P. and Stephen C. Smith. Economic Development, 8e. Delhi: Pearson Education, 2003.
- 6. V.K. Puri and S.K. Mishra, Indian Economy, Himalaya Publishing House, 2019

COURSE CODE	GROUP-I : CORE PAPER PAPER NO – IX	CREDIT	MARKS
ECOIFSA503	INDIAN FINANCIAL SYSTEM – I	3	80

Course Objectives

In this semester the students get introduced with various aspects related to Indian Financial system. Indicators of financial development will be introduced and overview of financial sector reforms will be undertaken. Students will be able to understand performance, progress and issues in Indian Banking system. An overview of development of non-banking institutions in India will be undertaken. Students will also be introduced with traditional, modern and hybrid financial instruments.

Course Outcomes

- Empowering students about Indian Financial system, indicators of financial development and overview of financial sector reforms
- Awareness on performance, progress and issues in Indian Banking and overview of non-banking institutions in India
- The course leads to project work/ case studies based on empirical examples such as: Management of NPAs by banks, performance analysis of commercial banks, financial instruments- comparative analysis, performance of NBFIs

Module 1: Introduction to Indian Financial System(12 Lectures)

Evolution- meaning-characteristics – components - significance - Financial system and economic development - Indicators of Financial Development: FR, FIR, NIR and IR. -Reforms and trends/ turns in Indian financial sector: 1991-2019.

Module 2: Performance, Progress and Issues in Indian Banking (12 Lectures)

Overview of development of Banking in India-Commercial banking-Liquidity management-Commercial banking developments since mid 1980s- Management of NPAs-Concept of Bad bank-Mudra bank scheme - Capital adequacy norms- Basel III

Module 3: Non- banking Finance Institutions in India

Overview of development of non- banking institutions in India – Growth - Components, types, role in financial system - Regulation of NBFIs-Provident funds - Pension funds - Venture capital funds

Module 4: Financial Instruments: Traditional, Modern and Hybrid (12 Lectures)

Traditional instruments: equities- debentures and bonds -Hybrid instruments- different types of bonds such as floating rate bonds- zero interest bonds- deep discount bonds- inverse float bonds-sovereign gold bonds- municipal bonds- convertible debentures- warrants, Cryptocurrency - Derivatives - meaning, concept and types of derivatives

- Bhole, L. M. (2008): Financial Institutions and Markets, Growth and Innovation, Tata McGraw-Hill, New Delhi.
- 2. Khan, M.Y. (2007): Financial Services, Tata McGraw Hill, New Delhi.
- 3. Machiraju, Indian Financial system, Vikas publishing house, 2nd edition, 2002.
- Pathak, Bharati (2008) : The Indian Financial System-Markets, Institutions, and Services, (2nd Edition), Pearson Education, New Delhi.
- 5. Strong, R. A. (2002): Derivatives: An introduction; Thomson Asia Pte Ltd, Bangalore.
- 6. Varshney P N and Mittal D K, Indian financial system, sultan Chand and sons, New Delhi, 2002.

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – IX	CREDIT	MARKS
ECOACB503	ECONOMICS OF AGRICULTURE AND CO-OPERATION-I	3	80

Course Objectives

This paper provides an overview of the role of agriculture in the economic development of the country and the salient features associated to agricultural productivity and agricultural labour. The pertinent aspects related to agricultural credit, agricultural marketing as well as the global problems existing in the marketing are dealt in. Students can acquire understanding about the features of agricultural policy and the agrarian crisis as well as the problems and challenges in the field of Agriculture and cooperation.

Course Outcomes

- Students will obtain information regarding various agricultural issues in India and remedies for it.
- Making awareness about self- employment through various local business like agro- tourism, travel agents, horticulture, floriculture, fishery and animal husbandry.

Module 1: Agricultural Productivity

Role of agriculture in Economic Development - Cropping pattern in India, Recent trends, Factors affecting - cropping pattern - Physical, Technical and Economic - Agricultural Productivity, Causes of Low Productivity in Agriculture - Measures taken to improve the Agricultural Productivity in India - Irrigation and Water Management and agricultural development - Agricultural labour Problems and suggestions.

Module 2: Agricultural Credit

Institutional and Non-Institutional Sources of Credit Co-operative Credit and Agriculture Rural Indebtedness - Commercial Banks and Regional Rural Banks - Microfinance and NABARD - Role and Performance - Crop loan and Crop Insurance, Kisan Credit card Yojana.

(12 Lectures)

Module 3: Agricultural Marketing

Types of Marketing - Corporate, Commodity and Global Problems and Measures of Agricultural Marketing - Regulated Market - WTO and Indian Agriculture - Problems of Agricultural Marketing and its measures - National Agricultural Market - FPO – Farmers Producer Organizations

Module 4: Agricultural Price and Policy

(12 Lectures)

Food Security in India - Price Policy of CACP Evaluation - Agricultural Crisis and Farmers Suicide - Agro-Tourism and its policy - Organic Farming - Mechanization of Agriculture

- Bilgrami S.A.R. (2000), An Introduction of agricultural Economics, Himalaya Publishing House, Mumbai
- 2. Datta Ruddra and Mahajan Ashwini (2016), Indian Economy, Chand and Company Ltd., New Delhi.
- 3. Gupta P. K., (2012), Agricultural Economics, Vrinda Publications (P) Ltd. Delhi.
- 4. Mamoria C.B. and B.B. Tripalhi (1991), Agricultural Problems in India, Kitab Mahal, Allahabad.
- Sadhu and Singh (2008), Fundamental of Agricultural Economics, Himalaya Publishing House, Mumbai.
- 6. Tyagi B.P., (2016), Agricultural Economics and Rural Development, Jaiprakash Nath and Co. Meerut.

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – IX	CREDIT	MARKS
ECOILC503	INDUSTRIAL AND LABOUR ECONOMICS-I	3	80

Course Objectives

There has been a paradigm shift in the structure of the Indian industrial sector and the policies governing it ever since the new era of globalization and liberalization has ushered in. This paper intends to equip the students with the knowledge about the fundamentals of Industrial Economics and also the latest policies relating to the Indian industry.

Course Outcomes

- Learners will study the different contemporary issues of industrial sector.
- Learners will know the problems of industries.
- Learners will get the idea about productivity.
- Learners will get with new Policies and its impact on industries.

Module 1: Introduction

(12 Lectures)

Meaning and Scope of Industrial Economics- Industrial Profile- Private sector- Performance and Problems - Cooperatives sector and its role, merits and demerits- Public Sector – Role - Performance and Problems -Role of agriculture in Industrial development, Industrial Combinations - Motives for Mergers and Acquisitions.

Module 2: Industrial Location and Problem of Regional Imbalance (12 Lectures)

Determinants of Industrial Location, Theories of Industrial Location - Weber's and Sargent Florence's Theories, Dispersal and Decentralization of Industries, Problem of Regional Imbalance.

Module 3: Industrial Productivity and Industrial Sickness(12 Lectures)

Concept and Measurement of Industrial Productivity- Factors Affecting Industrial Productivity-Industrial Sickness - Causes, Effects and Remedial Measures - Rationalisation - Concept, Aspects and Impact.

New Industrial Policy, 1991; Disinvestment Policy; Small Scale Industries and Rural Industrialization; National Manufacturing Policy, 2011 - Recent Trends in India's Industrial Growth- Role of MNCs in the Indian Economy - Merits and Demerits, Industrial Finance in India.

References:

- 1. Barthwal R.R. (2007), Industrial Economics, New Age International Publishers, New Delhi.
- 2. D. Agrawal A.N. (2011), Indian Economy, New Age International Publishers, New Delhi.
- 3. Datt R. and Sundaram K.P.M. (2009), Indian Economy, S.Chand & Co., New Delhi.
- 4. Kuchhal S.C. (1980), Industrial Economy of India, Chaitanya Publishing House, Allahabad.
- 5. Mishra S.K. and Puri V.K.(2008), Indian Economy, Himalaya Publishing House, Mumbai.
- 6. Ranjana Seth, Industrial Economics (2010), Ane Books Pvt. Ltd., New Delhi.

TYBA (ECONOMICS) (SEMESTER-V)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – X	CREDIT	MARKS
ECORMA504	RESEARCH METHODOLOGY - I	4	100

Course Objectives

This paper contains within the various objectives, such as to understand and make aware as well as inculcate research in Economics amongst the learners, to encourage exchange of ideas and application of results of economic research at the same time to enable students in understanding data collection and presentation for quality research in social sciences.

Course Outcomes

- The learners will understand and inculcate research in Economics
- The learners will exchange ideas and application of results of economic research.
- The course will help in formulation of problems in social science research.
- The students will understand data collection and presentation for quality research in social sciences.

Module 1: Introduction to Research

Meaning and scope of social science research- Basic assumptions of research- Features and importance of social science research- Objectives and types of research; Basic, Applied, Pure, Descriptive, Analytical, and Empirical research- Limitations of social science research- Difficulties in social science research

Module 2: Formulation of Problem in Social Science Research

Research process: Identification, selection and formulation of research problem-Sources of research problem - Criteria of a good research problem- Review of literature-Formulation of hypothesis- Research design: Definition, Concepts, and types- Data Collection and analysis- Interpretation and report writing- Use of web search in research process.

Module 3: Types of Data: Primary and Secondary

Types of Data: Primary data and its collection methods: Observation method-Interview Technique - Design of schedule and questionnaire - Survey method and Field visits -Secondary data : Meaning- advantages- sources- relevance and limitations of secondary data- Sampling Techniques : Census and sample survey- Essentials of a good sampling - Advantages and limitations of sampling- Types of sampling: Random sampling and Non-random sampling-Sampling and Non-Sampling errors.

Module 4: Representation and Analysis of Data

Classification, Tabulation and Graphical presentation of socio-economic data- Need and importance of data analysis- Statistical analytical tools: Measures of Central Tendency - Measures of Variation : Absolute and relative measures - Quartile deviation, standard deviation, coefficient of variation- Skewness: Meaning and measurement (Karl Pearson's and Bowley's methods) - Preliminaries of computer applications in data organization and data processing.

References:

- Bhandarkar P.L., (1994), Samajik Sanshodhan Padhati, Himalaya Publication, New Delhi. 1.
- Dawson, Catherine (2002), Practical research methods, UBS Publishers, New Delhi. 2.

(12 Lectures)

(12 Lectures)

- 3. Ghosh, B.N. (1992), Scientific methods and social research, Sterling Publishers Pvt. Ltd, New Delhi.
- 4. Gupta S P, (1987), Statistical methods, Sultan Chand and Sons, New Delhi.
- Kothari R.C. (2008), Research methodology, methods and techniques, New Age International Publishers, New Delhi.
- Krishnaswamy O.R.(1993), Methodology of research in social sciences, Himalaya publishing House, Mumbai.

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – X	CREDIT	MARKS
ECOQEB504	QUANTITATIVE ECONOMICS – I	4	100

Course Objectives

Economics is increasingly becoming quantitative in nature. This course introduces a variety of quantitative skills as per the current requirements of industry. The objective of this paper is to equip students with the mathematical and statistical techniques, which are needed for analysis of data in general and economic analysis in particular.

Course Outcomes

- Students can perform graphical analysis of functions, sketch curves defined by simple equations. Furthermore, it will help to interpret the algebraic solution of economic concepts
- It will build an ability to explain the economic applications of differentiation, and use it to understand economic concepts such as elasticity, marginal cost and input- output determination and linear programming.
- Help to develop various quantitative concepts and their application not only in economics but also for other subjects.

Module 1: Equations, Graphs and Derivatives

Linear and non-linear relationships in economic analysis– Derivatives– Higher order derivatives– Increasing and decreasing functions- Necessary and sufficient conditions for maxima and minima– Optimization of economic functions- Economic applications: equations and graphs Market demand and supply models, taxes, elasticity.

Module 2: Linear Algebra

Matrices and basic operations on matrices– Rank of a matrix– Inverse of a matrix– Cramer's rule and its application to the IS-LM model-Input-Output Analysis and policy implications– Linear Programming Problem: Formulation and graphical solution.

Module 3: Descriptive Statistics and graphing techniques for presenting data (12 Lectures)

Concept of primary and secondary data along with tabulation and graphs – Measures of central tendency (arithmetic mean, median and mode) – Absolute and relative measures of dispersion (range, quartile deviation, mean deviation and standard deviation) with simple applications – Measures of skewness and kurtosis – Lorenz Curve

Module 4: Elementary Probability Theory(12 Lectures)

Sample space and events– Mutually exclusive - Exhaustive and complementary events– Conditional probability– Binomial probability distribution– Nature and Properties of the Normal Probability Distribution -Standard Scores and the Normal Curve -The Standard Normal Curve: Finding Areas when the Score is Known- Finding Scores when the Area is Known.

References:

- 1. Chiang A. C.: Fundamental Methods of Mathematical Economics, 3rd edition, McGraw-Hill, 1984.
- Dowling Edward T: Introduction to Mathematical Economics, Schaum Outline Series in Economics, Tata McGraw -Hill, New Delhi, 2004.
- Dowling Edward T: Theory and Problems of Mathematical Methods for Business and Economics, McGraw Hill, 1993.

- 4. Gupta S.P.: Statistical Methods, S. Chand, New Delhi, 2014.
- Lerner Joel J and P.Zima: Theory and Problems of Business Mathematics, McGraw Hill, New York, 1986.
- Sancheti D.C. and V.K. Kapoor: Statistics-Theory, Methods and Applications, S. Chand, New Delhi, 2014.

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – X	CREDIT	MARKS
ECOESSIC504	ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES	4	100

Course Objectives

This paper is designed with the aim of encouraging students to foresee themselves as potential entrepreneurs. The paper includes within the scope for case studies, Interviews of Entrepreneurs, Preparation of project report, group discussion, survey etc.

Course outcomes

- Nurture the qualities of successful entrepreneurship
- Provides them knowledge about various processers to register for small scale industries which results in successful maintenances of such industries

Module 1: Entrepreneurship

Concept of an entrepreneur and entrepreneurship, qualities of the successful entrepreneurs- role and functions of entrepreneurs in economic development- factors influencing entrepreneurship- Challenges before women entrepreneurship.

Project identification - selection and formulation, Registration of small scale industries - project report-Sources of finance for a business - Export documents and trends of small enterprises- major constraints in export performance.

Module 3: Small scale industries

Meaning and scope of small scale industries, importance of small scale industries, problem faced by small scale industries, SWOT analysis for small scale industries, forms of business organizations: Sole proprietorship – Features, advantages & disadvantages. Partnership - Features, advantages & disadvantages. Joint stock Company – Features, advantages & disadvantages. Co-operative – Features, advantages & disadvantages.

Module 4: Management and incentives for small scale industries(12 Lectures)

Fundamentals of management: productions and operations management- working capital management, marketing management - Human resource management- Total quality management- Management information system- Incentives to small scale industries.

References:

- Barra G.S, Dangwal R.C. Entrepreneurship and Small Scale Industries New Potentials Deep & Publications 1999
- 2. Desai Vasant, Dynamics of Entrepreneurial Development and Management, Himalaya Publication
- 3. Khanka C.S., Entrepreneurial Development. S. Chand and Company
- 4. Khushpat S. Jain House Export Import Procedures and Documentation' Himalaya Publishing House
- 5. Murthy C.S.V. Small Industries & Entrepreneurship Development, Himalaya Publication
- 6. Singh P.N. and Saboo J.C., Entrepreneurship Management, P.N.Singh Centre

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XI	CREDIT	MARKS
ECOEEA505	ENVIRONMENTAL ECONOMICS - I	4	100

Course Objectives

This course introduces the learner to the basic concepts, economic instruments and policy options in managing the environment. The impact of development on environment is suitably addressed under the rubric of sustainable development. Economic implications of environmental policy and valuation of environmental quality are important areas of concern to be covered. The students are sensitized to the role of human decisions in affecting the environmental quality and managing global environmental issues. The causes, effects and measures to control different types of pollution are impressed upon. The environmental accounting practices, policies, impact and risk analysis focusses on India.

Course Outcomes

- On the completion of this course, the student will have a good understanding of contemporary environmental issues and their relation to economic development.
- The learner will be equipped to understand the methodologies and tools of valuing the environment.
- In the light of international environmental agreements, the learners will be able to understand the global approaches and policies adopted by India to deal with the environmental issues.

Module1: Introduction to Environmental Economics

(12 Lectures)

Environmental Economics: Nature, Significance and Scope; Environment and the economy; Environmental Kuznets Curve; Common resources, externalities and property rights; Coase Theorem; Rio Declaration and Agenda 21 programme of action for sustainable development. Criteria for evaluating environmental policies; Tools of Environmental Policy: Standards, Pigovian taxes/effluent fees, quotas/tradable permits; Choice between taxes and quotas; Environmental Policy: Regulation and Implementation.

Module 3: Measuring Benefits of Environmental Improvements (12 Lectures)

Economic value of Environment: Use and Non-use values; Measurement methods of environmental value: Market based and Non-market based methods; Contingent Valuation Method; Travel Cost Method; Hedonic Price Method.

Module 4: Global Environmental Issues

(12 Lectures)

Trade and environment-Overview of trans-boundary environmental problems-Global Warming - Climate Change - Energy Crisis - Challenges of urbanization - International environmental agreements.

- 1. Barry Field and Martha k Field: Environmental Economics, McGraw Hill International Edition, 2017.
- Bennear, Lori Snyder, and Cary Coglianese (2004), Evaluating Environmental Policies, KSG Faculty Research Working Paper Series RWP04-049,USA
- 3. Charles Kolstad : Environmental Economics, Oxford University Press, New York, 2000.
- 4. Hanley Nick, Shogren Jason and White Ben: Introduction to Environmental Economics, Oxford University Press, 2001.
- 5. Mickwitz, Per. (2003). A Framework for Evaluating Environmental Policy Instruments Context and Key Concepts. Evaluation.
- 6. Smith Stephen: Environmental Economics: A very Short Introduction, 1st Edition, Oxford University Press, New York, 2011.

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XI	CREDIT	MARKS
ECOEIB505	ECONOMICS OF INSURANCE - I	4	100

Course Objectives

The course is designed to provide an understanding of the fundamentals of insurance. Insurance has a profound impact on the society as it manages, diversifies and absorbs the risk of individuals and organisations. Insurance companies as risk management service providers serve as bulwarks for the development of productive activities fuelling demand, facilitating supply and trade. The important role played by the insurance institutions in mobilizing savings and diverting them for capital formation is well known. In recent years, uncertainties experienced in life have been increasing and this in turn has created demand for insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

Corse Outcomes

- Identify and define basic terms and concepts of insurance
- Describe the importance of insurance for an individual and the economy
- Understand the concept of risk and its types, and the process of risk management.

Module 1: Introduction

(12 lectures)

Definition of Insurance, Characteristics of Insurance, Principles of Insurance, Distinction between Assurance and Insurance ,Purpose and need of insurance, Functions of Insurance, Classification of Insurance, Limitations of Insurance.

Module 2: Risk and Risk Management

Concept of Risk, Risk Vs Uncertainty – Loss and chances of loss, Perils, Hazards, Types of Risk, Classification of Pure risk, Elements of insurable risk, Losses and methods of handling pure risk, Asymmetries of information - Adverse selection and Moral hazard in insurance, Risk management process - Risk analysis, Risk control, Risk financing, Risk transfer.

Module 3: Recent Trends in Insurance Sector

Insurance and economic development, Insurance institutions as financial intermediaries; insurance institution as investment institution; Growth & Performance of Public & Private Insurance Companies in India: Life and Non-Life sector including foreign collaborations; Disinvestment of LIC, Listing of Public & Private Insurance companies in Stock market; Government policies in insurance – Ayushman Bharat Yojna, Pradhan Mantri Suraksha Bima Yojna, Pradhan Mantri Jeevan Jyoti Bima Yojna.

Module 4: Reinsurance

Definition, Objectives of Reinsurance, Role of Reinsurance, Techniques of Reinsurance. Role of Reinsurer, Role of General Insurance Corporation of India (GIC Re), Issues and challenges in Indian Reinsurance.

References:

- 1. Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House.
- 2. Dr. MJ Mathew (2005), Insurance Principles & Practice, RBSA Publishers.
- E. Rejda George, McNamara Michael (2017), Principles of Risk Management & Insurance, Pearson Education.
- Kishore Kumar Das (2016), Insurance Sector in India: Problems, Possibilities and Prospects, IBP, New Delhi.
- 5. Meltem Tumay (2009), Asymmetric Information & Adverse Selection in Insurance Markets: The problem of Moral Hazard at dergipark.org.tr/tr/download/article-file/146009.
- 6. PK Gupta (2017), Fundamentals of Insurance, Himalaya Publishing House.

(12 lectures)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XI	CREDIT	MARKS
ECOMEAC505	MATHEMATICS FOR ECONOMIC ANALYSIS	4	100

Course Objectives

This course aims to equip students with mathematical tools, formulae and expressions, which will enhance their capacity to understand and interpret economic theory. The course introduces mathematical techniques commonly used for planning and resource allocation.

Course Outcomes

- By the completion of the course, students can solve the economic problems by using mathematical techniques.
- The application of these mathematical techniques will helps them to analyse the real world problems and to bring out impeccable interpretations in any discipline.

Module 1: Set Theory, functions and Graphs

A set and its elements- basic set operations- Functions and Graphs- Algebraic and Non- Algebraic; Slope and intercept of a straight line- Economic Applications: Demand and supply functions-Savings-Investment- Consumption function etc.

Module 2: Derivatives and its Applications

Derivative of function – Rules of differentiation, Partial derivatives - First and Second orders - Total differentiation- Maxima and minima of two or more than two variables.
Applications in Economics: Constrained and unconstrained optimization- Cost minimisation-Profit maximisation- Optimization of utility and production functions using Lagrange Multiplier.

Module 3: Integration and its Applications(12 Lectures)

Basic rules of integration – Definite and Indefinite integrals- Area under the curve. Economic applications- Capital formation- Consumer's and Producer's Surplus- Measures of Inequality-Lorenz curve- Gini- coefficient and Pareto distribution.

(12 Lectures)

Module 4: Matrix Algebra

Meaning and types of Matrices- Matrix Operations (upto 3 x 3) Matrix – Addition- Matrix multiplication, Transpose of matrix- Inverse of a Square Matrix- Rank of a matrix- Adjoint of a matrix- Characteristic Roots and Vectors- Simultaneous linear equations- Determinants- Minors and Cofactors-Solution to equations by Cramer's Rule- Applications in economics: Input -Output model.

References:

- 1. Chiang, Alpha (1994). Fundamental Methods of Mathematical Economics. McGraw Hill.
- Dowling, Edward T (2004): Introduction to Mathematical Economics Schaum's Outline Series in Economics. Tata McGraw –Hill.
- 3. Lerner, Joel J and P. Zima (1986). Theory and Problems of Business Mathematics. McGraw Hill.
- 4. Rosser, Mike (2003). Basic Mathematics for Economists. Routledge, Taylor & Francis Group.
- 5. Soni, R. S. (2009). Essential Business Mathematics & Business Statistics, Ane Books Pvt. Ltd.
- Sydsaeter, K and P. Hammond (2002). Mathematics for Economic Analysis. Pearson Educational Asia.

TYBA (ECONOMICS) (SEMESTER-V)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XII	CREDIT	MARKS
ECOEMA506	ECONOMY OF MAHARASHTRA-I	3	80

Course Objectives

This paper provides a detailed account of various sectors of economy of Maharashtra i.e. natural resources, population, agriculture, industry, infrastructure, fiscal policy and human development. These units will introduce the various challenges faced by the economy of Maharashtra and efforts of the Government to tackle them.

Course Outcomes

- Students get acquainted with all varied sectors of the economy of Maharashtra
- Awareness on challenges to be faced and measures to tackle the challenges

Module 1: Introduction to Economy of Maharashtra

(12 Lectures)

Location and administrative divisions- Important features of the economy of Maharashtra- land, forest, climate and rainfall, fisheries and mineral resources-Formation of Maharashtra state- Sanyukt Maharashtra Movement – structural changes in state domestic product since 1991 -Maharashtra's place in India in various economic indicators.

Module 2: Demography of Maharashtra

Size and growth rate –Density- Birth rate, Death rate and infant mortality rate - Urban and rural population -Literacy rate - Sex ratio - Migration - Labour force -SC and ST population - Employment Guarantee Scheme (EGS) - Unemployment and poverty

Module 3: Agriculture Development in Maharashtra(12 Lectures)

Significance of agriculture in the economy of Maharashtra - Land utilisation in Maharashtra- Cropping pattern and per hectare yield -Trends in land productivity - Land reforms -Intensity of irrigation - Inequalities in land distribution in Maharashtra - Cooperatives in Maharashtra- Agricultural finance - Food security-Concept of PDS- Buffer stock of food grains- Allocation - Issue of farmers suicide - Agricultural policy in Maharashtra.

Module 4: Industrial Sector & Service Sector in Maharashtra(12 Lectures)

Major manufacturing industries - Important ratios of industrial groups in Maharashtra - Incentives and promotions to various industries in Maharashtra -Industrial policy of Maharashtra 2019 and 2024 -The role of MIDC, SICOM, MSFC, SEZ in industrial development - Foreign Direct Investment (FDI) in Maharashtra since 1991- Role of service sector in the economy of Maharashtra - sector in employment - Banking and finance.

- JungaleMangala (2008): Maharashtrachi Arthvyavastha (Marathi), Prashant Publications, 17, Stadium Shopping Centre, Opp. State Bank, Jalgaon – age No. 9 to 19.
- Kurulkar R. P. (1997): Maharashtrachi Arthvyavastha (Marathi), Vidya Prakashan, Ruikar Marg, Nagpur. Page No. 153 to 179.

- Munagekar Bhalchandra (2003) : The Economy of Maharashtra Changing Structure and Emerging Issues, Dr. Ambedkar Institute of Social and Economic Change, Mumbai.
- Patil J. F. (2010) :Suvarna Mahotsavi Maharashtrachi Badalati Arthvyavastha (Marathi), Abhijit Pratap Pawar, Sakal Papers Ltd., 595, Budhwar Peth, Pune-411002Page No. 41 to 57.
- Pansare Govind (2012) :Maharashtrachi Arthik Pahani Paryayi Drushtikon (Marathi), Shramik Pratishthan, Red Plug Bldg.,Bindu Chowk, Kolhapur, Page No. 159 to 195.
- 6. World Bank (2002) India: Maharashtra Reorienting Govt. to Facilitate Growth and Reduce Poverty.

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XII	CREDIT	MARKS
ECOHETB506	HISTORY OF ECONOMIC THOUGHT - I	3	80

Course Objectives

The very purpose of this course is to provide information about the biography and contribution of the most influential economists who influenced the economic fraternity and to whom we are obliged to for shaping up the economic thought process.

Course Outcome:

- Students will get information about the genesis of Economics and its modern scenario.
- Establish the co-relation of Economics with other subjects.

Module 1: Classical Economics

(12 Lectures)

Mercantilism and Physiocracy: Introduction -Adam Smith: Liberalism -Division of Labour -Theory of Value - David Ricardo: Rent Theory- Wage Theory - Theory of Value- Karl Marx: Surplus Value Materialistic Interpretation of History -Scientific Socialism.

Module 2: Neo-Classical Economics

Alfred Marshall : Thought on Value - Representative Firm - Consumer's Surplus - Internal and External Economies-Quasi Rent - Schumpeter: Economic Development And Innovation- Pigou :Welfare Economics.

Module 3: Keynesian Ideas

Employment Theory- Money- Wage Rigidity Model- Multiplier and accelerator and their interaction - Trade Cycle - Inflation -Role of Fiscal Policy - Keynesian Economics and Developing Countries.

Module 4: Post-Keynesian Economics

Supply Side Economics -Hayek's Theory of Trade Cycle- Life Cycle theory Consumption- Friedman: Theory of Demand for Money - Long-Run Philips Curve - Mankiw's New Keynesian Model -Stagflation.

References:

- 1. Dasgupta A. K, Epochs of Economic Theory Oxford University Press. New Delhi, 1985.
- Ernesto Screpanti and Stefano Zamagni, An Outline Of The History Of Economic Thought, OxfordUniversity Press Inc., New York, 5005.
- 3. Ghosh and Ghosh: Concise History of Economic Thought, Himalaya Publishers.
- 4. Gide, O. and G. Rist, A History of Economics Doctrine. George Harrop Co. London. 1956.
- 5. Harry Landreth and David C. Colander, History of Economic Thought, Houghton Mifflin Company Boston Toronto, 2001.
- 6. Roll, E., A History of Economics Thought. Faber Landon, 1973.

(12 Lectures)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO -XII	CREDIT	MARKS
ECOIBFC506	INTERNATIONAL BANKING AND FINANCE- I	3	80

Course Objectives

This syllabus serves as an introduction to the fundamentals of international finance. Various types of exchange rate systems and related developments are incorporated to understand the emergence of contemporary exchange rate systems. The students will make an in-depth study of foreign exchange market and international capital markets.

Course Outcomes

- Upon completion of the course the students are clear about the fundamentals of International Finance.
- They come across various types of exchange rate systems and related developments and emergence of contemporary exchange rate systems.
- It enable them in-depth study of foreign exchange market and international capital markets
- The course will result in the project work based on empirical case studies suggestive- examples: foreign exchange arithmetic, direct, indirect and cross rate and percentage spread.

Module 1: Fundamentals of International Finance (12 Lectures)

Meaning and scope of international 1 Finance - Balance of payments: structure and components-Convertibility of currency- International Monetary system- Gold Standard - Bretton Woods System failure of Bretton Woods- Smithsonian agreement- Special Drawing Rights- European Monetary system.

(12 Lectures)

Module 2: contemporary Exchange Rate Systems

Current exchange rate system- Fixed exchange rate - Flexible exchange rate - Merits and Demerits of fixed and flexible exchange rate - Types of fixed exchange rates hard pegs and soft pegs-Types of flexible exchange rate managed float and free float- Exchange rate determination under fixed and flexible exchange rate system.

Module 3: Foreign Exchange Market

Meaning and nature of foreign exchange market-Participants in foreign exchange market- Retail and wholesale components of forex market - Role of FEDAI, FEMA and regulatory framework- Foreign exchange arithmetic - Exchange rate quotation-direct, indirect and cross rate - Percentage spread.

Module 4: International Capital Markets

(12 Lectures)

Euro currency market-origin and reasons of growth- Euro currency deposits-loan bonds and notes markets- International equity market- depositary receipt-ADR, GDR and IDR- characteristics and mechanism of depositary receipts-International bond market- domestic bonds and foreign currency bonds FCCB & FCEB.

- 1. Cheol S. Eun ET. AL. International Finance (2012), McGraw Hill India.
- 2. Rajiv Srivastava, International Finance (2014) Oxford University Press, India.
- 3. S. AshokKumar, Global financial and Indian economy, New Century Publications, New Delhi.
- 4. Salvatore, Dominick, International Economics, 2008, 3rd edition, Wiley India.
- 5. Sodersten, Bo and Geoffery Reed, International Economics, 2006, 3rd edition.
- 6. V.A. Avadhani, International Finance, (2009), Himalaya Publishing House.

COURSE STRUCTURE (APPLICABLE FROM ACADEMIC YEAR: 2021-22) TYBA (SEMESTER –VI)

COURSE CODE		REVISED PAPER	CREDIT	MARKS	
GROUP - I : CORE PAPERS					
ECOAME601	XIII	ADVANCED MACROECONOMICS – III	4	100	
ECOIE602	VIV	INTERNATIONAL ECONOMICS	4	100	
		GROUP-II :ELECTIVE PAPERS	I	I	
ECOIFSA603	XV	INDIAN FINANIAL SYSTEM-II	3	80	
		OR		I	
ECOACB603	XV	ECONOMICS OF AGRICULTURE AND CO - OPERATION – II	3	80	
OR					
ECOILC603	XV	INDUSTRIAL AND LABOUR ECONOMICS – II	3	80	
ECORMA604	XVI	RESEARCH METHODOLOGY - II	4	100	
OR					
ECOQEB604	XVI	QUANTITATIVE ECONOMICS - II	4	100	
OR					
ECORDC604	XVI	RURAL DEVLOPMENT	4	100	
ECOEEA605	XVII	ENVIRONMENTAL ECONOMICS - II	4	100	
		OR	I	I	
ECOEIB605	XVII	ECONOMICS OF INSURANCE - II	4	100	
OR					
ECOBEC505	XVII	BASIC ECONOMETRICS	4	100	
ECOEMA606	XVIII	ECONOMY OF MAHARASHTRA –II	3	80	
OR					
ECOHETB606	XVIII	HISTORY OF ECONOMIC THOUGHTS – II	3	80	
		OR			
ECOIBFC606	XVIII	INTERNATIONAL BANKING AND FINANCE – II	3	80	

COURSE CODE	GROUP-I : CORE PAPER PAPER NO –XIII	CREDIT	MARKS
ECOAME601	ADVANCED MACROECONOMICS - III	4	100

Course Objectives

This course introduces the students to formal modeling of a macro economic theory with analytical tools. Since students have been taught Keynesian Synthesis, this course focuses on four aspects which are the study of Post Keynesian Synthesis, Trade Cycles, Exchange Rate Regimes and International Monetary System.

Course Outcomes

- To make students aware about Post Keynesian Synthesis and understand various aspects of Trade Cycles.
- Students will be able to describe the contemporary Exchange Rate Regimes and International Monetary System.

Module 1: Post Keynesian Synthesis

(14 Lectures)

Derivation of Aggregate Demand Curve with IS-LM - Aggregate Supply Curve - Determination of Equilibrium National Income and Price Level under Aggregate Demand and Aggregate Supply Model - Extension of IS-LM Model with Labour Market and Flexible Prices - Natural Rate of Unemployment-Long run Philips Curve - Friedman's Expectation Model - Tobin's Modified Philips Curve - Adaptive Expectations and Rational Expectations.

Module 2: Trade Cycles

Meaning- Nature- Features and Types of Trade Cycles - Phases of Trade Cycles - Theories of Trade Cycles- Hawtrey's, Kaldor, Paul Samuelson and Hicks - Measures to Control Trade Cycles.

Module 3: Exchange Rate Regimes and Currency Crises

Managed Exchange Rate- Advantage and Disadvantage - Policy of Managed Flexibility-Adjustable Peg System, Crawling Peg System, Managed Floating System, Clean and Dirty Float System - Balance of Payment and Exchange Rate - Is Balance of Payments Always in Balance? – Convertibility of Currency-Currency Crisis-Causes, Impact and Measures.

Module 4: International Monetary System

(12 Lectures)

Rise and Fall of International Gold Standard - Bretton Woods System- Breakdown of the Bretton Woods System - Monetary System after the Collapse of Bretton Woods System - Maastricht Treaty, Features, Effects and Importance of Euro- Currency Market - Causes and Consequences of Global Economic Crisis - Impact of Global Recession on the Indian Economy - Asia Infrastructure Investment Bank (AIIB) -New Development Bank (NDB): Asian Development Bank (ADB).

- 1. Blanchard, Oliver (2008), Macroeconomics, Pearson education, New Delhi, India.
- 2. Dornbusch, Fisher and Startz (2018): Macroeconomics, McGraw Hill Education (India) Pvt. Ltd.
- 3. Mankiw N Gregory (2003), Macroeconomics, 6" edition, Worth Publishers, New York.
- 4. Patil J. F (2005, Marathi Edition), Macroeconomic Analysis, Phadke Prakashan, Kolhapur.
- 5. Rana K. C. & Verma K.N (2017), International Economics, Vishal Publishing CO. Jalandhar.
- 6. Salvatore D. (1997), International Economics, Printice Hall, New York.

COURSE CODE	GROUP-I : CORE PAPER PAPER NO – XIV	CREDIT	MARKS
ECOIE602	INTERNATIONAL ECONOMICS	4	100

Course Objectives

The course is designed to provide a general understanding of the fundamentals of International Trade Theories along with the balance of payment concepts, crisis and various policy measures to correct the same. It also provides overview of the working of foreign exchange market, determination of exchange rate and different terms related with the foreign exchange market. The course introduces the main features of the international economic institutions and enables them to critically understand role and functions of those institutions.

Course Outcomes

- Students will be able to understand the trade theories and determinants of trade which helps them to analyze the international trade policies.
- Students will be able to understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade.

Module 1: Introduction to Trade Theories

(12 Lectures)

Meaning, scope and importance of International Trade- Difference between Internal and International Trade - Adam Smith's Theory of International Trade - Ricardian theory of comparative cost difference Heckscher- Ohlin Theory-Leontief's Paradox- Krugman's Model

Module 2: Balance of Trade and Balance of Payment(12 Lectures)

Concepts of Terms of Trade(Net barter, Gross barter and Income terms of trade)-Meaning and difference between Balance of Trade (BOT) and Balance of Payment (BOP)-Purchasing Power Parity theory, Law of Reciprocal Demand-Marshall-Edgeworth Offer curves, Gains from trade-Case for and against Free Trade and Protection policy

Module 3: Foreign Exchange Market

Meaning and Functions of Foreign Exchange Market-Exchange rate determination, Factors influencing foreign exchange rate-Managed Flexibility-SWAP Market, Components of foreign exchange reserves Foreign Aid Vs Foreign Trade, FDI and MNCs

Module 4: International Economic Institutions and Economic Integration(12 Lectures)

IMF, World Bank - Role and functions-WTO-Objectives, Functions and Agreements with respect to TRIPS, TRIMS, GATS, AoA - Forms and objectives of Economic Integration-Cartels-Trade Blocs, ASEAN- European Union (EU)- NAFTA and SAARC.

- Appleyard Dennis and Alfred j Field, Jr, International Economics, 2001, 4th Edition, Tata McGraw-Hill Education Private Limited.
- Cherunilam Francis, International Economics, 2009, 5th Edition, Tata McGraw-Hill Education Private Limited, New Delhi.
- Krugman R Paul, Maurice Obstefeld, International Economics Theory and Policy, 2009, 8th Edition, Pearson.
- Melitz M. and Trefler D., Gains from Trade When Firms Matter, Journal of Economic Perspectives, Spring 2012.
- 5. Salvatore, Dominick, International Economics, 2008, 8th Edition, Wiley India.
- 6. Sodersten, Bo and Geoffery Reed, International Economics, 2006, 3rd Edition.

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XV	CREDIT	MARKS
ECOIFSA603	INDIAN FINANCIAL SYSTEM-II	3	80

Course Objectives

The paper is framed to provide information on various financial markets including the participants, regulators of the respective markets and role of intermediaries. The syllabus also provides students with an overview of the features of the markets in India and the reforms that have been carried out in them over a period of time. Certain topics have been also incorporated to facilitate the students with practical exposure to the functioning of these markets and they indicate potential topics for case studies and taking up small research projects.

Course outcomes

- Focuses on features and functioning of financial markets as well as reforms therein.
- Empowers students about the evolution and significance of financial services, overview of new products and practices in the provision of financial services.
- Project work based on empirical case studies involving data analysis; suggestive examples: equity research, derivative pricing, analysis of financial performance of corporates, study of capital structure of corporates, mapping the trends in stock market indices, CIBIL score & lending practices of banks.

Module 1: Money Market and Debt Market

(12 Lectures)

Money market: meaning and functions- Structure of money market in India (dichotomous & heterogeneous) - Participants and instruments in Indian money market- Features of Indian money market-Reforms in Indian money market - Role of the RBI.

Debt market: meaning & functions - Segments in debt market- Participants & instruments in debt market-Role of intermediaries and the government in debt market - Recent trends in India's debt market.
Module 2: Capital market

Capital market: meaning, role and factors affecting growth of capital market - Structure of capital market-New issues or primary market: features, participants & intermediaries - Overview of issue mechanisms or methods of raising primary issues- Reforms in primary segment of Indian capital market & role of the SEBI.

Secondary market: features, participants & intermediaries - Listing of securities: types, advantages, requisites of listing - Basic mechanism of trading in securities - DEMAT- introduction to major stock exchanges in India: BSE, NSE and OTCEI- Reforms in secondary segment of Indian capital market.

Module 3: Derivatives Market

Derivatives: Need and significance - Participants in derivative markets- Types of derivatives (a. based on the underlying entity- financial, commodity, foreign currency, credit & interest rates and b. based on instruments- forwards, futures, options, swaps) - Pricing of derivatives: futures pricing, cost-of-carry model, options pricing -Derivative markets in India: evolution & growth, NCDEX, MCX, regulation of derivatives trading in India.

Module 4: Financial Services in India

Insurance: meaning, types, evolution and growth, E-portal for insurance policies, IRDA and PFRDA-Mutual Funds: meaning, composition, advantages, types of schemes-Evolution & growth, AMFI-Merchant banking: Evolution & growth, scope and recent developments in India - Credit rating: meaning, role and significance, agencies- depository services.

References:

- Bhole, L. M. (2008): Financial Institutions and Markets, Growth and Innovation, Tata McGraw-Hill, New Delhi.
- 2. Khan, M.Y. (2007): Financial Services, Tata McGraw Hill, New Delhi.
- 3. M.Y. Khan, Indian Financial System
- Pathak, Bharati (2008): The Indian Financial System –Markets, Institutions, and Services, (2nd Edition), Pearson Education, New Delhi.
- 5. Rajesh Kothari, Financial Services in India: Concept and Application
- 6. Vasant Desai, Indian Financial system.

(12 Lectures)

(12 Lectures)

(12 Lectures)

TYBA (ECONOMICS) (SEMESTER-VI)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XV	CREDIT	MARKS
ECOACB603	ECONOMICS OF AGRICULTURE AND CO-OPERATION-II	3	80

Course Objectives

The paper is designed to provide various aspects related to the Principles of cooperation and cooperative organizations in the globalized economy. The essentials of cooperative finance are dealt in with reference to the latest trends. The cooperative movement has a long history of more than hundred years. Indian Cooperatives Structure is one of the largest networks in the world. Under this backdrop the student should study the principles and role of cooperation in the modern era.

Course Outcomes

- Students can understand the basic Principles of Cooperation, Globalization and Cooperation.
- Provides information about co-operative Movement in India and its performance and role in rural development.
- Students get introduced to the problems and measures of agro industries and Cooperative farming and Leadership in cooperative development.

Module 1: Co-operation

(12 Lectures)

(12 Lectures)

Meaning and features of Co-operation- Principles of Co-operation (Manchester-1995) - Role of Cooperation in Economic development - Globalization and Co-operation-Importance and Benefits of Cooperation - Co-operative Movement in foreign Countries - Consumer Cooperative Movement in U.K-Agricultural Cooperative Movement in Israel.

Module 2: Co-operative Finance in India

Co-Operative Finance: Need, Structure. Progress and Problems - National Co-operative Development Corporation (NCDC) - Farmers service societies - Urban Co-operative banks,

Module 3: Agricultural Co-operatives

Role and Types of Agro-Industries - Problems and Measures of Agro-Industries - Sugar and Dairy Cooperatives - Food and Fruits Processing Industry - Co-Operative Farming.

Module 4: Co-operative Organizations in India

Consumer Co-operatives - Co-operative Marketing - NAFED - Housing Co-operative societies Labour Co-operative societies - Leadership in Cooperative development - Concept of Co-Operatives Audit.

References:

- Bedi R. D. (2001), Theory, History and Practice of Co-Operation, International Publishing House, Meerut (U.P.).
- 2. Government of Maharashtra Co-operative movement at a Glance (latest annual report).
- Hajela T.N, (2000), principles, problem and practice of Co-operation, Agarwal Publication, New Delhi.
- 4. Mathur B. S, (2000), Co-Operation in India, Sahitya Bhavan, Agra.
- 5. Matthai John, (1996), Agricultural Co-Operation in India, Reliance Publishing House, New Delhi.
- 6. Swami Krishna, (1985), Fundamentals of Co-Operation, S. Chand and Company Ltd, New Delhi.

TYBA (ECONOMICS) (SEMESTER-VI)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XV	CREDIT	MARKS
ECOILC603	INDUSTRIAL AND LABOUR ECONOMICS-I	3	80

Course Objectives

Issues pertaining to the labour market, wage policy, trade unions and amicable solutions to industrial disputes have become vital for developing countries, especially for India, where the bulk of the labour force is employed in the unorganised sector, and the organized sector is witnessing a phenomenon of

(12 Lectures)

jobless' growth. This paper intends to provide knowledge of the same and also discusses the importance of labour welfare and social security measures for the growing labour force in India.

Course outcomes

- Learners become aware about different problems and policies of labour. ٠
- Learners will get intoned about trade unions and industrial relation in contemporary world.
- Learned will know the different policies of labour welfare.

Module 1: Introduction - Indian Labour Market (12 Lectures)

Characteristics of the Indian Labour Market, Child Labour and Women Labour -Problems and Measures, Labour Market Reforms - Exit Policy and Need for Safety Nets, Second National Commission on Labour, Globalization and its impact on Indian Labours.

Module 2: Trade Unionism

Definition and Functions of Trade Unions, Historical Evolution of Trade Unions in India and their Present Status- Problems of Trade Unions in India- Role of Outside Leadership- International Labour Organization.

Module 3: Industrial Relations

Causes of Industrial Disputes and Their Settlement Mechanism- Collective Bargaining - Concept, Features - Importance and Pre-requisites for Successful Collective Bargaining - Collective Bargaining in India -Workers' Participation in Management- Concept, Objectives and Forms of Workers' Participation in India -Working Conditions and life style of Indian workers.

Module 4: Labour Welfare and Social Security

Concept -Theories and Principles of Labour Welfare- Agencies for Labour Welfare, Role of the Labour Welfare Officer - Social Security-Concept; Social Assistance and Social Insurance - Social Security Measures in India - Indian Labour Legislations.

(12 Lectures)

(12 Lectures)

(12 Lectures)

References:

- 1. Agrawal A.N. (2011), Indian Economy, New Age International Publishers, New Delhi.
- CO Monappa A, (2006), Industrial Relations, Tata McGraw Hill Publishing Company Ltd, New Delhi.
- 3. Datt R. and Sundaram K.P.M. (2009), Indian Economy, S.Chand & Co., New Delhi.
- 4. Mamoria C.B. and Mamoria S. (2002), Dynamics of Industrial Relations, Himalaya Publishing House, Mumbai.
- 5. U. Mishra S.K. and Puri V.K.(2008), Indian Economy, Himalaya Publishing House, Mumbai.
- 6. U. Ratna Sen, Industrial Relations in India Shifting Paradigms (2005), Macmillan, New Delhi.

TYBA (ECONOMICS) (SEMESTER-VI)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XVI	CREDIT	MARKS
ECORMA604	RESEARCH METHODOLOGY - II	4	100

Course Objectives

This paper has various objectives, like to enable students in understanding application of statistics in research, to prepare learners to realize about various analytical tools and methods in research, to orient the students to know index numbers, hypothesis formulations and testing and to make student understand about the research report writing.

Course Outcomes

- The learners get assimilated to the research culture in Economics through application of Statistics.
- The learners will understand the concept of index number with its use and applications.
- The course will help in formulation of hypotheses and its testing in social science research.
- The students will understand the writing of social science research reports with its various types, organization and styles.

Module 1: Application of Statistics in Research

Methods of studying correlation- measurement of simple correlation: graphic method- Scatter diagram-Coefficient of correlation- Karl Pearson and rank correlation- Interpretation of r = +1. Linear regression analysis: Meaning, regression lines, regression equation, regression equation relationship between correlation and regression- Analysis of time series- Components- Trend analysis- Moving averages (3, 4 and 5 Yearly) - Method of least square.

Module 2: Index Number:

Meaning and classification of index number - Problems encountered while constructing index numbers-Uses and limitation of index numbers - Methods of constructing index numbers: Simple index:

i) Aggregate method ii) Simple average of Relative method - Weighted index: Laspeyer's, Paache's, Fisher's and Marshall- Edgeworth - Base shifting - Deflating and Cost of living index number: Weighted average of Relative method - Aggregate Expenditure method- Chain based index - Concepts of base shifting, splicing, and deflating - Consumer price index- Meaning, need and construction.

Module 3: Hypothesis Formulation and Testing

Definition and functions of Hypothesis - Criteria of workable Hypothesis - Forms and sources of hypothesis- Concepts in testing of hypothesis: Universe / Population parameter and sample statistics-Types of hypotheses: Null and Alternative Hypotheses-Levels of significance-Critical region -Type I and Type II Errors -Student t- test.

Module 4: Research Report Writing

Types of research reports: Technical, Popular, Interim, Summary, Article- Format of a research report-Principles of writing the research report: Organization and style - Contents- Styles of reporting- Steps in drafting reports- Editing the final draft-Evaluating the final draft -Organization of the research report: Preliminaries, Contents of report, Structuring the report: Chapter format- Pagination- Identification-Using quotations, Presenting footnotes- Abbreviations- Presentation of tables and figures- Referencing documentation-Use and format of appendices- Indexing - Bibliography, Appendices.

(10 Lectures)

(14 Lectures)

(14 Lectures)

(10 Lectures)

References:

- 1. Allen, T. Harrell (1978), New methods in social science research, Praeges Publishes, New York
- 2. Bhandarkar P.L.,(1994), Samajik Sanshodhan Padhati, Himalaya Publication, New Delhi, (Marathi)
- Ghosh, B.N, (1992). Scientific methods and social research, Sterling publishers Pvt. Ltd, New Delhi.
- 4. Gupta S. P, (1987), Statistical methods, Sultan Chand and Sons, New Delhi
- Kothari R.C. (2008), Research methodology, methods and techniques, New Age International Publishers, 2nd revised edition, New Delhi.
- Krishnaswamy O.R. (1993), Methodology of research in social sciences, Himalaya Publishing House, Mumbai

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XVI	CREDIT	MARKS
ECOQEB604	OQEB604 QUANTITATIVE ECONOMICS – II		100

TYBA (ECONOMICS) (SEMESTER-VI)

Course Objectives

This paper proposes to equip the students with the idea of derivatives and integration along with its application in economic theory. The aim is to empower students with quantitative techniques such as correlation, regression and time-series, which will aid in for data analysis.

Course Outcomes

- Upon the completion of course students will be able to apply the techniques of derivatives and integration to economic theory
- Students can handle time series data and interpret the results.

Module 1: Techniques and applications of partial derivatives(12 Lectures)

Functions of several variables and partial derivatives - Second order partial derivatives - Optimization of multivariable functions-Constrained optimization with Lagrange multiplier and its economic

interpretation -Marginal productivity, Income and cross price elasticity of demand - Homogeneous production functions and returns to scale - Cobb- Douglas production function

Module 2: Integral Calculus

Integration and Definite integral; area under the curve - Economic applications - Present value of cash flows (present value of a sum to be received in future and present value of a stream of future income) -Consumer's and Producer's Surplus.

Module 3: Correlation and Regression Analysis (12 Lectures)

The meaning and significance of Correlation; Scatter plot of Bivariate Distributions; Correlation and Causation - Karl Pearson's coefficient of correlation: Spearman's rank correlation coefficient - Simple regression analysis- Method of Least Squares and Regression Lines, Regression Coefficients, Relationship between correlation coefficients and regression coefficients, Estimation and forecasting of trend by the Least Squares Method.

(12 Lectures) **Module 4: Index Numbers and Sampling Methods**

Simple and composite index numbers- Construction, uses and problems of index numbers- Laspeyre's, Paasche's and Fisher's Index numbers- Cost of living index numbers-real income - wholesale price index number- Splicing of index numbers, Sampling -Principal steps in a sample survey, methods of sampling, the role of sampling theory.

References:

- Chiang A.C (1984). Fundamental Methods of Mathematical Economics, 3rd ed., MeGraw-Hill. 1.
- 2. Dowling Edward T. (1993). Theory and Problems of Mathematical methods for Business and Economics. McGraw - Hill.
- Dowling Edward T. (2004). Introduction to Mathematical Economics Schaum's Outline Series in 3. Economics, Tata McGraw Hill.
- Gupta S.P. (2014). Statistical Methods, S. Chand publishing. 4.
- 5. Lerner Joel J and P. Zima (1986). Theory and Problems of Business Mathematics. McGraw Hill.
- 6. Sancheti D.C. and V.K. Kapoor (2014). Statistics-Theory Methods and Applications, S. Chand.

(12 Lectures)

TYBA (ECONOMICS) (SEMESTER-VI)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XVI	CREDIT	MARKS
ECORDC604	RURAL DEVELOPMENT	4	100

Course Objectives

This course would helpful to understand the various types of relationships in rural area. The learners will understand the basic issues in rural development. The course sheds light on a range of new developments and a host of issues studied by generations of rural area experts. The course is constructed from the point of rural development arrangement.

Course Outcomes

- On the completion of the course, the students will be able to understand the basic Concept of rural development.
- Learners will also be understanding objectives and importance of rural development.
- Learners will have good understanding of problems in relation of rural development.
- Learners will come to know what rural development programmes have initiated by the government to overcome the problems of rural development

Module 1: Rural Development: Introductory Aspects(12 Lectures)

Concept, Nature and Scope of Rural Development, Charactersties of the Rural Economy, Objectives and Importance of Rural Development, The problems of Rural Development in India

Module 2: Approaches to Rural Development (12 Lectures)

Gandhian Approach, Rural Reconstruction Approach, Community Development Approach, Sectoral Approach, Participatory Approach, Area- Specific and Target Group Oriented Approach, Integrated Rural Development and Economic Development with Social Justice Approach

Module 3: Diversification of Rural Economy

Livestock economics, Dairy Development, Social Forestry, Agro-Based Industries: Problems &

Remedial Measures, Role of KVIC in Rural Development, Recent Development of Science & Technology in Rural Development.

Module 4: Rural Empowerment Programmes

(12 Lectures)

An Overview of Rural Development Programmes, Provisions of Urban Amenities in Rural Area (PURA), Rural Employment: Mahatma Gandhi National Rural Employment Guarantee Act-2005 (MGNREGA), Rural Livelihoods: Deendayal Antyodaya Yojana - National Rural Livelihoods Mission (DAY-NRLM), National Social Assistance Programme (NSAP), Microfinance and Self-help Groups

References:

- Thomas William and A.J. Christopher (2011), Rural Development: Concept and Recent Approaches, Rawat Publication, Jaipur.
- Annual Report 2019-20, 2018-19 & State performance report-2018-19 and Action plan 2019-20, Volume-I, Ministry of Rural Development, Department of Animal Husbandary & Dairying, Government of India, New Delhi.
- 3. Datt & Sundharam (2012), Indian Economy, S. Chand & Company LTD. Mumbai.
- 4. Desai Vasant (2012), Rural Development in India, Himalaya Publishing House, Mumbai.
- Dr. I. Satya Sundaram (2002), Rural Development, Himalaya Publishing House, Mumbai. Page No. 3 to 24
- 6. Eleventh Five Year Plan 2007-12, Planning Commission, Government of India, New Delhi.

TYBA (ECONOMICS) (SEMESTER-VI)

COURSE CODE GROUP-II : ELECTIVE PAPER PAPER NO – XVII		CREDIT	MARKS
ECOEEA605	ENVIRONMENTAL ECONOMICS - II	4	100

Course Objectives

This paper introduces vital aspects related to environmental degradation and advocates the need for environmental accounting. The paper also focuses on the attainment of SDGs

Course Outcomes

- Students are empowered about the environmental challenges and the need for environmental accounting
- Develop understanding on the policy measures to attain SDGs.

Module1: Environmental Degradation

Concept and types of Environmental Degradation; Renewable and Non-renewable natural resources: Land, Air, Water and Noise Pollution: Causes, effects and measures.

Module 2: Environmental Accounting(12 Lectures)

Accounting for environmental and natural resources: Meaning and importance; System of Environmental-Economic Accounting (SEEA) and Environmental and Natural Resources Accounting (ENRA); Integration of Environmental Accounts with System of National Accounts: Green GDP; Concept of Green Growth and its Indicators; Concepts of Green Consumer and Green Business.

Module 3: Sustainable Development and India

Concept of Sustainable Development; Characteristics and dimensions of Sustainable Development; Sustainable Development Goals and Measures with special reference to India; Smart Cities Mission in India; National Mission For Sustainable Agriculture (NMSA): Objectives, strategy and components.

(12 Lectures)

(12 Lectures)

Module 4: Environmental Policy in India

Overview of laws to improve the environment in India; Central pollution Control Board; Industrial Pollution Control Measures in India; Pradhan Mantri Ujjwala Yojana (PMUY); National Green Tribunal.; Environmental Education in India.

References:

- 1. Barry Field and Martha k Field: Environmental Economics, McGraw Hill International Edition, 2017.
- Bhattacharya R.N. (Ed) (2001), Environmental Economics: An Indian Perspective, Oxford University Press, New Delhi.
- 3. Charles Kolstad : Environmental Economics, Oxford University Press, New York, 2000.
- 4. Hanley Nick, Shogren Jason and White Ben: Introduction to Environmental Economics, Oxford University Press, 2001.
- Kaltschmitt, Martin, Streicher, Wolfgang, Wiese, Andreas, Renewable Energy: Technology, Economics and Environment, Springer, Germany, 2007.
- V.S. Ganesamurthy: Environmental Economics in India, New Century Publications, New Delhi, 2009.

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XVII	CREDIT	MARKS
ECOEIB605	ECONOMICS OF INSURANCE - II	4	100

TYBA (ECONOMICS) (SEMESTER-VI)

Course Objectives

The course is designed to provide an understanding of the fundamentals of insurance. Insurance has a profound impact on the society as it manages, diversifies and absorbs the risk of individuals and organizations. Insurance companies as risk management service providers serve as bulwarks for the development of productive activities fuelling demand, facilitating supply and trade. The important role played by the insurance institutions in mobilizing savings and diverting them for capital formation is well known. In recent years, uncertainties experienced in life have been increasing and this in turn has created demand for insurance. With the opening of the insurance sector to private players, the interest in the

subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

Course Outcomes:

At the end of this course students will be able to:

- Identify and define basic terms and concepts of life, health & general insurance
- Assess the role of Insurance Sector regulator
- Understand risk classification, underwriting & premium calculation associated with insurance sector

Module 1: Introduction to Life Insurance

(12 lectures)

Meaning and Definition, Features of Life Insurance, Benefits of Life Insurance - Method of risk classification in Life Insurance - Treatment of Sub-standard risk in Life Insurance - Types of life insurance policies -Term insurance plan, Endowment policy - ULIP plan - Retirement plan - Calculation of net Premium - Calculation of single premium for one year term insurance policy - Calculation of single premium for of single premium for pure endowment insurance policy and calculation of single premium for ordinary endowment policy.

Module 2: Fundamentals of Life, General and Health Insurance (12 lectures)

Functions of Health & General Insurance - Underwriting process and methods: Definition - Objectives and Principles of Underwriting - Life insurance; Group Insurance: Meaning - Importance-Types of Group Insurance schemes.

Module 3: IRDAI & Rural Insurance

The Insurance Act, 1938 (as amended)-The Insurance Regulatory and Development Authority Act, 1999 (as amended) -The Regulatory Body- IRDAL duties- functions-powers and role- Rural Insurance: Need and potential of rural insurance - IRDAI provisions on obligations of insurers to rural and social sector-Need and significance of Micro Insurance.

(12 lectures)

Need for Information technology-Technologies for Insurance (Artificial Intelligence and Machine Learning)- IT application in functional areas - Marketing of Insurance products - Critical success factors for insurance players - Distribution channels - Marketing strategies of insurance players in India.

References:

- 1. Dr. MJ Mathew (2005), Insurance Principles & Practice, RBSA Publishers.
- 2. Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House.
- 3. Mahipal Naresh (2017), Insurance Laws, Central Law Publications.
- 4. Patukale Kshitij (2016), Mediclaim & Health Insurance, Prabhat Prakashan.
- 5. PK Gupta (2017), Fundamentals of Insurance, Himalaya Publishing House.
- 6. Zweifel Peter and Roland Eisen (2012), Insurance Economics, Springer Publication.

TYBA (ECONOMICS) (SEMESTER-VI)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XVII	CREDIT	MARKS
ECOBEC505	BASIC ECONOMETRICS	4	100

Course Objectives

The objective of this course is to impart a basic understanding of econometrics. At the same time, it will enhance the student's ability to apply the theoretical techniques to solve the problems of the real world.

Course Outcomes

By the completion of this course student will be able to do

- Testing of hypothesis and interpret the results in research.
- Regression analysis and interpret the results of the same in any discipline.
- Applications of relevant techniques for empirical problems in any discipline.

Concept of a random variable: Expected values of a random variable - Variance of a random variable – Types of distributions: Bernoulli, Binomial and Poisson, normal distribution. Conditional probability-Conditional mean and variance – Covariance and Correlation -Central limit theorem (without proof).

Module 2: Elements of Hypothesis Testing

Point and interval estimation - The Z distribution - The Null and Alternate hypotheses and significance testing for mean using Z distribution when population variance is known-The chi-square distribution and testing for sample variance with known population variance - The F distribution and comparing sample variances - The t distribution and hypothesis tests when population variance in unknown.

Module 3: Classical Linear Regression Model: Two Variable Case(12 lectures)

Two variable regression model-The concept of the PRF-Classical assumptions of regression - Derivation of the OLS estimators and their variance - Properties of OLS estimators under classical assumptions, Gauss-Markov Theorem (without proof) – Tests of Hypothesis, confidence intervals for OLS estimators - Measures of goodness of fit: R square and its limitations, adjusted R square and its Limitations.

Module 4: Violation of Classical Assumptions and Specification Analysis (12 lectures)

Multi-collinearity and its implications - Auto-correlation: Consequences and Durbin- Watson test-Heteroskedasticity: Consequences and the Goldfeld -Quandt test - Omission of a relevant variable -Inclusion of irrelevant variable.

References:

- 1. Damodar Gujarati (2011). Econometrics by Example. Palgrave Macmillan.
- 2. Damodar N., Gujarati (2003). Basic Econometrics. McGraw-Hill.
- 3. Hatekar N. (2010). Principles of Econometrics: An Introduction. Sage publications.
- 4. Jeffrey M. Wooldridge (2009). Econometrics, Cengage Learning.
- 5. Murray R. Spigel (1998). Schaum's Outline of Theory and Problems of Statistics. McGraw-Hill.
- 6. Stock J. Watson (2003) Introduction to Econometrics. Prentice Hall.

(12 lectures)

TYBA (ECONOMICS) (SEMESTER-VI)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XVIII	CREDIT	MARKS
ECOEMA606	ECONOMY OF MAHARASHTRA-II	3	80

Course Objectives

This paper enables the students to get awareness on the infrastructural aspects and policy related issues. The paper also throws light on the regional imbalances within the state.

Course Outcomes

- Provides deep understanding on the infrastructural and imbalances confronting the state.
- Throws light on the skills needed to tackle such issues

Module 1: Infrastructure in the Economy of Maharashtra(12 Lectures)

Importance of infrastructure in economic development -Types of infrastructure: 1. Economic infrastructure; Energy, Transport & Communication - Sources of energy -Power generation - Existing Capacity - Power crises -Development of roads - Rail transport- Water transport- Civil aviation-Irrigation projects - Communication Network 2. Social Infrastructure: Health and education facilities in Maharashtra.

Module 2: Fiscal Policy of Maharashtra

State Finance Commission, budget of state Government - Revenue Expenditure - Development and non development expenditure- Capital Expenditure- Development and non development expenditure - Trends in state Government expenditure Share in Central Government tax revenue -Taxes collected by state Government- Sources of non-tax revenue- Capital revenue sources- Trends in state Government revenue

(12 Lectures)

Module 3: Regional Imbalance in Maharashtra State

Meaning of regional imbalance -Nature of regional imbalances in Maharashtra - Causes of Regional Imbalance in Maharashtra - Problems Creates by Regional Imbalance in Maharashtra -Policy measures by State Government of Maharashtra for Regional Development.

Module 4: Human Development in Maharashtra

(12 Lectures)

Concept and importance - Comparison of HDI with other states in India - Region-wise HDI - Indicators of HDI - District-wise HDI in Maharashtra - Present situation and problems of weaker section in Maharashtra - Schemes of empowerment of weaker section in Maharashtra - Women empowerment in Maharashtra.

References:

- 1. Government of Maharashtra: Economic Survey of Maharashtra, Various Issues.
- Jungale Mangala (2008): Maharashtrachi Arthvyavastha (Marathi), Prashant Publications, 17, Stadium Shopping Centre,Opp. State Bank, Jalgaon -age No. 9 to 19.
- Munagekar Bhalchandra (2003): The Economy of Maharashtra Changing Structure and Emerging Issues, Dr. Ambedkar Institute of Social and Economic Change, Mumbai.
- 4. Pansare Govind (2012) :Maharashtrachi Arthik Pahani Paryayi Drushtikon (Marathi), Shramik Pratishthan, Red Plug Bldg.,Bindu Chowk,Kolhapur, Page No.159 to 195.
- Patil J. F. (2010): Suvarna Mahotsavi Maharashtrachi Badalati Arthvyavastha yio)) (Marathi), Abhijit Pratap Pawar, Sakal Papers Ltd., 595, Budhwar Peth, Pune- 411002.
- 6. World Bank (2002) India: Maharashtra Reorienting Govt. to Facilitate Growth and Reduce Poverty.

TYBA (ECONOMIC) (SEMESTER-VI)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO – XVIII	CREDIT	MARKS
ECOHETB606	HISTORY OF ECONOMIC THOUGHT-II	3	80

Course Objectives

This paper aims to provide the information about the biography and contribution of various economic thinkers. This paper is framed with the objective of making students aware of the varying phases of economic thoughts and development of that into economic science.

Course Outcome

- Students will get information about the genesis of Economics and its modern scenario.
- Students get familiarized with the leading Indian economists who significantly contributed to the stream of Indian economic thought.

Module 1: Indian Economic Thought

(12 Lectures)

Kautilya on welfare state -Dadabhai Naoroji's Thoughts on Drain Theory- Ranade's Case on Protection -R. C. Dutt on Imperialism - Land Tax and Public Finance - Gopal Ganesh Agarkar.

Module 2: Economic Thought of Mahatma Phule and Gandhi(12 Lectures)

Mahatma Phule's Views on Agriculture - Reasons of Farmer's Poverty - Gandhian Economic Thoughts on Self-Sufficient Village Economy - Dignity of Labour – Trusteeship - and Sarvodaya.

Module 3: Economic Thought of Dr. B.R. Ambedkar, G.K. Gokhale and Dr. Manmohan Singh (12 Lectures)

Dr. Ambedkar's Case for State Socialism - Problem of Rupee - Public Finance – G.K. Gokhale on Development and Welfare - Dr. Manmohan Singh's ' Three Steps' to Stem India's Economic Crisis.

Module 4: Nobel Prize Winners in Economics

Dr. Amartya Sen (1998) -Robert. A. Mundell (1999) -Joseph Stiglitz(2001) -Dr. Abhijeet Banarjee (2019)

References:

- 1. B.R.Nanda Gokhale (1977):- The Indian moderates and the British raj, Delhi.
- 2. Ajit K.Dasgupta, A History of Indian Economic Thought, (1993)Routledge London and New York.
- 3. Bipin Chandra (ed) (1999) Rande's economic writings, Gyan Publication House, New Delhi.
- 4. Encyclopaedia of Nobel Laureate, Ed's, (2002) R. Kapila & A. Kapila, Academic Foundation.
- 5. Gandhi. M. K., (1959), India of my dreams, Navjivan publishing house Ahmadabad.
- 6. R. P. Mansi, Dadabhai Naoroji, (1960) publication Division, Government of India Delhi.

TYBA (ECONOMICS) (SEMESTER-VI)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO –XVIII	CREDIT	MARKS
ECOIBFC606	INTERNATIONAL BANKING AND FINANCE- II	3	80

Course Objectives

This paper introduced to the fundamentals of international Banking to the students. The recent trend in international banking such as Islamic banking, Crypto currencies and their advantages and disadvantages will be familiarized. Role of International banking in foreign trade finance is incorporated to understand the international finance. In this semester, the students will make an in-depth study of international banking, financing and risk management.

Course Outcomes

- Equip students with fundamentals of International Banking.
- Provides an insight on emergence of Crypto currencies and Types of International Banking.
- Awareness on Foreign trade finance and Letter of Credit (L/C) & its types.
- The course will lead to the project work-based on empirical case studies

Module 1: International Banking –I

12 Lectures)

Introduction to International banking- Reasons for growth of international banking-Recent trends in international banking- Emergence of Crypto currency -Advantages and disadvantages of Cyptocurrencies- Bit coins

Module 2: International Banking II

12 Lectures)

Functions of international banking- Correspondent banking- International payment system- NRI accounts- Foreign Trade Finance - International Merchant banking -Offshore banking - International banking investment- Islamic banking.

Module 3: International Bank Financing

12 Lectures)

Financing Export project- International Remittances-Letter of Credit - L/C -Bank guarantee-International lending operations-Loan syndication-Phases of loan syndication-Types of loan syndication-Role of International Credit Rating agencies.

Module 4: Risk Management

12 Lectures)

Risk management and Derivatives- Types of Risks: Transaction risk, Translation risk, Economic risk, Settlement risk - Arbitrage- Hedging-Internal and External hedging-Derivative instruments for Risk Management -Forwards- Futures--Swaps- Options

References:

- 1. Cheol S. Eun ET. AL., International Finance (2012), McGraw Hill India.
- 2. Edition by IIBF, International Banking (2011), pan McMillan.

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- 3. Hull John C, Options, Futures and other derivatives, Pearson Education, 2005.
- 4. Rajiv Srivastava, International Finance (2014) Oxford University Press, India.
- 5. S. AshokKumar, Global financial and Indian economy' New Century Publications, New Delhi.
- 6. V.A. Avadhani, International Finance, (2009), Himalaya Publishing House.

		Ac			
	Item No				
	UNIVESITY OF MUMBAI				
0	SYL	LABUS FOR APPROVAL			
Sr.	Heading	Particular			
1NO.	Title of the Course	1 B A in Bural Development			
2	Fligibility for	1. HSC			
2	Admission	2. Graduate from any stream			
3	Passing Marks	Pass class.			
4	Ordinance /	-			
	Regulations (if any)				
5	No. of Years	1. B.A. (Rural Development) – 3 years			
6	Level	1. U.G.			
		2. P.G.			
	_				
7	Pattern	Semester. CBCS.			
0	<u><u>G</u>(</u>				
8	Status	Kevised as per CBCS pattern.			
9	To be implemented	Academic Year 2016-17.			
	from Academic Year				

Date: June 10, 2016

(2 Pueri

Name and Signature of Chairperson: Dr. Chandrakant Puri

Name of Signature of Dean: Principal M. S. Kurhade

<u>अक्ष्यास माचे उ5ेश-</u>

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University of Mumbai



Revised Syllabus and Question Paper Pattern of Courses of B.Com. Programme First Year Semester I and II

Under Choice Based Credit, Grading and Semester System

(To be implemented from Academic Year- 2016-2017)

Faculty of Commerce

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B.Com. Programme

Under Choice Based Credit, Grading and Semester System *Course Structure*

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		F.Y.B	Com.			
(To be implemented from Academic Year- 2016-2017)						
No. of Courses	Semester I	Credits	No. of Courses	Semester II	Credits	
1	Elective Courses (EC)		1	Elective Courses (EC)		
1A	Discipline Specific Elective(DSE)	Courses	1A	Discipline Specific Elective(DSE)Courses	
1	Accountancy and Financial Management I	03	1	Accountancy and Financial Management II	03	
1B	Discipline Related Elective(DRE)Courses	1B	Discipline Related Elective(DRE)Courses		
2	Commerce I	03	2	Commerce II	03	
3	Business Economics I	03	3	Business Economics II	03	
2	Ability Enhancement Courses (/	AEC)	2	Ability Enhancement Courses (AEC)		
2A	Ability Enhancement Compulso Courses (AECC)	ry	2A	Ability Enhancement Compulsory Courses (AECC)		
4	Business Communication I	03	4	Business Communication II	03	
5	Environmental Studies I	03	5	Environmental Studies II	03	
2B	*Skill Enhancement Courses (SL	<i>C)</i>	2B	**Skill Enhancement Courses (SEC)		
	· · · ·					
6	Any one course from the following list of the courses	02	6	Any one course from the following list of the courses	02	
6 3	Any one course from the following list of the courses Core Courses (CC)	02	6 3	Any one course from the following list of the courses Core Courses (CC)	02	
6 3 7	Any one course from the following list of the courses Core Courses (CC) Mathematical and Statistical Techniques I	02	6 3 7	Any one course from the following list of the courses Core Courses (CC) Mathematical and Statistical Techniques II	02	

*List of Skill Enhancement Courses (SEC) for Semester I (Any One)		**List of Skill Enhancement Courses (SEC) for Semester II (Any One)	
1	Foundation Course - I	1	Foundation Course - II
2	Foundation Course in NSS - I	2	Foundation Course in NSS - II
3	Foundation Course in NCC - I	3	Foundation Course in NCC - II
4	Foundation Course in Physical Education - I	4	Foundation Course in Physical Education - II
Note: Course selected in Semester I will continue in Semester II			

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B.Com. Programme

Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year- 2016-2017)

Semester I

No. of Courses	Semester I	Credits
1	Elective Courses (EC)	
1A	Discipline Specific Elective(DSE)Courses	
1	Accountancy and Financial Management I	03
1B	Discipline Related Elective(DRE)Courses	
2	Commerce I	03
3	Business Economics I	03
2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Courses (AECC)	
4	Business Communication I	03
5	Environmental Studies I	03
2B	*Skill Enhancement Courses (SEC)	
6	Any one course from the following list of the courses	02
3	Core Courses (CC)	
7	Mathematical and Statistical Techniques I	03
	Total Credits	20

*List of Skill Enhancement Courses (SEC) for Semester I (Any One)		
1	Foundation Course - I	
2	Foundation Course in NSS - I	
3	Foundation Course in NCC - I	
4	Foundation Course in Physical Education - I	

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Revised Syllabus of Courses of B.Com. Programme at Semester I with Effect from the Academic Year 2016-2017

Elective Courses (EC)-Discipline Related Elective (DRE) Courses

2.Commerce I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Business	12
2	Business Environment	11
3	Project Planning	12
4	Entrepreneurship	10
	Total	45

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Sr. No.	Modules / Units				
1	Business				
	Introduction: Concept, Functions, Scope and Significance of business. Traditional and Modern Concept of business.				
	business objectives, Reconciliation of Economic and Social Objectives.				
	New Trends in Business: Impact of Liberalization, Privatization and Globalization, Strategy alternatives in thechanging scenario, Restructuring and turnaround strategies				
2	Business Environment				
	Introduction:Concept and Importance of business environment, Inter- relationship between Business and Environment				
	Constituents of Business Environment :Internal and External Environment,				
	Educational Environment and its impact, International Environment – Current				
	and their impact on Indian Business.				
3	Project Planning				
	Introduction: Business Planning Process; Concept and importance of Project				
	Planning; Project Report; feasibility Study types and its importance				
	Business Unit Promotion: Concept and Stages of Business Unit Promotion,				
	Location – Factors determining location, and Role of Government in Promotion.				
	Statutory Requirements in Promoting Business Unit:Licensing and Registration				
	Fortroe course in				
4	Entrepreneursnip				
	Growth ofEntrepreneurship,Entrepreneur and Manager,Entrepreneur and				
	Intrapreneur The Entrepreneurs: Types of Entrepreneurs Competensies of an				
	Entrepreneurs.rypes of Entrepreneurs, competencies of an Entrepreneurs, competencies of an Entrepreneurs, conters in				
	India.Incentives to Entrepreneurs inIndia.				
	Women Entrepreneurs: Problems and Promotion.				

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B.Com. Programme

Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year- 2016-2017)

Semester II

No. of Courses	Semester II	Credits
1	Elective Courses (EC)	
1A	Discipline Specific Elective(DSE)Courses	
1	Accountancy and Financial Management II	03
1B	Discipline Related Elective(DRE)Courses	
2	Commerce II	03
3	Business Economics II	03
2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Courses (AECC)	
4	Business Communication II	03
5	Environmental Studies II	03
2B	**Skill Enhancement Courses (SEC)	
6	Any one course from the following list of the courses	02
3	Core Courses (CC)	
7	Mathematical and Statistical Techniques II	03
	Total Credits	20

	*List of Skill Enhancement Courses (SEC) for Semester II (Any One)
1	Foundation Course - II
2	Foundation Course in NSS - II
3	Foundation Course in NCC - II
4	Foundation Course in Physical Education - II

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Revised Syllabus of Courses of B.Com. Programme at Semester II with Effect from the Academic Year 2016-2017

Elective Courses (EC)-Discipline Related Elective(DRE) Courses

2. Commerce II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Concept of Services	12
2	Retailing	12
3	Recent Trends in Service Sector	10
4	E-Commerce	11
	Total	45

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Sr. No.	Modules / Units
1	Concept of Services
	Introduction: Meaning, Characteristics, Scope and Classification of Services –
	Importance of service sector in the Indian
	Marketing Mix Services: Consumer expectations, Services Mix, - Product, Place,
	Price, Promotion, Process of Services delivery, Physical evidence and people
	Service Strategies: Market research and Service development cycle, Managing
	demand and capacity, opportunities and challenges in service sector.
2	Retailing
	Introduction: Concept of organized and unorganized retailing, Trends in retailing,
	growth of organized retailing in India, Survival strategies for unorganized Retailers
	Retail Format: Store format, Non – Store format, Store Planning, design and
	layout
	Retail Scenario: Retail Scenario in India and Global context – Prospects and
	Challenges in India.Mall Management – RetailFranchising. FDI in Retailing, Careers
	in Retailing
3	Recent Trends in Service Sector
	ITES Sector: Concept and scope of BPO, KPO, LPO and ERP.
	Banking and Insurance Sector: ATM, Debit & Credit Cards, Internet Banking –
	Opening of Insurance sector for private players, FDI and its impact on Banking and
	Insurance Sector in India
	Logistics: Net working – Importance – Challenges
4	E-Commerce
	Introduction: Meaning, Features, Functions and Scope of E-Commerce-Importance
	andLimitations of E-Commerce
	Types of E-Commerce: Basic ideas and Major activities of B2C, B2B, C2C.
	Present status of E-Commerce in India: Transition to E-Commerce in India, E-
	Transition Challenges for Indian Corporates; on-line Marketing Research.

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Revised Syllabus of Courses of B.Com.Programme at Semester I and II

with effect from the Academic Year 2016-2017

<u>Reference Books</u>

Commerce

- Business Organisation Management Maheshwari, Rajendra P ,Mahajan, J.P.,International Book House
- Business Organisation, Maheshwari, Rajendra P, Mahajan, J.P., International Book House
- Introduction To Commerce, Vikram, Amit, Atlantic Pub
- A Course Book On Business Environment, Cherunilam, Francis, Himalaya Pub
- Business Environment, Cherunilam, Francis, Himalaya Pub
- Essentials Of Business Environment, Aswathappa,K., Himalaya Pub
- Essentials Of Business Environment, Aswathappa, Himalaya Pub
- Strategic Management, Kapoor, Veekkas, Taxmann
- Strategic Management, David, Fred R., Phi Leraning
- Strategic Management, Bhutani, Kapil, Mark Pub.
- Strategic Management, Bhutani, Kapil, Mark Pub.
- Entrepreneurship, Hisrich, Robert D, Mc Graw Hill
- Entrepreneurship Development, Sharma, K.C., Reegal Book Depot
- Service Marketing, Temani, V.K., Prism Pub
- Service Marketing, Temani, V.K., Prism Pub
- Management Of Service Sector, Bhatia, B S, V P Pub
- Introduction To E Commerce, Dhawan, Nidhi, International Book House
- Introduction To Retailing, Lusch, Robert F., Dunne, Patrick M., Carver, James R., Cengage Learning
- Retailing Management, Levy Michael., Weitz Barton A, Tata Mcgraw Hill

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PAPER PATTERN

COMMERCE PAPER I & II

SEMESTER - I& II

W.E.F. 2017-2018

Q.1 Multiple Choice Questions	
(A) Select the most appropriate answer from the option given below	10
(Any Ten out of Twelve)	
(B) State whether the following statements are True or False	10
(Any Ten out of Twelve)	
Q.2 Answer Any Two of the following Out of Three questions - Module - I	15
a.	
b.	
c.	
Q.3 Answer Any Two of the following Out of Three questions - Module - II	15
a.	
b.	
c.	
Q.4 Answer Any Two of the following Out of Three questions - Module - III	15
a.	
b.	
c.	
Q.5 Answer Any Two of the following Out of Three questions - Module - IV	15
a.	
b.	
c.	
Q.6 Write notes on Any Four out of Six	20

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University of Mumbai



Revised Syllabus and Question Paper Pattern of Courses of Bachelor of Commerce Programme Second Year Semester III and IV

Under Choice Based Credit, Grading and Semester System

To be implemented from Academic Year 2017-2018

Faculty of Commerce

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S.Y.B.Com

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1A	Discipline Specific Elective(DSE)	Courses	1A	Discipline Specific Elective(DSE) Courses	
1Aa	Discipline Specific Elective(DSE) Courses		1Aa	Discipline Specific Elective(DSE) Course	
1	Accountancy and Financial Management III	03	1	Accountancy and Financial Management IV	03
1Ab	Discipline Specific Elective(DSE)	Courses	1Ab	Discipline Specific Elective(DSE) Courses
2	*Any one course from the following list of the courses	03	2	*Any one course from the following list of the courses	03
1B	Discipline Related Elective(DRE) Courses		1B	Discipline Related Elective(DRE) Courses	
3	Commerce III	03	3	Commerce IV	03
4	Business Economics III	03	4	Business Economics IV	03
2	Ability Enhancement Courses (AEC)		2	Ability Enhancement Courses (AEC)	
2A	*Skill Enhancement Courses (SE	C)	2A	**Skill Enhancement Courses (SEC)	
	Group A			Group A	
5	*Any one course from the	03	5	*Any one course from the	03
	following list of the courses			following list of the courses	
2B	*Skill Enhancement Courses (SEC) Group B		2B	**Skill Enhancement Courses (Group B	SEC)
6	Any one course from the	02	6	Any one course from the	02
	following list of the courses			following list of the courses	
3	Core Courses (CC)		3	Core Courses (CC)	
7	Business Law I	03	7	Business Law II	03
Total Credits 20				Total Credits	20

(To be implemented from Academic Year- 2017-2018)

1Ab *List of Discipline Specific Elective (DSE) Courses for Semester III (Any One)		1Ab *List of Discipline Specific Elective(DSE) Courses for Semester IV (Any One)	
1	Financial Accounting and Auditing -	1	Financial Accounting and Auditing - Auditing
	Introduction to Management Accounting		
2	Business Management - Marketing	2	Business Management- Marketing
	Management		Management
3	Banking & Finance- Introduction to Banking in	3	Banking & Finance- Introduction to Banking
	India		in India
4	Commerce- International Business Relations	4	Commerce- International Business Relations

*List of Skill Enhancement Courses (SEC) Group A		*List of Skill Enhancement Courses (SEC) Group A		
jur semester III (Any One)		4	Joi Semester IV (Any One)	
1	Advertising I	1	Advertising II	
2	Field Sales Management I	2	Field Sales Management II	
3	Public Relations I	3	Public Relations II	
4	Mass Communication I	4	Mass Communication II	
5	Travel & Tourism Management Paper I	5	Travel & Tourism Management II	
6	Journalism I	6	Journalism II	
7	Company Secretarial Practice I	7	Company Secretarial Practice II	
8	Rural Development I	8	Rural Development II	
9	Co-operation I	9	Co-operation II	
10	Mercantile Shipping I	10	Mercantile Shipping II	
11	Indian Economic Problem I	11	Indian Economic Problem II	
12	Computer Programming I	12	Computer Programming II	
13	Logistic and Supply Chain Management I	13	Logistic and Supply Chain Management I	
14	Economic System I	14	Economic System II	
Note: Course selected in Semester III will continue in Semester IV				

*List of Skill Enhancement Courses (SEC) Group B for Semester III (Any One)		** List of Skill Enhancement Courses (SEC) Group B for Semester IV (Any One)		
1	Foundation Course- Contemporary Issues - III	1	Foundation Course- Contemporary Issues - IV	
2	Foundation Course in NSS - III	2	Foundation Course in NSS - IV	
3	Foundation Course in NCC - III	3	Foundation Course in NCC - IV	
4	Foundation Course in Physical Education - III	4	Foundation Course in Physical Education - IV	
No	Note: Course selected in Semester III will continue in Semester IV			

B.Com. Programme Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year-2017-2018)

Semester III

No. of Courses	Semester III	Credits
1	Elective Courses (EC)	
1A	Discipline Specific Elective(DSE) Courses	
1Aa	Discipline Specific Elective(DSE) Courses	
1	Accountancy and Financial Management III	03
1Ab	Discipline Specific Elective(DSE) Courses	
2	*Any one course from the following list of the courses	03
1B	Discipline Related Elective(DRE) Courses	
3	Commerce III	03
4	Business Economics III	03
2	Ability Enhancement Courses (AEC)	
2A	*Skill Enhancement Courses (SEC) Group A	
5	*Any one course from the following list of the courses	03
2В	*Skill Enhancement Courses (SEC) Group B	
6	Any one course from the following list of the courses	02
3	Core Courses (CC)	
7	Business Law I	03
	Total Credits	20

1Ab	*List of Discipline Specific Elective (DSE) Courses for
	Semester III (Any One)
1	Financial Accounting and Auditing - Introduction to
	Management Accounting
2	Business Management - Marketing Management
3	Banking & Finance- Introduction to Banking in India
4	Commerce- International Business Relations

*List of Skill Enhancement Courses (SEC) Group A for Semester III (Any One)		
1	Advertising I	
2	Field Sales Management I	
3	Public Relations I	
4	Mass Communication I	
5	Travel & Tourism Management Paper I	
6	Journalism I	
7	Company Secretarial Practice I	
8	Rural Development I	
9	Co-operation I	
10	Mercantile Shipping I	
11	Indian Economic Problem I	
12	Computer Programming I	
13	Logistic and Supply Chain Management I	
14	Economic System I	
Note: Course selected in Semester III will continue in Semester IV		

** List of Skill Enhancement Courses (SEC) Group B		
1	Foundation Course – Contemporary Issues- III	
2	Foundation Course in NSS - III	
3	Foundation Course in NCC - III	
4	Foundation Course in Physical Education - III	
Note: Course selected in Semester III will continue in Semester IV		

Elective Courses (EC) Discipline Specific Elective (DSE) Courses

1Aa. Accountancy and Financial Management III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Partnership Final Accounts based on Adjustment of Admission or Retirement/Death of a Partner during the year	15
2	Piecemeal Distribution of Cash	15
3	Amalgamation of Firms	15
4	Conversion / Sale of a Partnership Firm into a Ltd. Company	15
	Total	60

Sr. No.	Modules / Units
1	Partnership Final Accounts based on Adjustment of Admission or Retirement/Death of a Partner during the year
	 i) Simple final accounts questions to demonstrate the effect on final Accounts when a partner is admitted during the year or when partner Retires / dies during the year. ii) Allocation of gross profit prior to and after admission / retirement / death when stock on the date of admission / retirement is not given and apportionment of other expenses based on time / Sales/other given basis. iii) Ascertainment of gross profit prior to and after admission/retirement/death when stock on the date of admission/retirement is given and apportionment of other expenses based on time / Sales / other given basis Excluding Questions where admission / retirement / death takes place in the same year.
2	Piecemeal Distribution of Cash
	 i) Excess Capital Method only ii) Asset taken over by a partner iii) Treatment of past profits or past losses in the Balance sheet iv) Contingent liabilities / Realization expenses / amount kept aside for expenses and adjustment of actual v) Treatment of secured liabilities vi) Treatment of preferential liabilities like Govt. dues / labour dues etc. Excluding : Insolvency of partner and Maximum Loss Method
3	Amalgamation of Firms
	 i) Realization method only ii) Calculation of purchase consideration iii) Journal / ledger accounts of old firms iv) Preparing Balance sheet of new firm v) Adjustment of goodwill in the new firm vi) Realignement of capitals in the new firm by current accounts / cash or a combination thereof Excluding Common transactions between the amalgamating firms
4	Conversion / Sale of a Partnership Firm into a Ltd. Company
	(i) Realisation method only(ii) Calculation of New Purchase consideration, Journal / Ledger Accounts of old firms. Preparing Balance sheet of new company

Reference Text :

- 1. Ashish K. Bhattacharyya "Financial Accounting for Business Managers", Prentice Hall of India Pvt. Ltd.
- 2. Shashi K. Gupta "Contemporary Issues in Accounting", Kalyani Publishers.
- 3. R. Narayanaswamy "Financial Accounting", Prentice Hall of India, New Delhi
- 4. Ashok Sehgal "Fundamentals of Financial Accounting", Taxmann's Publishers

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 100

Questions to be set: 06

Duration: 03 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
INO		
Q-1	Objective Questions	20 Marks
	A) Sub Questions to be asked 12 and to be answered any 10	
	B) Sub Questions to be asked 12 and to be answered any 10	
	(*Multiple choice / True or False / Match the columns/Fill in the	
	blanks)	
Q-2	Full Length Question	15 Marks
	OR	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	OR	
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
	OR	
Q-4	Full Length Question	15 Marks
Q-5	Full Length Question	15 Marks
	OR	
Q-5	Full Length Question	15 Marks
Q-6	A) Theory questions	10 Marks
	B) Theory questions	10 Marks
	OR	
Q-6	Short Notes	20 Marks
	To be asked 06	
	To be answered 04	

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

Faculty of Commerce, University of Mumbai 8 | P a g e

Elective Courses (EC) Discipline Specific Elective (DSE) Courses

1Ab. Financial Accounting and Auditing – Introduction to Management Accounting

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Management Accounting	10
2	Ratio Analysis and Interpretation	15
3	Working Capital Management	10
4	Capital Budgeting	10
	Total	45

Sr. No.	Modules / Units	
1	Introduction to Management Accounting	
	 A. Introduction to Management Accounting – Meaning, Nature, Scope, Functions, Decision Making Process, Financial Accounting V/s Management Accounting B. Analaysis and Interpretation of Financial Statements i) Study of Balance sheet and Income statement / Revenue statements in vertical form suitable for analysis ii) Relationship between items in Balance Sheet and Revenue statement iii) Tools of analysis of Financial Statements (i) Trend analysis (ii) Comparative Statement (iii) Common Size Statement Note : (i) Problems based on trend analysis (ii) Short Problems on Comparative and Common sized statements 	
2	Ratio Analysis and Interpretation	
3	 (Based on Vertical Form of Financial statements) – Meaning, classification, Du Point Chart, advantages and Limitations) A. Balance Sheet Ratios : i) Current Ratio ii) Liquid Ratio iii) Stock Working Capital Ratio iv) Proprietary Ratio v) Debt Equity Ratio vi) Capital Gearing Ratio B. Revenue Statement Ratio: i) Gross Profit Ratio ii) Operating Ratio iii) Operating Ratio v) Net Profit Ratio vi) Net Profit Ratio vi) Net Operating Profit Ratio vi) Stock Turnover Ratio A. Combined Ratio : i) Return on capital employed (Including Long Term Borrowings) ii) Return on Equity Capital iv) Dividend Payout Ratio v) Debt Service Ratio vi) Dividend Payout Ratio vi) Debt Service Ratio vi) Debtors Turnover vii) Creditors Turnover (Practical Question on Ratio Analysis) 	
3		
	 A. Concept, Nature of Working Capital , Planning of Working Capital B. Estimation / Projection of Working Capital Requirement in case of Trading and Manufacturing Organization C. Operating Cycle 	

Sr. No.	Modules / Units		
4	Capital Budgeting		
	 A. Introduction: B. The classification of capital budgeting projects C. Capital budgeting process D. Capital budgeting techniques - Payback Period, Accounting Rate of Return, Net Present Value, The Profitability Index, Discounted Payback. (Excluding calculation of cash flow) 		

Reference Text :

- 1. Cost and Management Accounting Colinn Dury 7th Edition
- 2. Cost and Management Accounting- Dbarshi Bhattacharyya pearson Publications 2013 edition
- 3. Management Accounting M.Y.Khan
- 4. Management Accounting I.M.pandey

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 100

Questions to be set: 06

Duration: 03 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
INO		
Q-1	Objective Questions	20 Marks
	C) Sub Questions to be asked 12 and to be answered any 10	
	D) Sub Questions to be asked 12 and to be answered any 10	
	(*Multiple choice / True or False / Match the columns/Fill in the	
	blanks)	
Q-2	Full Length Question	15 Marks
	OR	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	OR	
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
	OR	
Q-4	Full Length Question	15 Marks
Q-5	Full Length Question	15 Marks
	OR	
Q-5	Full Length Question	15 Marks
Q-6	C) Theory questions	10 Marks
	D) Theory questions	10 Marks
	OR	
Q-6	Short Notes	20 Marks
	To be asked 06	
	To be answered 04	

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

Faculty of Commerce, University of Mumbai 12 | P a g e

Elective Courses (EC) Discipline Specific Elective (DSE) Courses

1Ab. Business Management-Marketing Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Marketing Management and Marketing Environment	10
2	Understanding Competition and Strategic Marketing	15
3	Product	10
4	Pricing	10
	Total	45

Sr. No.	Modules / Units
1	Marketing Management and Marketing Environment
	Marketing management : Definition, need and importance of marketing
	management
	Functions of Marketing Management
	Micro and Macro Environment with specific reference to India
	Emerging Marketing opportunities in India – Marketing at the bottom of the
	pyramid, growing middle class
	International marketing environment
2	Understanding Competition and Strategic Marketing
	Marketing strategy : Definition and Features
	 Steps in strategic marketing planning process
	SWOT Analysis
	Michael Porter's Five Forces Model
	Analyzing competition
3	Product
	Definition, Product Levels – Customer Value Hierarchy
	Product Classification : Based on durability and tangibility, consumer goods
	classification and industrial goods classification
	Product Life Cycle : Stages and features of each stage
	Product Positioning : Meaning and Importance
	Steps in Product Positioning
4	Pricing
	Meaning and objective of Pricing
	Factors affecting pricing decisions
	Methods of pricing : Mark-up pricing, Target-return Pricing, Perceived-value
	Pricing, Value Pricing, Going-Rate Pricing and Auction Pricing
	Steps in Pricing

Reference Books:

- 1. Philip Kotler (2003). Marketing Management : Eleventh Edition. New Delhi : Pearson Education
- 2. V. S. Ramaswani and S Namakumari (2002). Marketing : Planning, Implementation and Control (3rd Edition) New Delhi, Macmillan India
- 3. Michael Porter Competitive Advantage
- 4. Theodore Levitt Marketing Management
- 5. Fundamentals of Marketing William Stanton
- 6. Customer Driven Services Management (1999) Response Books

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 100

Questions to be set: 06

Duration: 03 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
No		
Q-1	Objective Questions	20 Marks
	E) Sub Questions to be asked 12 and to be answered any 10	
	F) Sub Questions to be asked 12 and to be answered any 10	
	(*Multiple choice / True or False / Match the columns/Fill in the	
	blanks)	
Q-2	Full Length Question	15 Marks
	OR	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	OR	
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
	OR	
Q-4	Full Length Question	15 Marks
Q-5	Full Length Question	15 Marks
	OR	
Q-5	Full Length Question	15 Marks
Q-6	E) Theory questions	10 Marks
	F) Theory questions	10 Marks
	OR	
Q-6	Short Notes	20 Marks
	To be asked 06	
	To be answered 04	

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

Faculty of Commerce, University of Mumbai 15 | P a g e

Elective Courses (EC)-1B Discipline Related Elective (DRE) Courses

3. Commerce –III

(Management: Functions and Challenges)

Course Objectives:

- To make the learners aware about conceptual knowledge and evolution of Management.
- To familiarize the learners with the functions in Management.

Sr. No.	Modules	No. of Lectures
1	Introduction To Management	11
2	Planning & Decision Making	10
3	Organising	12
4	Directing And Controlling	12
	Total	45

Sr. No.	Modules		
1	Introduction To Management (11)		
	 Management- Concept, Nature, Functions, Managerial Skills & Competencies Evolution of Management Thoughts Classical Approach: Scientific Management – F.W.Taylor'sContribution Classical Organisation Theory: HenriFayol's Principles Neo Classical: Human Relations Approach – EltonMayo'sHawthorne experiments Modern Management Approach-PeterDrucker's Dimensions of Management, Indian Management Thoughts: Origin & Significance of Indian Ethos to Management. 		
2	Planning & Decision Making (10)		
	 Planning - Steps, Importance, Components, Coordination – Importance M.B.O -Process, Advantages, Management By Exception- Advantages; Management Information System- Concept, Components Decision Making - Techniques, Essentials of a Sound Decision Making, Impact of Technology on Decision Making. 		
3	Organising (12)		
	 Organising-Steps, Organisation Structures – Features of Line & Staff Organisation, Matrix Organisation, Virtual Organisation, Formalv/s Informal Organisation. Departmentation -Meaning -Bases,Span of Management- Factors Influencing Span of Management, Tall and Flat Organisation. Delegation of Authority- Process, Barriers to Delegation, Principles of 		
	Effective Delegation. Decentralisation:Factors Influencing Decentralisation, Centralization v/s Decentralisation		
4	Effective Delegation. Decentralisation:Factors Influencing Decentralisation, Centralization v/s Decentralisation Directing And Controlling (12)		

SEMESTER-III REFERENCE BOOKS:

REFERENCES

- 1. Management Today Principles& Practice- Gene Burton, ManabThakur, Tata McGraw-Hill, Publishing Co.Ltd.
- 2. Management JamesA.F.Stoner, Prentice Hall, Inc.U.S.A.
- 3. Management : Global Prospective –Heinz Weihrich& Harold Koontz, Tata McGraw- Hill, Publishing Co.Ltd.
- 4. Essential of Database Management Systems -AlexisLeon ,MathewsLeon Vijay Nicole, Imprints Pvt Ltd.
- 5. Management Task , Resp, Practices PetaDruche "willian Heinemann LTD.

PAPER PATTERN

COMMERCE PAPER I & II

SEMESTER - III & IV

W.E.F. 2017-2018

Q.1 Multiple Choice Questions		
(A) Select the most appropriate answer from the option given below		
(Any Ten out of Twelve)		
(B) State whether the following statements are True or False	10	
(Any Ten out of Twelve)		
Q.2 Answer Any Two of the following Out of Three questions - Module - I	15	
a.		
b.		
C.		
Q.3 Answer Any Two of the following Out of Three questions - Module - II	15	
a.		
b.		
c.		
Q.4 Answer Any Two of the following Out of Three questions - Module - III	15	
a.		
b.		
c.		
Q.5 Answer Any Two of the following Out of Three questions - Module - IV	15	
a.		
b.		
c.		
Q.6 Write notes on Any Four out of Six		

Elective Courses (EC)-1B Discipline Related Elective (DRE) Courses

Business Economics III

Modules at a Glance

Sr. No.	Modules	No.of Lectures
1	Overview of Macroeconomics	10
2	Basic concepts of Keynesian Economics	10
3	Post Keynesian developments in Macro economics	10
4	Money, prices and Inflation	15
	Total	45

4.

BUSINESS ECONOMICS III

ELEMENTS OF MACROECONOMICS

<u>Preamble</u>

An overall approach to macroeconomics is to examine the economy as a whole. This course is an introduction to the basic analytical tools of macro economics to evaluate macro economic conditions such as inflation, unemployment and growth. It is designed to make system of overall economy understandable and relevant. The aim is to provide a clear explanation of many aspects of aggregate economic variables to inspire a consistent way of thinking about key macroeconomic phenomena. It intends to familiarize the commerce students with basic concepts of macroeconomics and with certain common features of economic occurrence in the real world.

Sr. No.	Modules / Units		
1	INTRODUCTION		
	 Macroeconomics: Meaning, Scope and Importance. Circular flow of aggregate income and expenditure and its Importance closed and open economy models The Measurement of National Product: Meaning and Importance of Nation Income Accounting- conventional and Green GNP and NNP concepts -Nation Income and Economic Welfare. Trade Cycles: Features and Phases Classical Macro economics : Say's law of Markets - Features, Implications a Criticism 		
2	BASIC CONCEPTS OF KEYNESIAN ECONOMICS		
	 The Principle of Effective Demand: Aggregate Demand and Aggregate Supply Consumption Function: Properties, Assumptions and Implications Investment function and Marginal Efficiency of capital Investment Multiplier effect on Income and Output: Assumptions, Working, Leakages, Criticism and Importance - paradox of thrift Relevance of Keynesian theory tools to the developing countries Liquidity Preference Theory of Interest 		
3	POST KEYNESIAN DEVELOPMENTS IN MACRO ECONOMICS		
	 The IS-LM model of integration of commodity and money markets Inflation and unemployment : Philips curve Stagflation : meaning, causes, and consequences Supply side economics 		
4	MONEY, PRICES AND INFLATION		
	 Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money Demand for Money : Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money Money and prices : Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach Inflation : Demand Pull Inflation and Cost Push Inflation - Effects of Inflation-Nature of inflation in a developing economy - policy measures to curb inflation-monetary policy and inflation targeting 		

Reference Books

Ackley.G (1976), Macro Economic Theory and Policy, Macmillan Publishing Co. New York

Ahuja. H.L., Modern Economics — S.Chand Company Ltd. New Delhi.

Blanchard Olivier (2000), Macro Economics, Englewood Elitt, Prentice Hall

Bouman John, Principles of Macro Economics

Dornbush, Rudiger, Fisher Stanley and Startz, Richards Macroeconomics, Nineth edition

2004 Tata-Mac Graw Hill, New Delhi.

Dwivedi, D.N. (2001), Macro Economics: Theory and Policy, Tata-Mac Graw Hill, New Delhi.

Friedman Hilton (1953) Essays in Positive Economics, University of Chicago Press, London.

Gregory .N. Mankiw, Macroeconomics, Fifth Edition (2002) New York: Worth Publishers

Jhingan, M.L., Principles of Economics — Vrinda Publications (P) Ltd.

Shapiro, E (1996), Macro-Economic Analysis, Galgotia Publication, New Delhi.

Vaish .M.C. (2010) Macro Economic Theory 14th edition, Vikas Publishing House(P)Ltd

QUESTION PAPER PATTERN

Business Economics Semester III

Maximum Marks: 100 Marks

Time: 3 Hours

Note: 1) Attempt all Questions

2) All Questions carry equal marks

3) Attempt any two questions out of three in each of question 2, 3, 4 & 5

Question	Particulars	Marks
No		
Q-1	Objective Questions:	20Marks
	A) Conceptual questions (Any Five out of Eight) (Two from each module)	10 Marks
	B) Multiple Choice Questions (10 questions at least two from each Module)	10 Marks
Q-2 (from Module I)	A) Full Length Question B) Full Length Question	20Marks
	C) Full Length Question	
Q-3 (from	A) Full Length Question	20Marks
	C) Full Length Question	
Q-4 (from	A) Full Length Question	20Marks
	C) Full Length Question	
Q-5 (from Module IV)	A) Full Length Question B) Full Length Question	20Marks
,	C) Full Length Question	

2 Ability Enhancement Courses (AEC) 2A * Skill Enhancement Courses (SEC) Group A

5. Advertising - I

Course Objective:

- 1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
- 2. It aims to orient learners towards the practical aspects and techniques of advertising.
- 3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

Sr. No.	Modules	No. of Lectures
1	Introduction to Advertising	12
2	Advertising Agency	11
3	Economic & Social Aspects of Advertising	11
4	Brand Building and Spécial Purpose Advertising	11
	Total	45

Sr. No.	Modules
1	Introduction to Advertising
	 Integrated Marketing Communications (IMC)- Concept, Features, Elements, Role of advertising in IMC Advertising: Concept, Features, Evolution of Advertising, Active Participants, Benefits of advertising to Business firms and consumers. Classification of advertising: Geographic, Media, Target audience and Functions.
2	Advertising Agency
	 Ad Agency: Features, Structure and services offered, Types of advertising agencies, Agency selection criteria Agency and Client: Maintaining Agency–Client relationship, Reasons and ways of avoiding Client Turnover, Creative Pitch, Agency compensation Careers in advertising: Skills required for a career in advertising, Various Career Options, Freelancing Career Options - Graphics, Animation, Modeling, Dubbing.
3	Economic & Social Aspects of Advertising
	 Economic Aspects: Effect of advertising on consumer demand, monopoly and competition, Price. Social aspects: Ethical and social issues in advertising, positive and negative influence of advertising on Indian values and culture. Pro Bono/Social advertising: Pro Bono Advertising, Social Advertising by Indian Government through Directorate of Advertising and Visual Publicity (DAVP), Self-Regulatory body- Role of ASCI (Advertising Standard Council of India)
4	Brand Building and Special Purpose Advertising
	 Brand Building: The Communication Process, AIDA Model, Role of advertising in developing Brand Image and Brand Equity, and managing Brand Crises. Special purpose advertising: Rural advertising, Political advertising-, Advocacy advertising, Corporate Image advertising, Green Advertising – Features of all the above special purpose advertising. Trends in Advertising: Media, Ad spends, Ad Agencies, Execution of advertisements

	Reference Books
Advertising	
1.	Advertising and Promotion : An Integrated Marketing Communications Perspective George Belch and Michael Belch, 2015, 10 th Edition, McGraw Hill Education
2.	Contemporary Advertising, 2017, 15th Edition, William Arens, Michael Weigold and Christian Arens, Hill Higher Education
3.	Strategic Brand Management – Kevin Lane Keller, 4th Edition, 2013 – Pearson Education Limited
4.	Kleppner's Advertising Procedure – Ron Lane and Karen King, 18th edition, 2011 – Pearson
a.	Education Limited
5.	Advertising: Planning and Implementation, 2006 – Raghuvir Singh, Sangeeta Sharma –Prentice Hall
6.	Advertising Management, 5th Edition, 2002 – Batra, Myers and Aaker – Pearson Education
7. 8.	Advertising Principles and Practice, 2012 - Ruchi Gupta – S.Chand Publishing Brand Equity & Advertising- Advertising's role in building strong brands, 2013- David A. Aker, Alexander L. Biel, Psychology Press
9.	Brand Positioning – Strategies for Competitive Advantage, Subroto Sengupta, 2005, Tata McGraw Hill Publication.
10	. The Advertising Association Handbook - J. J. D. Bullmore, M. J. Waterson, 1983 - Holt Rinehart & Winston
11	. Integrated Advertising, Promotion, and Marketing Communications, Kenneth E. Clow and Donald E. Baack, 5th Edition, 2012 – Pearson Education Limited
12	. Kotler Philip and Eduardo Roberto, Social Marketing, Strategies for Changing Public Behaviour, 1989, The Free Press, New York.
13 14	. Confessions of an Advertising Man, David Ogilvy, 2012, Southbank Publishing . Advertising, 10 th Edition, 2010 - Sandra Moriarty, Nancy D Mitchell, William D. Wells, Pearson

PAPER PATTERN

ADVERTISING PAPER I & II

SEMESTER - III & IV

W.E.F. 2017-2018

Q.1 Multiple Choice Questions	
(A) Select the most appropriate answer from the option given below	
(Any Ten out of Twelve)	
(B) State whether the following statements are True or False	10
(Any Ten out of Twelve)	
Q.2 Answer Any Two of the following Out of Three questions - Module - I	15
a.	
b.	
c.	
Q.3 Answer Any Two of the following Out of Three questions - Module - II	15
a.	
b.	
c.	
Q.4 Answer Any Two of the following Out of Three questions - Module - III	15
a.	
b.	
C.	
Q.5 Answer Any Two of the following Out of Three questions - Module - IV	15
a.	
b.	
C.	
Q.6 Write notes on Any Four out of Six	20

2 Ability Enhancement Courses (AEC) 2A * Skill Enhancement Courses (SEC) Group A

5. Field Sales Management – I

Course Objective:

- 1. To understand the concept of field sales management.
- 2. To Make Learners aware about practical applications of sales management.

Sr. No.	Modules	No. of Lectures
1	Field Sales Management	11
2	Sales Organisation	11
3	Sales Policies	11
4	Sales Force Management	12
	Total	45

Sr. No.	Modules	
1	Field Sales Management	
	 Introduction to Sales Management – Meaning & Concept – Nature, Objectives of Salesmanship, Function of Sales Management, Sales Management as a career option. Field Sales Management – Introduction, Concept of Personal Selling & Advertising, Difference between selling and Marketing, Difference between Advertising & Personal Selling, Changing face of Personal Selling. Sales Manager – Qualities & Qualification of Sales Manager – Essentials for a Successful Sales Manager – Duties & Responsibilities of a Sales Manager. 	
2	Sales Organisation	
	 Meaning, Nature, Characteristics of a Sales Organization, Need & Objectives of Sales Organization. Structure of Sales Organization, Types of Sales Organizations and factors affecting structure of Sales Organization. Centralization & Decentralization of Sales Organization, Merits and Demerits. 	
3	Sales Policies	
	 Product Policies – Branding , Promotional Policies – Promotional Measure Pricing Policies – Methods of Pricing, Factors, Strategies Place / Distribution Policies – Channels of Distribution-Types (Consumer & Industrial Goods) , Factors affecting selection of channel of distribution 	
4	Sales Force Management	
	 Recruitment and Selection of Salesforce – Concept, Sources of Recruitment Steps in selection process, Training of Salesforce -Methods Compensating & Motivating the Sales Team -Methods of Compensation, Monetary and Non-Monetary tools of Motivation. Evaluating Sales Force Performance, Functions, Sales records, Reporting, Performance Appraisal of Sales Force. 	

	Reference Books
Field	Sales Management
1.	Philip Kotler – Marketing Management, 11 th ed. Pearson Publication.
2.	Porter, Michel E. Competitive Strategy, New York: The Free Press, 1980.
3.	Tirodkar, Field Sales Management, Vani Publication, Pune.
4.	Richard R Still, Edward W. Candiff, Sales Management.
5.	M.D.Pestonjee, Motivation & Job Satisfaction.
6.	Tom Reilly, Value Added Selling
7.	Helen Woodruffe, Services Marketing, Macmillan Publication.
8.	V.S.Ramaswamy, S.Namakumari, Marketing Management, Global Prospective – Indian Concept, Macmillan Publication
	Concept, Machiman Fubication

PAPER PATTERN

FIELD SALES MANAGEMENT PAPER I & II

SEMESTER - III & IV

W.E.F. 2017-2018

Q.1 Multiple Choice Questions	
(A) Select the most appropriate answer from the option given below	
(Any Ten out of Twelve)	
(B) State whether the following statements are True or False	10
(Any Ten out of Twelve)	
Q.2 Answer Any Two of the following Out of Three questions - Module - I	15
a.	
b.	
C.	
Q.3 Answer Any Two of the following Out of Three questions - Module - II	15
a.	
b.	
C.	
Q.4 Answer Any Two of the following Out of Three questions - Module - III	15
a.	
b.	
c.	
Q.5 Answer Any Two of the following Out of Three questions - Module - IV	15
a.	
b.	
C.	
Q.6 Write notes on Any Four out of Six	20

2 Ability Enhancement Courses (AEC) 2A * Skill Enhancement Courses (SEC) Group A

5. Company Secretarial Practice - I

Course Objective:

- To provide the learners an insight about Company Secretarial Practices.
- To make the learners understand the role of Company Secretary towards Company's statutory provisions, rules and regulations.
- To make the learners understand the various aspects of Company Management, meetings and reports.

Sr. No.	Modules	No. of Lectures
1	Introduction to Company	12
2	Company Secretary Practices	12
3	Company Documentation and Formation	12
4	Secretarial Correspondence	10
	Total	45

Sr. No.	Modules		
1	Introduction to Company		
	 Introduction to Company – Features, Types -As per Company's Act, 2013. Company Secretary – Qualities, Qualifications, Appointment procedure, Resignation & Removal. Role of Company Secretary–Rights, Responsibilities, Liabilities of Company Secretary, Career options of Company Secretary. 		
2	Company Secretary Services		
	 Advisory Services – Role of Company Secretary as an advisor to Chairman, Secretary as an liaison officer between the (a) Company and Stock Exchange (b) Company and Depository Participants (c) Company and Register of Companies (ROC). Representation Services of Company Secretary at different forums- Company Law Board, Consumer Forum, SEBI, Arbitration & conciliation services, Cyber Law compliance, Secretarial Standards – Advantages, Secretarial Standards by ICSI, Secretarial Standards -1- 10. Secretarial Audit – Procedure and Stages, Need and Importance, Scope. 		
3	Company Documentation and Formation		
	 Memorandum of Association (MOA) - Clauses, Alteration of MOA, Ultra Vires. Articles of Association (AOA) – Contents, Prospectus – Statement in Lieu of Prospectus, Contents, Misleading Prospectus. Company Formation –Stages, Secretarial Duties at each stage in public company and private company. Conversion & Reconversion of Private and Public Company – Secretarial Procedure. 		
4	Secretarial Correspondence		
	 Correspondence- Shareholders, Debenture Holders, Registrar of Companies, Stock Exchange & penalties thereon Correspondence with SEBI, Company Law Board and penalties thereon, Role of technology in Secretarial Correspondence Specimens- Letter to shareholders - Rights Issue, Bonus Issue, Letter toROC-Alteration of MOA/AoA, Letter to Stock Exchange -Listing of shares, Letters to Government- Reconversion/Conversion, Letter to Bank - Overdraft Facility 		

COMPANY SECRETARIAL PRACTICE

REFERENCES

. .

Readings:			
: Guide to Company Law Procedure;			
Wadhwa& Company, Agra&Nagpur			
: Company Law Practice;			
BharatLaw House, New Delhi – 34			
: Company Procedures and Register of			
Companies, Tax Publishers, Delhi			
: Company Notices, Meetings and			
Resolutions, Taxmann, New Delhi			
: Guide to the Companies Act,			
Wadhwa& Company, Nagpur			
: Company Notices, Meetings and			
Resolutions, Kamal Law House, Kolkatta			
: E- Filling of Forms & returns			
: E-Company forms			
: Depository Participants (Law & Practice)			
: Meetings			
: Company Law			
: Company Law Procedures			
: Guide to Memorandum, Articles and			
Incorporation of Companies ;			
Wadhwa& Company, Agra&Nagpur			
: Company Law, Digest			
: ICSI Publication			
: ICSI Publication			
: L.M.Sharma, Post Box No. 2693,			
New Delhi – 110005.			
: Corporate Law Advisers, Post Bag			
No. 3, VasantVihar, New Delhi			

PAPER PATTERN

COMPANY SECRETRIAL PRACTICE - PAPER I & II

SEMESTER - III & IV

W.E.F. 2017-2018

Q.1 Multiple Choice Questions	
(A) Select the most appropriate answer from the option given below	
(Any Ten out of Twelve)	
(B) State whether the following statements are True or False	10
(Any Ten out of Twelve)	
Q.2 Answer Any Two of the following Out of Three questions - Module - I	15
a.	
b.	
c.	
Q.3 Answer Any Two of the following Out of Three questions - Module - II	15
a.	
b.	
C.	
Q.4 Answer Any Two of the following Out of Three questions - Module - III	15
a.	
b.	
C.	
Q.5 Answer Any Two of the following Out of Three questions - Module - IV	15
a.	
b.	
C.	
Q.6 Write notes on Any Four out of Six	20

2 Ability Enhancement Courses (AEC) 2A * Skill Enhancement Courses (SEC) Group A

Computer Programming Paper I

Modules at a Glance

5.

Sr. No.	Modules	No. of Lectures	
1	Hardware	15	
2	Software	15	
3	Introduction To C Programming	15	
4	C – Decision / Loop Statements	15	
5	Laboratory Training	15	
	Total	75	
Sr. No.	Modules / Units		
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1	UNIT – I : HARDWARE		
	Evolution of Computers – Generations, Types of Computers, Computer System, Characteristics, Basic Components of a Digital Computer – Control Unit, ALU, Input / Output, Functions and Memory, Memory Addressing Capability of a CPU, Binary number system, Binary addition (1's complement, 2's Complement), Binary to decimal and Decimal to Binary Conversion, Octal Number, Hexadecimal System, World length of a computer, processing speed of a computer.		
2	UNIT – II : SOFTWARE		
	Software and its Need, Types of Software – System Software, Application software, System Software – Operating System, Utility Program, Algorithms, Flow Charts – Symbols, Rules for making Flow chart, Programming languages, Assemblers, Compilers and Interpreter, Computer Applications in Business.		
3	UNIT – III : INTRODUCTION TO C PROGRAMMING		
	Structure of C program, Keywords, identifies, constants, variables, data types, type modifier, type conversion, types of operator and expressions, Input and Output functions in C (print(), sancf(), getchar(), putchar(), gets(), puts()). Storage class specifiers Header files(stdio.h,math.j,conop.j)		
4	UNIT – IV : C – DECISION / LOOP STATEMENTS		
	Decision Statement – if-else statement, break, continue, goto, switch() case and nested if statement. Loop control statements – for(), while(), do-while loop() and nested loops.		
5	LABORATORY TRAINING		
	 Lab 1 : Writing algorithms and drawing flowcharts (Input-process-output). Lab 2 : Writing algorithms and drawing flowcharts (Input-decision-process-output). Lab 3 : Writing algorithms and drawing flowcharts (Simple Loops). Lab 4 : Loading a C editor program-Entering and compiling a simple C-program. Lab 5 : C-program to input name-and sales & then print name and commission. Lab 6 : C-program to compute commission, discount etc using if() condition. Lab 7 : Computing income tax based on given criterion. Lab 8 : Printing numbers and summing number using loops. 		
1	Lab 9 : Printing interest and depreciation tables.		

QUESTION PAPER PATTERN

Maximum Marks: 75 Questions to be set: 05

Duration : $2\frac{1}{2}$ Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particulars	Marks
NO		
Q. 1.	Objective Questions	15 Marks
	A. Sub Questions to be asked 10 and to be solved any 08	
	B. Sub Questions to be asked 10 and to be solved any 07	
	(* Multiple choice / True or False / Match the columns)	
Q. 2.	Full Length Question	15 Marks
	OR	
Q. 2.	Full Length Question	15 Marks
Q. 3.	Full Length Question	15 Marks
	OR	
Q.3.	Full Length Question	15 Marks
Q. 4.	Full Length Question	15 Marks
	OR	
Q. 4.	Full Length Question	15 Marks
Q. 5.	Full Length Question	15 Marks
	OR	
Q. 5.	Short Notes	15 Marks
	To be asked 05	
	To be answered 03	

Note : Full length question of 15 marks may be divided into two sub questions of 08 and 07 marks.

Revised Syllabus of Courses of B.Com. Programme at Semester III with Effect from the Academic Year 2017-2018

2 Ability Enhancement Courses (AEC) 2B * Skill Enhancement Courses (SEC) Group B

Foundation Course- Contemporary Issues- III

6.

Sr. No.	Modules	No. of Lectures
1	Human Rights Provisions, Violations and Redressal	12
2	Dealing With Environmental Concerns	11
3	Science and Technology I	11
4	Soft Skills for Effective Interpersonal Communication	11
	Total	45

Sr. No.	Modules / Units		
1	Human Rights Violations and Redressal		
	 A. Scheduled Castes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures) B. Scheduled tribes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures) C. Women- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures) D. Children- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures) E. People with Disabilities, Minorities, and the Elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (4 Lectures) 		
2	Dealing With Environmental Concerns		
	 A. Concept of Disaster and general effects of Disasters on human life- physical, psychological, economic and social effects. (3 Lectures) B. Some locally relevant case studies of environmental disasters. (2 Lectures) C. Dealing with Disasters - Factors to be considered in Prevention, Mitigation (Relief and Rehabilitation) and disaster Preparedness. (3 Lectures) D. Human Rights issues in addressing disasters- issues related to compensation, equitable and fair distribution of relief and humanitarian approach to resettlement and rehabilitation. (3 Lectures) 		
3	Science and Technology – I		
	 A. Development of Science- the ancient cultures, the Classical era, the Middle Ages, the Renaissance, the Age of Reason and Enlightenment. (3 Lectures) B. Nature of science- its principles and characteristics; Science as empirical, practical, theoretical, validated knowledge. (2 Lectures) C. Science and Superstition- the role of science in exploding myths, blind beliefs and prejudices; Science and scientific temper- scientific temper as a fundamental duty of the Indian citizen. (3 Lectures) D. Science in everyday life- technology, its meaning and role in development; Interrelation and distinction between science and technology. (3 Lectures) 		
4	Soft Skills for Effective Interpersonal Communication		
	Part A (4 Lectures) I) Effective Listening - Importance and Features. II) Verbal and Non-Verbal Communication; Public-Speaking and Presentation Skills. III) Barriers to Effective Communication; Importance of Self-Awareness and Body Language. Part B (4 Lectures)		
	I) Formal and Informal Communication - Purpose and Types.		
	II) Writing Formal Applications, Statement of Purpose (SOP) and Resume.		
	Part C (3 Lectures)		
	 I) Leadership Skills and Self-Improvement - Characteristics of Effective Leadership. II) Styles of Leadership and Team-Building. 		

References

- 1. Asthana, D. K., and Asthana, Meera, *Environmental Problems and Solutions*, S. Chand, New Delhi, 2012.
- 2. Bajpai, Asha, Child Rights in India, Oxford University Press, New Delhi, 2010.
- 3. Bhatnagar Mamta and Bhatnagar Nitin, *Effective Communication and Soft Skills*, Pearson India, New Delhi, 2011.
- 4. G Subba Rao, Writing Skills for Civil Services Examination, Access Publishing, New Delhi, 2014
- 5. Kaushal, Rachana, *Women and Human Rights in India*, Kaveri Books, New Delhi, 2000.
- 6. Mohapatra, Gaur Krishna Das, *Environmental Ecology*, Vikas, Noida, 2008.
- 7. Motilal, Shashi, and Nanda, Bijoy Lakshmi, *Human Rights: Gender and Environment*, Allied Publishers, New Delhi, 2007.
- 8. Murthy, D. B. N., *Disaster Management: Text and Case Studies*, Deep and Deep Publications, New Delhi, 2013.
- 9. Parsuraman, S., and Unnikrishnan, ed., *India Disasters Report II*, Oxford, New Delhi, 2013
- 10. Reza, B. K., *Disaster Management*, Global Publications, New Delhi, 2010.
- 11. Sathe, Satyaranjan P., Judicial Activism in India, Oxford University Press, New Delhi, 2003.
- 12. Singh, Ashok Kumar, *Science and Technology for Civil Service Examination*, Tata McGraw Hill, New Delhi, 2012.
- 13. Thorpe, Edgar, General Studies Paper I Volume V, Pearson, New Delhi, 2017.

Projects / Assignments (for Internal Assessment)

- i. Projects/Assignments should be drawn for the component on Internal Assessment from the topics in **Module 1 to Module 4**.
- ii. Students should be given a list of possible topics at least 3 from each Module at the beginning of the semester.
- iii. The Project/Assignment can take the form of Street-Plays / Power-Point Presentations / Poster Exhibitions and similar other modes of presentation appropriate to the topic.
- iv. Students can work in groups of not more than 8 per topic.
- v. Students must submit a hard / soft copy of the Project / Assignment before appearing for the semester end examination.

QUESTION PAPER PATTERN (Semester III)

The Question Paper Pattern for Semester End Examination shall be as follows:

TOTAL MARKS: 75

DURATION: 150 MINUTES

QUESTION NUMBER	DESCRIPTION	MARKS ASSIGNED
1	 i. Question 1 A will be asked on the meaning / definition of concepts / terms from all Modules. ii. Question 1 B will be asked on the topic of the Project / Assignment done by the student during the Semester iii. In all 8 Questions will be asked out of which 5 have to be attempted. 	 a) Total marks: 15 b) For 1 A, there will be 3 marks for each sub- question. c) For 1 B there will be 15 marks without any break-up.
	nave to be attempted.	45
2	on Module 1	15
3	Descriptive Question with internal option (A or B) on Module 2	15
4	Descriptive Question with internal option (A or B) on Module 3	15
5	Descriptive Question with internal option (A or B) on Module 4	15

Revised Syllabus of Courses B.Com Programme at Semester III with Effect from the Academic Year 2017-2018

2. Ability Enhancement Courses (AEC) 2B. Skill Enhancement Courses (SEC)

6. Foundation Course in NSS - III

Sr. No.	Modules	No. of Lectures
1	Value System & Gender sensitivity	12
2	Disaster preparedness & Disaster management	10
3	Health, hygiene & Diseases	13
4	Environment & Energy conservation	10
	Total	45

Sr. No.	Modules / Units		
1	Value System & Gender sensitivity		
	 UNIT - I – Value System Meaning of value, Types of values- human values and social responsibilities- Indian value system- the concepts and its features UNIT - II - Gender sensitivity and woman empowerment Concept of gender- causes behind gender related problems- measures Meaning of woman empowerment- schemes for woman empowerment in India 		
2	Disaster preparedness & Disaster management		
	 UNIT - I - Basics of Disaster preparedness Disaster- its meaning and types Disaster preparedness- its meaning and methods UNIT - II - Disaster management Disaster management- concept- disaster cycle - role of technology in disaster response- role of as first responder – the study of 'Avhan' Model 		
3	Health, hygiene & Diseases		
	 UNIT - I - Health and hygiene Concept of complete health and maintenance of hygiene UNIT - II - Diseases and disorders- preventive campaigning Diseases and disorders- preventive campaigning in Malaria, Tuberculosis, Dengue, Cancer, HIV/AIDS, Diabetes 		
4	Environment & Energy conservation		
	 UNIT - I Environment and Environment enrichment program Environment- meaning, features , issues, conservation of natural resources and sustainability in environment UNIT - II Energy and Energy conservation program Energy- the concept, features- conventional and non- conventional energy Energy conservation- the meaning and importance 		

Revised Syllabus of Courses of B.Com Programme at Semester III with Effect from the Academic Year 2017-2018

2. Ability Enhancement Courses (AEC) 2B. Skill Enhancement Courses (SEC)

6. Foundation Course in NCC - III

Sr. No.	Modules	No. of Lectures
1	National Integration & Awareness	10
2	Drill: Foot Drill	10
3	Adventure Training and Environment Awareness and Conservation	05
4	Personality Development and Leadership	10
5	Specialized subject (ARMY)	10
	Total	45

Sr. No.	Modules / Units		
1	National Integration & Awareness		
	 Desired outcome: The students will display sense of patriotism, secular values and shall be transformed into motivated youth who will contribute towards nation building through national unity and social cohesion. The students shall enrich themselves about the history of our beloved country and will look forward for the solutions based on strengths to the challenges to the country for its development. Freedom Struggle and nationalist movement in India. National interests, Objectives, Threats and Opportunities. Problems/ Challenges of National Integration. 		
2	Drill: Foot Drill		
	 Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, turnout, develop the quality of immediate and implicit obedience of orders, with good reflexes. Side pace, pace forward and to the rear Turning on the march and whiling Saluting on the march Marking time, forward march and halt in quick time Changing step Formation of squad and squad drill 		
3	Adventure Training, Environment Awareness and Conservation		
3A	Adventure Training		
	 Desired outcome: The students will overcome fear & inculcate within them the sense of adventure, sportsmanship, espirit-d-corp and develop confidence, courage, determination, diligence and quest for excellence. Any Two such as – Obstacle course, Slithering, Trekking, Cycling, Rock Climbing, Para Sailing, Sailing, Scuba Diving etc. 		
3B	Environment Awareness and Conservation		
	 Desired outcome: The student will be made aware of the modern techniques of waste management and pollution control. Waste management Pollution control, water, Air, Noise and Soil 		
4	Personality Development and Leadership		
	 Desired outcome: The student will inculcate officer like qualities with desired ability to take right decisions. Time management Effect of Leadership with historical examples Interview Skills Conflict Motivos: Resolution 		
	Connict Wolfves- Resolution		

Sr. No.	Modules / Units	
5	Specialized Subject: Army Or Navy Or Air	
5	Army Desired outcome: It will acquaint, expose & provide knowledge about Army/ Navy/ Air force and to acquire information about expanse of Armed Forces ,service subjects and important battles A. Armed Force • Task and Role of Fighting Arms • Modes of Entry to Army • Honors and Awards B. Introduction to Infantry and weapons and equipments • Characteristics of 5.56mm INSAS Rifle, Ammunition, Fire power, Stripping, Assembling and Cleaning • Organization of Infantry Battalion. C. Military history • Study of battles of Indo-Pak War 1965,1971 and Kargil • War Movies D. Communication • Characteristics of Walkie-Talkies • Basic RT Procedure	
	 Latest trends and Development (Multi Media, Video Conferencing, IT) OR 	
	Navy	
	 A. Naval orientation and service subjects Organization of Ship- Introduction on Onboard Organization Naval Customs and Traditions Mode of Entry into Indian Navy Branches of the Navy and their functions Naval Campaign (Battle of Atlantic, Pearl Harbour, Falkland War/Fleet Review/ PER/ IER)s 	
	B. Ship and Boat Modelling	
	 Types of Models Introduction of Ship Model- Competition Types of Model Prepare in NSC and RDC Care and handling of power-tools used- maintenance and purpose of tools 	

Sr. No.	Modules / Units
	C. Search and Rescue
	Role of Indian Coast Guard related to SAR
	D. Swimming
	 Floating and Breathing Techniques- Precautions while Swimming
	OR
	AIR
	A. General Service Knowledge
	Organization Of Air Force
	Branches of the IAF.
	B. Principles of Flight
	Venturi Effect
	Aerofoil
	Forces on an Aircraft
	Lift and Drag
	C. Airmanship
	ATC/RT Procedures
	Aviation Medicine
	D. Aero- Engines
	Types of Engines
	Piston Engines
	Jet Engines
	Turboprop Engines

Revised Syllabus of Courses of B.Com. Programme at Semester III with Effect from the Academic Year 2017-2018

2 Ability Enhancement Courses (AEC) 2B * Skill Enhancement Courses (SEC) Group B

6. Foundation Course in Physical Education Paper-III

Sr. No.	Modules	No of Lectures
1	Overview of Nutrition	10
2	Evaluation of Health, Fitness and Wellness	10
3	Prevention and Care of Exercise Injuries	10
4	Sports Training	15
	Total	45

Sr. No.	Modules / Units
1	Overview of Nutrition
	Introduction to nutrition & its principles
	Role of Nutrition in promotion of health
	Dietary Guidelines for Good Health
	Regulation of water in body and factors influencing body temperature.
2	Evaluation ofHealth, Fitness and Wellness
	Meaning & Concept of holistic health
	Evaluating Personal health-basic parameters
	Evaluating Fitness Activities – Walking & Jogging
	Myths & mis-conceptions of Personal fitness
3	Prevention and Care of Exercise Injuries
	Types of Exercise Injuries
	First Aid- Importance & application in Exercise Injuries
	Management of Soft tissues injuries
	Management of bone injuries
4	Sports Training
	Definition, aims & objectives of Sports training
	Importance of Sports training
	Principles of Sports training
	Drug abuse & its effects

R.____: The Scheme of Examination:

The performance of the learners shall be evaluated in two components: Internal Assessment with 25% marks by way of continuous evaluation and by Semester End Examination with 75% marks by conducting the theory examination.

INTERNAL ASSESSMENT:- It is defined as the assessment of the learners on the basis of continuous evaluation as envisaged in the credit based system by way of participation of learners in various academic and correlated activities in the given semester of the programme.

A) Internal Assessment – 25%

25 Marks

Sr. No.	Particulars		Marks
1	A project to be prepared by an individual learner or a g	roup of learners	
	in not more than five learners in a group. It is to be eva	luated by the	
	teacher concerned.		20 Marks
	Hard Copy of the project*	10 Marks	
	Presentation	05 Marks	
	Viva/Interaction	05 Marks	
2	Active participation in routine class instructional deliveries and overall		05 Marks
	conduct as a responsible learner, mannerism and articulation and		
	exhibit of leadership qualities in organizing related academic activities.		

The marks of the internal assessment should not be disclosed to the students till the results of the corresponding semester is declared.

SEMESTER END EXAMINATION:- It is defined as the examination of the learners on the basis of performance in the semester end theory / written examinations.

B) Semester End Examinations – 75%

75 Marks

The assessment of **Part 'A' i.e. Internal Assessment and Part 'B' i.e. Semester End Examination** as mentioned above for the Semesters I to IV shall be processed by the Colleges / Institutions of their learners and issue the grade cards to them after the conversion of marks into grade as per the procedure.

INTERNAL ASSESSMENT (PRACTICUM) (25 Marks)

SEMESTER -III

(Continuous Evaluation during practical sessions conducted for 27 hours)

- a. A learner willing to participate in inter-collegiate/ inter university competitions of any game and sports conducted by the University of Mumbai will be evaluated for 15 marks on the basis of his attendance, sincerity and performance during the training / practice / coaching sessions / camps conducted by the college/University for at least 10 days. It is expected that the colleges should organize training / practice / coaching sessions / camps of various games and sports as per the choice of the learner. However, due to unavailability of the same in his / her college if a learner participates in the training / practice / coaching sessions / camps organized by other organizations or clubs of sports and games, may be considered for evaluation for 15 marks on the basis of the proofs of attendance and participation submitted by a learner.
- A learner will be taught the following yogic practices by conducting practicals for at least 10 sessions (one hour each) and will be assessed by the concern teacher for marks out of 10 on the basis of his attendance, sincerity and performance.
- Yogic Practices :- Shirshasana, Sarvangasana, Matsyasana, Halasana, Bhujangasana, Shalbhasana, Dhanurasana, Ardhamatsendrasana, Pashchimotanasana, Mayurasana, Shavasana, Yoga Mudra & Uddiyan Bandh, Nauli, Kapalbhati, Ujjayyi Pranayam, Bhastrika, Omkar and Dhyana.
 - (Note:- The above yoga practical sessions should be conducted in a such way that every learner must realize its effects as well as should make it as a part of his/her life style).

Revised Syllabus of Courses of B.Com. Programme at Semester III with Effect from the Academic Year 2017-2018

2 Ability Enhancement Courses (AEC) 2B * Skill Enhancement Courses (SEC) Group B

7. Business Law - I

Course Objective:

- To provide a conceptual study about the framework of Indian Business Laws.
- To orient students about the legal aspects of business
- To familiarize the students with case law studies related to Business Laws of Semester III and IV.

Sr. No.	Modules	No. of Lectures
1	Indian Contract Act – 1872 Part -I	12
2	Indian Contract Act – 1872 Part -II	12
3	Special Contracts	12
4	The Sale Of Goods Act - 1930	12
5	The Negotiable Instruments (Ammended) Act 2015	12
	Total	60

Sr. No.	Modules		
1	Indian Contract Act – 1872 Part –I		
	Contract – Definition of Contract and Agreement, Essentials of Valid Contract, Classification of Contracts		
	 Offer and Acceptance – Rules of valid offer and acceptance, Counter offer, standing or open offer, distinguish between offer and invitation to offer. Concept of Communication and Revocation of offer and acceptance (sec. 3,5) 		
	• Capacity to Contract (S. 10-12) – Minor, Unsound Mind, Disqualified Persons.		
	 Consideration (S. 2 & 25) – Concept and Importance of consideration, Legal rules of Consideration, Exceptions to the Rule, 'No Consideration No Contract'(Ss. 25) Unlawful Consideration (S 23) 		
2	Indian Contract Act – 1872 Part –II		
	 Consent (Ss.13, 14-18, 39.53, 55, 66)-Agreements in which consent is not free Coercion, Undue Influence, Misrepresentation Fraud, Mistake. 		
	 Void Agreements (S. 24-30) – Concept, Void Agreements under Indian Contract Act. 		
	 Contingent Contract (S. 31), Quasi Contract (S.68-72), Concept of E- Contract& Legal Issues in formation and discharge of E- Contract. Concept of Performance of Contract (S 37) 		
	 Modes of Discharge of Contract, Remedies on breach of Contract.(73-75) 		
3	Special Contracts		
	 Law of Indemnity & Guarantee (Ss. 124-125, Ss. 126-129, 132-147) – Concept, Essentials elements of Indemnity and Guarantee, Contract of Indemnity vs. Guarantee, Modes of Discharge of Surety. 		
	 Law of Bailment (S. 148, 152-154, 162, 172, 178, 178A, 179) – Concept, Essentials of Bailment, Kinds of Bailment, Rights and Duties of Bailor and Bailee 		
	 Law of Pledge – Concept, Essentials of valid Pledge, Lien - concept, Difference between Pledge and Lien, Rights of Pawnor & Pawnee. (Ss. 173, 174, 177) 		
	 Law of Agency (Ss. 182-185, 201-209) – Concept, Modes of creation of Agency, Modes of termination of Agency, Rights& Duties of Principal and Agent. 		

4	The Sale Of Goods Act - 1930
	 Contract of Sale (S.2) – Concept, Essentials elements of contract of sale, Distinction between Sale and Agreement to sell (S.4) Distinguish between Sale and Hire Purchase Agreement, Types of Goods. Effects of destruction of Goods (Ss. 6,7.8), Conditions & Warranties (Ss. 11-25 & 62, 63) – Concept, Distinguish between Conditions and Warranties, Implied Conditions & Warranties, Concept of Doctrine of Caveat Emptor –Exceptions. Property – Concept , Rules of transfer of property (Ss. 18-26) Unpaid Seller (Ss. 45-54, 55 & 56)- Concept, Rights of an unpaid seller, Remedies for Breach of contract of Sale (Ss. 55-61),Auction sale – Concept, Legal Provisions. (S. 64)
5	The Negotiable Instruments (Ammended) Act 2015
	 Negotiable Instruments – Concept (S13), Characteristics, Classification of Negotiable Instruments (Ss. 11, 12, 17-20, 42, 43, 104,134,135) Maturity of Instruments. Promissory Note and Bill of Exchange (Ss. 4,5, 108-116)- Concept, Essentials of Promissory Note, Bill of Exchange (Ss. 4,5), Essential features of promissory note and Bill of exchange, Kinds Promissory note and Bill of exchange, Cheque (S.6)– Concept, Types & Crossing of Cheque, Distinguish between Bill of Exchange & Cheque, Dishonour of Cheque – Concept & Penalties (Ss. 138, 139,142) Miscellaneous Provisions (S. 8-10, 22, 99-102, 118-122, 134-137) –Parties to Negotiable instruments Holder, Holder in due course, Rights & Privileges of Holder in due course, Payment in due course, Noting & Protest (99-104A)

SEMESTER-III REFERENCE BOOKS:

REFERENCES

- 1. Law of Contract: Avatar Singh, Eastern Book Company.
- 2. Merchantile Law: by M.C.Kucchal.
- 3. Business Law : N.D.Kapoor
- 4. The Law of Contract: An Outline by Dr. Nilima Chandiramani, Avinash Publications.
- 5. Law of Sale of Goods and Partnership: A Concise Study by Dr. Nilima Chandiramani, Shroff Publishers.
- 6. The Sale of Goods Act: P. Ramanatha Aiyar, University Book Agency.
- 7. The Negotiable Instruments Act: Bhashyam & Adiga, Bharat Law House.
- 8. The Negotiable Instruments Act: Avatar Singh, Eastern Book Company
- 9. Khergamvala on the Negotiable Instruments (Amendment)Act,2015,Lexis Nexis

PAPER PATTERN

S.Y.B.COM

SEMESTER III &IV

BUSINESS LAW PAPER I & II

(100 Marks Paper Per Semester)

- 1. Question paper to have Five Questions (One from Each Module) 20 Marks Each
- 2. All Questions to be Compulsory.
- **3. Each Question to have Four Sub Questions of Ten Marks Each** (Students to answer any Two out of Four)

Question Paper Pattern (Practical Courses)

Maximum Marks: 100

Questions to be set: 06

Duration: 03 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
NO		
Q-1	Objective Questions	20 Marks
	A) Sub Questions to be asked 12 and to be answered any 10	
	B) Sub Questions to be asked 12 and to be answered any 10	
	(*Multiple choice / True or False / Match the columns/Fill in the	
	blanks)	
Q-2	Full Length Practical Question	15 Marks
	OR	
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question	15 Marks
	OR	
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question	15 Marks
	OR	
Q-4	Full Length Practical Question	15 Marks
Q-5	Full Length Practical Question	15 Marks
	OR	
Q-5	Full Length Practical Question	15 Marks
Q-6	A) Theory questions	10 Marks
	B) Theory questions	10 Marks
	OR	
Q-6	Short Notes	20 Marks
	To be asked 06	
	To be answered 04	

Note:

Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

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Question Paper Pattern (Theoretical Courses)

Maximum Marks: 100

Questions to be set: 06

Duration: 03 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
NO		
Q-1	Objective Questions	20 Marks
	G) Sub Questions to be asked 12 and to be answered any 10	
	H) Sub Questions to be asked 12 and to be answered any 10	
	(*Multiple choice / True or False / Match the columns/Fill in the	
	blanks)	
Q-2	Full Length Question	15 Marks
	OR	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	OR	
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
	OR	
Q-4	Full Length Question	15 Marks
Q-5	Full Length Question	15 Marks
	OR	
Q-5	Full Length Question	15 Marks
Q-6	G) Theory questions	10 Marks
	H) Theory questions	10 Marks
	OR	
Q-6	Short Notes	20 Marks
	To be asked 06	
	To be answered 04	

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

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B.Com. Programme Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year-2017-2018)

Semester IV

No. of Courses	Semester IV	Credits
1	Elective Courses (EC)	
1A	Discipline Specific Elective(DSE) Courses	
1Aa	Discipline Specific Elective(DSE) Courses	
1	Accountancy and Financial Management IV	03
1Ab	Discipline Specific Elective(DSE) Courses	
2	*Any one course from the following list of the courses	03
18	Discipline Related Elective(DRE) Courses	
3	Commerce IV	03
4	Business Economics IV	03
2	Ability Enhancement Courses (AEC)	
2A	*Skill Enhancement Courses (SEC) Group A	
5	*Any one course from the following list of the courses	03
2B	*Skill Enhancement Courses (SEC) Group B	
6	Any one course from the following list of the courses	02
3	Core Courses (CC)	
7	Business Law II	03
	Total Credits	20

1Ab *List of Discipline Specific Elective (DSE) Courses for		
Semester IV (Any One)		
1	Financial Accounting and Auditing - Auditing	
2	Business Management- Marketing Management	
3	Banking & Finance- Introduction to Banking in India	
4	Commerce- International Business Relations	

*List of Skill Enhancement Courses (SEC) Group A for Semester IV (Any One)		
1	Advertising II	
2	Field Sales Management II	
3	Public Relations II	
4	Mass Communication II	
5	Travel & Tourism Management II	
6	Journalism II	
7	Company Secretarial Practice II	
8	Rural Development II	
9	Co-operation II	
10	Mercantile Shipping II	
11	Indian Economic Problem II	
12	Computer Programming II	
13	Logistic and Supply Chain Management I	
14	Economic System II	
Note: Course selected in Semester III will continue in Semester IV		

** List of Skill Enhancement Courses (SEC) Group B		
1	Foundation Course- Contemporary Issues - IV	
2	Foundation Course in NSS - IV	
3	Foundation Course in NCC - IV	
4	Foundation Course in Physical Education - IV	
Note: Course selected in Semester III will continue in Semester IV		

Revised Syllabus of Courses of B.Com. Programme at Semester IV with Effect from the Academic Year 2017-2018

Elective Courses (EC) Discipline Specific Elective (DSE) Courses

1Aa. Accountancy and Financial Management IV

Sr. No.	Modules	No. of Lectures
1	Introduction to Company Accounts	15
2	Redemption of Preference Shares	15
3	Redemption of Debentures	15
4	Ascertainment and Treatment of Profit Prior to Incorporation	15
	Total	60

Sr. No.	Modules / Units
1	Introduction to Company Accounts
	Introduction of basic terms: Types of companies, nature and formation of companies, Shares, Debentures, Share Capital, Reserves and surplus, types of assets and liabilities, dividen, format of Balance Sheet (Only theory) Issue of shares: Different modes IPO, Private Placements, Preferential, Rights, ESO, SWEAT and ESCROW account, Issue of shares at par, premium and discount, Under subscription and Over subscription of shares, forfeiture and reissue of forfeited shares, issue of shares for consideration other than cash. (Only theory) Issue of Debentures: types of Debentures, Issue of debentures at par, premium and discount, Issue of Debentures with consideration of Redemption ,Issue of debentures for cash receivable in instalments or at a time Issue of debentures for consideration other than cash. (Only theory)
2	Redemption of Preference Shares
	Provision of the Companies Act for redemption of Preference Shares (Sec 55 of the Companies Act, 2013), Companies (Share and Debentures) Rules. Methods of Redemption of fully paid up Preference Shares as per Companies Act, 2013: The proceed of a fresh issue of shares, the capitalisation of undistributed profits and a combination of both, calculation of minimum fresh issue to provide the fund for redemption, (Question on entries and/or Balance Sheet) Note: Companies governed by Section 133 of the Companies Act, 2013 and comply with the accounting standards prescribed for them. Hence, the balance in security premium account not to be utilised for premium payable on redemption of preference shares.
3	Redemption of Debentures
	Introduction : Provisions of Section 71 (1) and (4) of the Companies Act, 2013, Creation and investment of DRR including The Companies (Share Capital and Debentures) Rules, 2014, the methods of writing-off discount/loss on issue of debentures; Terms of issue of debentures Methods of redemption of debentures: By payment in lumpsum and by payment in instalments (excluding from by purchase in open market), Conversion. (Question on entries. ledgers and/or Balance Sheet and /or redemption of preference shares)
4	Ascertainment and Treatment of Profit Prior to Incorporation
	(i) Principles for ascertainment Preparation of separate combined, columnar Profit and Loss A/c including different basis of allocation of expenses and income

Note: The Law and Standards in force on 1st April immediately preceding the commencement of Academic year will be applicable for ensuing Examinations

Reference Text :

- 1. Introduction to Accountancy T.S. Grewal S. Chand and Co. (P) Ltd., New Delhi
- 2. Advanced Accounts Shukla and Grewal S. Chand and Co. (P) Ltd., New Delhi
- 3. Advanced accountancy R.L. Gupta and M. Radhaswamy S. Chand and Co. (P) Ltd., New Delhi
- 4. Modern Accountancy Mukerjee and Hanif Tata Mc. Grow Hill and Co. Ltd., Mumbai
- 5. Financial Accountancy LesileChandWichkPretice Hall of India AdinBakley (P) Ltd.

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 100

Questions to be set: 06

Duration: 03 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
No		
Q-1	Objective Questions	20 Marks
	I) Sub Questions to be asked 12 and to be answered any 10	
	J) Sub Questions to be asked 12 and to be answered any 10	
	(*Multiple choice / True or False / Match the columns/Fill in the	
	blanks)	
Q-2	Full Length Question	15 Marks
	OR	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	OR	
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
	OR	
Q-4	Full Length Question	15 Marks
Q-5	Full Length Question	15 Marks
	OR	
Q-5	Full Length Question	15 Marks
Q-6	I) Theory questions	10 Marks
	J) Theory questions	10 Marks
	OR	
Q-6	Short Notes	20 Marks
	To be asked 06	
	To be answered 04	

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

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Revised Syllabus of Courses of B.Com. Programme at Semester III with Effect from the Academic Year 2017-2018

Elective Courses (EC) Discipline Specific Elective (DSE) Courses

1Ab. Financial Accounting and Auditing VI – Auditing

Sr. No.	Modules	No. of Lectures
1	Introduction to Auditing	10
2	Audit Planning, Procedures and Documentation	10
3	Auditing Techniques and Internal Audit Introduction	15
4	Auditing Techniques : Vouching & Verification	10
	Total	45

Modules / Units		
Introduction to Auditing		
 A. Basics – Financial Statements, Users of Information, Definition of Auditing, Objectives of Auditing, Inherent limitations of Audit, Difference between Accounting and Auditing, Investigation and Auditing. B. Errors & Frauds – Definitions, Reasons and Circumstances, Types of Error, Types of frauds, Risk of fraud and Error in Audit, Auditors Duties and Responsibilities in case of fraud. C. Principles of Audit, Materiality, True and Fair view D. Types of Audit – Meaning, Advantages, Disadvantages of Balance sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit and Annual Audit, Statutory Audit 		
Audit Planning, Procedures and Documentation		
 A. Audit Planning – Meaning, Objectives, Factors to be considered, Sources of obtaining information, Discussion with Client, Overall Audit Approach B. Audit Program – Meaning, Factors, Advantages and Disadvantages, Overcoming Disadvantages, Methods of Work, Instruction before commencing Work, Overall Audit Approach. C. Audit Working Papers – Meaning, importance, Factors determining Form and Contents, Main Functions / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers. 		
Auditing Techniques and Internal Audit Introduction		
 A. Test Check – Test Checking Vs Routing Checking, test Check meaning, features, factors to be considered, when Test Checks can be used, advantages, disadvantages, precautions. B. Audit Sampling – Audit Sampling, meaning, purpose, factors in determining sample size – Sampling Risk. Tolerable Error and expected 		
 error, methods of selecting Sample Items Evaluation of Sample Results auditors Liability in conducting audit based on Sample C. Internal Control – Meaning and purpose, review of internal control, advantages, auditors duties, review of internal control, Inherent Limitations of Internal control, internal control samples for sales and debtors, purchases and creditors, wages and salaries. Internal Checks Vs Internal Control, Internal Checks Vs Test Checks. D. Internal Audit : Meaning, basic principles of establishing Internal audit, objectives, evaluation of internal Audit by statutory auditor, usefulness of Internal Audit, Internal Audit Vs External Audit, Internal Checks Vs Internal 		

Sr. No.		Modules / Units		
4	Au	Auditing Techniques : Vouching & Verification		
	А. В.	Audit of Income : Cash Sales, Sales on Approval, Consignment Sales, Sales Returns Recovery of Bad Debts written off, Rental Receipts, Interest and Dividends Received Royalties Received Audit of Expenditure : Purchases, Purchase Returns, Salaries and Wages, Rent, Insurance Premium, Telephone expense Postage and Courier, Petty		
	C.	Cash Expenses, Travelling Commission Advertisement, Interest Expense Audit of Assets Book Debts / Debtors, Stocks – Auditors General Duties; Patterns, Dies and Loose Tools, Spare Parts, Empties and Containers Quoted Investments and Unquoted Investment Trade Marks / Copyrights Patents Know-How Plant and Machinery Land and Buildings Furniture and Fixtures		
	D.	Audit of Liabilities : Outstanding Expenses, Bills Payable Secured loans Unsecured Loans, Contingent Liabilities		

Note: The Law and Standards in force on 1st April immediately preceding the commencement of Academic year will be applicable for ensuing Examinations

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 100

Questions to be set: 06

Duration: 03 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
No		
Q-1	Objective Questions	20 Marks
	K) Sub Questions to be asked 12 and to be answered any 10	
	L) Sub Questions to be asked 12 and to be answered any 10	
	(*Multiple choice / True or False / Match the columns/Fill in the	
	blanks)	
Q-2	Full Length Question	15 Marks
	OR	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	OR	
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
	OR	
Q-4	Full Length Question	15 Marks
Q-5	Full Length Question	15 Marks
	OR	
Q-5	Full Length Question	15 Marks
Q-6	K) Theory questions	10 Marks
	L) Theory questions	10 Marks
	OR	
Q-6	Short Notes	20 Marks
	To be asked 06	
	To be answered 04	

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

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Revised Syllabus of Courses of B.Com. Programme at Semester IV with Effect from the Academic Year 2017-2018

Elective Courses (EC) Discipline Specific Elective (DSE) Courses

1Ab. Business Management-Marketing Management

Sr. No.	Modules	No. of Lectures
1	Distribution	10
2	Promotion	15
3	Understanding Buyer Behaviour	10
4	Marketing of services and Rural Marketing	10
	Total	45

Sr. No.	Modules / Units
1	Distribution
	Types of middlemen
	 Factors affecting channel by middlemen
	Functions performed by middlemen
	 Logistics : Meaning and components
	 E-marketing : Meaning, merits and demerits of e-marketing
	 Online retailing – successful online retailers in India and abroad
2	Promotion
	Elements of promotion mix
	 Objectives of promotion and marketing communication
	Factors affecting promotion mix decisions
	 Steps in designing a marketing communication program
	Role of Social Media in marketing communication
3	Understanding Buyer Behaviour
	 Comparing consumer markets (individuals and households) with organizational buyers (Industrial / Business houses)
	 Factors affecting consumer behaviour
	 Steps in consumer purchase decision process (with respect to high involvement and low involvement products)
	 Factors affecting organizational buver behaviour
	 Steps in the organizational purchase decision process (with respect to different
	buying situations)
4	Marketing of services and Rural Marketing
	Services : definition and features
	Marketing mix for services marketing
	 Managing service quality and productivity
	Rural market scenario in India
	 Factors contributing to the growth of rural markets in India
	Challenge of Rural Marketing
	Strategies to cope with the challenges of rural marketing.
Reference	e Books:

- 1. Philip Kotler (2003). Marketing Management : Eleventh Edition. New Delhi : Pearson Education
- 2. V. S. Ramaswani and S Namakumari (2002). Marketing : Planning, Implementation and Control (3rd Edition) New Delhi, Macmillan India
- 3. Michael Porter Competitive Advantage
- 4. Theodore Levitt Marketing Management
- 5. Fundamentals of Marketing William Stanton
- 6. Customer Driven Services Management (1999) Response Books

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 100

Questions to be set: 06

Duration: 03 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
No		
Q-1	Objective Questions	20 Marks
	M) Sub Questions to be asked 12 and to be answered any 10	
	N) Sub Questions to be asked 12 and to be answered any 10	
	(*Multiple choice / True or False / Match the columns/Fill in the	
	blanks)	
Q-2	Full Length Question	15 Marks
	OR	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	OR	
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
	OR	
Q-4	Full Length Question	15 Marks
Q-5	Full Length Question	15 Marks
	OR	
Q-5	Full Length Question	15 Marks
Q-6	M) Theory questions	10 Marks
	N) Theory questions	10 Marks
	OR	
Q-6	Short Notes	20 Marks
	To be asked 06	
	To be answered 04	

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

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Revised Syllabus of Courses of B.Com. Programme at Semester IV with Effect from the Academic Year 2017-2018

Elective Courses (EC)-1B Discipline Related Elective (DRE) Courses

3. Commerce – IV

(Management: Production & Finance)

Course Objectives: -

- 1. To acquaint the learners with the basic concepts of Production Management, Inventory Management & Quality Management.
- 2. To provide basic knowledge about Indian Financial Systems.
- 3. To update the learners with the recent trends in Finance.

Sr. No.	Modules	No. of Lectures
1	Production & Inventory Management	11
2	Quality Management	10
3	Indian Financial System	12
4	Recent Trends In Finance	12
	Total	45
Sr. No.	Modules	
---------	--	
1	Production & Inventory Management	
	 Production Management: Objectives, Scope Production Planning &Control : Steps, Importance Production Systems: Concept, Types - Continuous and Intermittent. Productivity: Concept, Factors Influencing Productivity, Measures for improving Productivity. Inventory Management- Objectives, Inventory Control- Techniques. Scientific Inventory Control System - Importance 	
2	Quality Management	
	 Introduction to Quality: Dimensions of Quality, Cost of Quality: Types – Internal Failure Cost, External Failure Cost, Appraisal Cost, Prevention Cost, Quality Circle: Features. Quality Management Tools: TQM – Importance, Six Sigma – Process, ISO 9000 – Certification Procedure, Kaizen – Process Service Quality Management: Importance, SERVQUAL Model, Measures to improve service quality. 	
3	Indian Financial System	
	 Indian Financial Market: Structure, Primary Market – IPO Procedure Dematerialisation: Process, Role of Depositories : NSDL and CDSL SEBI: Functions of SEBI, Investors protection measures of SEBI. Stock Exchange – Functions, Speculators. Credit Rating: Advantages, Credit Rating Agencies in India - CRISIL, CARE, and ICRA. 	
4	Recent Trends In Finance	
	 Mutual Funds- Advantages and Limitations, Types, Factors responsible for growth of mutual funds – Systematic Investment Plan. Commodity Market: Categories, Derivatives Market: Types, Participants, Types of Derivative Instruments. Start-up Ventures –Concept, Sources of Funding, Micro Finance – Importance, Role of Self Help Groups. 	

SEMESTER-IV REFERENCE BOOKS:

REFERENCES
1. Production and Operations Management – ProfL.C. Jhamb, Event Publishing House.
2. Production Planning & Control- ProfL.C.Jhamb, Event Publishing House
3. Production & Operation Management (Text & Cases)- K.Ashwathappa&G.Sudeshana
Reddy, Himalaya Publication.
4. Launching New Ventues : An EnterpreneurialApproach-KathleenR.Allen, Cengage
Learning
5. Essentials of Inventory Management-MaxMuller, Amacon Publishes
6. Indian Financial System—BharathiPathiak, Pearson Publication
7. Financial Institutions and Markets : Structure Growth& Innovations – L.M.Bhole , Jitendra
Mahakad, Tata McGraw Hill.
8. The Indian Financial System and Financial Market Operator-Vasant Desai, Himalaya Publishing
9. Indian Financial System – M.Y.Khan, Tata McGraw –Hill
10.Production and Operations Management –Anandkumar Sharma, Anmol Publication
11. Mutual Funds in India: Emerging Issues-NaliniPravaTripathy, Excel Books New Delhi.
12. Start up Stand up: A step by stepguide to Growing your Business, NandiniVaidyanathan,
Jaico Publishing House, Mumbai
13. A Trades Guide to Indian Commodities Market-Vijay L. Bhambwani, Network 18
Publication Ltd.

PAPER PATTERN

COMMERCE PAPER I & II

SEMESTER - III & IV

W.E.F. 2017-2018

Q.1 Multiple Choice Questions		
(A) Select the most appropriate answer from the option given below 10		
(Any Ten out of Twelve)		
(B) State whether the following statements are True or False 10		
(Any Ten out of Twelve)		
Q.2 Answer Any Two of the following Out of Three questions - Module - I 15		
a.		
b.		
c.		
Q.3 Answer Any Two of the following Out of Three questions - Module - II 15		
a.		
b.		
C.		
Q.4 Answer Any Two of the following Out of Three questions - Module - III 15		
a.		
b.		
c.		
Q.5 Answer Any Two of the following Out of Three questions - Module - IV 15		
a.		
b.		
C.		
Q.6 Write notes on Any Four out of Six		

Elective Courses (EC)-1B Discipline Related Elective (DRE) Courses

4. Business Economics IV Foundation of Public Finance

Sr. No.	Modules	No.of Lectures
1	Introduction to Public Finance	10
2	Public revenue	10
3	Public Expenditure and Debt	10
4	Fiscal Management and Financial Administration	15
	Total	45

Business Economics IV

Foundation of Public Finance

<u>Preamble</u>

Public Finance Issues are central to economic and Political discourse worldwide, as one of the primary functions of government is to generate resources from its people to spend money for improving the lives of its people. The primary objective of this course is to provide students with the tools to understand the underlying concepts and practical tradeoffs entailed in Public finance policy alternatives.

It is strongly recommended to analyze Union budget of ongoing financial year in the class room.

Sr. no	Modules / Units
1	The Role Of Government In An Economy
	 Meaning and Scope of Public finance. Major fiscal functions : allocation function, distribution function & stabilization function Principle of Maximum Social Advantage: Dalton and Musgrave Views - the Principle in Practice, Limitations. Relation between Efficiency, Markets and Governments The concept of Public Goods and the role of Government
2	Public Revenue
	 Sources of Public Revenue :tax and non-tax revenues Objectives of taxation - Canons of taxation - Types of taxes : direct and indirect - Tax Base and Rates of taxation : proportional, progressive and regressive taxation Shifting of tax burden: Impact and incidence of taxation - Processes- factors influencing incidence of taxation Economic Effects of taxation: on Income and Wealth, Consumption, Savings, Investments and Production. Redistributive and Anti – Inflationary nature of taxation and their implications
3	Public Expenditure And Public Debt
	 Public Expenditure: Canons - classification - economic effects of public spending - on production, consumption, distribution, employment and stabilization - Theories of Public Expenditure: Wagner's Hypothesis and Wiseman Peacock Hypothesis - Causes for Public Expenditure Growth. Significance of Public Expenditure: Social security contributions- Low Income Support and Social Insurance Programmes. Public Debt : Classification - Burden of Debt Finance : Internal and External- Public Debt and Fiscal Solvency
4	Fiscal Management and Financial Administration
	 Fiscal Policy: Meaning, Objectives, constituents and Limitations. Contra cyclical Fiscal Policy and Discretionary Fiscal Policy : Principles of Sound and Functional Finance Budget- Meaning objectives and types - Structure of Union budget - Deficit concepts-Fiscal Responsibility and Budget Management Act. Intergovernmental Fiscal Relations: fiscal federalism and fiscal decentralization - central-state financial relations - 14th Finance Commission recommendations

Reference Books
Ahuja H.L. : Modern Economics, 19th edition, 2015, S.Chand&co Pvt Ltd, New Delhi
Bhatia H.L.: Public Finance. Vikas Publishing House Pvt. Ltd.
David N. Hyman : Public Finance A Contemporary Application of theory of policy, Krishna
Offset, Delhi
Hoiughton E.W.(1998) : Public Finance, Penguin, Baltimore
Hajela T.N: Public Finance – Ane Books Pvt.Ltd
Jha, R (1998) : Modern Public Economics, Route Ledge, London
Musgrave, R.A and P.B. Musgrave (1976) : Public Finance in Theory and Practice, Tata
 McGraw Hill, Kogakusha, Tokyo
Mithani, D.M (1998) : Modern Public Finance, Himalaya Publishing House, Mumbai

QUESTION PAPER PATTERN

Business Economics Semester IV

Maximum Marks: 100 Marks

Time: 3 Hours

Note: 1) Attempt all Questions

2) Attempt any two out of three questions from each of question no. 2, 3, 4 & 5

Question No	Particulars	Marks
Q-1	Objective Questions:	20Marks
	A) Conceptual questions (Any Five out of Eight) (Two	10 Marks
	from each module)	
	B) Multiple Choice questions (10 questions - at least	10 Marks
	two from each Module)	
Q-2 (from	A) Full Length Question	
Module I)	B) Full Length Question	20Marks
	C) Full Length Question	
Q-3 (from	A) Full Length Question	
Module II)	B) Full Length Question	20Marks
	C) Full Length Question	
Q-4 (from	A) Full Length Question	
Module III)	B) Full Length Question	20Marks
	C) Full Length Question	
Q-5 (from	A) Full Length Question	
Module IV)	B) Full Length Question	20Marks
	C) Full Length Question	
	C) I un Lengui Question	

2 Ability Enhancement Courses (AEC) 2A * Skill Enhancement Courses (SEC) Group A

5. Advertising - II

Course Objective:

- 1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
- 2. It aims to orient learners towards the practical aspects and techniques of advertising.
- 3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

Sr. No.	Modules	No. of Lectures
1	Media in Advertising	11
2	Planning Advertising Campaign	11
3	Execution and Evaluation of Advertising	11
4	Fundamentals of Creativity in Advertising	12
	Total	45

Sr. No.	Modules
1	Media in Advertising
	 Traditional Media: Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media New Age Media: Digital Media / Internet Advertising – Forms, Significance and Limitations Media Research: Concept, Importance, Tool for regulation - ABC and Doordarshan Code
2	Planning Advertising Campaigns
	 Advertising Campaign: Concept, Advertising Campaign Planning -Steps Determining advertising objectives - DAGMAR model Advertising Budgets: Factors determining advertising budgets, methods of setting advertising budgets, Media Objectives - Reach, Frequency and GRPs Media Planning: Concept, Process, Factors considered while selecting media, Media Scheduling Strategies
3	Fundamentals of Creativity in Advertising
	 Creativity: Concept and Importance, Creative Process, Concept of Créative Brief, Techniques of Visualization Creative aspects: Buying Motives - Types, Selling Points- Features, Appeals – Types, Concept of Unique Selling Preposition (USP) Creativity through Endorsements: Endorsers – Types, Celebrity Endorsements – Advantages and Limitations, High Involvement and Low Involvement Products
4	Execution and Evaluation of Advertising
	 Preparing print ads: Essentials of Copywriting, Copy – Elements, Types, Layout- Principles, Illustration - Importance. Creating broadcast ads: Execution Styles, Jingles and Music – Importance, Concept of Storyboard Evaluation: Advertising copy, Pre-testing and Post-testing of Advertisements – Methods and Objectives

Advertising 15. Advertising and Promotion : An Integrated Marketing Communications Perspective George Belch and Michael Belch, 2015, 10 th Edition, McGraw Hill Education 16. Contemporary Advertising, 2017, 15th Edition, William Arens, Michael Weigold and Christian Arens, Hill Higher Education 17. Strategic Brand Management – Kevin Lane Keller, 4th Edition, 2013 – Pearson Education Limited 18. Kleppner's Advertising Procedure – Ron Lane and Karen King, 18th edition, 2011 – Pearson a. Education Limited 19. Advertising: Planning and Implementation, 2006 – Raghuvir Singh, Sangeeta Sharma –Prentice Hall 20. Advertising Management, 5th Edition, 2002 – Batra, Myers and Aaker – Pearson Education	Reference Books		
 15. Advertising and Promotion : An Integrated Marketing Communications Perspective George Belch and Michael Belch, 2015, 10th Edition, McGraw Hill Education 16. Contemporary Advertising, 2017, 15th Edition, William Arens, Michael Weigold and Christian Arens, Hill Higher Education 17. Strategic Brand Management – Kevin Lane Keller, 4th Edition, 2013 – Pearson Education Limited 18. Kleppner's Advertising Procedure – Ron Lane and Karen King, 18th edition, 2011 – Pearson a. Education Limited 19. Advertising: Planning and Implementation, 2006 – Raghuvir Singh, Sangeeta Sharma –Prentice Hall 20. Advertising Management, 5th Edition, 2002 – Batra, Myers and Aaker – Pearson Education 	Advertising		
 16. Contemporary Advertising, 2017, 15th Edition, William Arens, Michael Weigold and Christian Arens, Hill Higher Education 17. Strategic Brand Management – Kevin Lane Keller, 4th Edition, 2013 – Pearson Education Limited 18. Kleppner's Advertising Procedure – Ron Lane and Karen King, 18th edition, 2011 – Pearson a. Education Limited 19. Advertising: Planning and Implementation, 2006 – Raghuvir Singh, Sangeeta Sharma –Prentice Hall 20. Advertising Management, 5th Edition, 2002 – Batra, Myers and Aaker – Pearson Education 	15. Advertising and Promotion : An Integrated Marketing Communications Perspective George Belch and Michael Belch, 2015, 10 th Edition, McGraw Hill Education		
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 a. Education Limited 19. Advertising: Planning and Implementation, 2006 – Raghuvir Singh, Sangeeta Sharma –Prentice Hall 20. Advertising Management, 5th Edition, 2002 – Batra, Myers and Aaker – Pearson Education 	 18. Kleppner's Advertising Procedure – Ron Lane and Karen King, 18th edition, 2011 – Pearson 		
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20. Advertising Management, 5th Edition, 2002 – Batra, Myers and Aaker – Pearson Education	19. Advertising: Planning and Implementation, 2006 – Raghuvir Singh, Sangeeta Sharma –Prentice Hall		
	20. Advertising Management, 5th Edition, 2002 – Batra, Myers and Aaker – Pearson Education		
 Advertising Principles and Practice, 2012 - Ruchi Gupta – S.Chand Publishing Brand Equity & Advertising- Advertising's role in building strong brands, 2013- David A. Aker, Alexander L. Biel, Psychology Press 	 21. Advertising Principles and Practice, 2012 - Ruchi Gupta – S.Chand Publishing 22. Brand Equity & Advertising- Advertising's role in building strong brands, 2013- David A. Aker, Alexander L. Biel, Psychology Press 		
 Brand Positioning – Strategies for Competitive Advantage, Subroto Sengupta, 2005, Tata McGraw Hill Publication. 	 Brand Positioning – Strategies for Competitive Advantage, Subroto Sengupta, 2005, Tata McGraw Hill Publication. 		
24. The Advertising Association Handbook - J. J. D. Bullmore, M. J. Waterson, 1983 - Holt Rinehart & Winston	24. The Advertising Association Handbook - J. J. D. Bullmore, M. J. Waterson, 1983 - Holt Rinehart & Winston		
25. Integrated Advertising, Promotion, and Marketing Communications, Kenneth E. Clow and Donald E. Baack, 5th Edition, 2012 – Pearson Education Limited	25. Integrated Advertising, Promotion, and Marketing Communications, Kenneth E. Clow and Donald E. Baack, 5th Edition, 2012 – Pearson Education Limited		
26. Kotler Philip and Eduardo Roberto, Social Marketing, Strategies for Changing Public Behaviour, 1989, The Free Press, New York.	26. Kotler Philip and Eduardo Roberto, Social Marketing, Strategies for Changing Public Behaviour, 1989, The Free Press, New York.		
27. Confessions of an Advertising Man, David Ogilvy, 2012, Southbank Publishing	27. Confessions of an Advertising Man, David Ogilvy, 2012, Southbank Publishing		
28. Advertising, 10 th Edition, 2010 - Sandra Moriarty, Nancy D Mitchell, William D. Wells, Pearson	28. Advertising, 10 th Edition, 2010 - Sandra Moriarty, Nancy D Mitchell, William D. Wells, Pearson		

PAPER PATTERN

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ADVERTISING PAPER I & II

SEMESTER - III & IV

W.E.F. 2017-2018

Q.1 Multiple Choice Questions	
(A) Select the most appropriate answer from the option given below	10
(Any Ten out of Twelve)	
(D) State whether the fallewing statements are True or False	10
(B) State whether the following statements are True or False	10
(Any Ten out of Twelve)	
Q.2 Answer Any Two of the following Out of Three questions - Module - I	15
a.	
b.	
c.	
Q.3 Answer Any Two of the following Out of Three questions - Module - II	15
a.	
b.	
C.	
Q.4 Answer Any Two of the following Out of Three questions - Module - III	15
a.	
b.	
C.	
Q.5 Answer Any Two of the following Out of Three questions - Module - IV	15
a.	
b.	
C.	
Q.6 Write notes on Any Four out of Six	20

2 Ability Enhancement Courses (AEC) 2A * Skill Enhancement Courses (SEC) Group A

5. Field Sales Management - II

Course Objective:

- 4. This course will prepare learners to understand the concept of Field Sales Management and Sales Organization.
- 5. To make learners understand various sales policies and learn the various aspects of sales force management

Sr. No.	Modules	No. of Lectures
1	Sales Planning & Forecasting I	11
2	Sales Planning & Forecasting II	11
3	Sales Budget & Control	11
4	Recent Issues In Sales Management	12
	Total	45

Sr. No.	Modules	
1	SALES PLANNING & FORECASTING I	11
	 Sales Plan – Steps in developing an effective Planning Function of Sales Management – Sa Quantitative Performance Standards. Sales Forecasting – Meaning, Objectives & Fa Forecasting. Sales Forecasting Techniques (Qualitative & G 	Sales Plan. ales Call Planning, Setting actors affecting Sales Quantitative)
2	SALES PLANNING & FORECASTING II	11
	 Concept of Sales Territory, Reasons for estab Salesman's Report & its types Concept of Quotas & Targets, Reasons for fix Methods of fixing Quotas & Targets 	lishing sales territories
3	SALES BUDGET & CONTROL	11
	 Meaning of Sales Budget, Objectives of Sales Procedure to prepare Sales Budget. Sales Control – Concept and steps in Control Sales Analysis & Marketing Cost Analysis Sales Audit - Concept, Importance of Sales Au Procedure of Conducting Sales Audit 	Budget, Process Idit,
4	RECENT ISSUES IN SALES MANAGEMENT	12
	 Ethical & Legal issues in Sales Management Use of Technology in Sales Management (Tel M-Marketing, Digitalization) Relationship Selling Process & Consumer Edu (Value Added Selling) Challenges in Sales Management. 	lemarketing, E-Marketing, acation

Reference Books			
Field S	Field Sales Management - II		
1.	Philip Kotler – Marketing Management, 11 th ed. Pearson Publication.		
2.	Porter, Michel E. Competitive Strategy, New York: The Free Press, 1980.		
3.	Richard R Still, Edward W. Candiff, Sales Management.		
4.	M.D.Pestonjee, Motivation & Job Satisfaction.		
5.	Tom Reilly, Value Added Selling		
6.	Helen Woodruffe, Services Marketing, Macmillan Publication.		
7.	V.S.Ramaswamy, S.Namakumari, Marketing Management, Global Prospective –Indian Concept, Macmillan Publication		

PAPER PATTERN

FIELD SALES MANAGEMENT PAPER I & II

SEMESTER - III & IV

W.E.F. 2017-2018

Q.1 Multiple Choice Questions		
(A) Select the most appropriate answer from the option given below 10		
(Any Ten out of Twelve)		
(B) State whether the following statements are True or False	10	
(Any Ten out of Twelve)		
Q.2 Answer Any Two of the following Out of Three questions - Module - I	15	
a.		
b.		
c.		
Q.3 Answer Any Two of the following Out of Three questions - Module - II	15	
a.		
b.		
C.		
Q.4 Answer Any Two of the following Out of Three questions - Module - III	15	
a.		
b.		
C.		
Q.5 Answer Any Two of the following Out of Three questions - Module - IV	15	
a.		
b.		
C.		
Q.6 Write notes on Any Four out of Six	20	

2 Ability Enhancement Courses (AEC) 2A * Skill Enhancement Courses (SEC) Group A

5. Company Secretarial Practice - II

Sr. No.	Modules	
1	Management of Companies	11
2	Company Meetings	11
3	Dematerialisation and Online Trading	11
4	Reports and Winding Up	12
	Total	45

Sr. No.	Modules	
1	Management of Companies	
	 Directors – Appointment, Duties, Role, Directors Report, Director Identification Number (DIN). Types of Directors , Role of CEO, Non- Executive Directors, Independent Director 	
	 Auditor- Appointment, Duties, Rights & Powers, Audit report. 	
2	Company Meetings	
	 Types of Company meeting, Secretarial Duties – Before, During and after company meeting – Annual General Meeting, Extra-Ordinary General Meeting, Board Meeting. Notices, agenda, Chairman, Quorum& Proxy – Concept and Statutory Provisions Motion, Resolution, Minutes – Concept, Types Voting, Minutes – Concept, Methods 	
	voting, windles – concept, wethous.	
3	Dematerialisation and Online Trading	
	 Dematerialisation – Need and Importance, Secretarial Duties, Procedures, Participants. Online Trading – Concept, Advantages & Disadvantages, Bombay Stock Exchange Online Trading (BOLT), BOSS. Listing of securities – Procedure, Advantages, Secretarial Duties, Scrips – Types. 	
4	Reports and Winding Up	
	 Company Reports – Types, Secretarial Duties with regard to payment of dividend, Interest, Charges & penalties. Winding up of a Company – Procedure, & Statutory Provisions, Secretarial role in winding up. Specimen – Notice & Agenda of Annual General Meeting, Notice & Agenda of Board Meeting prior to Annual General Meeting, Resolution for appointment of Company Secretary, Special Resolution for alteration of Memorandum of Association, Minutes of Board Meeting prior to Annual General Meeting, Minutes of Annual General Meeting. 	

COMPANY SECRETARIAL PRACTICE

REFERENCES

	Readings:	
	13. M. C.Bhandari	: Guide to Company Law Procedure;
		Wadhwa& Company, Agra&Nagpur
	14. K. V.Shanbhogue	: Company Law Practice;
		BharatLaw House, New Delhi – 34
	15. M. L.Sharma	: Company Procedures and Register of
		Companies, Tax Publishers, Delhi
	16. A. M.Chakborti,	: Company Notices, Meetings and
	B. P.Bhargava	Resolutions, Taxmann, New Delhi
	17. A.Ramaiya	: Guide to the Companies Act,
		Wadhwa & Company, Nagpur
	18. R.Suryanarayanan	: Company Notices, Meetings and
		Resolutions, Kamal Law House, Kolkatta
	19. D. K. Jain	: E- Filling of Forms & returns
	20. Taxmann	: E-Company forms
	21. V.K.Gaba	: Depository Participants (Law & Practice)
	22. ICSI Publications	: Meetings
	23. B. K.Sengupta	: Company Law
	24. D. K. Jain	: Company Law Procedures
	References:	
	3. M. C.Bhandari	: Guide to Memorandum, Articles and
	R.D.Makheeja	Incorporation of Companies ;
		Wadhwa& Company, Agra&Nagpur
	4. Taxman	: Company Law, Digest
	Journals:	
	5. Chartered Secretary	: ICSI Publication
	6. Student Company Secretary	: ICSI Publication
	7. Company Law Journal	: L.M.Sharma, Post Box No. 2693,
		New Delhi – 110005.
	8. Corporate Law Adviser	: Corporate Law Advisers, Post Bag
		No. 3, VasantVihar, New Delhi
1		

PAPER PATTERN

COMPANY SECRETRIAL PRACTICE - PAPER I & II

SEMESTER - III & IV

W.E.F. 2017-2018

Q.1 Multiple Choice Questions		
(A) Select the most appropriate answer from the option given below 10		
(Any Ten out of Twelve)		
(B) State whether the following statements are True or False	10	
(Any Ten out of Twelve)		
Q.2 Answer Any Two of the following Out of Three questions - Module - I	15	
a.		
b.		
c.		
Q.3 Answer Any Two of the following Out of Three questions - Module - II	15	
a.		
b.		
C.		
Q.4 Answer Any Two of the following Out of Three questions - Module - III	15	
a.		
b.		
C.		
Q.5 Answer Any Two of the following Out of Three questions - Module - IV	15	
a.		
b.		
c.		
Q.6 Write notes on Any Four out of Six	20	

2 Ability Enhancement Courses (AEC) 2A * Skill Enhancement Courses (SEC) Group A

Computer Programming Paper II

Modules at a Glance

5.

Sr. No.	Modules	No. of Lectures
1	Computer Communication Systems	15
2	Principles Of DBMS	15
3	Case Study Of DBMS Using MS-ACCESS	15
4	MS-ACCESS QUERIES	15
5	Laboratory Training	15
	Total	75

Sr. No.	Modules / Units	
1	UNIT – I :Computer Communication Systems	
	The Internet, internet connections, ISO's Open system interconnection reference model, The TCP/IP stack, E-mail, Internet addresses, Internet Protocol, SMTP, MIME POP, IMAP, Domain Name system, Telnet, FTP, WWW, Browsers, HTML, http, JAVA,. Intranet, Intranet Services and their advantages. Extranets. Search Engine and Web Crawlers	
2	UNIT – II :Principles Of DBMS	
	What is a database, Relational databases (Relation, Attribute, Instance, Relationship, Join), Database capabilities (Data definition, data manipulation, Access as an RDBMs)	
3	UNIT – III : CASE STUDY OF DBMS USING MS-ACCESS	
	MS-Office workspace basics, Exploring the Office menu, Working with ribbon, Opening an access database Exploring database objects, Creating database, Changing views. Printing database objects. Saving and closing database file. Working with datasheets, Moving among records, Updating records, adding records to a table, Finding records, sorting records, Filtering records, Using the PIVOT chart View, Saving and closing tables. Adding a table to a database, Adding fields to a table, adding a Lookup field, setting a Primary key, Using the input mask wizard. Saving design changes, Importing data (From Excel).	
4	UNIT – IV : MS-ACCESS QUERIES	
	What is a Query, Creating a query, working with queries, saving and running a query, creating calculated fields, using aggregate functions, Understanding query properties, Joining Tables. What is a Form, Using the form tool, Creating a form with form wizard, Working in design view, Changing the form layout, Using calculated controls, Working with records on a Form. What is a report tool, Printing report, saving a report, designing a report, changing report layout, creating mailing labels.	

QUESTION PAPER PATTERN

Maximum Marks: 75 Questions to be set: 05

Duration: $2\frac{1}{2}$ Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particulars	Marks
INO		
Q. 1.	Objective Questions	15 Marks
	A. Attempt any eight sub-questions from the following :	
	(True / False) any 08	
	B. Attempt any seven sub-questions from the following :	
	(Multiple Choice)any 07	
Q. 2.	A. Attempt any one sub-question from a, b (Unit - I)	16 Marks
	B. Attempt any one sub-question from c, d (Unit - I)	
Q. 3.	A. Attempt any one sub-question from a, b (Unit - II)	14 Marks
	B. Attempt any one sub-question from c, d (Unit - II)	
0.4.	A. Attempt any one sub-question from a, b (Unit - III)	16 Marks
	B. Attempt any one sub-question from c, d (Unit - III)	
0, 5,	A. Attempt any one sub-question from a, b (Unit $-$ IV)	14 Marks
	B. Attempt any one sub-question from c, d (unit IV)	

2 Ability Enhancement Courses (AEC) 2B * Skill Enhancement Courses (SEC) Group B

Foundation Course- Contemporary Issues- IV

6.

Sr. No.	Modules	No. of Lectures
1	Significant, Contemporary Rights of Citizens	12
2	Approaches to understanding Ecology	11
3	Science and Technology –II	11
4	Introduction to Competitive Exams	11
	Total	45

Sr. No.	Modules / Units	
1	Significant, Contemporary Rights of Citizens	
	A. Rights of Consumers-Violations of consumer rights and important provisions of the Consumer Protection Act, 2016; Other important laws to protect consumers; Consumer courts and consumer movements. (3 Lectures)	
	 B. Right to Information- Genesis and relation with transparency and accountability; important provisions of the Right to Information Act, 2005; some success stories. (3 Lectures) 	
	c.	Protection of Citizens'/Public Interest-Public Interest Litigation, need and procedure to file a PIL; some landmark cases.(3 Lectures)
	D.	Citizens' Charters, Public Service Guarantee Acts. (3 Lectures)
2	Ар	proaches to understanding Ecology
	Α.	Understanding approaches to ecology- Eco centrism, Ecofeminism and Deep Ecology.Biocentrism and (3 Lectures)
	В.	Environmental Principles-1: the sustainability principle; the polluter pays principle; the precautionary principle. (4 Lectures)
	C.	Environmental Principles-2: the equity principle; human rights principles; the participation principle. (4 Lectures)
3	Sci	ence and Technology –II
	Paı i.	rt A:Some Significant Modern Technologies, Features and Applications (7 Lectures) Laser Technology- Light Amplification by Stimulated Emission of Radiation; use of laser in remote sensing, GIS/GPS mapping, medical use.
	ii.	Satellite Technology - various uses in satellite navigation systems, GPS, and imprecise climate and weather analyses.
	iii.	Information and Communication Technology - convergence of various technologies like satellite, computer and digital in the information revolution of today's society.
	iv.	Biotechnology and Genetic engineering- applied biology and uses in medicine, pharmaceuticals and agriculture; genetically modified plant, animal and human life.
	v.	Nanotechnology - definition: the study, control and application of phenomena and materials at length scales below 100 nm; uses in medicine, military intelligence and consumer products.
	Part B:Issues of Control, Access and Misuse of Technology. (4 Lectures)	

Sr. No.		Modules / Units
4	Introduction to Competitive Exams	
	Part A. Basic information on Competitive Examinations- the pattern, eligibility criteria and local centres:	
	1.	Record Examinations (GRE), Graduate Management Admission Test GMAT), Common Admission Test (CAT) and Scholastic Aptitude Test (SAT).
	ii.	Examinations conducted for entry into jobs by Union Public Service Commission, Staff Selection Commission (SSC), State Public Service Commissions, Banking and Insurance sectors, and the National and State Eligibility Tests (NET / SET) for entry into teaching profession.
	Part B. Soft skills required for competitive examinations- (7 Lectures)	
	i.	Information on areas tested: Quantitative Ability, Data Interpretation, Verbal Ability and Logical Reasoning, Creativity and Lateral Thinking
	ii.	Motivation: Concept, Theories and Types of Motivation
	iii.	Goal-Setting: Types of Goals, SMART Goals, Stephen Covey's concept of human endowment
	iv.	Time Management: Effective Strategies for Time Management
	v.	Writing Skills: Paragraph Writing, Report Writing, Filing an application under the RTI Act, Consumer Grievance Letter.

References

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- 2. Bajpai, Asha, Child Rights in India, Oxford University Press, New Delhi, 2010.
- 3. Bhatnagar Mamta and Bhatnagar Nitin, *Effective Communication and Soft Skills*, Pearson India, New Delhi, 2011.
- 4. G Subba Rao, Writing Skills for Civil Services Examination, Access Publishing, New Delhi, 2014
- 5. Kaushal, Rachana, *Women and Human Rights in India*, Kaveri Books, New Delhi, 2000.
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- 7. Motilal, Shashi, and Nanda, Bijoy Lakshmi, *Human Rights: Gender and Environment*, Allied Publishers, New Delhi, 2007.
- 8. Murthy, D. B. N., *Disaster Management: Text and Case Studies*, Deep and Deep Publications, New Delhi, 2013.
- 9. Parsuraman, S., and Unnikrishnan, ed., India Disasters Report II, Oxford, New Delhi, 2013
- 10. Reza, B. K., Disaster Management, Global Publications, New Delhi, 2010.
- 11. Sathe, Satyaranjan P., Judicial Activism in India, Oxford University Press, New Delhi, 2003.
- 12. Singh, Ashok Kumar, *Science and Technology for Civil Service Examination*, Tata McGraw Hill, New Delhi, 2012.
- 13. Thorpe, Edgar, General Studies Paper I Volume V, Pearson, New Delhi, 2017.

Projects / Assignments (for Internal Assessment)

- i. Projects/Assignments should be drawn for the component on Internal Assessment from the topics in **Module 1 to Module 4**.
- ii. Students should be given a list of possible topics at least 3 from each Module at the beginning of the semester.
- iii. The Project/Assignment can take the form of Street-Plays / Power-Point Presentations / Poster Exhibitions and similar other modes of presentation appropriate to the topic.
- iv. Students can work in groups of not more than 8 per topic.
- v. Students must submit a hard / soft copy of the Project / Assignment before appearing for the semester end examination.

QUESTION PAPER PATTERN (Semester III)

The Question Paper Pattern for Semester End Examination shall be as follows:

TOTAL MARKS: 75

DURATION: 150 MINUTES

QUESTION NUMBER	DESCRIPTION	MARKS ASSIGNED
1	 i. Question 1 A will be asked on the meaning / definition of concepts / terms from all Modules. ii. Question 1 B will be asked on the topic of the Project / Assignment done by the student during the Semester iii. In all 8 Questions will be asked out of which 5 have to be attempted 	 a) Total marks: 15 b) For 1 A, there will be 3 marks for each sub- question. c) For 1 B there will be 15 marks without any break-up.
2	Descriptive Question with internal option (A or B)	15
-	on Module 1	
3	Descriptive Question with internal option (A or B) on Module 2	15
4	Descriptive Question with internal option (A or B) on Module 3	15
5	Descriptive Question with internal option (A or B) on Module 4	15

2. Ability Enhancement Courses (AEC) 2B. Skill Enhancement Courses (SEC)

6. Foundation Course in NSS - IV

Sr. No.	Modules	No. of Lectures
1	Entrepreneurship Development	10
2	Rural Resource Mobilization	10
3	Ideal village & stake of GOS and NGO	13
4	Institutional Social Responsibility and modes of Awareness	12
	Total	45

Sr. No.	Modules / Units
1	Entrepreneurship Development
	 UNIT - I Entrepreneurship development Entrepreneurship development- its meaning and schemes Government and self-employment schemes for Entrepreneurship development UNIT - II - Cottage Industry Cottage Industry- its meaning, its role in development process Marketing of cottage products and outlets
2	Rural Resource Mobilization
	UNIT - I - Rural resource mobilization- A case study of eco-village, eco-tourism, agro-tourism UNIT - II - Micro financing with special reference to self-help groups
3	Ideal village & stake of GOS and NGO
	UNIT - I - Ideal village Ideal village- the concept Gandhian Concept of Ideal village Case studies on Ideal village UNIT - II - Government Organisations(GOs) and Non-Government Organisations (NGOs) The concept and functioning
4	Institutional Social Responsibility and modes of Awareness
	 UNIT - I - Institutional Social Responsibilities Concept and functioning- case study of adapted village UNIT - II - Modes of awareness through fine Arts Skills Basics of performing Arts as tool for social awareness, street play, creative dance, patriotic song, folk songs and folk dance. Rangoli, posters, flip charts, placards, etc.

2. Ability Enhancement Courses (AEC) 2B. Skill Enhancement Courses (SEC)

6. Foundation Course in NCC - IV

Sr. No.	Modules	No. of Lectures
1	Disaster Management, Social Awareness and Community Development	10
2	Health and Hygiene	10
3	Drill with Arms	05
4	Weapon Training	10
5	Specialized Subject: Army Or Navy Or Air	10
	Total	45

Sr. No.	Modules / Units	
1	Disaster Management, Social Awareness and Community Development	
	 Disaster Management: Desired outcome: The student shall gain basic information about civil defence organisation / NDMA & shall provide assistance to civil administration in various types of emergencies during natural / manmade disasters Fire Services & Fire fighting Assistance during Natural / Other Calamities: Flood / Cyclone/ Earth Quake/ Accident etc. Social Awareness and Community Development: Desired outcome: The student shall have an understanding about social evils and shall inculcate sense of whistle blowing against such evils and ways to eradicate such evils. NGOs: Role & Contribution Drug Abuse & Trafficking Corruption Social Evil viz. Dowry/ Female Foeticide/Child Abuse & trafficking etc. 	
2	Traffic Control Org. & Anti drunken Driving Health and Hygiene	
	 Desired outcome: The student shall be fully aware about personal health and hygiene lead a healthy life style and foster habits of restraint and self awareness. Hygiene and Sanitation (Personal and Food Hygiene) Basics of Home Nursing & First-Aid in common medical emergencies Wound & Fractures 	
3	Drill with Arms	
	 Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, and turnout, and develop the quality of immediate and implicit obedience of orders, with good reflexes. Getting on Parade with Rifle and Dressing at the Order Dismissing and Falling Out General Salute, Salami Shastra Squad Drill Short/Long tail from the order and vice-versa Examine Arms 	
4	Weapon Training	
	 Desired outcome: The student shall have basic knowledge of weapons and their use and handling. The lying position, Holding and Aiming- I Trigger control and firing a shot Range procedure and safety precautions Theory of Group and Snap Shooting Short range firing, Aiming- II -Alteration of sight 	

Sr. No.	Modules / Units
5	Specialized Subject: Army Or Navy Or Air
	 Army Desired outcome: The training shall instill patriotism, commitment and passion to serve the nation motivating the youth to join the defence forces. It will also acquaint, expose & provide basic knowledge about armed, naval and air-force subjects A. Map reading Setting a Map, finding North and own position Map to ground, Ground to Map Point to Point March B. Field Craft and Battle Craft Observation, Camouflage and Concealment Field Signals Types of Knots and Lashing
	the guest lecturers)
	OR
	 A. Naval Communication Semaphore Phonetic Alphabets Radio Telephony Procedure Wearing of National Elag. Ensign and Admiral's Elag.
	 B. Seamanship Anchor work Types of Anchor, Purpose and Holding ground Boat work Demonstrate Pigging a whaler and enterprise heat. Parts of Sail and
	 Demonstrate Rigging a whater and enterprise boat- Parts of Sall and Sailing Terms Instructions in Enterprise Class Board including theory of Sailing, Elementary Sailing Tools Types of Power Boats Used in the Navy and their uses, Knowledge of Anchoring, Securing and Towing a Boat
	C. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)

Sr. No.	Modules / Units
	OR
	Air
	A. Air frames
	Fuselage
	Main and Tail Plain
	B. Instruments
	Introduction to RADAR
	C. Aero modelling
	 Flying/ Building of Aero models
	D. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)

2 Ability Enhancement Courses (AEC) 2B * Skill Enhancement Courses (SEC) Group B

6.Foundation Course in Physical Education Paper-IV

Sr. No.	Modules	No of Lectures
1	Stress Management	10
2	Awards, Scholarship & Government Schemes	10
3	Yoga Education	10
4	Exercise Scheduling/Prescription	15
	Total	45

Sr. No.	Modules / Units	
1	Stress Management	
	Meaning & concept of Stress	
	Causes of Stress	
	Managing Stress	
	Coping Strategies	
2	Awards, Scholarship & Government Schemes	
	State & National level Sports Awards	
	State Sports Policy & Scholarship Schemes	
	National Sports Policy & Scholarship Schemes	
	Prominent Sports Personalities	
3	Yoga Education	
	Differences between Yogic Exercises & non- Yogic exercises	
	Contribution of Yoga to Sports	
	Principles of Asanas&Bandha	
	Misconceptions about Yoga	
4	Exercise Scheduling/Prescription	
	Daily Routine Prescription.	
	Understanding Activity level & Calorie requirement.	
	Adherence & Motivation for exercise.	
	Impact of Lifestyle on Health	
R.____: The Scheme of Examination:

The performance of the learners shall be evaluated in two components: Internal Assessment with 25% marks by way of continuous evaluation and by Semester End Examination with 75% marks by conducting the theory examination.

INTERNAL ASSESSMENT:- It is defined as the assessment of the learners on the basis of continuous evaluation as envisaged in the credit based system by way of participation of learners in various academic and correlated activities in the given semester of the programme.

A) Internal Assessment – 25%

25 Marks

Sr. No.	Particulars		Marks
1	A project to be prepared by an individual learner or a g	roup of learners	
	in not more than five learners in a group. It is to be eva	luated by the	
	teacher concerned.		20 Marks
	Hard Copy of the project*	10 Marks	
	Presentation	05 Marks	
	Viva/Interaction	05 Marks	
2	Active participation in routine class instructional deliveries and overall		05 Marks
	conduct as a responsible learner, mannerism and articulation and		
	exhibit of leadership qualities in organizing related academic activities.		

The marks of the internal assessment should not be disclosed to the students till the results of the corresponding semester is declared.

SEMESTER END EXAMINATION:- It is defined as the examination of the learners on the basis of performance in the semester end theory / written examinations.

B) Semester End Examinations – 75% 75 Marks

The assessment of **Part 'A' i.e. Internal Assessment and Part 'B' i.e. Semester End Examination** as mentioned above for the Semesters I to IV shall be processed by the Colleges / Institutions of their learners and issue the grade cards to them after the conversion of marks into grade as per the procedure.

INTERNAL ASSESSMENT (PRACTICUM) (25 Marks)

SEMESTER -III

(Continuous Evaluation during practical sessions conducted for 27 hours)

- a) A learner willing to participate in inter-collegiate/ inter university competitions of any game and sports conducted by the University of Mumbai will be evaluated for 15 marks on the basis of his attendance, sincerity and performance during the training / practice / coaching sessions / camps conducted by the college/University for at least 10 days. It is expected that the colleges should organize training / practice / coaching sessions / camps of various games and sports as per the choice of the learner. However, due to unavailability of the same in his / her college if a learner participates in the training / practice / coaching sessions / camps organized by other organizations or clubs of sports and games, may be considered for evaluation for 15 marks on the basis of the proofs of attendance and participation submitted by a learner.
- b) A learner will be practically taught different exercises including Suryanamaskara for developing their Motor Performance Components by conducting practical sessions for at least 10 hours (one hour each) and will be assessed by the concern teacher for marks out of 10 on the basis of his attendance, sincerity and performance.

Question Paper Pattern

Maximum Marks: 75 Questions to be Set: 05 Duration: 2 ¹/₂ Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10and to be answeredany 08 B) Sub Questions to be asked 10and to be answered any 07 (*Multiple choice / True or False / Match the columns/ fill in the blanks)	15 Marks
Q-2	Full Length Question	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
Q-5	Full Length Question OR	15 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note: Full length question of 15 marks may be divided into two sub questions of 08 and 07 marks.

> Standard of Passing the Examination

- A learner shall have to obtain a minimum of 40 % marks in aggregate to qualify the each course where the course consists of internal assessment and semester end examination.
- A learner shall obtain a minimum of 40 % marks(i.e. **10** out of **25**) in the internal assessment and obtain a minimum of 40 % marks (i.e. **30** out of **75**) in semester end

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- 27. Pandey ,&Gangopadhyay.(1995). Health Education for school children. New Delhi : Friends Publication.
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Core Courses (CC)

7. Business Law II

Sr. No.	Modules	No. of Lectures
1	Indian Companies Act – 2013 Par T –I	12
2	Indian Companies Act – 2013, Par T –II	12
3	Indian Partnership Act – 1932	12
4	Consumer Protection Act, 1986 & Competition Act 2002	12
5	Intellectual Property Rights	12
	Total	60

Sr. No.	Modules			
1	Indian Companies Act – 2013 Par T –I			
	 Company –Concept, Features, Role of Promoters (S. 2(69) S. 92), Duties and liabilities of the Promoter Effects of Pre-Incorporation contracts, Consequences of non-registration, and Lifting of Corporate Veil. Classification of Companies Distinction between Private Company and Public Company, Advantages and disadvantages of Private company and Public Company. –Common Procedure for Incorporation of Company, Memorandum of Association (MOA) & Article of Association(AOA) – Concept, Clauses of MOA, AOA- Contents, Doctrine of constructive notice, Doctrine of Ultra Vires, Doctrine of Indoor Management. Prospectus – Concept, Kinds, Contents, Private Placement 			
2	Indian Companies Act – 2013, Par T –II			
	 Member of a Company –Concept, Who can become a member, Modes of acquiring membership, Cessation of membership, Right & Liabilities of Members. Director – Qualifications& Disqualification, Classification, Director Identification Number (DIN), Legal Position of Directors. Meetings – Types, Legal Provisions of Statutory Meeting, Annual General Meeting, Extra-Ordinary Meeting, Board Meeting. 			
3	Indian Partnership Act – 1932			
	 Partnership – Concept, Essentials, True Test of Partnership, Partnership Deed, Types of Partnership, Rights and Duties of Partners, Distinguish between Partnership & Hindu Undivided Family (HUF). Dissolution – Concept, Modes of Dissolution, Consequences of Dissolution. Limited Liability Partnership (LLP) 2008 – Concept, Characteristics, Advantages & Disadvantages, Procedure for Incorporation. Extent of L.L.P Conversion of LLP, Mutual rights & duties of partners, Winding up of LLP, Distinction between LLP and Partnership. 			
4	Consumer Protection Act, 1986 & Competition Act 2002			
	 Consumer Protection Act – Concept , Objects, Reasons for enacting the Consumer Protection Act, Definition of Consumer, Consumer Dispute, Complaint, Complainant, Defect, Deficiency, Consumer Dispute, Unfair Trade Practices, Goods and Services. Consumer Protection Councils & Redressal Agencies – District, State & National. Competition Act 2002 – Concept, Salient Features, Objectives & Advantages. Abuse of Dominant Position, Competition Commission of India, Anti- Competition Agreements, 			

Sr. No.	Modules
5	INTELLECTUAL PROPERTY RIGHTS 12
	 Intellectual Property Right (IPR) – Concept, Nature, Introduction & background of IPR in India. IPR relating to Patents – Concepts of Invention and discovery, Comparison (S2 (j)), Concept of Patents, General principles applicable to working of patented inventions, Term of Patent. Infringement of Patent Rights & Remedies. (Ss. 104-115) IPR relating to Copyrights- Concept of Copyright (Ss. 14, 16, 54,) Concept of author and authorised acts, (S.2) Ownership of Copy right (S.17) Duration or term of Copy right. (S. 22-27), Original work and fair use, Rights of Copyright holder, Infringement of Copyrights & Remedies. (Ss. 51, 52) IPR relating to Trademarks –Concept, Functions of Trade Mark, types, trademarks that cannot be registered, Registration of Trade Marks and rights of the proprietor of Trade Marks. Procedure for registration of Trade Marks., Infringement of Trademarks & Remedies.

SEMESTER-IV REFERENCE BOOKS:

REFERENCES

- 1. Guide to the Companies Act, 2013 by A Ramaiya , Lexis Nexis.
- 2. Company Law by G.K.Kapoor.
- 3. Company Law by N.D.Kapoor.
- 4. Company Law by P.C. Tulsian.
- 5. Law and practice of Intellectual Property in India by Dr.Vikas Vashishth,Bharat Law House.
- 6. Law of Partnership along with Limited Liability Partnership by Avatar Singh , Eastern Book Company.
- 7. Laws Relating to Intellectual Property, Universal Law Publishing Co. Dr. B.L.Wadhera
- 8. Consumer Protection Law and Practice by Dr.V.K.Agarwal, Bharat Law House.
- 9. Competition Law by Avatar Singh, Eastern Book Company
- 10. Competition Law in India by T. Ramappa, Oxford University Press.
- 11. Intellectual Property Rights by Narayan.
- 12. Laws Relating to Intellectual Property, Universal Law Publishing Co. Dr. B.L.Wadhera

PAPER PATTERN S.Y.B.COM SEMESTER III &IV

BUSINESS LAW PAPER I & II

(100 Marks Paper Per Semester)

1. Question paper to have Five Questions (One from Each Module) 20 Marks Each

- 2. All Questions to be Compulsory.
- **3. Each Question to have Four Sub Questions of Ten Marks Each** (Students to answer any Two out of Four)

Question Paper Pattern (Practical Courses)

Maximum Marks: 100

Questions to be set: 06

Duration: 03 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
No		
Q-1	Objective Questions	20 Marks
	C) Sub Questions to be asked 12 and to be answered any 10	
	D) Sub Questions to be asked 12 and to be answered any 10	
	(*Multiple choice / True or False / Match the columns/Fill in the	
	blanks)	
Q-2	Full Length Practical Question	15 Marks
	OR	
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question	15 Marks
	OR	
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question	15 Marks
	OR	
Q-4	Full Length Practical Question	15 Marks
Q-5	Full Length Practical Question	15 Marks
	OR	
Q-5	Full Length Practical Question	15 Marks
Q-6	C) Theory questions	10 Marks
	D) Theory questions	10 Marks
	OR	
Q-6	Short Notes	20 Marks
	To be asked 06	
	To be answered 04	

Note:

Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

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Question Paper Pattern (Theoretical Courses)

Maximum Marks: 100

Questions to be set: 06

Duration: 03 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
No		
Q-1	Objective Questions	20 Marks
	O) Sub Questions to be asked 12 and to be answered any 10	
	P) Sub Questions to be asked 12 and to be answered any 10	
	(*Multiple choice / True or False / Match the columns/Fill in the	
	blanks)	
Q-2	Full Length Question	15 Marks
	OR	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	OR	
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
	OR	
Q-4	Full Length Question	15 Marks
Q-5	Full Length Question	15 Marks
	OR	
Q-5	Full Length Question	15 Marks
Q-6	O) Theory questions	10 Marks
	P) Theory questions	10 Marks
	OR	
Q-6	Short Notes	20 Marks
	To be asked 06	
	To be answered 04	

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

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University of Mumbai



Revised Syllabus

and

Question Paper Pattern

of Courses of

Bachelor of Commerce Programme

at

Third Year

Semester V and VI

Under Choice Based Credit, Grading and Semester System

To be implemented from Academic Year 2018-2019

Faculty of Commerce

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Bachelor of Commerce (B.Com) Programme Under Choice Based Credit, Grading and Semester System

T.Y.B.Com

(To be implemented from Academic Year- 2018-2019)

No. of Courses	Semester V	Credits	No. of Courses	Semester VI	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1A	Discipline Specific Elective(DSE)	Courses	1A	Discipline Specific Elective(DSE) Courses	
1 & 2	*Any one group of courses from the following list of the Groups (A/B/C/D/E/F)	04+04	1 & 2	*Any one group of courses from the following list of the Groups (A/B/C/D/E/F)	04+04
1B Discipline Related Elective(DRE) Courses		1B	Discipline Related Elective(DRE) Courses		
3	Commerce V	03	3	Commerce VI	03
4	Business Economics V	03	4	Business Economics VI	03
2 Ability Enhancement Courses (AEC)		2	Ability Enhancement Courses (/	AEC)	
5 & 6	**Any two courses from the following list of the courses	03+03	5 & 6	**Any two courses from the following list of the courses	03+03
	Total Credits	20		Total Credits	20

*List of groups of		*List of groups of		
Discipline Specific Elective(DSE) Courses		Discipline Specific Elective(DSE) Courses		
	for Semester V (Any One Group)	for Semester VI (Any One Group)		
	Group A: Advan	ced A	Accountancy	
1	Financial Accounting and Auditing VII -	1	Financial Accounting and Auditing IX -	
	Financial Accounting		Financial Accounting	
2	Financial Accounting and Auditing VIII -	2	Financial Accounting and Auditing X -	
	Cost Accounting		Cost Accounting	
	Group B: Busine	ess M	lanagement	
1	Business Management Paper - I	1	Business Management Paper - III	
2	Business Management Paper - II	2	Business Management Paper - IV	
	Group C: Bank	ing a	nd Finance	
1	Banking and Finance Paper - I	1	Banking and Finance Paper - III	
2	Banking and Finance Paper - II	2	Banking and Finance Paper - IV	
	Group D:	Com	merce	
1	Commerce Paper - I	1	Commerce Paper - III	
2	Commerce Paper - II	2	Commerce Paper - IV	
	Group E: Quanti	tativ	e Techniques	
1	Quantitative Techniques Paper - I	1	Quantitative Techniques Paper - III	
2	Quantitative Techniques Paper - II	2	Quantitative Techniques Paper - IV	
	Group F:	Econ	omics	
1	Economics Paper - I	1	Economics Paper - III	
2	Economics Paper - II	2	Economics Paper - IV	
Not	Note: Group selected in Semester V will continue in Semester VI			

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**List of Ability Enhancement Courses (AEC) for Semester V (Any Two)		**List of Ability Enhancement Courses (AEC) for Semester VI (Any Two)		
1	Trade Unionism and Industrial Relations Paper - I	1	Trade Unionism and Industrial Relations. Paper - II	
2	Computer systems & Applications Paper -I	2	Computer systems & Applications Paper - II	
3	Export Marketing Paper - I	3	Export Marketing Paper - II	
4	Marketing Research Paper - I	4	Marketing Research Paper - II	
5	Investment Analysis and Portfolio	5	Investment Analysis and Portfolio	
	Management Paper - I		Management Paper - II	
6	Transport Management Paper - I	6	Transport Management Paper - II	
7	Entrepreneurship& M.S.S.I. Paper - I	7	Entrepreneurship& M.S.S.I. Paper - II	
8	International Marketing Paper - I	8	International Marketing Paper - II	
9	Merchant Banking Paper - I	9	Merchant Banking Paper - II	
10	Direct & Indirect Taxation Paper - I	10	Direct & Indirect Taxation Paper - II	
11	Labour Welfare & Practice Paper - I	11	Labour Welfare & Practice Paper - II	
12	Purchasing & Store keeping Paper - I	12	Purchasing & Store keeping Paper - II	
13	Insurance Paper - I	13	Insurance Paper - II	
14	Banking Law & Practice Paper - I	14	Banking Law & Practice Paper - II	
15	Regional Planning Paper - I	15	Regional Planning Paper - II	
16	Rural Marketing Paper - I	16	Rural Marketing Paper - II	
17	Elements of Operational Research Paper- I	17	Elements of Operational Research Paper - II	
18	Psychology of Human Behaviour at work Paper - I	18	Psychology of Human Behaviour at work Paper - II	
Note: Course selected in Semester V will continue in Semester VI				

B.Com. Programme

Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year- 2018-2019)

Semester V

No. of Courses	No. of Courses	
1	Elective Courses (EC)	
1A	Discipline Specific Elective(DSE) Courses	
1 & 2	*Any one group of courses from the following list of the Groups (A/B/C/D/E/F)	04+04
1B	Discipline Related Elective(DRE) Courses	
3	Commerce V	03
4	Business Economics V	03
2	Ability Enhancement Courses (AEC)	
5 &	**Any two courses from the following list of the courses	03+03
6		
	Total Credits	20

	*List of groups of Discipline Specific Elective(DSE) Courses for Semester V (Any One Group)
	Group A: Advanced Accountancy
1	Financial Accounting and Auditing VII - Financial Accounting
2	Financial Accounting and Auditing VIII - Cost Accounting
	Group B: Business Management
1	Business Management Paper - I
2	Business Management Paper - II
	Group C: Banking and Finance
1	Banking and Finance Paper - I
2	Banking and Finance Paper - II
	Group D: Commerce
1	Commerce Paper - I
2	Commerce Paper - II
	Group E: Quantitative Techniques
1	Quantitative Techniques Paper - I
2	Quantitative Techniques Paper - II
	Group F: Economics
1	Economics Paper - I
2	Economics Paper - II

	**List of Ability Enhancement Courses (AEC) for Semester V (Any Two)
1	Trade Unionism and Industrial Relations Paper - I
2	Computer systems & Applications Paper -I
3	Export Marketing Paper - I
4	Marketing Research Paper - I
5	Investment Analysis and Portfolio Management Paper - I
6	Transport Management Paper - I
7	Entrepreneurship& M.S.S.I. Paper - I
8	International Marketing Paper - I
9	Merchant Banking Paper - I
10	Direct & Indirect Taxation Paper - I
11	Labour Welfare & Practice Paper - I
12	Purchasing & Store keeping Paper - I
13	Insurance Paper - I
14	Banking Law & Practice Paper - I
15	Regional Planning Paper - I
16	Rural Marketing Paper - I
17	Elements of Operational Research Paper- I
18	Psychology of Human Behaviour at work Paper - I

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group A: Advanced Accountancy

1. Financial Accounting and Auditing VII -Financial Accounting *Modules at a Glance*

Sr. No.	Modules	No. of Lectures
1	Preparation of Final Accounts of Companies	15
2	Internal Reconstruction	15
3	Buy Back of Shares	10
4	Investment Accounting (w.r.t. Accounting Standard-13)	12
5	Ethical Behaviour and Implications for Accountants	08
	Total	60

Sr. No.	Modules / Units
1	Preparation of Final Accounts of Companies
	 Relevant provisions of Companies Act related to preparation of Final Account (excluding cash flow statement) Preparation of financial statements as per Companies Act. (excluding cash flow statement) AS 1 in relation to final accounts of companies (disclosure of accounting policies) Adjustment for – Closing Stock Depreciation Outstanding expenses and income Prepaid expenses and Pre received income Proposed Dividend and Unclaimed Dividend Provision for Tax and Advance Tax Bill of exchange (Endorsement, Honour, Dishonour) Capital Expenditure included in Revenue expenditure and vice versa eg- purchase of furniture included in purchases Unrecorded Sales and Purchases Good sold on sale or return basis Managerial remuneration on Net Profit before tax Transfer to Reserves Bad debt and Provision for bad debts Calls in Arrears Loss by fire (Partly and fully insured goods) Goods distributed as free samples. Any other adjustments as per the prevailing accounting standard.
2	Internal Reconstruction
	Need for reconstruction and company law provisions Distinction between internal and external reconstructions. Methods including alteration of share capital, variation of shareholder rights, sub division, consolidation, surrender and reissue / cancellation, reduction of share capital with relevant legal provisions and accounting treatment for same.
3	Buy Back of Shares
	Company Law / Legal provisions (including related restrictions, power, transfer to capital redemption reserve account and prohibitions) Compliance of conditions including sources, maximum limits and debt equity ratio. Cancellation of Shares Bought back(Excluding Buy Back of minority shareholding)

Sr. No.	Modules / Units
4	Investment Accounting (w.r.t. Accounting Standard- 13)
	For shares (variable income bearing securities) For debentures/Preference. shares (fixed income bearing securities) Accounting for transactions of purchase and sale of investments with ex and
	cum interest prices and finding cost of investment sold and carrying cost as per weighted average method (Excl. brokerage). Columnar format for investment account.
5	Ethical Behaviour and Implications for Accountants
	Introduction, Meaning of ethical behavior Financial Reports – What is the link between law, corporate governance, corporate social responsibility and ethics? What does the accounting profession mean by the ethical behavior? Implications of ethical values for the principles versus rule based approaches to accounting standards The principal based approach and ethics The accounting standard setting process and ethics The IFAC Code of Ethics for Professional Accountants Ethics in the accounting work environment – A research report Implications of unethical behavior for financial reports Company Codes of Ethics The increasing role of whistle – Blowing Why should student learn ethics?

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group A: Advanced Accountancy

2. Financial Accounting and Auditing Paper-VIII: Cost Accounting *Modules at a Glance*

Sr. No.	Modules	No. of Lectures
1	Introduction to Cost Accounting	10
2	Material Cost	10
3	Labour Cost	10
4	Overheads	10
5	Classification of Costs and Cost Sheet	10
6	Reconciliation of cost and financial accounts	10
	Total	60

Sr. No.	Modules / Units
1	Introduction to Cost Accounting
	 (a) Objectives and scope of Cost Accounting (b) Cost centres and Cost units (c) Cost classification for stock valuation, Profit measurement, Decision making and control (d) Coding systems (e) Elements of Cost (f) Cost behaviour pattern, Separating the components of semi- variable costs
2	Material Cost
	 (i) Procurement procedures—Store procedures and documentation in respect of receipts and issue of stock, Stock verification (ii) Inventory control —Techniques of fixing of minimum, maximum and reorder levels, Economic Order Quantity, ABC classification; Stocktaking and perpetual inventory (iii) Inventory accounting Note- Simple practical problems based on Calculation of EOQ, Raw Material Turnover ratio, Preparation of stock ledger and Valuation of Inventories, based on FIFO and Weighted average cost.
3	Labour Cost
	 (i) Attendance and payroli procedures, Overview of statutory requirements, Overtime, Idle time and Incentives (ii) Labour turnover (iii) Utilisation of labour, Direct and indirect labour, Charging of labour cost, Identifying labour hours with work orders or batches or capital jobs (iv) Efficiency rating procedures (v) Remuneration systems and incentive schemes. Note-Simple practical problems based on Preparation of labour cost statement Remuneration and incentive systems based on Piece work plan, Haley Premium Plan, Rowan system, Gantt's Task
4	Overheads
	Functional analysis — Factory, Administration, Selling and Distribution Behavioural analysis — Fixed, Variable, Semi-variable cost Note-Simple practical problems on Departmentalization and apportionment of primary overheads, Computation of overhead rates including Machine overhead rates Basic concepts of treatment of over/under absorption of overheads- Direct Labour method and Prime Cost method
5	Classification of Costs and Cost Sheet
	Classification of costs, Cost of Sales, Cost Centre, Cost Unit, Profit Centre and Investment Centre Cost Sheet, Total Costs and Unit Costs, Different Costs for different purpose Note - Simple practical problems on preparation of cost sheet
6	Reconciliation of cost and financial accounts
	Practical problems based on Reconciliation of cost and Financial accounts.

> Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group B: Business Management

1. Business Management Paper-III: Management and Organization Development

Sr. No.	Modules	No. of Lectures
1	Introduction	15
2	Planning	15
3	Organizing as a Managerial Function	15
4	Staffing	15
	Total	60

Sr. No.	Modules / Units	
1	Introduction	
	Management – Definition and Characteristics	
	 Management – as Science, art and profession – Levels of management ar management skills 	
	Development of Management Thought – Scientific Approach Administrativ	
	School, Behaviour School, Systems Approach and Contingency Approac	
	Evolution of Indian management thoughts and their relevance in the current	
	era.	
	 Functions of Management in a typical business organisation 	
2	Planning	
	 Planning, forecasting, decision making and problem solving 	
	 Nature, characteristics, merits and limitations of planning. 	
	Classification and components of plans	
	 Essentials of a good plan and planning process 	
	 Management by objectives (MBO) – Importance and relevance 	
2	Organizing as a Managerial Function	
5	Organizing as a Managerial Function	
3	 Organizing as a Managerial Function Definition and Principles 	
3	 Organizing as a Managerial Function Definition and Principles Departmentalisation 	
3	 Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees 	
3	 Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees Informal organisations – Relevance and Importance 	
3	 Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees Informal organisations – Relevance and Importance Authority, responsibility, accountability and span of control 	
3	 Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees Informal organisations – Relevance and Importance Authority, responsibility, accountability and span of control Organizational hierarchy – charts 	
3	 Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees Informal organisations – Relevance and Importance Authority, responsibility, accountability and span of control Organizational hierarchy – charts Delegation of authority and decentralization 	
3	 Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees Informal organisations – Relevance and Importance Authority, responsibility, accountability and span of control Organizational hierarchy – charts Delegation of authority and decentralization Emergence of virtual organisation – merits and limitations 	
3	 Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees Informal organisations – Relevance and Importance Authority, responsibility, accountability and span of control Organizational hierarchy – charts Delegation of authority and decentralization Emergence of virtual organisation – merits and limitations 	
4	 Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees Informal organisations – Relevance and Importance Authority, responsibility, accountability and span of control Organizational hierarchy – charts Delegation of authority and decentralization Emergence of virtual organisation – merits and limitations Staffing Importance of human resource in organisations 	
4	 Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees Informal organisations – Relevance and Importance Authority, responsibility, accountability and span of control Organizational hierarchy – charts Delegation of authority and decentralization Emergence of virtual organisation – merits and limitations Staffing Importance of human resource in organisations Estimation of human resource requirements 	
4	 Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees Informal organisations – Relevance and Importance Authority, responsibility, accountability and span of control Organizational hierarchy – charts Delegation of authority and decentralization Emergence of virtual organisation – merits and limitations Staffing Importance of human resource in organisations Estimation of human resource requirements Human Asset Accounting 	
4	 Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees Informal organisations – Relevance and Importance Authority, responsibility, accountability and span of control Organizational hierarchy – charts Delegation of authority and decentralization Emergence of virtual organisation – merits and limitations Staffing Importance of human resource in organisations Estimation of human resource requirements Human Asset Accounting Job Analysis 	
3	 Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees Informal organisations – Relevance and Importance Authority, responsibility, accountability and span of control Organizational hierarchy – charts Delegation of authority and decentralization Emergence of virtual organisation – merits and limitations Staffing Importance of human resource in organisations Estimation of human resource requirements Human Asset Accounting Job Analysis Recruitment and selection 	
4	Organizing as a Managerial Function Definition and Principles Departmentalisation Formal organisations – Functional, SBU, Matrix, Committees Informal organisations – Relevance and Importance Authority, responsibility, accountability and span of control Organizational hierarchy – charts Delegation of authority and decentralization Emergence of virtual organisation – merits and limitations Staffing Importance of human resource in organisations Estimation of human resource requirements Human Asset Accounting Job Analysis Recruitment and selection Training and Development 	

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group B: Business Management

2. Business Management Paper-V: Financial Management

Sr. No.	Modules	No. of Lectures
1	Introduction to Financial Management	11
2	Study of Financial Statements	11
3	Ratio Analysis	12
4	Sources of Finance and Cash Flow Analysis	11
	Total	45

Sr. No.	Modules / Units	
1	Introduction to Financial Management	
	 Definition, nature and functions of financial management Objectives of financial management Importance of financial management and limitations. Preparation of financial Statements adhering to current statutory requirements. 	
2	Study of Financial Statements	
	 Objectives of financial statement analysis and interpretation Steps involved in the analysis of financial statements Comparative Statements Common Size Statements Trend Analysis 	
3	Ratio Analysis	
	 Ratio Analysis Ratio Analysis – Meaning and objectives and Classification of Ratios- Traditional classification, functional classification and classification from the point of view of users Balance Sheet Ratios- Current Ratio, Liquid Ratio, Proprietary Ratio, Stock- Working Capital Ratio, Capital Gearing Ratio, Debt Equity Ratio Revenue Statement Ratios - Gross Profit Ratio, Operating Ratio, Expense Ratios, Net Profit Ratio, Stock Turnover Ratio. Combined Ratios - Return on Capital Employed, Return on Proprietors' Funds, Return on Equity Share Capital, Debtors' Turnover Ratio (Debtors' Velocity), Earning Per Share, Dividend Payout Ratio, Price Earning Ratio Importance and limitations of Accounting Ratios 	
4	Sources of Finance and Cash Flow Analysis	
	 Classification of sources of finance with reference to period , ownership and source of generation Internal and external financing including choice of financial instruments Cash Flow Statement – Meaning and Classification Uses of Cash Flow statement Preparation of Cash Flow Statement – Direct and Indirect 	

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group C: Banking and Finance

1. Banking and Finance Paper - I: Central Banking

Sr. No.	Modules	No. of Lectures
1	Indian Financial System	15
2	Financial Markets in India	15
3	Commodity Market	15
4	Derivatives Market	15
	Total	60

Sr. No.	Modules / Units	
1	Indian Financial System	
	 A) Introduction, Meaning, Functions of financial system, Indian financial system from financial neutrality to financial activism and from financial volatility to financial stability, Role of Government in financial development, Overview of Phases of Indian financial system since independence (State Domination – 1947-1990, Financial sector reforms 1991 till Financial Sector Legislative Reforms Commission 2013), Monitoring framework for financial conglomerates. B) Structure of Indian Financial System – Banking & Non-Banking Financial Institutions, Organized and Unorganized Financial Markets, Financial Assets/Instruments, Fund based & Fee Based Financial Services. 	
2	Financial Markets in India	
	 A) Indian Money Market – Meaning, Features, Functions, Importance, Defects, Participants, Components of Organized and Unorganized markets and Reforms B) Indian Capital Market - Meaning, Features, Functions, Importance, Participants, Instruments, Reforms in Primary and Secondary Market. C) Indian Stock Market - Meaning and functions of Stock Exchange- NSE and BSE. D) Equity Market – Primary Market, IPO, Book Building, Role of Merchant Bankers, ASBA, Green Shoe Option, Issue of Bonus shares, Right Shares, Sweat Equity shares, ESOP. E) Indian Debt Market –Market Instruments, Listing, Primary and Secondary Segments 	
3	Commodity Market	
	 Introduction to commodities market - Meaning History & origin, Types of commodities traded, Structure of commodities market in India, Participants in commodities market, Trading in commodities in India(cash & derivative segment), Commodity exchanges in India & abroad Reasons for investing in commodities. 	
4	Derivatives Market	
	 Introduction to Derivatives market- Meaning, History & origin, Elements of a derivative contract, Factors driving growth of derivatives market, Types of derivatives, Types of underlying assets, Participants in derivatives market, Advantages & disadvantages of trading in derivatives market, Current volumes of derivative trade in India, Difference between Forwards & Futures 	

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group C: Banking and Finance

2. Banking and Finance Paper - II: Financial Reporting Analysis

Sr. No.	Modules	No. of Lectures
1	Final Accounts of Banking Company	16
2	Final Accounts of Insurance Company	12
3	Preparation of Final Accounts of Companies	12
4	Cash Flow Analysis & Ethical Behavior and implications for accountants	12
5	Introduction to IFRS	08
	Total	60

Sr. No.	Modules / Units	
1	Final Accounts of Banking Company	
	Legal provision in Banking Regulation Act, 1949 relating to Accounts. Statutory reserves including Cash Reserve and Statutory Liquidity Ratio. Bill purchase and discounted, rebate of bill discounted. Final Accounts in prescribed form	
	Non – performing assets and Income from non – performing assets. Classification of Advances, standard, sub – standard, doubtful and provisioning requirement.	
2	Final Accounts of Insurance Company	
	 (a) Preparation and presentation of Corporate Final Accounts for Insurance Companies (b) Final Accounts in accordance with Insurance Legislation. (c) Study of Accounting Policies from Annual Reports of Listed Insurance Companies 	
3	Preparation of Final Accounts of Companies	
	 (excluding cash flow statement) Preparation of financial statements as per Companies Act. (excluding cash flow statement) AS 1 in relation to final accounts of companies (disclosure of accounting policies) Adjustment for – Closing Stock Depreciation Outstanding expenses and income Prepaid expenses and Pre received income Proposed Dividend and Unclaimed Dividend Provision for Tax and Advance Tax Bill of exchange (Endorsement, Honour, Dishonour) Capital Expenditure included in Revenue expenditure and vice versa egpurchase of furniture included in purchases Unrecorded Sales and Purchases Good sold on sale or return basis Managerial remuneration on Net Profit before tax Transfer to Reserves Bad debt and Provision for bad debts 	
	 14. Calls in Arrears 15. Loss by fire (Partly and fully insured goods) 16. Goods distributed as free samples. Any other adjustments as per the prevailing accounting standard. 	

Sr. No.	Modules / Units
	Cash Flow Analysis as per AS 3 (Indirect Method Only)
4	Ethical Behaviour and implications for accountants
	Introduction, Meaning of ethical behavior
	Financial Reports – What is the link between law, corporate governance,
	corporate social responsibility and ethics?
	What does the accounting profession mean by the ethical behavior?
	Implications of ethical values for the principles versus rule based approaches to
	accounting standards
	The principal based approach and ethics
	The accounting standard setting process and ethics
	The IFAC Code of Ethics for Professional Accountants
	Ethics in the accounting work environment – A research report
	Implications of unethical behavior for financial reports
	Company Codes of Ethics
	The increasing role of whistle – Blowing
	Why should student learn ethics?
5	Introduction to IFRS
	IFRS 1- First time Adoption of International Financial Reporting Statements
	Objective, Scope, Definitions, First IFRS financial statements, Recognition and
	measurement, Comparative information, Explanation of transition to IFRS,
	Reconciliations, Interim financial reports, Designation of financial assets or
	financial liabilities, Use of fair value as deemed cost, Use of deemed cost,
	Exceptions to retrospective application of other IFRS, Exemptions for business
	combination, Exemptions from other IFRS and Presentation and Disclosure.
	IFRS2- Share Based Payment – Objective, Scope, Definitions, Recognition, Equity
	settled share based payment transactions, Transactions in which services are
	received, Treatment of vesting conditions, Expected Vesting Period, Determining
	the fair value of equity instruments granted, Modifications of terms and
	conditions, Cancellation, Cash settled share based payment transactions, Share
	based payment transactions in which the terms of the arrangement provide the
	counterparty with a choice of settlement, Share based payment transactions in
	which the terms of the arrangement provide the entity with a choice of
	settlement, Share based payment transactions among group entities (2009
	Amendments)
	Disclosure.

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group D: Commerce

1. Commerce Paper - I: Management of Service Industry

Sr. No.	Modules	No. of Lectures
1	Introduction to Service Industry	15
2	Tourism and Hospitality Industry	15
3	Transport Industry	15
4	Health Care Industry	15
	Total	60

Sr. No.	Modules / Units
1	Introduction to Service Industry
	Services-Concept- characteristics –classification-significance- importance of relationship marketing in services- technology and its impact on service industry-role of service industry in economic development- career opportunitie
2	Tourism and Hospitality Industry
	Tourism Industry- significance- challenges- types of Tourism products-Present scenario of travel and tourism in India- Future prospects- Government's Tourism policy- Role /functions of Indian Tourism Development Corporation and Maharashtra Tourism Development Corporation Hospitality Industry- characteristics- classification Restaurants- classification and types of consumers in a restaurant
3	Transport Industry
	Role of transport in economic development- types of transport (road, rail, air & ocean)- merits, demerits & recent trends in each mode
4	Health Care Industry
	Features- types of health care services- major inputs of health care industry- role of Corporates & Government in health care sector- emerging trends in health care industry

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group D: Commerce

2. Commerce Paper - II: Commercial Administration

Sr. No.	Modules	No. of Lectures
1	Introduction and Orientation to Commercial Administration	15
2	Office Layout and Equipments	15
3	Office Communication	15
4	Information Management and Records	15
	Total	60

Sr. No.	Modules / Units	
1	Introduction and Orientation to Commercial Administration	
	Commercial Administration: Meaning, nature and importance of Commercial Administration in business activity- role and functions of a commercial office-administrative structure of a commercial office-abilities, skills and attributes of office manager.	
2	Office Layout and Equipments	
	Office layout- Meaning, importance and types of office layout (enclosed or cellular/modular/ virtual etc.)- factors determining office layout- ergonomics with respect to comfort, health & safety Office equipments- various types of office equipments-functions of office equipments- types and uses of various office stationery-Role of IT in office administration	
3	Office Communication	
	Communication : Various channels of office communication- factors affecting selection of communication channels communication flows(upward/downward/vertical/horizontal/diagonal/grapevine)- barriers to effective communication- methods for intra firm communication- role of front office in communication with external stakeholders	
4	Information Management and Records	
	Information Management : Meaning and characteristics of information management- types of records to be maintained- characteristics of effective record management system- methods of classification of records-methods and procedures for managing inactive files- duties of record management Department.	
Elective Courses (EC) 1 B. Discipline Related Elective (DRE) Courses 3. Commerce - V Marketing

Sr. No.	Modules	No. of Lectures
1	Introduction to Marketing	12
2	Marketing Decisions I	11
3	Marketing Decisions	11
4	Key Marketing Dimensions	11
	Total	45

Sr. No.	Modules / Units		
1	Introduction to Marketing		
	 Marketing, Concept, Features, Importance, Functions, Evolution, Strategic v/s Traditional Marketing Marketing Research - Concept, Features, Process Marketing Information System-Concept, Components Data Mining- Concept, Importance Consumer Behaviour- Concept, ,Factors influencing Consumer Behaviour Market Segmentation- Concept, Benefits, Bases of market segmentation Customer Relationship Management- Concept , Techniques Market Targeting- Concept, Five patterns of Target market Selection 		
2	Marketing Decisions I		
	 Marketing Mix- Concept, Product- Product Decision Areas Product Life Cycle- Concept, Managing stages of PLC Branding- Concept, Components Brand Equity- Concept, Factors influencing Brand Equity Packaging- Concept, Essentials of a good package Product Positioning- Concept, Strategies of Product Positioning Service Positioning- Importance & Challenges Pricing- Concept, Objectives, Factors influencing Pricing, Pricing Strategies 		
3	Marketing Decisions		
	 Physical Distribution- Concept, Factors influencing Physical Distribution, Marketing Channels (Traditional & Contemporary Channels) Supply Chain Management-Concept, Components of SCM Promotion- Concept, Importance, Elements of Promotion mix Integrated Marketing Communication (IMC)- Concept, Scope, Importance Sales Management- Concept, Components, Emerging trends in selling Personal Selling- Concept, Process of personal selling, Skill Sets required for Effective Selling 		
4	Key Marketing Dimensions		
	 Marketing Ethics: Concept, Unethical practices in marketing, General role of consumer organizations Competitive Strategies for Market Leader, Market Challenger, Market Follower and Market Nicher Marketing Ethics: Rural Marketing- Concept, Features of Indian Rural Market, Strategies for Effective Rural Marketing Digital Marketing-Concept, trends in Digital Marketing Green Marketing- concept, importance Challenges faced by Marketing Managers in 21st Century Careers in Marketing – Skill sets required for effective marketing Factors contributing to Success of brands in India with suitable examples, 		

Elective Courses (EC) 1 B. Discipline Related Elective (DRE) Courses 4. Business Economics - V Macro Economic Aspects of India

Sr. No.	Modules	No. of Lectures
1	Macro Economic overview of India	15
2	Agriculture During Post Reform Period	10
3	The Industry And Service Sector During Post Reform Period	10
4	Banking and Financial Market	10
	Total	45

Sr. No.	Modules / Units		
1	Macro Economic overview of India		
	 Overview of New Economic Policy-1991, - Role of Social Infrastructure with reference to education, health and family welfare. Sustainable Development Goals and Policy measures: Make in India, Invest in India, and Skill Development and Training Programmes. Economy Investment Policy Measures in India – Economy Investment Promotion 		
	Board, FDI- MNCs and their role.		
2	Agriculture During Post Reform Period		
	 National Agricultural Policy 2000: Objectives, Features and Implications Agricultural pricing and agricultural finance Agricultural Marketing Development-Agricultural Market infrastructure - Market information- Marketing training- Enabling environments-Recent developments 		
3	The Industry And Service Sector During Post Reform Period		
	 Policy Measures- Competition Act 2003, Disinvestment Policy, Micro, Small and Medium Enterprises [MSME sector] since 2007. Industrial Pollution in India: Meaning, Types, Effects and Control. Service Sector: Recent trends, role and growth in Healthcare and Tourism Industry 		
4	Banking and Financial Market		
	 Banking Sector- Recent trends, issues and challenges in Banking and Insurance Industry Money Market – Structure, Limitations and Reforms. Capital Market – Structure, Growth and Reforms. 		

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

1. Trade Unionism and Industrial Relations Paper - I

Sr. No.	Modules	No. of Lectures
1	Trade Unionism	12
2	Functions of Trade Unions	12
3	Leadership ideology, Recognition, Registration and administration of trade union	11
4	ILO- Objectives, Principles and Organs	10
	Total	45

Sr. No.	Modules / Units	
1	Trade Unionism	
	Meaning, Scope, Significance and Objectives, Structure of trade unions in India. New Role of Trade Union in the context of globalization	
2	Functions of Trade Unions	
	 Functions of trade unions with respect to: Wages ii) Labour welfare iii) Training and education iv) Social security) Awareness of social responsibility vi) Environmental awareness. Problems of trade unions, Industrial dispute – causes of industrial disputes 	
3	Leadership ideology, Recognition, Registration and administration of trade union	
	 Impact of recession and globalization on trade unions in India. Problems of employees and need of trade unions in Information and Communication Industry. 	
4	ILO- Objectives, Principles and Organs	
	ILO- Objectives, principles and organs. Impact of ILO on Indian trade union movement.	
	 Workers participation in management – concept, pre-requisites, forms & levels of participation, benefit of workers Participation in Management 	
	 Women's participation in trade union activities. 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

2. Computer Systems and Applications Paper - I

Sr. No.	Modules	No. of Lectures
1	Data Communication, Networking and Internet	18
2	Database and MySQL	09
3	Database and MySQL	09
4	Spread Sheet	09
	Total	45

Sr. No.	Modules / Units		
1	Data Communication, Networking and Internet		
1	 Data Communication, Networking and Internet a) Data Communication Component, Data representation, Distributed process (Concepts only) b) Network Basics and Infrastructure 		
	Receiving and sending emails with attachments by scanning attachments for viruses.		
2	Cyber Chine, Hacking, Shinning, Spooling		
2	 a) Introduction :To Databases, Relational and Non-relational database system MySQL as a Non-procedural Language. View of data. b) MySQL Basics :Statements (Schema Statements, Data statements, Transaction statements), names (table & column names), data types (Char, Varchar, Text, Mediumtext, Longtext, Smallint, Bigint, Boolean, Decimal, Float, Double, Date, Date Time, Timestamp, Year, Time), Creating Database, inserting data, Updating data, Deleting data, expressions, built-in-functions – lower, upper, reverse length, Itrim, rtrim, trim, left, right, mid, concat, now, time, date, curdate, day, month, year, dayname, monthname, abs, pow, mod, round, sqrt missing data(NULL and NOT NULL DEFAULT values) CREATE,USE, ALTER (Add, Remove, Change columns), RENAME, SHOW, DESCRIBE (CREATE TABLE, COLUMNS, STATUS and DATABASES only) and DROP (TABLE, COLUMN, DATABASES statements), PRIMARY KEY FOREIGN KEY (One and more columns) Simple Validity checking using CONSTRAINTS. 		
3	Database and MySQL		
	 a) MySQL Simple queries : TheSELECT statement (From, Where, Group By, Having, Order By, Distinct, Filtering Data by using conditions. Simple and complex conditions using logical, arithmetic and relational operators (=, !,=, <, >, <>, AND, OR, NOT, LIKE) Aggregate Funtions – count, sum, avg, max, min. b) Multi-table queries:Simple joins (INNER JOIN), SQL considerations for multi table queries(table aliases, qualified column names, all column selections self joins). c) Nested Queries (Only up to two levels) :Using sub queries, sub query search conditions, sub queries & joins, nested sub queries, correlated sub queries, sub queries, sub queries in the HAVING clause. 		

Sr. No.	Modules / Units		
4	Spread Sheet		
	a) Creating and Navigating worksheets and adding information to worksheets		
	 Types of data, entering different types of data such as texts, numbers, dates, functions. 		
	 Quick way to add data Auto complete, Autocorrect, Auto fill, Auto fit. Undo and Redo. 		
	 Moving data, contiguous and non contiguous selections, Selecting with keyboard. Cut-Copy, Paste. Adding and moving columns or rows. Insertir columns and rows. 		
	 Find and replace values. Spell check. 		
	 Formatting cells, Numbers, Date, Times, Font, Colors, Borders, Fills. 		
	b) Multiple Spreadsheets		
	 Adding, removing, hiding and renaming worksheets. 		
	 Add headers/Footers to a Workbook. Page breaks, preview. 		
	• Creating formulas, inserting functions, cell references, Absolute, Relative (within a worksheet, other worksheets and other workbooks).		
	c) Functions		
	 Financial functions: FV, PV, PMT, PPMT, IPMT, NPER, RATE 		
	• Mathematical and statistical functions. ROUND, ROUNDDOWN, ROUNDUP, CEILING, FLOOR, INT, MAX, MIN, MOD, SQRT, ABS, SUM, COUNT, AVERAGE		
	d) Data Analysis		
	 Sorting, Subtotal. 		
	 Pivot Tables- Building Pivot Tables, Pivot Table regions, Rearranging Pivot Table. 		

Note :

- a) Theory 03 lectures per week.
- b) Practical batch size 20-25, 01 practical = 03 theory lectures per week.
- c) 10 Practical's are to be completed in each semester.

Semester V

Торіс	Number of Practical's
Word processing	01
Spread sheet	03
MySQL	06

Minimum 6 practical's are to be recorded in the journal in the Semester V [Minimum 4 on SQL, 2 on MS-Excel]

Scheme of Examination

Туре	Marks	Duration
Theory	75	2 ½ hours
Practical	20	1 hour per batch of 10
Active Participation and Class conduct	05	

• Practical Examination Pattern- Semester V

Sr. No.	Торіс	Marks
01	MySQL	07
02	Spread Sheet	03
03	Journal	05
04	Viva	05

 Practical examination to be conducted 2 to 3 weeks before the theory examination. Marks out of 25 to be submitted to the University before commencement of theory examination.

- Software Requirement : MS-Excel 2010, VB 6.0
- Hardware

For a batch of 120 students minimum 10 computers with appropriate hardware and software installed on each computer. During practical hours maximum two student may share one computer.

 For in house computing facility fee of rupees 750/- be charged for each student per Semester in the existing fee structure against head of computer fee/computer practical.

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

Export Marketing Paper - I

Modules at a Glance

3.

Sr. No.	Modules	No. of Lectures
1	Introduction to Export Marketing	12
2	Global Framework for Export Marketing	11
3	India's Foreign Trade Policy	11
4	Export Incentives and Assistance	11
	Total	45

Sr. No.	Modules / Units		
1	Introduction to Export Marketing		
	 a) Concept and features of Export Marketing; Importance of Exports for a Nation and a Firm; Distinction between Domestic Marketing and Export Marketing b) Factors influencing Export Marketing; Risks involved in Export Marketing; Problems of India's Export Sector c) Major merchandise/commodities exports of India (since 2015); Services exports of India (since 2015); Region-wise India's Export Trade (since 2015) 		
2	Global Framework for Export Marketing		
	 a) Trade barriers; Types of Tariff Barriers and Non-Tariff barriers; Distinction between Tariff and Non-Tariff barriers b) Major Economic Groupings of the World; Positive and Negative Impact of Regional Economic Groupings; Agreements of World Trade Organisation (WTO) c) Need for Overseas Market Research; Market Selection Process, 		
	Determinants of Foreign Market Selection		
3	India's Foreign Trade Policy		
	 a) Foreign Trade Policy (FTP) 2015-20 - Highlights and Implications, Export Trade facilitations and ease of doing business as per the new FTP b) Role of Directorate General of Foreign Trade (DGFT), Negative list of Exports, Deemed Exports c) Benefits to Status Holders & Towns of Excellence; Common benefits for EHTP, BTP and STP; Benefits enjoyed by (IIAs) Integrated Industrial Areas(SEZ), EOU, AEZ 		
4	Export Incentives and Assistance		
	 a. Financial Incentives available to Indian Exporters - Marketing Development Assistance (MDA), Market Access Initiative (MAI), Assistance to States for Infrastructure Development for Exports (ASIDE), Industrial Raw Material Assistance Centre(IRMAC), b. Institutional Assistance to Indian Exporters - Federation of Indian Export Organisations (FIEO), India Trade Promotion Organisation (ITPO), The Federation of Indian Chambers of Commerce and Industry (FICCI), Export Promotion Councils (EPCs) & Commodity Boards (CBs), Indian Institute of Foreign Trade (IIFT), Indian Institute of Packaging (IIP) 		
	c. Schemes - Export Promotion Capital Goods (EPCG) Scheme, Duty Exemption and Remission Schemes, Export Advance Authorisation Scheme; Duty Drawback (DBK); IGST Refund for Exporters		

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

4. Marketing Research Paper - I

Sr. No.	Modules	No. of Lectures
1	Introduction to Marketing Research	12
2	Planning Research	11
3	Data Collection	11
4	Data Processing, Analysis, Reporting	11
	Total	45

Sr. No.	Modules / Units		
1	Introduction to Marketing Research		
	 a. Marketing Research- Definition, features, functions, significance of Marketing Research in marketing decision making, limitations of Marketing Research b. Steps in Marketing Research, Ethics in Marketing Research, Career options in Marketing Research, Qualities of a good Marketing Research professional c. Marketing Information System- Definition, components, essentials of a good MIS, Concept of Decision Support System- Components , importance Data Mining- concept, importance 		
2	Planning Research		
	 a. Research Design- concept, importance, types Hypothesis- concept, types, importance b. Questionnaire- concept, types of questions, steps in the preparation of questionnaire, essentials of a good questionnaire c. Sampling- concept, terms in sampling, techniques of sampling, essentials of good sampling 		
3	Data Collection		
	 a. Primary data-concept, merits, demerits, methods b. Secondary data- concept, merits, demerits, sources c. Qualitative and Quantitative research- concept, features, Qualitative v/s Quantitative research Integrating technology in data collection, methods- (online surveys, hand held devices, text messages, social networking), importance 		
4	Data Processing, Analysis, Reporting		
	 a. Stages in Data processing Editing- meaning, objectives, types Coding- meaning, guidelines Classification- meaning, methods Tabulation- meaning, methods b. Data Analysis & Interpretation Data Analysis- meaning, steps, use of statistical tools (SPSS, SAS, MS EXCEL, MINITAB) Data Interpretation- meaning, importance, stages 		
	 c. Report Writing- concept, types, contents, essentials, use of visual aids in research report 		

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

5. Investment Analysis and Portfolio Management Paper - I

Sr. No.	Modules	No. of Lectures
1	Portfolio Management – An Introduction	09
2	Portfolio Analysis and Selection	12
3	Portfolio Revision and Evaluation	12
4	Bond Valuation	12
	Total	45

Sr. No.	Modules / Units		
1	Portfolio Management – An Introduction		
	 A) Investment - Meaning, Characteristics, Objectives, Investment V/s Speculation, Investment V/s Gambling and Types of Investors B) Portfolio Management - Meaning, Evolution, Phases, Role of Portfolio Managers, Advantages of Portfolio Management. C) Investment Environment in India and factors conducive for investment in India. 		
2	Portfolio Analysis and Selection		
	 A) Portfolio Analysis – Meaning and its Components, Calculation of Expected Return and Risk, Calculation of Covariance, Risk – Return Trade off. B) Portfolio Selection – Meaning, Feasible Set of Portfolios, Efficient Set of Portfolios, Selection of Optimal Portfolio, Markowitz Model, Limitations of Markowitz Model, Measuring Security Return and Portfolio Return and Risk under Single Index Model and Multi Index Model. 		
3	Portfolio Revision and Evaluation		
	 A) Portfolio Revision – Meaning, Need, Constraints and Strategies. B) Portfolio Evaluation – Meaning, Need, Measuring Returns (Sharpe, Treynor and Jensen Ratios) and Decomposition of Performance. 		
4	Bond Valuation		
	 A) Bond Valuation – Meaning, Measuring Bond Returns – Yield to Maturity, Yield to call and Bond Pricing. Bond Pricing Theorems, Bond Risks and Bond Duration. (Practical Problems on YTM and Bond Duration.) 		

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

6. Transport Management Paper - I

Sr. No.	Modules	No. of Lectures
1	Transportation Network	11
2	Factors Influencing transport development	11
3	Transportation Planning and Production Management	11
4	Multi Modal Transport System in India	12
	Total	45

Sr. No.	Modules / Units	
1	Transportation Network	
	Definition of transport, Characteristics of transport, various mode of transport network- Air, Surface and Water; public transport and its importance, Element of Transport – way, unit of carriage, motive power, Terminal	
2	Factors Influencing transport development	
	Factors Influencing transport development: Physical, Economic, Political and Strategic, Concept of connectivity and accessibility, Transport organisation: terminal facilities for different modes, Transport Demand: Direction, Volume and Frequency	
3	Transportation Planning and Production Management	
	Classification of roads, types of parking, problems due to parking, nature of traffic problem in cities, traffic and environment - Pollution under control certificate agency, cost structure of different transport modes, discriminatory pricing	
4	Multi Modal Transport System in India	
	Intermodal systems – road/rail/sea; sea/air; road/air; road/rail, sea/rail, sea/road – Inland Container Depot (ICD) & Container Freight Station (CFS) Terminals, Roll- on/Roll-Off Service, Planning of multi modal transport system for Indian cities- Metro Rails, Light Rail Transit (LRT), Sub-Urban Trains, Ring Rail and Monorails, Bus Rapid Transit Systems.	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

7. Entrepreneurship and Management of Small Scale Industries Paper - I

Sr. No.	Modules	No. of Lectures
1	Introduction to Entrepreneurship	11
2	Entrepreneurial Development	11
3	Entrepreneurial Project Development	11
4	Specialized Focus Areas in Entrepreneurship	12
	Total	45

Sr. No.	Modules / Units		
3	Entrepreneurial Project Development		
	 Unit-1:- Steps in Setting-up of an Entrepreneurial Venture Idea Generation – Sources and Methods Identification and Classification of Ideas Meaning and Concept of Environment Scanning, SWOT Analysis and SWOT Matrix Unit-2:- Meaning and Concept of Project Formulation Meaning, Concept and Importance of Project Planning - Preparation of Project (Business) Plan -Points to be considered in Project Planning Components of an ideal Business Plan: Market Plan, Financial Plan, Operational Plan, and HR Plan Meaning and Concept of Project Report - Significance of Project Report - Contents of Project Report Unit-3:- Meaning, Significance and Concept of Project Appraisal Aspects and Methods of Project Appraisal: Economic Oriented Appraisal, Financial Appraisal, Market Oriented Appraisal, Technological Feasibility, 		
	 Managerial Competency Meaning, Concept, Significance and Importance of Feasibility Study 		
	Types and Different Areas of Feasibility Study		
4	Specialized Focus Areas in Entrepreneurship		
	 Onit-1:- Meaning, Features, Concept, Role and Importance of Women Entrepreneurs Problems faced by Women Entrepreneurs and Need for Promotion and Assistance Measures/Suggestions to Overcome the Problems faced by Women Entrepreneurs Agencies Supporting and Promoting Women Entrepreneurs- Stand up India. Unit-2:- Measuring Eastures Concept Pole and Importance of Bural Entrepreneurs 		
	 Meaning, Features, Concept, Role and Importance of Rural Entrepreheurs Problems faced by Rural Entrepreneurs and Need for Promotion and Assistance Measures/Suggestions to Overcome the Problems faced by Rural Entrepreneurs Agencies Supporting and Promoting Rural Entrepreneurs Unit-3:- Meaning, Features, Role and Importance, Concept of Social Entrepreneurship Differentiating Role of Social Entrepreneurship and NGOs Problems faced by Social Entrepreneurs and Need for Promotion and 		
	 Assistance – Suggestions to Overcome the Challenges faced by Social Entrepreneurs d. Examples of Social Entrepreneurship in India 		

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

8. International Marketing Paper - I

Sr. No.	Modules	No. of Lectures
1	Introduction to International Marketing	12
2	Product Decisions in International Marketing	11
3	Finance and Pricing Decisions In International Marketing	11
4	International Marketing Environment	11
	Total	45

Sr. No.	Modules / Units	
1	Introduction to International Marketing	
	 a. International Marketing- Features, Importance and scope of International Marketing. Domestic Marketing & International Marketing. b. Motivating Factors for International Marketing, Problems in International Marketing, Challenges faced by Indian Exporter in International Market. c. International Marketing Research – Need & importance, Scope & complexities International Marketing Information System- Concept, Importance and Components. 	
2	Product Decisions in International Marketing	
	 a. Product-Product Mix, International Product Life Cycle, New Product Development steps. b. Branding – Factors affecting International branding, Importance, Types. c. Labeling, Marking & Packaging – Essential of Good Packaging in International Marketing. Importance of Labeling, Marking & Packaging. 	
3	Finance and Pricing Decisions In International Marketing	
	 a. Export Finance-, Types, Features, Procedure for obtaining export finance. b. Export Financial Institutions-Role and Functions of Commercial Banks, EXIM, SIDBI, ECGC Cover. c. Pricing – Factors determining pricing in International Marketing, quotations including INCO terms (Sums / Practical Problems) Pricing strategies in International Marketing. 	
4	International Marketing Environment	
	 a. International Marketing Environment- ,Components of International Marketing Environment (Eco, Social, Cultural, Legal & regulatory environment) b. Trade barriers – Types (Tariff and Non-Tariff Barriers), trading blocs (EU, SAARC, ASEAN). c. International Forums – WTO -Role/ Functions, Agreements (TRIMS, TRIPS, GATS, AOA, AOT), IME, IRPD, RRICS- Role/ Functions. 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

Merchant Banking Paper - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Merchant Banking	11
2	Capital Funds	11
3	Issue Management Process	11
4	Issue Management & Due Diligence	12
	Total	45

9.

Sr. No.	Modules / Units		
1	Merchant Banking		
	Merchant Banking and Financial Services: Introduction, Concept of merchant banking, Financial system in India and Development of merchant banks and regulations in India. Underwriting and Brokerage - Different roles played by underwriters and brokers in issue management and their responsibilities		
2	Capital Funds		
	Raising Capital from International Markets - Needs of Indian companies for raising funds from foreign markets, Usage of Euro issue, Evaluation of various types of depository receipts - American Depository Receipts, Global Depository Receipts, FCCBs and FCEBs.		
3	Issue Management Process		
	The process of issue management and merchant banker's role in it, The appointment of SEBI registered intermediaries and other intermediaries, The process of filing of offer document by the issuer with SEBI and the ROC with the help of the lead Merchant Banker, List of the documents to be submitted before opening of the issue, Copy of agreement between the Issuer and Merchant Banker, Certificate of compliance stating compliance of conditions, Due diligence certificate while registering DRHP/ Red Herring Prospectus/ prospectus with the ROC/ final post issue report, The type of In-Principle Approval from recognized stock exchanges for initial public issues as well as in the case for rights and further public offerings, the allotment, refund and payment of interest.		
4	Issue Management & Due Diligence		
	The general obligations of Intermediaries with respect to Public Issues and Rights Issue, The pricing in preferential issue, The pricing and restrictions on allotment of Qualified Institutional Placement, The pre-issue advertisement for rights issue, Utilization of funds raised through rights issue and the manner of disclosures in the offer document, The procedure for Institutional Placement Programme w.r.t Offer Document Pricing and Allocation/Allotment Restrictions, Minimum number of allotees, Restrictions on size of the offer, Period of subscription and display of demand, Transferability of eligible securities, The procedure for issue of Indian Depository Receipts (IDRs) w.r.t Eligibility Conditions for issue of IDR, Minimum Subscription Filing of Draft Prospectus, Due diligence Certificate, Payment of Fees and Issue of advertisements for IDR, Post Issue Reports, Undersubscribed Issue Finalisation of basis of allotment, The importance of due diligence, The role of		

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

10. Direct and Indirect Taxes Paper - I

Sr. No.	Modules	No. of Lectures
1	Basic Terms	04
2	Scope of Total Income & Residential Status	04
3	Heads of Income	24
4	Deduction from Total Income	04
5	Computation of Total Income for Individual	09
	Total	45

Sr. No.	Modules / Units	
1	Basic Terms	
	Assessee, Assessment, Assessment Year, Annual value, Business, Capital Assets, Income, Person, Previous Year, Transfer	
2	Scope of Total Income & Residential Status	
	Scope of Total Income (S: 5) Residential Status (S: 6) for Individual assessee	
3	Heads of Income (S: 14)	
	 Salary (S: 15 to 17) Income from House Properties (S: 22 to 27) Profit and Gain From Business (S:28, 30, 31, 32, 35, 35D, 36, 37, 40, 40A 43B. Capital Gains (S: 45, 48, 49, 50, 54, 54 EC) restricted to computation of Capital gain on transfer of residential house property only Income from Other Sources (S: 56 to S: 59) Exclusions From Total Income (S: 10) Exclusion related to specified heads to be covered with relevant head.eg. Salary, Business Income, Capital Gain, Income from Other Sources 	
4	Deduction from Total Income	
	S 80 A, S 80C, 80CCC, 80D, 80DD, 80E, 80 U, 80 TTA	
5	Computation of Total Income for Individual	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

11. Labour Welfare and Practice Paper - I

Sr. No.	Modules	No. of Lectures
1	Labour welfare	15
2	Labour Legislations in India	10
3	Agencies of Labour welfare	10
4	Industrial Hygiene & Occupational Health	10
	Total	45

Sr. No.	Modules / Units	
1	Labour welfare	
	 Meaning, Definition, Scope, Objective & Theories of Labour welfare. Evolution of Labour Welfare in India. Provisions for Labour welfare content in the Constitution of India (including Articles 41,42,43factories Act 1948, ESI Act 1948, Workmen's Compensation Act 1923) 	
2	Labour Legislations in India	
	 Labour Welfare Facilities National Commission on Labour and Labour Welfare Labour Laws of the Elimination of Child Labour 	
3	Agencies of Labour welfare	
	 Agencies of Labour welfare in India (Central govt., State govt., Employers & Trade-Unions) Labour Welfare Officer: role and functions. Labour Administration in India 	
4	Industrial Hygiene & Occupational Health	
	 Industrial hygiene & Occupational Health Industrial accidents – causes & prevention. Occupational diseases & Statutory Provisions, Fatigue, Frustration, Absentism 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

12. Purchasing and Store Keeping Paper - I

Sr. No.	Modules	No. of Lectures
1	Material Management and Material Requirement Planning	12
2	Materials Research & 'E' Material management	11
3	Scientific Purchasing	11
4	Purchase procedure	11
	Total	45

Sr. No.	Modules / Units		
1	Material Management and Material Requirement Planning		
	 a. Material Management – Definition, Concept, Importance, Objectives, Functions, Scope, Responsibilities of material manager, Interdepartmental relationship. b. Materials budget – Purpose, Procedures & Factors. c. Material Requirement Planning – Concept, Need, Objectives and Factors affecting MRP. 		
2	Materials Research & 'E' Material management		
	 a. Material Research – Meaning, Definition, Need, Importance, Scope & Functions. b. 'E' Material Management – Concept, Application & Operation, Uses & Advantages, Classes/ Types of materials. c. Coding and Standardization – Nature, Methods and Advantages of Codification. Standardization – Nature & Importance. 		
3	Scientific Purchasing		
	 a. Purchase Department - Types of Buyers/ Consumers, Personality traits for Purchase executives/ Manager-qualities & qualification, Functions of Purchase department, Records maintain by Purchase department b. Scientific Purchasing - Meaning, Importance, Objectives & Principles, Purchase policies-Centralized vs decentralized purchasing. c. Suppliers - Sources of supplier, Selection of Suppliers - Methods, Vendor rating & Vendor development 		
4	Purchase procedure		
	 a. Purchase procedure - Make or Buy or Import decision, Buyer & Seller relationship – Techniques, Ethics in Buying – Principles, Purchase methods, Documentation. 		
	 b. National purchase Procedure – Steps/procedure, Purchase requisition, quotations – types, Invoice – Types and different Methods of payment settlement, Legal aspect of contract- Contents and Clauses. 		
	c. International Purchase Procedure – Need, Indent house / firm – Functions & Services offered by Indent house, Steps/Procedure of Importing, Documentations, Emerging trends in purchasing.		

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

13. Insurance Paper - I

Sr. No.	Modules	No. of Lectures
1	Risk Management	11
2	Insurance	11
3	Insurance Market	11
4	Insurance Regulation	12
	Total	45

Sr. No.	Modules / Units		
1	Risk Management		
	 a. Risk - Concept, different types of risks - actual and consequential losses b. Risk Management- Management of risks – Concept and Methods, loss minimization techniques c. Insurance Terminology: Common terms used in insurance - terms common to both life and non-life insurance - terms as specific to life and non-life insurance 		
2	Insurance		
	 a. Insurance – Concept, Nature of insurance, evolution of insurance, Different Types of insurance –importance of insurance, Insurance contract – Concept and Terms of an insurance contract b. Fundamental principles of insurance contract – principle of insurable interest principle of indemnity, principle of subrogation, principle of contribution principle of disclosure of all relevant information, principle of utmost goo faith. Relevance of proximate cause c. <i>Policy documents:</i> Importance of a policy document, Format of a policy document 		
3	Insurance Market		
	 a. Insurance Market- Various Constituents of Insurance Market, operations of insurance companies - operations of intermediaries - specialist insurance companies - insurance specialists b. Insurance customers - different customer needs -importance of understanding customers - customer mind-sets' - customer satisfaction - customer behaviour at purchase point - customer behaviour at the time of claim. c. Ethics in Insurance - concept and importance of ethical behaviour 		
4	Insurance Regulation		
	 a. Role of regulators – IRDA – Role, functions and importance b. Management of risk by individuals – management of risk by insurers – fixing of premiums, how insurance takes care of unexpected eventualities. c. Reinsurance – Concept and its importance for insurers - role of insurance in Economic development and social security - contribution of insurance to the society. Double Insurance 		

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

14. Banking Law and Practice Paper - I Central Banking

Sr. No.	Modules	No. of Lectures
1	An Overview of Central Banking	09
2	RBI as the Central Bank of India	09
3	Supervisory Role of RBI	09
4	Central Banking in other Countries	09
5	Central Banking in the Cyber World	09
	Total	45

Sr. No.	Modules / Units		
1	An Overview of Central Banking		
	Overview: Concept of Central Banking – Institutional Growth of Central Banking – The Changing Face of Central Banking.		
	Role of Central Banks: Determination of Goals – Inflation Targeting – Exchange Rate Targeting – Money Supply Targeting – Money-Growth Targeting – Viable Alternatives to Central Bank – Central Banking in India. Contemporary Issues- Autonomy and Independence- credibility, accountability and transparency of a central bank		
2	RBI as the Central Bank of India		
	Policy Framework for RBI: Organizational Framework – Operational Framework – Role as a Central Banker – Promotional Role of RBI – Regulatory Role of RBI.		
	RBI and Monetary Policy: Macroeconomic Policies: Objectives – What is a Monetary Policy? – Goals, Targets and Instruments – Monetary Policy in India.		
	A Brief Overview of Fiscal Policy- Striking Balance between Inflation and Growth through Monetary and Fiscal Policies		
3	Supervisory Role of RBI		
	Regulation and Supervision: Need for Regulation and Supervision – Banking Regulation Act, 1949 – Banking Regulation and Supervision – Functions of the Department of Supervisory – Regulations Review Authority – Unified Regulator v/s Multiple Regulators.		
	RBI – On-site Inspection and Off-site Monitoring and Surveillance: The Core Principles for Effective Supervision – On-site Examination – Off-site Surveillance – On-site Inspection and Off-site Monitoring in India – Off-site Monitoring in Different Countries – Computerized Off-site Monitoring and Surveillance (OSMOS).		
	RBI and Financial System- Introduction- Functions- Characteristics of Financial System- Role of RBI in regulating Financial System and Financial Sector Reforms		
4	Central Bank in other Countries		
	Federal Reserve System – Bank of England – The European Central Banking, Bank of Japan, Peoples Bank of China Interconnectivity of Central Banks with Other International Financial Institutions- ADB- IMF- World Bank- BIS- Objectives- Role and Functions		
5	Central Banking in Cyber World:		
	E Banking, E money, IT induced Changes and Monetary Policy, E payments, Risks in the New IT ERA, Impact of IT, Globalization and Central Banks.		

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

15. Regional Planning Paper - I

Sr. No.	Modules	No. of Lectures
1	Development	15
2	Factors Determining Regional Planning	10
3	Problems in India	10
4	Human and Environmental Impacts	10
	Total	45
Sr. No.	Modules / Units	
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1	Development	
	 Development: Meaning – Growth versus Development Factors promoting development of resources, infrastructure, technology, culture – diversities & disparities & need for balanced growth. Concept and Nature of Planning, need for planning of region 	
2	Factors Determining Regional Planning	
	 Factors determining regional planning Area versus regions, formal functional & problem regions – utility of these concepts in identifying regions for planning. National versus regional planning- Regional hierarchy & Multi-level planning 	
3	Problems in India	
	 Regional Problem in India- varying levels of development- causative factors Problems characterizing development-potential, declining Backward and ecologically sensitive regions examples-Inter related nature of regional problem. 	
4	Human and Environmental Impacts	
	 Human and Environmental impacts of regional planning Rural and Urban planning policy Rural and Tribal Development Plans. 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

Rural Marketing Paper - I

Modules at a Glance

16.

Sr. No.	Modules	No. of Lectures
1	Rural Marketing	11
2	Rural Consumer Behaviour	12
3	Marketing Mix – Product and Price in Rural Marketing	11
4	Marketing Mix– Promotion and Distribution in Rural Marketing	11
	Total	45

Sr. No.	Modules / Units	
1	Rural Marketing	
	 a. Rural Marketing-Concept, Nature, Scope, Significance of Rural Marketing b. Factors contributing to Growth of rural markets, e-rural marketing, growing importance of rural marketing, challenges in rural marketing c. Components and classification of Rural markets, Rural Marketing Information System 	
2	Rural Consumer Behaviour	
	 a. Rural Consumer behaviour-features, Rural Market VS Urban Market, Lifestyle of rural consumer, Classification of rural consumers, factors influencing consumer behaviour b. Rural Marketing Research- Significance, Tools of marketing research for rural marketing c. FMCG sector in Rural India-concept and classification of consumer goods 	
3	Marketing Mix – Product and Price in Rural Marketing	
	 a. Potential and size of the Rural Markets, Marketing mix for rural marketing b. Product Strategy - Product mix Decisions - Competitive product strategies for rural markets, importance of Branding, Packaging and Labelling in rural marketing c. Pricing strategy – pricing objectives, pricing policies, innovative pricing methods for rural markets 	
4	Marketing Mix– Promotion and Distribution in Rural Marketing	
	 a. Promotion strategy - appropriate media - Designing right promotion mix – promotional campaigns b. Distribution - Logistics Management - Problems encountered, Channels for rural markets, selection of appropriate channels- Factors c. New approaches and strategies to reach out rural markets 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

17. Elements of Operational Research Paper - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Operation Research	10
2	Replacement Theory	05
3	Linear Programming Problems (LPP)	15
4	Transportation Problem	15
	Total	45

Pre-requisites: Use of Normal Distribution in finding Probabilities. Concept of present value of money. Application of derivatives to obtain minima of Cost functions

Sr. No.	Modules / Units	
1	Introduction to Operation Research and Replacement Theory	
	Introduction: Meaning and scope of Operations Research, Applications in Business, Commerce and Industry, limitations of Operations Research.	
2	Replacement Theory	
	Replacement Theory: Replacement Models for items that deteriorate with time assuming value money i) constant ii) changes with time. Replacement of items that fail completely using individual and Group replacement.	
3	Linear Programming Problems (LPP)	
	Mathematical Formulation of LPP . Solution to the LPP using Graphical Method, Simplex Method and Big M method Duality in LPP. Detection of optimum solution to primal using optimum solution to the dual.	
4	Transportation Problem	
	Description and Formulation of Transportation Problem Initial Basic Feasible Solution by i) North West Corner Rule, ii) Least Cost Entry Method (Matrix Minima), iii) Vogel's Approximation Method. Optimum Solution by MODI Method. Existence of Alternative optimum solution. Impact of change in some cost Coefficients on optimum solution. Maximization type and Unbalanced Transportation Problems.	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

18. Psychology of Human Behavior at Work Paper - I

Sr. No.	Modules	No. of Lectures
1	What is Organizational Behaviour?	11
2	Attitudes and Job Satisfaction	11
3	Motivation Concepts	12
4	Leadership	11
	Total	45

Sr. No.	Modules / Units	
1	What is Organizational Behaviour?	
	 a) The importance of interpersonal skills b) What managers do - management functions, roles, and skills c) Defining organizational behaviour; Disciplines that contribute to the OB field d) Challenges and Opportunities for OB - Responding to globalization; managing work force diversity; coping with "temporariness"; helping employees balance work–life conflicts; creating a positive work environment; improving ethical behaviour 	
2	Attitudes and Job Satisfaction	
	 a) Attitudes - Main components of attitudes; Major Job Attitudes b) Job Satisfaction - Measuring job satisfaction. What causes job satisfaction? The impact of satisfied and dissatisfied employees on the workplace 	
3	Motivation Concepts	
	 a) Defining Motivation; 4 early theories of motivation b) Contemporary theories of motivation - Goal Setting Theory, Equity Theory/ Organizational justice, Expectancy Theory 	
4	Leadership	
	 a) What is Leadership? Trait theories, Behavioural theories b) Contingency Theory – The Fiedler Model c) Charismatic Leadership and Transformational Leadership - Key characteristics of a charismatic leader; characteristics of transactional leaders; characteristics of transformational leaders d) Leading for the future: Mentoring 	

Reference Books

Reference Books

Elective Courses (EC)

Discipline Specific Elective (DSE) Courses

Group A: Advanced Accountancy

1. Financial Accounting and Auditing VII- Financial Accounting

- Ashish K. Bhattacharyya "Financial Accounting for Business Managers", Prentice Hall of India Pvt. Ltd.
- Shashi K. Gupta "Contemporary Issues in Accounting", Kalyani Publishers.
- R. Narayanaswamy "Financial Accounting", Prentice Hall of India, New Delhi
- Ashok Sehgal "Fundamentals of Financial Accounting", Taxmann's Publishers
- Financial Accounting Reporting Barry Elliot and Jamie Elliot Prentice Hall (14th Edition

2. Financial Accounting and Auditing VIII- Cost Accounting

- Cost Accounting- A managerial emphasis by Horngren, Charles, Foster and Datar, Prentice Hall
- Management Accounting by Khan and Jain, Tata McGraw Hill
- Practical Costing by P C Tulsian, Vikas New Delhi
- Advanced problems and solutions in cost Accounting by S N Maheshwari, Sultan Chand New Delhi
- Cost Accounting (For B. Com 4th Sem, Delhi Univ) by Arora M N, Vikas Publishing House Pvt. Ltd.
- A Textbook of Cost And Management Accounting 10th Edn by Arora M N, Vikas Publishing House Pvt. Ltd.
- Cost Accounting: Principles & Practice 12 Edn by Arora M N, Vikas Publishing House Pvt. Ltd.
- Essentials of Cost Accounting by Arora M N, Vikas Publishing House Pvt. Ltd.
- Students Guide to Cost Accounting & Financial Management (Set of 2 Volumes) (CA-IPCC) (Group I) by Bhavesh N. Chandarana, Taxmann
- Lectures on Costing by Swaminathan: S. Chand and Company (P) Ltd., New Delhi
- Cost Accounting by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- Cost Accounting by Jawahar Lal and Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- Cost Accounting by Ravi M. Kishore, Taxmann Ltd., New Delhi
- Principles and Practices of Cost Accounting by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta
- Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- Cost Accounting Principles and Practice by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi
- Advanced Cost and Management Accounting: Problems and Solutions by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi
- Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana
- Modern Cost and Management Accounting by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi
- Fundamentals of Cost Accounting by Jhamb. H. V., Ane Books Pvt. Ltd.
- Cost Accounting by Gupta Nirmal, Ane Books Pvt. Ltd.

Discipline Specific Elective (DSE) Courses

Group B: Business Management

1. Business Management Paper I

- Essentials of Management by Koontz and Weihrich / McGraw Hill
- Principles of Management by Koontz and O. Donnel/ Tata McGraw Hill, New Delhi
- Principles of Management: Theory and practices by Sarangi S.K. VMP Publishers and Distributors.
- Guide to Management Ideas by Tim Hindle, The Economist
- Principles of Management by Terry G.R. AITBS
- Business Organization and Principles of Management by Dutta Chowdury, Central Education

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- Principles of Management, Daver Rustoms, Crown
- Principles of Management, Tripathi P.C. Tata McGraw Hill, New York
- Management Theory and Practices by Dale, Ernest / McGraw Hill, New York.
- Practice of Management by Peter Drucker / Allied Publisher, New Delhi
- Management by Ricky W Griffin / Houghton Mifflin Company
- Management by Gary Dessler / Prentice Hall
- Management by Stephen Robbins, Mary Coulter / Prentice Hall
- Management by James Stoner, Edward Freeman / Prentice Hall
- Time Management by Roberta Roesch, Tata Mc Graw Hill
- Time Management by Marc MANCINI, Tata Mc Graw Hill

2. Business Management Paper II

- Fundamentals of Financial Management(5th edition) by Chandra Prasanna (2010). Tata McGraw Hill Education Pvt. Ltd.: New Delhi
- Financial Management Analytical and Conceptual Approach (12th edition) by Kuchhal S.C. (1995).Chaitanya Publishing House: Allahabad
- Financial Management by Reddy R.Jayprakash (2010) APH Publishing Corporation: New Delhi
- Financial Management Theory and Practice (5 & 6th edition) by Chandra Prasanna (2003, 2004). Tata McGraw Hill Education Pvt. Ltd.: New Delhi
- Fundamentals of Financial Management (13th edition) by Horne, James C. Van (2012) PHI Learning Pvt. Ltd.: New Delhi
- Financial Management and decision making by Samuels, John (1999) International Thomson Nusiness Press : London
- Financial Management problems & solutions (2nd edition) by Kishore, Ravi M. (2010) Taxmann Publication Pvt. Ltd.: New Delhi
- Financial Management : theory, concepts and cases(5th rev edition) by Rustagi, R.P. (2011) Taxmann Publication Pvt. Ltd.: New Delhi
- Financial Management : principles & problems (7th edition) by Srivastava, R.M.&VermaShubhra (2002) PragatiPrakashan: Meerut
- Fundamentals of Financial Management problems and solutions (3rd edition) by Maheswari, S.N. (2006) Sultan Chand and Sons: New Delhi

Discipline Specific Elective (DSE) Courses

Group C: Banking and Finance

1. Banking and Finance Paper- I Financial Markets

- Khan M.Y, Financial Services, Mc Graw Hill Education.
- Dr.S. Gurusamy, Financial Services, Vijay Nicole Imprints.
- E. Gordon and K. Natarajan Financial Markets and Services
- Niti Chatnani- Commodity markets McGraw Hill Publication
- S. Kevin, Commodities & financial derivatives PHI Learning Pvt ltd

2. Banking and Finance Paper- II Financial Reporting Analysis

- Ashish K. Bhattacharyya "Financial Accounting for Business Managers", Prentice Hall of India Pvt. Ltd.
- Shashi K. Gupta "Contemporary Issues in Accounting", Kalyani Publishers.
- R. Narayanaswamy "Financial Accounting", Prentice Hall of India, New Delhi
- Ashok Sehgal "Fundamentals of Financial Accounting", Taxmann's Publishers
- IFRS Dr Ram Mohan Bhave and Dr Anjali Bhave

Discipline Specific Elective (DSE) Courses

Group D: Commerce

1. Commerce Paper I

- Bhattacharjee, Service Sector Mgt; An Indian Perspective, Jaico Publishing house, 2011.
- Christoper lovelock, service marketing –people technology, strategy, pearson education, IV Edi, 2003.
- Valarie A. Zeithaml 8 Mary Jo Bitner, Services Marketing, Tata Mcgraw-Hill, 2000.
- A. Vijaykumar, service sector in India Recent Policy initiative, New century Publication, 2008.

2. Commerce Paper II

- Office Management, Pillai R S N, S. Chand Publishers, 2010
- Office Organisation & Management, N.Kumar & R. Mttal, Anmol Publisher, 2001
- Office Management, Balachandran, Tata Mc Graw Hill, 2009

Discipline Related Elective(DRE) Courses

3. Commerce V

- Phillip Kotler. (2005) Marketing Management, Englewood cliffs, Prentice Hall, NJ
- Richard M. S Wilson, Colin gilligam, Strategic Marketing Management, Viva BooksPvt. Ltd., 2003.
- Walker Boyd, Larreche, Marketing Strategies Planning Implementations, TataMacgraw Hill. 2004.
- Neelamegam, S. (2007) Marketing in India : Cases and Readings, Vikas, New Delhi
- Kotler, P., Keller, K.L. Koshy, A. &Jha. M. (2009). Marketing Management: A South Asian Perspective. (Thirteenth Ed). Pearson Education, New Delhi.
- Gandhi, J.C. Marketing a Managerial Introduction TataMcGrawHill.
- Maheshwari, R.P., Jindal, Lokesh, (2011). Marketing Management Theory and Practice.
- Sherlekar, S.A. Marketing Management. Himalaya Publishing House.
- Saxena, Rajan. Marketing Management
- Ramaswamy & Kumari Nama. Marketing Management

4. Business Economics V

- Indian Economic Survey Reports (Annual), Ministry of Finance, Government of India
- Indian Economy by Misra and Puri, Himalaya Publishing House Delhi
- Gaurav Dutt & Ashwini Mahajan, (2016) Indian Economy, S.Chand& company PVT LTD New Delhi
- A.N.Agarwal Indian Economy problems of Development and Planning New Age International Publisher
- RuddarDatt K.P.M Sundharam Indian Economy S. Chand E-co LTD. Delhi
- http://www.environmentalpollution.in/industrial-pollution/industrial-pollution-types-effects-and-controlof-industrial-pollution/299 for industrial pollution

Ability Enhancement Courses (AEC)

1. Trade Unionism and Industrial Relations Paper I

- Myers C.A. & Kannappan S. (1970), 'Industrial Relation in India', Asia publishing House, India.
- Singh, J.K. (1988), 'Labour Economics. Principles Problem and Practices', Deep andDeep Publication Pvt. Ltd. New Delhi.
- Jackson, M.P., Strikes
- Karnik V.B. (1974), 'Indian labour, Problems and prospects', Minewal Associations.
- Joshi C.K (1967), 'Unionism in Developing Economy', Asia Publication House, Bombay.
- Mamoria C.B. & Mamoria S. (1992), 'Dynamics of Industrial Relation in India', Himalaya Publishing House.
- Sahani, Dr, N.K. (2009) 'Industrial Relations' Kalyani Pub. Ludhiyana.
- Tripathi, P.C. (2009) 'Personal Management and Ind. Relations' Sultan Chand and Jons, New Delhi.
- Memoria&Memoria- 'Ind. Relations' Himalaya Pub. House, Mumbai.
- A.M. Sharma- 'Ind. Relations' Himalaya Pub. House, Mumbai.
- G.Ramanugan- The Honey bee to words a new culture in Ind, Relations- Sterling Pub. Pvt. Ltd.

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2. Computer Systems and Applications Paper I

- Data Communication and Networking -Behrouz A Forouzan
- Introduction to Computers Peter Norton, Tata McGraw Hill
- Fundamentals of Database Systems Elmasri Navathe, Somayajulu, Gupta
- Database Systems and Concepts Henry F. Korth, Silberschatz, Sudarshan McGraw Hill
- DBMS Date
- The complete reference SQL Vikram Vaswani TMH
- The complete reference SQL James R. Groff & Paul N. Weinberg TMG
- Learning SQL Alan Beaulieu O'REILLY.
- Learning MySQL Seyed M. M. and Hugh Williams, O'REILLY.
- SQL a complete reference Alexis Leon & Mathews Leon TMG

3. Export Marketing Paper I

- Export Policy Procedures& Documentation– M. I. Mahajan, Snow White Publications Pvt. Ltd, 26th Edition,
- International Business, K. Aswathappa, McGraw-Hill Education (India) Pvt. Ltd., 6th Edition
- Export Import Procedures Documentation and Logistics, C. Rama Gopal, New Age International Publishers, 2006 / Reprint Jan 2016
- International Trade and Export Management, Francis Cherunilam, Himalaya Publishing House, 20th Edition, 2017
- R. K. Jain's, Foreign Trade Policy & Handbook of Procedures [With Forms, Circulars & Public Notices], Centax Publication, 2017
- EXIM Policy & Handbook of EXIM Procedure VOL I & II
- International Marketing and Export Management, Gerald Albaum, Edwin Duerr, Alexander Josiassen, Pearson Publications, 8th Edition, June 2016
- International Marketing Strategy, IsobelDoole and Robin Lowe, 5th Edition, Thomson Learning, 2008.
- Global marketing, Warren J. Keegan 9th Edition Pearson Education, Delhi,
- New Import Export Policy Nabhi Publications, 2017
- P.K. Khurana, Export Management, Galgotia Publishing Co, New Delhi
- P.K.Vasudeva, International Marketing-, Excel Books, fourth edition, New Delhi
- Paras Ram, Export documentation and procedure A-Z
- Export: What, Where, How?Paras Ram, & Nikhil K. Garg, Anupam Publishers, 47th Edition, 2016-17
- International Marketing, Mary C. Gilly, John L. Graham, Philip R. Cateora, 14th Edition, Tata McGraw-Hill Co. Ltd., 2014
- International Marketing Management, An Indian Perspective, R.L. Varshney and B. Bhattacharya, Sultan Chand & Sons, 24th Edition, 2012
- International Marketing Analysis and Strategy, SakOnkvisit, John J. Shaw, Prentice-Hall of India Pvt. Ltd., 5th Edition, 2008
- International Marketing, Subhash C. Jain, South-Western, 6th Edition, 2001
- Export Management, T.A.S.Balagopal, Himalaya Publishing House, Mumbai, 2014
- Michael R. Czinkota and likka A. Ronkainen, International Marketing, South-Western, 10th Edition, 2012
- Export-Import and Logistics Management, Charlie Hill, Random Publications, 2014
- International Marketing Management, M.V. Kulkarni, Everest Publishing House

4. Marketing Research Paper I

- Marketing Research Text and Cases, Rajendra Nargundkar, McGraw Hill, 2nd edition
- Marketing Research (Text with Cases), Suja Nair, Himalaya Publishing House, Maharashtra, 2014
- Marketing Research, John Boyce, Tata McGraw Hill Publishing Co. Ltd., Maharashtra, 2011
- Encyclopaedia of Marketing Research Series, S.D. Singh, Anmol Publications Pvt. Ltd., New Delhi, 2012
- Marketing Research: A Global Outlook, V. Kumar, Sage Publications, New Delhi, 2015
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- Fundamentals of Marketing Research, M.K. Gawande, Chandralok Prakashan, Kanpur, 2012
- Marketing Research: The impact of internet, Gates, Roger et al, John Wiley & sons, Great Britain, 2002

5. Investment Analysis and Portfolio Management Paper I

- Security Analysis and Portfolio Management, Prasanna Chandra, Tata McGraw Hill
- Financial Management, Prasanna handra, Tata McGraw Hill
- Security Analysis and Portfolio Management, Ravi Kishor, Taxman Publishers
- Financial Management, Khan & Jain, Tata McGraw Hill
- Fundamentals of Investment Management, Hirt and Block, Tata McGraw Hill. Ed 2009.
- Portfolio Management Handbook, Robert A. Strong, Jaico Publishing House, Mumbai

6. Transport Management Paper I

- Phil Hughes & Ed Ferrett (2010). International Health and Safety at Work. Routledge Publisher.
- Mather J. C. (ed.) (1992). 'Transport and Economic Development', Chugh Publications, Allahabad.
- Modak S.K. (1980). 'Adgunik Parivahanache Arthashastra', Maharashtra Vidhyapeeth Grantha Nirmitee Mandal, Nagpur.
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- Multimodal Transportation of Goods Act, 1993 Along With Allied Rules, Professional Book Publishers.
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7. Entrepreneurship & Management of Small Scale Industries Paper I

- Batra G.S. and Dangal R.C., Entrepreneurship and Small Scale Industries, Deep and Deep Publications Pvt. Ltd.
- Entrepreneurial Development, Colombo Plan, 1998, Tata McGraw Hill, New Delhi.
- Entrepreneurship Development, Himalaya Publishing House, Mumbai.
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B.Com. Programme

Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year- 2018-2019)

Semester VI

No. of Courses	Semester VI	Credits
1	Elective Courses (EC)	
1A	Discipline Specific Elective(DSE) Courses	
1 & 2	*Any one group of courses from the following list of the Groups (A/B/C/D/E/F)	04+04
1B	Discipline Related Elective(DRE) Courses	
3	Commerce VI	03
4	Business Economics VI	03
2	Ability Enhancement Courses (AEC)	
5 &	**Any two courses from the following list of the courses	03+03
6		
	Total Credits	20

*List of groups of Discipline Specific Elective(DSE) Courses			
for Semester VI (Any One Group)			
	Group A: Advanced Accountancy		
1	Financial Accounting and Auditing IX - Financial Accounting		
2	Financial Accounting and Auditing X - Cost Accounting		
	Group B: Business Management		
1	Business Management Paper - III		
2	Business Management Paper - IV		
Group C: Banking and Finance			
1	Banking and Finance Paper - III		
2	Banking and Finance Paper - IV		
	Group D: Commerce		
1	Commerce Paper - III		
2	Commerce Paper - IV		
	Group E: Quantitative Techniques		
1	Quantitative Techniques Paper - III		
2	Quantitative Techniques Paper - IV		
Group F: Economics			
1	Economics Paper - III		
2	Economics Paper - IV		

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	**List of Ability Enhancement Courses (AEC) for Semester VI (Any Two)		
1	Trade Unionism and Industrial Relations Paper - II		
2	Computer systems & Applications Paper - II		
3	Export Marketing Paper - II		
4	Marketing Research Paper - II		
5	Investment Analysis Portfolio Paper - II		
6	Transport Management Paper - II		
7	Entrepreneurship& M.S.S.I. Paper - II		
8	International Marketing Paper - II		
9	Merchant Banking Paper - II		
10	Direct & Indirect Taxation Paper - II		
11	Labour Welfare & Practice Paper - II		
12	Purchasing & Store keeping Paper - II		
13	Insurance Paper - II		
14	Banking Law & Practice Paper - II		
15	Regional Planning Paper - II		
16	Rural Marketing Paper - II		
17	Elements of Operational Research Paper - II		
18	Psychology of Human Behaviour at work Paper - II		

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group A: Advanced Accountancy

1. Financial Accounting and Auditing Paper-IX: Financial Accounting

Sr. No.	Modules	No. of Lectures
1	AS – 14 - Amalgamation, Absorption & External Reconstruction	15
2	Accounting of Transactions of Foreign Currency	15
3	Liquidation of Companies	10
4	Underwriting of Shares & Debentures	10
5	Accounting for Limited Liability Partnership	10
	Total	60

Sr. No.	Modules / Units	
1	AS – 14 - Amalgamation, Absorption & External Reconstruction (excluding inter- company holdings)	
	In the nature of merger and purchase with corresponding accounting treatments of pooling of interests and purchase method respectively. Meaning and Computation of purchase consideration. Problems based on purchase method only.	
2	Accounting of Transactions of Foreign Currency	
	In relation to purchase and sale of goods, services and assets and loan and credit transactions. Computation and treatment of exchange rate differences	
3	Liquidation of Companies	
	Introduction, Underwriting, Underwriting Commission Provision of Companies Act with respect to Payment of underwriting commission Underwriters, Sub-Underwriters, Brokers and Manager to issues Types of underwriting, Abatement Clause Marked, Unmarked and Firm-underwriting applications, Liability of the underwriters in respect of underwriting contract Practical problems	
4	Underwriting of Shares & Debentures	
	Meaning of liquidation or winding up Preferential payments Overriding preferential payments Preparation of statement of affairs, deficit / surplus account Liquidator's final statement of account	
5	Accounting for Limited Liability Partnership	
	Statutory Provisions Conversion of partnership firm into LLP Final Accounts	

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group A: Advanced Accountancy

2. Financial Accounting and Auditing Paper-X: Cost Accounting

Sr. No.	Modules	No. of Lectures
1	Cost Control Accounts	10
2	Contract Costing	10
3	Process Costing	10
4	Introduction to Marginal Costing	10
5	Introduction to Standard Costing	10
6	Some Emerging concepts of Cost accounting	10
	Total	60

Sr. No.	Modules / Units
1	Cost Control Accounts
	Advantages and Disadvantages Cost Control Accounts, Principal Accounts, Subsidiary Accounts to be maintained Note- Simple practical problems on preparation of cost control accounts
2	Contract Costing
	Progress payments, Retention money, Contract accounts, Accounting for material, Accounting for Tax deducted at source by the contractee, Accounting for plant used in a contract, treatment of profit on incomplete contracts, Contract profit and Balance sheet entries. Excluding Escalation clause Note- Simple practical problems
3	Process Costing
	Process loss, Abnormal Gains and Losses, Joint products and by-products. Excluding Equivalent units, Inter-process profit Note- Simple Practical problems Process Costing and joint and by-products
4	Introduction to Marginal Costing
	Marginal costing meaning, applications, advantages, limitations Contribution, Breakeven analysis, Margin of safety and profit volume graph. <i>Note</i> -Simple Practical problems based on Marginal Costing excluding decision making
5	Introduction to Standard Costing
	Various types of standards, Setting of standards, Basic concepts of Material and Labour variance analysis. Note -Simple Practical problems based on Material and labour variances excluding sub-variances
6	Some Emerging concepts of Cost accounting
	Target Costing Life cycle Costing Benchmarking ABC Costing Note - No practical problems

> Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group B: Business Management

1. Business Management Paper-IV Management and Organization Development

Sr. No.	Modules	No. of Lectures
01	Directing & Leading	15
02	Co-ordination & Motivation	15
03	Controlling & Information Management	15
04	Contemporary Issues in Management	15
	Total	60

Sr. No.	Modules / Units
1	Directing and Leading
	 Communication as an important tool for effective direction and leadership Barriers to Communication Ethical issues in using social media for communication Role of a leader in business organisations - qualities of a good leader Style of leadership Leadership continuum – developing an effective leader – path goal theory Transactional and transformational leaders
2	Co-ordination and Motivation
	 Co-ordination as essence of management Co-ordination vs co-operation vs conciliation Motivation – meaning and importance of motivation Financial and non-financial motivators Theories of Motivation – Maslow's theory – Herzberg's theory – McGregor's theory.
3	Controlling and information Management
	 Definition and steps in controlling. Strategic and operational controlling techniques. Requirements of an effective control system. Flow of information n a typical organisation - Need for managing information. Designing and developing modern MIS - Introduction to ERP.
4	Contemporary Issues in Management
	 Challenges in organisational growth and development - management perspective Change management Importance of time management and tools for effective time management Addressing diversity due to human resource mobility Conflict management.

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group B: Business Management

2. Business Management Paper-VI Financial Management

Sr. No.	Modules	No. of Lectures
01	Capital Budgeting and Evaluation techniques	11
02	Working Capital Management	11
03	Receivable Management, Cash Management and Marketable Securities	12
04	Basic Principles of Cost Accounting	11
	Total	45

Sr. No.	Modules / Units	
1	Capital Budgeting and Evaluation techniques	
	Capital Budgeting - Meaning and Importance	
	Evaluation techniques	
	Pay-back method and ARR	
	NPV and Profitability index	
	Choice of evaluation techniques, uses and limitations	
2	Working Capital Management	
	Working Capital – Meaning and Importance	
	Factors determining Working Capital requirements, Working Capital cycle	
	Classification of Working Capital – Gross and Net Working Capital, Permanent	
	and Variable Working Capital, Positive and Negative Working Capital, Cash and	
	Net Current Assets concept of Working Capital	
	Management of Working Capital	
	Estimation of Working Capital requirement	
3	Receivable Management, Cash Management and Marketable Securities	
	Management	
	 Receivables Management – Meaning and Importance, aspects of receivable management, Credit Policy and Credit Evaluation 	
	• Control of accounts receivables – Day's Sales Outstanding, Ageing Schedule,	
	ABC Analysis	
	• Cash Management – Meaning, motives of holding cash, ways of speeding up	
	cash collections	
	Preparation of Cash Budget	
	Understanding the role of marketable securities in corporate financial	
	management	
4	Basic Principles of Cost Accounting	
	Cost Accounting – Meaning, classification of costs and non-cost items	
	Preparation of Cost sheet	
	• Marginal Costing - Meaning, features, advantages and limitations of marginal	
	costing,	
	Break Even Analysis	
	Application of marginal costing	

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group C: Banking and Finance

1. Banking and Finance Paper-III: Risk Management

Sr. No.	Modules	No. of Lectures
01	Foundations of Risk Management	15
02	Capital markets Risk Management	15
03	Credit Market Risk Management	15
04	Risk Measurement	15
	Total	60

Sr. No.	Modules / Units
1	Foundations of Risk Management
	 Basic risk types The role of risk management Enterprise Risk Management (ERM) History of financial disasters and risk management failures 2007 financial crisis
2	Capital Market Risk Management
	 Equity, currencies & commodities markets in India Introduction to Derivatives Forward, Future and option contracts Hedging through Derivatives contract Fixed-income securities Fixed-income risk management through derivatives Rating agencies
3	Credit Market Risk Management
	 Introduction, Information required for evaluation of credit risk, Procedure for Credit Risk Management, Credit Lifecycle, Loan Review Mechanism, RBI guidelines on Credit Rating Framework in Banks, Introduction of Basel Norms and calculation of capital adequacy ratio
4	Risk Measurement
	 Estimation of volatilities and correlations (application to volatility term structures) Monte Carlo simulations (application to interest rate forecasting) Linear Value-at-Risk (application to market, credit and operational risk) Option valuation Risk-adjusted return on capital (RAROC) & beta calculation Risk management of derivatives (application to convertible risk) Interest rates and measures of interest rate sensitivity

> Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group C: Banking and Finance

2. Banking and Finance Paper-IV: Actuarial Analysis in Banking and Insurance

Sr. No.	Modules	No. of Lectures
01	Probability & Mathematical Statistics	12
02	Models	12
03	Mortality Model	12
04	Contingencies	12
05	Statistical Methods	12
	Total	60

Sr. No.	Modules / Units
1	Probability & Mathematical Statistics
	Concepts of Probability, Bayes' Theorem, Concepts of Random Variable, Probability Distribution, Distribution Function, Expected Value, Variance and Higher Moments, Basic Discrete And Continuous Distributions, Central Limit Theorem, Statistical Inference And Sampling Distribution, Confidence Intervals For Unknown Parameters. Test Hypotheses, Concepts Of Analysis Of Variance
2	Models
	The Principles of Actuarial Modelling., General Principles of Stochastic Processes, Markov Chain, Markov Process., Concept of Survival Models., Estimation Procedures for Lifetime Distributions., Maximum Likelihood Estimators For The Transition Intensities In Models Of Transfers Between States With Piecewise Constant Transition Intensities.
3	Mortality Model
	Binomial Model of Mortality, Derive A Maximum Likelihood Estimator for The Probability of Death, How to Estimate Transition Intensities Depending on Age, Exactly Or Using The Census Approximation., How To Test Crude Estimates For Consistency With A Standard Table Or A Set Of Graduated Estimates, And Describe The Process Of Graduation.
4	Contingencies
5	Simple assurance and annuity contracts, means and variances of the present values of the payments under these contracts, assuming constant deterministic interest. Expressions in the form of sums for the mean and variance of the present value of benefit payments under each contract above, in terms of the curtate random future lifetime, assuming that death benefits are payable at the end of the year of death and that annuities are paid annually in advance or in arrear, and, where appropriate, Obtain expressions in the form of integrals for the mean and variance of the present value of benefit payments under each contract above, in terms of the random future lifetime, assuming that death benefits are payments under each contract above, in terms of the present value of benefit payments under each contract above, in terms of the random future lifetime, assuming that death benefits are payable at the moment of death and that annuities are paid continuously, and, where appropriate.
5	Statistical Methods
	criteria to determine which decision functions are best with respect to a specified criterion. In particular consider the minimax criterion and the Bayes criterion. Calculate probabilities and moments of loss distributions both with and without limits and risk-sharing arrangements. The properties of the statistical distributions which are suitable for modelling individual and aggregate losses. Apply the principles of statistical inference to select suitable loss distributions for sets of claims. Concepts of excesses (deductibles), and retention limits. The operation of simple forms of proportional and excess of loss reinsurance.

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group D: Commerce

1. Commerce III: Management of Service Industry

Sr. No.	Modules	No. of Lectures
01	Housing and Construction Industry	15
02	Computer Services and e- commerce	15
03	Banking	15
04	Insurance	15
	Total	60

Sr. No.	Modules / Units	
1	Housing and Construction Industry	
	Characteristics- scope- challenges-promotion activities of construction industry- role of co-operative societies and Government schemes- career opportunities	
2	Computer Services and e- commerce	
	e-commerce- concept-functions- merits & limitations IT enabled services (ITES): features- Business Process Outsourcing: concept- advantages & challenges- Consultancy services: classification & significance	
3	Banking	
	Types of Banks- functions of a commercial bank-types of banking products-role of RBI- recent trends in Banking- Career opportunities in Banking	
4	Insurance	
	Concept- importance- types (Life, Fire, Marine & General)- Regulation of Insurance sector: role of Insurance Regulatory and Development Authority of India – Foreign Direct Investment in insurance sector- career opportunities in insurance sector	

Elective Courses (EC) 1 A. Discipline Specific Elective (DSE) Courses Group D: Commerce

2. Commerce IV: Commercial Administration

Sr. No.	Modules	No. of Lectures
01	Human Resource Management for office	15
02	Office Services -I	15
03	Office Services -II	15
04	Office Services -III	15
	Total	60

Sr. No.	Modules / Units	
1	Human Resource Management for office	
	Human Resource Management: Meaning, nature and importance of human resource management- scope of HR functions in an office- duties and responsibilities of HR officer- records and information to be maintained with respect to the human resource- important HR legislations in India.	
2	Office Services -I	
	Reception & hospitality : Role and function of the reception desk- duties and responsibilities of a receptionist, importance of reception. Meetings & Travel Arrangement : meaning and procedure for business meetings- types of meetings- information and services related to travel- procedure for	
	making travel arrangements	
3	Office Services -II	
	Accounts & financial services: Role and functions of an accounts department/ officer- documents to be prepared by the accounts officer- types of hardware and software used – procedure for making and receiving payments- bank and cash related documents and procedures, digital payments.	
	Sales, marketing and customer care: functions of sales & marketing officer- functions of customer service officer, importance of customer care	
4	Office Services -III	
	Procurement & dispatch: role and functions of procurement officer- procedure for procurement of materials and services- functions of a dispatch clerk-documents to be maintained with respect to procurement and dispatch	
	Inventory management: meaning and nature of inventory management, functions of inventory management - stock records to be maintained manual and electronic	

Elective Courses (EC) 1 B. Discipline Related Elective (DRE) Courses 3. Commerce-VI Human Resource Management

Sr. No.	Modules	No. of Lectures
01	Human Resource Management	12
02	Human Resource Development	11
03	Human Relations	11
04	Trends In Human Resource Management	11
	Total	45

Sr. No.	Modules / Units	
1	Human Resource Management	
	 Human Resource Management – Concept, Functions, Importance, Traditional v/s Strategic Human Resource Management Human Resource Planning- Concept Steps in Human Resource Planning Job Analysis-Concept, Components, Job design- Concept, Techniques Recruitment- Concept, Sources of Recruitment Selection - Concept, process, Techniques of E,selection, 	
2	Human Resource Development	
	 Human Resource Development- Concept, functions Training- Concept, Process of identifying training and development needs, Methods of Training & Development (Apprenticeship, understudy, job rotation, vestibule training, case study, role playing, sensitivity training, In, basket, management games) Evaluating training effectiveness- Concept, Methods Performance Appraisal- Concept, Benefits, Limitations, Methods Potential Appraisal-Concept, Importance Career Planning- Concept, Importance Succession Planning- Concept, Need Mentoring- Concept, Importance Counseling- Concept, Techniques. 	
3	Human Relations	
	 Human Relations- Concept, Significance Leadership –Concept, Transactional & Transformational Leadership Motivation- Concept, Theories of Motivation, (Maslow's Need Hierarchy Theory, Vroom's Expectancy Theory, McGregor's Theory X and Theory Y, Pink's Theory of Motivation) Employees Morale- Concept, Factors affecting Morale, Measurement of Employees Morale Emotional Quotient and Spiritual Quotient- Concept, Factors affecting EQ & SQ Employee Grievance- Causes, Procedure for Grievance redressal Employee welfare measures and Healthy & Safety Measures. 	
4	Trends In Human Resource Management	
	 HR in changing environment: Competencies- concept, classification Learning organizations- Concept, Creating an innovative organization, Innovation culture- Concept, Need, Managerial role. Trends in Human Resource Management,: Employee Engagement- Concept, Types Human resource Information System (HRIS) – Concept, Importance, Changing patterns of employment. Challenges in Human Resource Management: Employee Empowerment, Workforce Diversity. Attrition, Downsizing, Employee Absenteeism, Work life Balance, Sexual Harassment at work place, Domestic and International HR Practices, Millennial (Gen Y)Competency Mapping 	
Elective Courses (EC) 1 B. Discipline Related Elective (DRE) Courses 4. Business Economics-VI International Economics

Sr. No.	Modules	No. of Lectures
01	Introduction to International Trade	10
02	Commercial Policy	10
03	Balance of payments and International Economic Organization	15
04	Foreign Exchange market	10
	Total	45

Sr. No.	Modules / Units		
1	Introduction to International Trade		
	Theories of International Trade - Ricardo's Theory of Comparative Costs and		
	the Heckscher- Ohlin Theory.		
	 Terms of Trade - Types and Limitations. 		
	 Gains from International trade - Offer Curves and Reciprocal Demand. 		
2	Commercial Policy		
	 Commercial Trade Policy – Free Trade and Protection – Pros and Cons. 		
	 Tariff And Non Tariff Barriers: Meaning, Types and Effects 		
	 International Economic Integration – Types and Objectives:-EU and Brexit, 		
	ASAEN		
3	Balance of payments and International Economic Organization		
	Balance of Payment: Meaning, Structure, Types of Disequilibrium.		
	 Causes and measures to correct the disequilibrium in Balance of Payments 		
	 WTO- Recent Developments in TRIPS, TRIMS and GATS. 		
4	Foreign Exchange market		
	Foreign Exchange Market: Meaning, Functions, Determination of Equilibrium		
	Rate of Exchange.		
	• Purchasing Power Parity Theory, Spot and Forward Exchange Rates, Arbitrage.		
	Role of Central Bank in foreign exchange rate management, Managed flexible		
	exchange rate system of India.		

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

1. Trade Unionism and Industrial Relations Paper - II

Sr. No.	Modules	No. of Lectures
1	Industrial relations	12
2	Industrial conflicts and its Measures for Prevention and Settlement	12
3	Collective bargaining and Workers Participation in Management	11
4	Industrial relations in Public Sector Multi-nationals, and Co- operative Sector	10
	Total	45

Sr. No.	Modules / Units	
1	Industrial relations	
	Industrial relations: Meaning, Importance, Scope, Role and Impact on Labour	
	Laws legislation, Execution, Employer, Trade Unions and Judiciary	
	 Recommendations of Second National Commission on labour 2002. 	
2	Industrial conflicts and its Measures for Prevention and Settlement	
	Industrial conflicts: Meaning causes and impact. Strike: Meaning, Types & Legal	
	aspects. Concept of lockout.	
	 Measures for prevention and settlement of industrial conflicts- 	
	(a) Conciliation (b) Mediation (c) Arbitration (d) Adjudication.	
3	Collective bargaining and Workers Participation in Management	
	 Collective bargaining: concept, principles and importance. Collective 	
	bargaining in India.	
	• Workers participation in management- Meaning, Types with reference to India.	
4	Industrial relations in Public Sector Multi-nationals, and Co-operative Sector	
	• Industrial relations in public sector, multi-nationals, and co-operative Sector.	
	 Plant level Industrial relations:- standing orders and grievance procedure. 	
	 Work and role of labour welfare officer. 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

2. Computer Systems and Applications Paper - II

Sr. No.	Modules	No. of Lectures
1	E – Commerce	18
2	Advanced Spread Sheet	09
3	Advanced Spread Sheet	09
4	Visual Basic	09
	Total	45

Sr. No.	Modules / Units		
1	E – Commerce		
	 a) Definition of E-commerce b) Features of E-commerce c) Types of E-commerce (B2C, B2B, C2C, P2P) d) Business Models in E-commerce (Advertising, Subscription, Transaction Fee, Sales Revenue, Affiliate Revenue) e) Major B2C models (Portal, Etailer, Content Provider, Transaction Broker, Market Creator, Service Provider, Community Provider). f) E-Commerce Security: Integrity, Non repudiation, Authenticity, Confidentiality, Privacy Availability. g) Encryption: Definition, Digital Signatures, SSL. h) Payment Systems: Digital Cash, Online stored value, Digital accumulating balance payment, Digital credit accounts, digital checking. i) How an Online credit card transaction works. SET protocol. j) Limitation of E-commerce. k) M-commerce (Definition and Features). 		
2	Advanced Spread Sheet		
	 a) Multiple Spread sheets Creating and using templates, Using predefined templates, Adding protection option. Creating and Linking Multiple Spreadsheets. Using formulas and logical operators. Creating and using named ranges. Creating Formulas that use reference to cells in different worksheets. b) Functions Database Functions LOOKUP, VLOOKUP, HLOOKUP Conditional Logic functions IF, Nested IF, COUNTIF, SUMIF, AVERAGEIF String functions LEFT, RIGHT, MID, LEN, UPPER, LOWER, PROPER, TRIM, FIXED 		
3	Advanced Spread Sheet		
	 a) Functions Date functions TODAY, NOW, DATE, TIME, DAY, MONTH, YEAR, WEEKDAY, DAYS360 Statistical Functions COUNTA, COUNTBLANK, CORREL, LARGE, SMALL b) Data Analysis Filter with customized condition. The Graphical representation of data Column, Line, Pie and Bar charts. Using Scenarios, creating and managing a scenario. Using Goal Seek Using Solver Understanding Macros, Creating, Recording and Running Simple Macros. 		

Sr. No.	Modules / Units	
4	Visual Basic	
	 a) Introduction to Visual Basic, Introduction Graphical User Interface (GUI). Programming Language (Procedural, Object Oriented, Event Driven), Writing VB Projects. The Visual Basic Environment b) Introduction to VB Controls Text boxes, Frames, Check boxes, Option button, Designing the User Interface, Default & Cancel property, tab order, Coding for controls using Text, Caption, Value property and Set Focus method 	
	 c) Variables, Constants, and Calculations Variable and Constant, Data Type (String, Integer, Currency, Single, Double, Date), Naming rules/conventions, Constants (Named & Intrinsic), Declaring variables, Val Function, Arithmetic Operations, Formatting Data. 	
	 d) Decision and Condition Condition, Comparing numeric variables and constants, Comparing Strir Comparing Text Property of text box, Compound Conditions (And, Or, Not Statement, if then-else Statement, LCase and Ucase function, Using statements with Option Buttons & Check Boxes. Msgbox (Message b statement Input Validation : Is Numeric function. e) Sub-procedures and Sub-functions, Using common dialog box, Creating a r sub-procedure, Writing a Function procedure. Simple loops using For N 	
	Statements and Do while statement and display output using MisgBox Statement.	

Note :

- a) Theory 03 lectures per week.
- b) Practical batch size 20-25, 01 practical = 03 theory lectures per week.
- c) 10 Practical's are to be completed in each semester.

Semester VI

Торіс	Number of Practical's
Presentation skills	01
Advanced Spread Sheet	06
Introduction to Visual Basic	03

Minimum 6 practical's are to be recorded in the journal in the Semester VI [Minimum 4 on VB, 2 on Advanced Spread Sheet]

Suggested list of Practical's for Semester VI

- 1. Preparing a PowerPoint presentation on an E-Commerce website.
- 2. Calculation of DA, HRA, PF, Gross Salary and Net Salary using Spread Sheet
- 3. Calculation of Income Tax using Spread Sheet
- 4. Filtering data and Graphical representation of data using Spread Sheet
- 5. Using VLOOKUP and HLOOKUP using Spread Sheet
- 6. Creating and managing a scenario using Spread Sheet
- 7. Use of Goal Seek and Solver using Spread Sheet

- 8. Write a project in VB to design a suitable form to add two numbers and display their sum.
- 9. Write a project in VB to design a suitable form to enter sales and calculate and display the bonus which is 10% of sales.
- 10. Write a project in VB to design a suitable form to enter salary and calculate and display the DA which is 90% of salary.

Scheme of Examination

Туре	Marks	Duration
Theory	75	2½ hours
Practical	20	1 hour per batch of 10
Active Participation and Class conduct	05	

• Theory Examination Pattern

All questions are compulsory

Question	Unit No.	Marks	Marks with Internal
No.			Option
Q. 1.	Objective type based on I, (II,III) and IV	11+2+2	23
Q. 2.	1	15	30
Q. 3.	Ш	15	30
Q. 4.	Ш	15	30
Q. 5.	IV	15	30

• Practical Examination Pattern- Semester VI

Sr. No.	Торіс	Marks
01	Advanced Spread sheet	07
02	Introduction to VB Programing	03
03	Journal	05
04	Viva	05

- Practical examination to be conducted 2 to 3 weeks before the theory examination. Marks out of 25 to be submitted to the University before commencement of theory examination.
- Software Requirement : Spread Sheet 2010, VB 6.0
- Hardware

For a batch of 120 students minimum 10 computers with appropriate hardware and software installed on each computer. During practical hours maximum two student may share one computer.

For in house computing facility fee of rupees 750/- be charged for each student per Semester in the existing fee structure against head of computer fee/computer practical.

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

Export Marketing Paper - II

Modules at a Glance

3.

Sr. No.	Modules	No. of Lectures
1	Product Planning and Pricing Decisions for Export Marketing	12
2	Export Distribution and Promotion	11
3	Export Finance	11
4	Export Procedure and Documentation	11
	Total	45

Sr. No.	Modules / Units	
1	Product Planning and Pricing Decisions for Export Marketing	
	 a) Planning for Export Marketing with regards to Product, Branding, Packaging b) Need for Labelling and Marking in Exports, Factors determining Export Price; Objectives of Export Pricing c) International Commercial (INCO) Terms; Export Pricing Quotations – Free on Board (FOB), Cost Insurance and Freight (CIF) and Cost and Freight (C&F); Problems on FOB quotation 	
2	Export Distribution and Promotion	
	 a) Factors influencing Distribution Channels; Direct and Indirect Exporting Channels; Distinction between Direct and Indirect Exporting Channels b) Components of Logistics in Export marketing; Selection criteria of Modes of Transport; Need for Insurance in Export Marketing c) Sales Promotion Techniques used in Export Marketing; Importance of Trade Fairs and Exhibitions; Benefits of Personal Selling; Essentials of Advertising in Export Marketing; 	
3	Export Finance	
	 a) Methods of Payment In export marketing; Procedure to open Letter of Credit, Types and Benefits of Countertrade b) Features of Pre-Shipment and Post-shipment finance; Procedure to obtain Export Finance; Distinction between Pre-shipment Finance and Post Shipment Finance. c) Role of Commercial Banks, EXIM Bank, SIDBI in financing exporters; Role of ECGC 	
4	Export Procedure and Documentation	
	 a. Registration with different authorities; Pre-shipment Procedure involved in Exports; Procedure of Quality Control and Pre-shipment Inspection; b. Shipping and Custom Stage Formalities; Role of Clearing & Forwarding Agent; Post-shipment Procedure for Realisation of Export Proceeds; Procedure of Export under Bond and Letter of Undertaking. (LUT) c. Importance of - Commercial Invoice cum Packing list, Bill of Lading/ Airway Bill, Shipping Bill/Bill of Export, Consular Invoice, Certificate of Origin 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

4. Marketing Research Paper - II

Sr. No.	Modules	No. of Lectures
1	Applications of Marketing Research-I	12
2	Applications of Marketing Research-II	11
3	Applications of Marketing Research-III	11
4	Managing Marketing Research	11
	Total	45

Sr. No.	Modules / Units	
1	Applications of Marketing Research-I	
	 a. Product Research- concept, areas, steps in new product development Product Testing & Test Marketing- concept, methods b. Brand Research- concept, components of a Brand, importance of brand research Packaging Research- concept, importance c. Price Research- concept, factors influencing pricing, importance of price research, methods of price research 	
2	Applications of Marketing Research-II	
	 a. Physical Distribution research- concept, types of distribution channels, Supply Chain Management- concept, components of supply chain management, importance of physical distribution research b. Promotion Research- concept, elements of promotion, importance of promotion research Advertising Research- concept, scope, pre & post testing methods of advertising effectiveness c. Consumer Research- concept, objectives, methods Motivation Research- concept, importance 	
3	Applications of Marketing Research-III	
	 a. Sales Research- concept, significance, scope/areas b. Rural Marketing Research-concept, features of Indian rural market, sources of data, research tools, do's and don'ts in rural Marketing Research c. Global Marketing Research- concept, factors affecting Global Marketing , need and scope of Global Marketing Research 	
4	Managing Marketing Research	
	 a. Organizing Marketing Research activity- factors involved in organizing Marketing Research activity, methods of organizing Marketing Research activity, In house marketing department,structure, merits, demerits b. Professional Marketing Research agencies- structure, merits, demerits, professional standards c. Prominent Marketing Research agencies- HTA, ORG, IMRB, NCAER, Nielson 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

5. Investment Analysis and Portfolio Management Paper - II

Sr. No.	Modules	No. of Lectures
1	Fundamental Analysis	12
2	Technical Analysis	11
3	Efficient Market Theory	11
4	Capital Asset Pricing Model	11
	Total	45

Sr. No.	Modules / Units	
1	Fundamental Analysis	
	 A) Economy Analysis – Meaning, Framework, Economic Analysis, Forecasting, Barometric or Indicator Approach, Econometric Model Building and Opportunistic Model Building. B) Industry Analysis – Concept of Analysis, Industry Life Cycle, Industry Characteristics Company Analysis – Financial Statements, Analysis of Financial Statements, (Practical questions on Debt equity ratios, total debt ratio, proprietary ratios, interest coverage ratio, Profitability ratios related to sales, investment and equity shares Efficiency or Activity Ratios) and Assessment of risk (
2	Technical Analysis	
	 A) Dow Theory B) Meaning and Principles of Technical Analysis, Price Chart, Line Chart, Bar Chart, Japanese Candlestick Chart, Trends and Trend Reversals, Chart Patterns, Support and Resistance, Reversal Patterns, Continuation Patterns and Elliot Wave Theory C) Mathematical Indicators – Calculation of Moving Averages (Simple and Exponential Moving Average), Oscillators and Relative Strength Index D) Market Indicators F) Eundamental Analysis V/s Technical Analysis 	
3	Efficient Market Theory	
	 A) Random Walk Theory B) The Efficient Market Hypothesis C) Forms of Market Efficiency D) Competitive Market Hypothesis 	
4	Capital Asset Pricing Model	
	 A) CAPM – Fundamental Notions of Portfolio Theory, Assumption of CAPM Efficient Frontier with Riskless Lending and Borrowing, Capital Market Line Security Market Line and Pricing of Securities with CAPM. B) Arbitrage Pricing Theory (APT) – The Return Generating Model, Factors Affecting Stock Return, Expected Return on Stock, APT V/s CAPM. 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

6. Transport Management Paper - II

Sr. No.	Modules	No. of Lectures
1	Indian Surface Transport Service	11
2	Marketing of Transport Services	11
3	Transport Organisation	11
4	Safety Management Systems	12
	Total	45

Sr. No.	Modules / Units	
1	Indian Surface Transport Service	
	Development of Railway network and problem-changes in composition of passenger and freight traffic, Development of Road transport- Growth of Automobile Industry, Indian Motor Vehicle Acts, Urban transport problems with special defence to Mumbai	
2	Marketing of Transport Services	
	Marketing of transport services: Role of Advertising – Changes in fares and freight rates and their impact on demand, Regulation of transport services: Licensing policies, transport taxation, role of International bodies in transport development	
3	Transport Organisation	
	 Water transport: Present status of Inland and Coastal Shipping in India, Growth of Merchant Shipping, International competition and problems of port. Air transport: Working of Indian Airlines and Air India - International Airport Authority of India – Air Cargo. 	
4	Safety Management Systems	
	Overview and Understanding Safety, factors for improving safety on roads – causes of accidents due to drivers and pedestrians-design, selection, operation and maintenance of motor trucks, Responsibility for Management of Safety, Basics of Safety Management, Safety Training Programme	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

7. Entrepreneurship and Management of Small Scale Industries Paper - II

Sr. No.	Modules	No. of Lectures
1	Introduction to Micro, Small and Medium Enterprises	11
2	Setting-up of SSI/SME/MSME	11
3	Organization of SSI/SME/MSME	11
4	Specialized Focus Areas in Micro, Small and Medium Enterprises	12
	Total	45

Sr. No.	Modules / Units	
1	Introduction to Micro, Small and Medium Enterprises	
	 Unit-1: - Meaning, Features, Concept of SSI Role and Importance of SSI Evolution and Growth of SSI since Independence in India w.r.t. 5-Year Plans India SSI Support Mechanism in India - Central and State Level, Government ar Non-Government Agencies support to SSI with due emphasis to Concession and Incentives Unit-2:- Meaning, Features, Concept of Micro, Small and Medium Enterprises Need and Significance of MSMEs Evolution and Growth of MSMEs since Economic Liberalization in India Role and Importance of MSMEs Unit-3:- 	
l	Causes of Industrial Sickness Consequences of Industrial Sickness	
	 Remedies to Resolve the Problem of Industrial Sickness 	
2	Setting-up of SSI/SME/MSME	
	 Unit-1:- Steps in Setting-up a SSI/SME/MSME Registration Procedure – Benefits of Registration – De-registration Environmental and Locational Issues – Environmental Clearance Steps in Setting up a SSI/SME/MSME in India with Special Reference to Clearances and Permissions required Unit-2:- 	
	 Meaning, Features, Concept of Regulatory Environment in India Brief insights relating to Laws affecting SSI/SME/MSME MSME Policy in India - Highlights of MSMED Act, 2006 Classification of Manufacturing and Service Industries under MSMED Act, 2006 	
	 Growth and Expansion of SSI/SME/MSME Options available to SSI/SME/MSME for Growth and Expansion (Part-I): Ancillarisation, Licensing, Franchising Options available to SSI/SME/MSME for Growth and Expansion (Part-II): Outsourcing, Insourcing Options available to SSI/SME/MSME for Growth and Expansion (Part-III): Mergers, Acquisitions, Takeovers in India and at Global Level 	

3	Organization of SSI/SME/MSME Unit-1:-	
	Unit-1:-	
	 Unit-1:- Meaning, Features, Concept of Organisation Structure of SSI/SME/MSME Overview of Principles of Management applicable in Management of SSI/SME/MSME - Types of Organisation of SSI/SME/MSME Problems and Prospects of SSI/SME/MSME Legal Framework and Regulations Governing SSI/SME/MSME - Government Measures, Policy Support, Taxation Benefits for SSI/SME/MSME Unit-2:- Meaning, Features, Concept of SSI/SME/MSME Funding Requirements of Capital (Fixed and Working) for SSI/SME/MSME Factors Determining Capital (Fixed and Working) Requirements of 	
	 SSI/SME/MSME Sources of Institutional Finance to SSI/SME/MSME Unit-3:- Meaning, Features, Concept of Marketing Mechanism in SSI/SME/MSME Marketing related Problems of SSI/SME/MSME - Measures to Reduce Marketing related Problems of SSI/SME/MSME Export Potential of SSI/SME/MSME - Export Incentives available to SSI/SME/MSME - SSI/SME/MSME and Special Economic Zones (SEZs) Role of Self Help Groups (SHGs) in Development of SSI/SME/MSME 	
4	Specialized Focus Areas in Micro, Small and Medium Enterprises	
	 Unit-1:- Meaning, Features, Concept, Significance of Rural Industries Nature of activities involved in Rural Industries - Measures to Support and Promote Rural Industries Meaning, Features, Concept, Significance and Role of Rural Artisans Measures to Support and Promote Rural Artisans – Role of Government and Non-Government Agencies in Promoting Rural Artisans Unit-2:- Meaning, Features, Concept, Significance of Agro-based Industries 	
	 Nature of activities involved in Agro-based Industries - Measures to Support and Promote Agro-based Industries Meaning, Features, Concept of Ancillary Industries Nature of activities involved in Ancillary Industries - Measures to Support and Promote Ancillary Industries Unit-3:- Meaning and Concept of Industrial Estates Features of Industrial Estates Utility and Significance of Industrial Estates to SSI/SME/MSME Sector 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

8. International Marketing Paper - II

Sr. No.	Modules	No. of Lectures
1	International Marketing Channels & Physical Distribution	12
2	Procedures & Policy Framework in International Marketing	11
3	International Trade Promotion Organization	11
4	Export Assistance, Incentives & Documentation	11
	Total	45

Sr. No.	Modules / Units	
1	International Marketing Channels & Physical Distribution	
	 a. International Marketing Channels- , Need and Importance. b. Method of Entry in International Market. Factors influencing selection of Suitable Channels. c. Physical Distribution – Importance, Scope and Problems. 	
2	Procedures & Policy Framework in International Marketing	
	 a. Foreign Trade Policy (FTP), 2015-20-Highlights and implications. b. Export Procedure- Registration Procedure, Role of Customs House Agent, Customs/Shipment Formalities, Procedure of Export Proceeds Realization. Procedure to obtain ISO Certification. c. Import Procedure involved in International Market. 	
3	International Trade Promotion Organization	
	 a. Export Marketing Organisation- and Types, Role and Functions of Export Promotion Councils, Commodity Board, IPP, FIEO, IIFT, DGFT, ITPO and IIP. b. Export Promotion Organisation- and Types. c. E- Marketing – Features Importance and Impact. 	
4	Export Assistance, Incentives & Documentation	
	 a. Main Assistance available for Exporters. b. Incentives available for exporters- Duty Drawback, EPCG, MDA, ASIDE, IRMAC. c. Export Documentation-and Importance, Main Export Documents- Commercial Invoice, Consular Invoice, Certificate of Origin, Shipping Bill, Mats Receipt, GR Form and Bill of Exchange. 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

Merchant Banking Paper - II

Modules at a Glance

9.

Sr. No.	Modules	No. of Lectures
1	Factoring	11
2	Securitization	11
3	Mergers, Acquisitions & Takeovers	11
4	Disinvestment and Buyback of Equity Shares	12
	Total	45

Sr. No.	Modules / Units
1	Factoring
	Factoring: Concept, Nature and Scope of Factoring, Forms of Factoring, Factoring vis-à-vis Bills Discounting, Factoring vis-àvis Credit Insurance, Factoring vis-à-vis Forfeiting, Evaluation of a factor, Evaluation of factoring, Status of Factoring in India.
2	Securitization
	Securitization / Mortgages: Meaning, Nature and Scope of Securitization, Securitization as a Funding Mechanism, Securitization of Residential Real Estate and Mortgages -Features, Types and Provisions. Security Brokerage: Meaning of Brokerage, Types of Brokers, Difference between
	Broker and Jobber, SEBI Regulations relating to brokerage business in India.
3	Mergers, Acquisitions & Takeovers
	Difference between Mergers, Acquisitions and Takeover, The Role of Merchant Banker in M&A and Takeovers, SEBI (Substantial Acquisition of Shares and Takeovers) Regulations, 2011 w.r.t Substantial acquisition of shares or voting rights, Voluntary Offer- Offer Size, Offer Price, Payment Mode, Exemptions and Process of Open Offer.
4	Disinvestment and Buyback of Equity Shares
	The Role of Merchant Banker in Disinvestment Process, Role and Obligations of Merchant Banker in Buyback of Equity Shares, Role of Merchant Banker in Delisting of Shares, Role of Merchant Banker in Issue and Listing of Debt Securities and The Role of Merchant Banker in ESOP

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

10. Direct and Indirect Taxation Paper - II Goods and Service Tax Act

Sr. No.	Modules	No. of Lectures
1	Introduction	09
2	Levy and Collection of Tax	09
3	Time, Place and Value of Supply	09
4	Input Tax Credit & Payment of Tax	09
5	Registration under GST Law	09
	Total	45

Sr. No.	Modules / Units
1	Introduction
	 What is GST Need for GST Dual GST Model Definitions Section 2(17) Business Section 2(13) Consideration Section 2(45) Electronic Commerce Operator Section 2(52) Goods Section 2(56) India Section 2(56) India Section 2(78) Non taxable Supply Section 2(84) Person Section 2(90) Principal Supply Section 2(93) Recipient Section 2(102) Services Section 2(105) Supplier Section 2(107) Taxable Person Section 2(108) Taxable Supply Goods & Services Tax Network (GSTN)
2	Goods & Services Tax Network (GSTN) Levy and Collection of Tax
	 Scope of Supply Non taxable Supplies Composite and Mixed Supplies Composition Levy Levy and Collection of tax Exemption from tax
3	Time, Place and Value of Supply
	 Time of Supply Place of Supply Value of Supply
4	Input Tax Credit & Payment of Tax
	 Eligibility for taking Input Tax Credit Input Tax Credit in Special Circumstances Computation of Tax Liability and payment of tax
5	Registration under GST Law
	 Persons not liable registration Compulsory registration Procedure for registration Deemed registration Cancellation of registration

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

11. Labour Welfare and Practice Paper - II

Sr. No.	Modules	No. of Lectures
1	Social Security	15
2	Labour Markets	10
3	Labour Force in India	10
4	Globalization &Labour	10
	Total	45

Sr. No.	Modules / Units
1	Social Security
	 Meaning, Definition & Objective of Social Security. Various Social Security provisions made in India (Employees provident fund Act, Maternity benefit Act, Family Pension Scheme, Provision of Gratuity Act 1972) Trade Union – Structure, Types & Functions.
2	Labour Markets
	 Demand for and supply of labour- determinants of demand for and supply of labour – Mobility of Labour Problems of Agricultural Labour, Child Labour and Female Labour
3	Labour Force in India
	 Factors determining Labour Force. Labour Force & Human Development in India Participation of workers in Management Industrial disputes
4	Globalization &Labour
	 Globalisation & Labour Markets in India. Impact of Labour Migration. ILO- Aims & objectives & impact on Labour Welfare.

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

12. Purchasing and Store Keeping Paper - II

Sr. No.	Modules	No. of Lectures
1	Store Keeping and Materials Handling	12
2	Store Accounting and Store Record	11
3	Inventory Control	11
4	Logistics and Supply Chain Management (SCM)	11
	Total	45

Sr. No.	Modules / Units	
1	Store Keeping and Materials Handling	
	 Store Keeping - Concept, Meaning, Objectives, Functions of Storekeeping, Types of stores, Stages in storekeeping, Duties and Responsibilities of Storekeeper. Material handling – Objective, Advantages & Principles, Protection and Preservation of materials in store. Store Location & Layout – Location of Store House, Factors influencing store location, Objectives, Principles and Types of store layout. 	
2	Store Accounting and Store Record	
	 Store Accounting – Objectives, Importance, Advantages, Need for Store Accounting, Methods of Valuation of Material – FIFO, LIFO, Simple average & Weighted average method Store Record – Concept, Objectives, Need, and Documents required for Store Record Store Ledger & Bin card – Meaning, Advantages of Store ledger and Bin card, Stock Audit, Lead time- Concept & Classification 	
3	Inventory Control	
	 Stock levels & Value analysis – Types of stock level, Value analysis – Concept, Essentials & Steps. ABC analysis – Purpose, Steps and Advantages of ABC analysis. Inventory Control – Objectives, Advantages and Disadvantages of Periodical & Perpetual Inventory Control, Selective Inventory control techniques, Economic Order Quantity – Importance. 	
4	Logistics and Supply Chain Management (SCM)	
	 Logistics – Concepts, Nature, Importance & Challenges Supply chain management – concepts, Objectives, Benefits & Process of Supply Chain Management Recent trends in logistics & SCM – Role of IT in logistics / SCM, Issues & Challenges in logistics, Logistics Outsourcing – Concept & Benefits. 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

13. Insurance Paper - II

Sr. No.	Modules	No. of Lectures
1	Life Insurance Products	11
2	General Insurance	11
3	Miscellaneous Coverage's	11
4	Insurance Business Environment in India	12
	Total	45

Sr. No.	Modules / Units
1	Life Insurance Products
	 a. Different products offered by life insurers – term plans, pure endowment plans, combinations of plans, traditional products b. Market linked policies, of Annuities and group policies. c. Procedure for obtaining life insurance policy, procedure for settlement of Claims.
2	General Insurance
	 a. Fire Insurance- Risks faced by the owner of assets – exposure to perils – features of products covering fire and allied perils, Procedure for obtaining fire insurance policy b. Marine Insurance- Products covering marine and transit risks -products covering financial losses due to accidents, Procedure for obtaining marine insurance policy c. Health insurance - Products covering financial losses due to hospitalization - products covering miscellaneous risks. Procedure for obtaining health/ Mediclaim insurance policy
3	Miscellaneous Coverage's
	 a. Motor insurance – Liability only policy – Package policy –Personal Accident insurance b. Burglary insurance – Baggage insurance – Legal Liability insurance – Public & Product Liability insurances – Professional Indemnity insurance c. Workmen's Compensation insurance – Fidelity Guarantee insurance – Banker's Indemnity insurance – Carrier's Legal Liability insurance – Jeweller's Block insurance -Aviation insurance – Engineering insurance – Rural insurances – Micro insurance
4	Insurance Business Environment in India
	 a. Specialised Insurances: Industrial All Risks insurance – Advance Loss of Profits insurance – Oil & Energy Risks insurance – Satellite insurance b. Challenges in Insurance Industry, LIC v/s Private Insurance Companies in India c. Recent trends in Insurance, Growth of Insurance Business, Actuarial Role, Reasons for attraction of Foreign Insurance Companies in India.

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

14. Banking Law and Practice Paper - II Corporate and Securities Law

Sr. No.	Modules	No. of Lectures
01	Company Law – An Overview	12
02	Regulatory Framework Governing Stock Exchanges as per Securities Contracts Regulation Act 1956	11
03	Security Exchange Board of India	11
04	The Depositories Act, 1996	11
	Total	45

Sr. No.	Modules / Units	
1	Company Law – An Overview	
	 Development of Company Law in India Doctrines Governing Corporates – Lifting the Corporate Veil, Doctrine of Ultra Vires, Constructive Notice, Indoor Management, Alter Ego. The Principle of Non Interference (Rule in Foss V/s Harbottle) – Meaning, Advantages, Disadvantages & Exceptions, Majority and Minority Rights under Companies Act Application of Company Law to Banking and Insurance Sector Application of Companies Act to Banking and Insurance sector governed by Special Acts. S.1(4) of Companies Act 2013 	
2	Regulatory Framework governing Stock Exchanges as per Securities Contracts	
	 Definition of Securities, Spot Delivery Contract, Ready Delivery Contract, Stock Exchange. Corporatisation and demutualisation of Stock Exchange –Meaning, Procedure & Withdrawal Power of Recognised Stock Exchange to make rules restricting voting rights etc Power of Central Government to Direct Rules or Make rules Power of SEBI to make or amend bye laws of recognised stock exchange Books and Accounts to be maintained by recognized stock exchange Grounds on which stock exchange can delist the securities of a company. Section 3 to Section 20 	
3	Security Exchange Board of India	
	 SEBI: Objectives-terms-establishment-powers-functions-accounts and audit- penalties –registration. Issues of Disclosure Investors Protection Guidelines: Pre & Post obligations- conditions for issue-Debt Security-IPO-E-IPO-Employee option-right-bonus- preferential allotment intermediary-operational-promoter lock in period requirements-offer document. 	
4	The Depositories Act, 1996	
	 Depository – Meaning , Benefits , Models, Functions Participants The Depository Act 1996 – Objectives, Eligibility condition for depository services, Fungibility, Bye laws of depository , Governance of Depository and Internal audit of depository Participants BSDA and single registration for depository participants. 	

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

15. Regional Planning Paper - I

Sr. No.	Modules	No. of Lectures
1	Regional Planning Strategies & Techniques	15
2	Regionalization of Planning in India	10
3	Regional Development in Maharashtra	10
4	Problem Regions and Case Studies	10
	Total	45

Sr. No.	Modules / Units		
1	Regional Planning Strategies & Techniques		
	 Regional planning strategies & techniques Planning machinery & problems of co-ordination – integrated area development Multi-level nature of planning in India, specific contribution of planning at different levels. 		
2	Regionalization of Planning in India		
	 Regionalization of planning in India: an assessment Regional development & efficiency Ecological dimension – strategy for future. 		
3	Regional Development in Maharashtra		
	 Regional development in Maharashtra – regional backlogs causative factors. Strategies for regional development – achievements & failures Strategy for future. 		
4	Problem Regions and Case Studies		
	 Problem regions: Nature of problems& strategies for its solution Case Studies: Mumbai Metropolitan Region-Vidharbha, South Kokan, Marathwada, Western Ghats, Sugarcane growing areas 		

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

Rural Marketing Paper - II

Modules at a Glance

16.

Sr. No.	Modules	No. of Lectures			
1	Agricultural Marketing	11			
2	Rural Marketing and Market Regulation	12			
3	Institutional Support to Rural Marketing	11			
4	Problems in Rural Marketing	11			
	Total	45			
Sr. No.	Modules / Units				
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1	Agricultural Marketing				
	 a. Agricultural Marketing- Concept, Nature and Types, Agriculture produce-concept and types of Agricultural Markets. b. Marketing agencies, Risks involved in marketing, Types of risks, Measures to minimise risks c. Contract Marketing (Farmer – Processor linkage), Marketing channels for agricultural produce 				
2	Rural Marketing and Market Regulation				
	 a. Regulated Market- APMC Act 1963, Standardisation and Grading, Inspection of quality, AGMARK b. The National Council for State Marketing Boards (NCOSAMB) State Trading corporation (STC), Public Distribution System(PDS) – Need and importance c. Fruit Products order (FPO) 1955 - objectives, Consumer Protection Act 1986- Bights of Consumers 				
3	Institutional Support to Rural Marketing				
	 a. Commission on Agriculture Costs and Prices (CACP)- Role, Functions and Importance b. National Agriculture Co-operative Marketing Federation (NAFED)-Role, Functions and Importance c. Agriculture and Processed Food Exports Development Authority (APEDA)-Role, Functions and Importance 				
4	Problems in Rural Marketing				
	 a. Problems in rural marketingStrategies for rural marketing Integration, Efficiency, Cost and Price Spread b. Need for marketing finance, Source of marketing finance, Non Institutional InstitutionsCommercial BanksPACS, Farmers Service Societies (FSS), RRBs and NABARD c. Challenges and recent trends in rural marketing 				

Revised Syllabus of Courses of B.Com. Programme at Semester VI with effect from the Academic Year 2018-2019

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

17. Elements of Operational Research Paper - II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Project Analysis	15
2	Theory of Games	15
3	Inventory Models	15
	Total	45

Sr. No.	Modules / Units				
1	Project Analysis				
	Basic concepts and Definitions, Gannt Charts and its weaknesses, CPM and PERT networks, Numbering of Events, Contractual Obligation Time, Earliest occurrence time, Latest allowable occurrence Time and Slack Time for Events, Different types of floats for activities. Critical Path Calculations, Probability Assessment in PERT Networks. Time Cost Trade - Off Analysis for CPM Networks				
2	Theory of Games				
	Basic Concept and Definitions. Two Person Zero Sum Game. Saddle point, Pure and Mixed Strategies. Reducing the size of the game using dominance property. Optimum Solution to a 2x2 game without saddle point. Graphical solution to 2xn and mx2 games.				
3	Inventory Models				
	Costs in Inventory management Deterministic Inventory Models- EOQ Model with Instantaneous Replenishment and Constant Rate of Demand Assuming that shortages are not allowed (Mathematical derivation expected), its price break model. Other EOQ models with instantaneous/uniform rate of replenishment and constant rate of demand assuming shortages are allowed/not allowed.				

Revised Syllabus of Courses of B.Com. Programme at Semester VI with effect from the Academic Year 2018-2019

Elective Courses (EC) 2. Ability Enhancement Courses (AEC)

18. Psychology of Human Behavior at Work Paper-II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Understanding Work Teams	11
2	Conflict and Negotiation	11
3	Emotions and Moods	12
4	Organizational Change and Stress Management	11
	Total	45

Sr. No.	Modules / Units				
1	Understanding Work Teams				
	a) Differences between groups and teams; Types of teams				
	b) Creating effective teams				
2	Conflict and Negotiation				
	a) Defining Conflict; transitions in conflict thought				
	b) The Conflict Process				
	c) Negotiation: Bargaining strategies; the negotiation process				
3	Emotions and Moods				
	a) What are Emotions and Moods? The basic emotions; sources of emotions and				
	moods				
	b) Emotional Intelligence				
	c) Organizational Behaviour applications of emotions and moods				
4	Organizational Change and Stress Management				
	a) a Forces for Change				
	b) Work Stress and its Management				

Revised Syllabus of Courses of B.Com. Programme at Semester VI with effect from the Academic Year 2018-2019

Reference Books

Reference Books

Elective Courses (EC)

Discipline Specific Elective (DSE) Courses

Group A: Advanced Accountancy

1. Financial Accounting and Auditing IX- Financial Accounting

- Ashish K. Bhattacharyya "Financial Accounting for Business Managers", Prentice Hall of India Pvt. Ltd.
- Shashi K. Gupta "Contemporary Issues in Accounting", Kalyani Publishers.
- R. Narayanaswamy "Financial Accounting", Prentice Hall of India, New Delhi
- Ashok Sehgal "Fundamentals of Financial Accounting", Taxmann's Publishers
- Financial Accounting Reporting Barry Elliot and Jamie Elliot Prentice Hall (14th Edition

2. Financial Accounting and Auditing X- Cost Accounting

- Cost Accounting- A managerial emphasis by Horngren, Charles, Foster and Datar, Prentice Hall
- Management Accounting by Khan and Jain, Tata McGraw Hill
- Practical Costing by P C Tulsian, Vikas New Delhi
- Advanced problems and solutions in cost Accounting by S N Maheshwari, Sultan Chand New Delhi
- Cost Accounting (For B. Com 4th Sem, Delhi Univ) by Arora M N, Vikas Publishing House Pvt. Ltd.
- A Textbook of Cost And Management Accounting 10th Edn by Arora M N, Vikas Publishing House Pvt. Ltd.
- Cost Accounting: Principles & Practice 12 Edn by Arora M N, Vikas Publishing House Pvt. Ltd.
- Essentials of Cost Accounting by Arora M N, Vikas Publishing House Pvt. Ltd.
- Students Guide to Cost Accounting & Financial Management (Set of 2 Volumes) (CA-IPCC) (Group I) by Bhavesh N. Chandarana, Taxmann
- Lectures on Costing by Swaminathan: S. Chand and Company (P) Ltd., New Delhi
- Cost Accounting by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- Cost Accounting by Jawahar Lal and Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- Cost Accounting by Ravi M. Kishore, Taxmann Ltd., New Delhi
- Principles and Practices of Cost Accounting by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta
- Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- Cost Accounting Principles and Practice by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi
- Advanced Cost and Management Accounting: Problems and Solutions by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi
- Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana
- Modern Cost and Management Accounting by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi
- Fundamentals of Cost Accounting by Jhamb. H. V., Ane Books Pvt. Ltd.
- Cost Accounting by Gupta Nirmal, Ane Books Pvt. Ltd.

Group B: Business Management

1. Business Management Paper III

- Essentials of Management by Koontz and Weihrich / McGraw Hill
- Principles of Management by Koontz and O. Donnel/ Tata McGraw Hill, New Delhi
- Principles of Management: Theory and practices by Sarangi S.K. VMP Publishers and Distributors.
- Guide to Management Ideas by Tim Hindle, The Economist
- Principles of Management by Terry G.R. AITBS
- Business Organization and Principles of Management by Dutta Chowdury, Central Education
- Principles of Management, Daver Rustoms, Crown

- Principles of Management, Tripathi P.C. Tata McGraw Hill, New York
- Management Theory and Practices by Dale, Ernest / McGraw Hill, New York.
- Practice of Management by Peter Drucker / Allied Publisher, New Delhi
- Management by Ricky W Griffin / Houghton Mifflin Company
- Management by Gary Dessler / Prentice Hall
- Management by Stephen Robbins, Mary Coulter / Prentice Hall
- Management by James Stoner, Edward Freeman / Prentice Hall
- Time Management by Roberta Roesch, Tata Mc Graw Hill
- Time Management by Marc MANCINI, Tata Mc Graw Hill

2. Business Management Paper IV

- Fundamentals of Financial Management (5th edition) by Chandra Prasanna (2010). Tata McGraw Hill Education Pvt. Ltd.: New Delhi
- Financial Management Analytical and Conceptual Approach (12th edition) by Kuchhal S.C. (1995).Chaitanya Publishing House: Allahabad
- Financial Management by Reddy R.Jayprakash (2010) APH Publishing Corporation: New Delhi
- Financial Management Theory and Practice (5 & 6th edition) by Chandra Prasanna (2003, 2004). Tata McGraw Hill Education Pvt. Ltd.: New Delhi
- Fundamentals of Financial Management (13th edition) by Horne, James C. Van (2012) PHI Learning Pvt. Ltd.: New Delhi
- Financial Management and decision making by Samuels, John (1999) International Thomson Nusiness Press : London
- Financial Management problems & solutions (2nd edition) by Kishore, Ravi M. (2010) Taxmann Publication Pvt. Ltd.: New Delhi
- Financial Management : theory, concepts and cases(5th rev edition) by Rustagi, R.P. (2011) Taxmann Publication Pvt. Ltd.: New Delhi
- Financial Management : principles & problems (7th edition) by Srivastava, R.M.&VermaShubhra (2002) PragatiPrakashan: Meerut
- Fundamentals of Financial Management problems and solutions (3rd edition) by Maheswari, S.N. (2006) Sultan Chand and Sons: New Delhi

Group C: Banking and Finance

1. Banking and Finance Paper- III Risk Management

- Quantitative Risk Management : A Practical Guide to Financial Risk- Thomas S. Coleman
- Investment Theory and Risk Management: Steve Peterson
- Risk Management : M/s Macmillan India Limited
- Theory & Practice of Treasury Risk Management: M/s Taxman Publications Ltd.
- Corporate Value of ERM : Sim Segal
- Risk Management : Insurance and Derivatives Dr G Kotreshwar-Himalaya Publishing House

2. Banking and Finance Paper- IV Actuarial Analysis in Banking & Insurance

- *"Actuarial Statistics: An Introduction Using R" by Shailaja R Deshmukh.*
- "Predictive Modeling Applications in Actuarial Science" by Richard A Derrig and Glenn Meyers
- "Generalized Linear Models for Insurance Data (International Series on Actuarial Science)" by Piet de Jong and Gillian Z Heller
- "Contributions to Sampling Statistics (Contributions to Statistics)" by Maria Giovanna Ranalli and Fulvia Mecatti
- *"Forecasting Product Liability Claims: Epidemiology and Modeling in the Manville Asbestos Case" by J B Weinstein and Eric Stallard*
- *"Financial Modeling, Actuarial Valuation and Solvency in Insurance" by Mario V Wuthrich & Michael Merz*
- *"Modern Actuarial Risk Theory: Using R" by Rob Kaas and Marc Goovaerts*
- "Health Insurance: Basic Actuarial Models" by Ermanno Pitacco
- "Financial and Actuarial Statistics: An Introduction" by Dale S Borowiak and Arnold F Shapiro

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Group D: Commerce

1. Commerce III

- Bhattacharjee, Service Sector Mgt; An Indian Perspective, Jaico Publishing house, 2011.
- Christoper lovelock, service marketing people technology, strategy, pearson education, IV Edi, 2003.
- Valarie A. Zeithaml 8 Mary Jo Bitner, Services Marketing, Tata Mcgraw-Hill, 2000.
- A. Vijaykumar, service sector in India Recent Policy initiative, New century Publication, 2008.

2. Commerce IV

- Office Management, Pillai R S N, S. Chand Publishers, 2010
- Office Organisation & Management, N.Kumar & R. Mttal, Anmol Publisher, 2001
- Office Management, Balachandran, Tata Mc Graw Hill, 2009

Discipline Related Elective(DRE) Courses

3. Commerce VI

- Bernardin, John H: Human Resource Management, Tata McGraw Hill, New Delhi 2004.
- Arthur M, Career Theory Handbook, Prentice Hall Inc, Englewood Cliff.
- Belkaoui, A.R. and Belkaoui ,JM, Human Resource Valuation: A Guide to Strategies and Techniques, Quarum Books, Greenwood, 1995.
- Dale, B, Total Quality and Human Resources: An Executive Guide, Blackwell, Oxford.
- Greenhaus, J.H., Career Management, Dryden, New York.
- Mabey, C and Salama, G., Strategic Human Resource Management, Blackwell, Oxford.
- Aswathappa. K, Human Resource Management
- Subba Rao, Human Resources Management.
- Michael Porter, HRM and Human Relations.
- M.N. Rudrabasavaraj: Cases in Human Resource Management –Himalaya Publishing House –NewDelhi, 1998
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- Sadri.J, Sadri.S, Nayak.N, A Strategic Approach to HumanResource Management, JAICO Publishing House.
- Davar, R. S. Personnel Management and Industrial Relations. Vikas Publication, Noida.
- Robbins, Stephen P. OrganisationalBehaviour. Pearsons Education, New Delhi

4. Business Economics VI

- Kindleberger, C.P. (1973) International Economics, Homewood
- Kenan, P.B. (1994), The International Economy, Cambridge University Press, London
- Krugman, P.R. and M. Obstgold (1994), International Economics: Theory and Policy, Glenview, Foreman
- Dwivedi D N (2013) International Economics: Theory and Policy, Vikas publishing House New Delhi
- M.L. Jhingan International Economics Vrinda publication Pvt. Ltd Delhi
- Francis Cheunilam International Economics Tata McGraw Hill Publishing co.Ltd.New Delhi.
- Dominick Salvatore International Economics John Wiley & sons, Inc Singapore.
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Ability Enhancement Courses (AEC)

1. Trade Unionism and Industrial Relations Paper II

- Myers C.A. & Kannappan S. (1970), 'Industrial Relation in India', Asia publishing House, India.
- Singh, J.K. (1988), 'Labour Economics. Principles Problem and Practices', Deep and
- Deep Publication Pvt. Ltd. New Delhi.
- Jackson, M.P. , Strikes
- Karnik V.B. (1974), 'Indian labour, Problems and prospects', Minewal Associations.
- Joshi C.K (1967), 'Unionism in Developing Economy', Asia Publication House, Bombay.
- Mamoria C.B. & Mamoria S. (1992), 'Dynamics of Industrial Relation in India', Himalaya Publishing House.
- Sahani, Dr, N.K. (2009) 'Industrial Relations' Kalyani Pub. Ludhiyana.
- Tripathi, P.C. (2009) 'Personal Management and Ind. Relations' Sultan Chand and Jons, New Delhi.
- Memoria & Memoria- 'Ind. Relations' Himalaya Pub. House, Mumbai.
- A.M. Sharma- 'Ind. Relations' Himalaya Pub. House, Mumbai.
- G.Ramanugan- The Honey bee to words a new culture in Ind, Relations- Sterling Pub. Pvt. Ltd.

2. Computer Systems and Applications Paper II

- E- Commerce Kenneth Laudon, Carol Traver , Pearson Education
- Frontiers of Electronic Commerce Kalakota & Whinston
- E- Commerce Rajaraman
- E- Commerce Whitley
- E- Commerce concepts and cases Rao and Deshpande.
- Programming in VB 6.0 Julia case Bradley, Anita C. Milspaugh, TMH
- Visual Basic 6.0 Programming Content Development Group, TMH
- The Complete Reference to Visual Basic 6 Noel Jerke, TMH
- Visual Basic 6 Programming Black Book Steven Holzner, Dreamtech Press

3. Export Marketing II

- Export Policy Procedures & Documentation-M. I. Mahajan, Snow White Publications Pvt. Ltd, 26th Edition,
- International Business, K. Aswathappa, McGraw-Hill Education (India) Pvt. Ltd., 6th Edition
- Export Import Procedures Documentation and Logistics, C. Rama Gopal, New Age International Publishers, 2006 / Reprint Jan 2016
- International Trade and Export Management, Francis Cherunilam, Himalaya Publishing House, 20th Edition, 2017
- R. K. Jain's, Foreign Trade Policy & Handbook of Procedures [With Forms, Circulars & Public Notices], Centax Publication, 2017
- EXIM Policy & Handbook of EXIM Procedure VOL I & II
- International Marketing and Export Management, Gerald Albaum, Edwin Duerr, Alexander Josiassen, Pearson Publications, 8th Edition, June 2016
- International Marketing Strategy, IsobelDoole and Robin Lowe, 5th Edition, Thomson Learning, 2008.
- Global marketing, Warren J. Keegan 9th Edition Pearson Education, Delhi,
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- P.K. Khurana, Export Management, Galgotia Publishing Co, New Delhi
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- International Marketing, Mary C. Gilly, John L. Graham, Philip R. Cateora, 14th Edition, Tata McGraw-Hill Co. Ltd., 2014
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- Vasant Desai, Entrepreneurship and Management of Small and Medium Enterprises, Himalaya Publishing House.
- Vasant Desai, Small Scale Industries and Entrepreneurship, Himalaya Publishing House.
- Yerram Raju B. and Pujari Ram R., The Small Entrepreneur Starting and Growing, Excel Publication, New Delhi.

8. International Marketing Paper II

- International Marketing Rathor Jani Rathor
- International Business P. Suhbarau
- Global Marketing Strategy Jeannet&Hennssey
- Managing International Marketing dr. V. O. Varkey
- Modern Marketing Research M.N.Mithani
- Marketing Research G.C.Berry
- Marketing Research : Applied Orientation.- Naresh Malhotra
- Marketing Research- Boyd, Westfall & Stasch
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- B.L. Varshney and B. Bhattacharya , International Marketing Management .
- P.G. Apte, International Financial Management .
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9. Merchant Banking Paper II

- Merchant Banking and Financial Services Dr. S Guruswamy Fourth Edition, Delhi Publishing House.
- Merchant Banking Principles & Practices H. R Machiraju New Age International Ltd
- Merchant Banking NISM 2015 Edition
- Merchant Banking and Financial Services Dr L.N Natarajan, Margham Publications 2012

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10. Direct and Indirect Taxation II- GST

- GST Bare Act 2017
- GST Law & Practice V.S Datey (6th Edition)
- GST Laws National Academy of Customs, Indirect Tax

11. Labour Welfare & Practice Paper II

- Jayant S. Railkar- Labour welfare & Practice Vipul Prakashan.
- A.M. Sarma Aspects of Labour welfare & Social Security Himalaya Publications.
- Punekar & Deodhar Labour welfare Tata MC Graw Hill Publishing.
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12. Purchasing and Storekeeping Paper II

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- Varma : Essentials of Store Keeping and Purchasing : M. M. Sultan Chand.
- Westing, J. H., Fine, I.V., Zenz, G. J. : Purchasing Management (Wiley Eastern Ltd., New Delhi).

13. Insurance Paper II

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- Operational Transformation of General Insurance Industry during the period 1950 to 1990 & Beyond, R D Samarth
- Study on Distribution Functions in General Insurance & Role of Intermediaries, Arun Agarwal / PR Rao
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- V.L Iyer SEBI Practice Manual Taxmann
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- Operations Research by H.A.Taha
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- Operations Research Theory & Applications by J.K.Sharma
- Operations Research Problems & Solutions by V.K.Kapoor
- Quantitative Techniques by Shenoy, Shrivastav & Sharma
- Introduction to Operations Research by Hiller & Lieberman
- Operations Research Techniques for Management by B.Banerjee
- Operations Research by Gupta & Manmohan
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Revised Syllabus of Courses of B.Com. Programme at Semester V and VI with effect from the Academic Year 2018-2019

Question Paper Pattern

(Practical Courses)

Maximum Marks: 100

Questions to be set: 06

Duration: 03 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 12 and to be answered any 10 B) Sub Questions to be asked 12 and to be answered any 10 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	20 Marks
Q-2	Full Length Practical Question OR	15 Marks
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question OR	15 Marks
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question OR	15 Marks
Q-4	Full Length Practical Question	15 Marks
Q-5	Full Length Practical Question OR	15 Marks
Q-5	Full Length Practical Question	15 Marks
Q-6	A) Theory questions B) Theory questions OR	10 Marks 10 Marks
Q-6	Short Notes To be asked 06 To be answered 04	20 Marks

Note:

Practical question of 15 marks may be divided into two sub questions of 7/8 or 10/5 Marks.

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Revised Syllabus of Courses of B.Com. Programme at Semester V and VI with effect from the Academic Year 2018-2019

Question Paper Pattern

(Theoretical Courses)

Maximum Marks: 100

Questions to be set: 06

Duration: 03 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 12 and to be answered any 10 B) Sub Questions to be asked 12 and to be answered any 10 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	20 Marks
Q-2	Full Length Question OR	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question OR	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question OR	15 Marks
Q-4	Full Length Question	15 Marks
Q-5	Full Length Question OR	15 Marks
Q-5	Full Length Question	15 Marks
Q-6	A) Theory questions B) Theory questions OR	10 Marks 10 Marks
Q-6	Short Notes To be asked 06 To be answered 04	20 Marks

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 or 10/5 Marks.

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B.Com. (Accounting & Finance) Programme Three Year Integrated Programme-Six Semesters *Course Structure*

Under Choice Based Credit System

To be implemented from Academic Year- 2016-2017 Progressively

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B.Com. (Accounting & Finance) Programme Under Choice Based Credit, Grading and Semester System Course Structure

F.Y.B.Com. (Accounting & Finance)

(To be implemented from Academic Year- 2016-2017)

No. of Courses	Semester I	Credits	No. of Courses	Semester II	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1	Financial Accounting (Elements of Financial Accounting) - I	03	1	Financial Accounting (Special Accounting Areas) - II	03
2	Cost Accounting (Introduction and Element of cost) - I	03	2	Auditing (Introduction and Planning) - I	03
3	Financial Management (Introduction to Financial Management) - I	03	3	Taxation - I (Indirect Taxes I)	03
2	2 Ability Enhancement Courses (AEC)		2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulso Course (AECC)	ry	2A	Ability Enhancement Compulsory Course (AECC)	
4	Business Communication - I	03	4	Business Communication - II	03
2B	*Skill Enhancement Courses (SE	C)	2B	**Skill Enhancement Courses (SEC)
5	Any one course from the following list of the courses	02	5	Any one course from the following list of the courses	02
3	3 Core Courses (CC)		3	Core Courses (CC)	
6	Commerce (Business Environment) - I	03	6	Business Law (Business Regulatory Framework) - I	03
7	Business Economics - I	03	7	Business Mathematics	03
Total Credits		20		Total Credits	20

*List of Skill Enhancement Courses (SEC) for Semester I (Any One)		**List of Skill Enhancement Courses (SEC) for Semester II (Any One)			
1	Foundation Course - I	1	Foundation Course - II		
2	Foundation Course in NSS - I	2	Foundation Course in NSS - II		
3	Foundation Course in NCC - I	3	Foundation Course in NCC - II		
4	4 Foundation Course in Physical Education - I 4 Foundation Course in Physical Education - II				
Note: Course selected in Semester I will continue in Semester II					

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S.Y.B.Com. (Accounting & Finance)

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2 & 3	*Any three courses from the following list of the courses	09	1,2 & 3	**Any three courses from the following list of the courses	09
2	2 Ability Enhancement Courses (AEC) - Skill Enhancement Course (SEC)		2	Ability Enhancement Courses (- Skill Enhancement Course (SE	AEC) C)
4	Information Technology in Accountancy - I	02	4	Information Technology in Accountancy - II	02
3	Core Courses (CC)		3	Core Courses (CC)	
5	Commerce (Financial Market Operations) - II	03	5	Management (Introduction to Management) - I	03
6	Business Law (Business Regulatory Framework) - II	03	6	Business Law (Company Law) - III	03
7	Business Economics - II	03	7	Research Methodology in Accounting and Finance	03
Total Credits		20		Total Credits	20

(To be implemented from Academic Year- 2017-2018)

*List of Elective Courses (EC) for Semester III (Any Three)		**List of Elective Courses (EC) for Semester IV (Any Three)			
1	Financial Accounting (Special Accounting Areas) - III	1	Financial Accounting (Special Accounting Areas) – IV		
2	Cost Accounting (Methods of Costing) - II	2	Wealth Management		
3	Auditing (Techniques of Auditing and Audit Procedures) - II	3	Auditing – III		
4	Taxation - II (Indirect Taxes Paper- II)	4	Taxation - III (Indirect Taxes- III)		
5	Operation Research	5	Management Accounting (Introduction to Management Accounting) – I		
Note: Course selected in Semester III will continue in Semester IV					

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T.Y.B.Com. (Accounting & Finance)

No. of Courses	Semester V	Credits	No. of Courses	Semester VI	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2,3 & 4	*Any four courses from the following list of the courses	12	1,2,3 & 4	**Any four courses from the following list of the courses	12
2	Core Courses (CC)		2	Core Courses (CC)	
5	Management (Management Applications) - II	04	5	Economics (Indian Economy) - III	04
3	✓ Project Work		3	✓ Project Work	
6	Project Work I	04	6	Project Work II	04
	Total Credits	20		Total Credits	20

(To be implemented from Academic Year- 2018-2019)

✓ Note: Project work is considered as a special course involving application of knowledge in solving/analyzing/exploring a real life situation/ difficult problem. Project work would be of 03 credits. A project work may be undertaken in any area of Elective Courses/ study area

*List of Elective Courses for Semester V (Any Four)		**List of Elective Courses for Semester VI (Any Four)	
1	Financial Accounting - V	1	Financial Accounting - VI
2	Cost Accounting - IV	2	Cost Accounting - V
3	Financial Management - II	3	Financial Management - III
4	Taxation - IV (Direct Taxes- I)	4	Taxation - V (Direct Taxes- II)
5	International Finance - I	5	Financial Accounting - VII
6	Financial Analysis and Business Valuation	6	Security Analysis and Portfolio
			Management
Note	Note: Course selected in Semester V will continue in Semester VI		

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Revised Syllabus and Question Paper Pattern of Courses of B.Com. (Accounting & Finance) Programme First Year Semester I and II

Under Choice Based Credit, Grading and Semester System

With effect from Academic Year- 2016-2017

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B.Com. (Accounting & Finance) Programme Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year- 2016-2017)

No. of Courses	Semester I	Credits	No. of Courses	Semester II	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1	Financial	03	1	Financial Accounting(Special	03
	Accounting(Elements of Financial Accounting) - I			Accounting Areas) - II	
2	Cost Accounting (Introduction and Element of cost) - I	03	2	Auditing (Introduction and Planning) - I	03
3	Financial Management (Introduction to Financial Management) - I	03	3	Taxation - I (Indirect Taxes I)	03
2	Ability Enhancement Courses (AEC)		2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Course (AECC)		2A	Ability Enhancement Compulsory Course (AECC)	
4	Business Communication - I	03	4	Business Communication - II	03
2B	*Skill Enhancement Courses (SE	: C)	2B	**Skill Enhancement Courses (SEC)	
5	Any one course from the following list of the courses	02	5	Any one course from the following list of the courses	02
3	Core Courses (CC)		3	3 Core Courses (CC)	
6	Commerce (Business Environment) - I	03	6	Business Law (Business Regulatory Framework) - I	03
7	Business Economics - I	03	7	Business Mathematics	03
Total Credits		20		Total Credits	20

*List of Skill Enhancement Courses (SEC) for Semester I (Any One)		**List of Skill Enhancement Courses (SEC) for Semester II (Any One)	
1	Foundation Course- I	1	Foundation Course – II
2	Foundation Course in NSS - I	2	Foundation Course in NSS – II
3	Foundation Course in NCC - I	3	Foundation Course in NCC – II
4	Foundation Course in Physical Education - I	4	Foundation Course in Physical Education – II
Not	Note: Course selected in Semester I will continue in Semester II		

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B.Com. (Accounting & Finance) Programme Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year- 2016-2017)

Semester I

No. of Courses	Semester I	Credits
1	Elective Courses (EC)	
1	Financial Accounting(Elements of Financial Accounting) - I	03
2	Cost Accounting (Introduction and Element of cost) - I	03
3	Financial Management (Introduction to Financial Management) - I	03
2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Course (AECC)	
4	Business Communication - I	03
2B	*Skill Enhancement Courses (SEC)	
5	Any one course from the following list of the courses	02
3	Core Courses (CC)	
6	Commerce (Business Environment) - I	03
7	Business Economics - I	03
	Total Credits	20

	*List of Skill Enhancement Courses (SEC) for Semester I (Any One)		
1	Foundation Course - I		
2	Foundation Course in NSS - I		
3	Foundation Course in NCC - I		
4	Foundation Course in Physical Education - I		

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Revised Syllabus of Courses of B.Com. (Accounting and Finance) Programme at Semester I with Effect from the Academic Year 2016-2017

Elective Courses (EC)

1. Financial Accounting -Elements of Financial Accounting-I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Accounting Standards Issued by ICAI and Inventory Valuation	15
2	Final Accounts	15
3	Departmental Accounts	15
4	Accounting for Hire Purchase	15
	Total	60

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Sr. No.	Modules / Units	
1	Accounting Standards Issued by ICAI and Inventory Valuation	
	 Accounting Standards: Concepts, Benefits, Procedures for Issue of Accounting Standards Various AS: AS – 1: Disclosure of Accounting Policies (a) Purpose (b) Areas of Policies (c) Disclosure of Policies (d)Disclosure of Change in Policies(e) Illustrations AS – 2: Valuation of Inventories (Stock) 	
	Cost for Inventory Valuation Inventory Systems : Periodic Inventory System and Perpetual Inventory System Valuation: Meaning and Importance Methods of Stock Valuation as per AS – 2: FIFO and Weighted Average Method Computation of Valuation of Inventory as on Balance Sheet Date: If Inventory is taken on a Date After the Balance Sheet or Before the Balance Sheet	
2	Final Accounts	
	 Expenditure Capital (b) Revenue Receipts Capital (b) Revenue Capital (b) Revenue Adjustments and Closing Entries Final Accounts of Manufacturing Concerns (Proprietary Firm) 	
3	Departmental Accounts	
	Meaning Basis of Allocation of Expenses and Incomes / Receipts Inter Departmental Transfer: At Cost Price and Invoice Price Stock Reserve Departmental Trading and Profit and Loss Account and Balance Sheet	
4	Accounting for Hire Purchase	
	Meaning Calculation of Interest Accounting for Hire Purchase Transactions by Asset Purchase Method Based on Full Cash Price Journal Entries, Ledger Accounts and Disclosure in Balance Sheet for Hirer and Vendor	

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Revised Syllabus of Courses of B.Com. (Accounting and Finance) Programme at Semester I with Effect from the Academic Year 2016-2017

Elective Courses (EC)

2.Cost Accounting -Introduction and Elementsof Cost-I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Cost Accounting	15
2	Material Cost	15
3	Labour Cost	15
4	Overheads	15
	Total	60

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Sr. No.	Modules / Units
1	Introduction to Cost Accounting
	Evolution Objectives and Scope of Cost Accounting Importance and Advantages of Cost Accounting Difference between Cost Accounting and Financial Accounting Limitations of Financial Accounting Definitions: Cost, Costing and Cost Accounting Classification of Cost on Different Bases Cost Allocation and Apportionment Coding System Essentials of Good Costing System
2	Material Cost
	Material Cost: The Concept Material Control Procedure Documentation Stock Ledger, Bin Card Stock Levels Economic Order Quantity (EOQ)
3	Labour Cost
	Labour Cost: The Concept Composition of Labour Cost Labour Cost Records Overtime / Idle Time / Incentive Schemes
4	Overheads
	Overheads: The Concept Classification of overheads on different bases Apportionment and Absorption of Overheads

Revised Syllabus of Courses of B.Com. (Accounting and Finance) Programme at Semester I with Effect from the Academic Year 2016-2017

Elective Courses (EC)

3. Financial Management -Introduction to Financial Management - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Financial Management	12
2	Concepts in Valuation	12
3	Leverage	12
4	Types of Financing	12
5	Cost of Capital	12
	Total	60

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Sr. No.	Modules / Units
1	Introduction to Financial Management
	Introduction Meaning Importance Scope and Objectives Profit vs Value Maximization
2	Concepts in Valuation
	The Time Value of Money Present Value Internal Rate of Return Bonds Returns The Returns from Stocks Annuity Techniques of Discounting Techniques of Compounding
3	Leverage
	Introduction EBIT & EPS Analysis Types of Leverages: Operating Leverage, Financial Leverage & Composite Leverage Relationship between Operating Leverage and Financial Leverage (Including Practical Problems)
4	Types of Financing
	Introduction Needs of Finance and Sources: Long Term, Medium Term, Short Term Long Term Sources of Finance Short Term Sources of Finance
5	Cost of Capital
	Introduction Definition and Importance of Cost of Capital Measurement of Cost of Capital WACC (Including Practical Problems)

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Revised Syllabus of Courses of B.Com. (Accounting and Finance) Programme at Semester I with Effect from the Academic Year 2016-2017

Ability Enhancement Courses (AEC)

4.

Business Communication-I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Theory of Communication	15
2	Obstacles to Communication in Business World	15
3	Business Correspondence	15
4	Language and Writing Skills	15
	Total	60

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Sr. No.	Modules / Units	
1	Theory of Communication	
1	Theory of CommunicationConcept of Communication: Meaning, Definition, Process, Need, FeedbackEmergence of Communication as a key concept in the Corporate and Global worldImpact of technological advancements on CommunicationChannels and Objectives of Communication: Channels- Formal and Informal- Vertical, Horizontal, Diagonal, GrapevineObjectives of Communication: Information, Advice, Order and Instruction, Persuasion, Motivation, Education,Warning, and Boosting the Morale of Employees(A brief introduction to these objectives to be given)Methods and Modes of Communication: Methods: Verbal and Nonverbal, Characteristics of Verbal Communication Characteristics of Non-verbal Communication, Business Etiquette Modes: Telephone and SMS Communication 3 (General introduction to Telegram	
	to be given) Facsimile Communication [Fax] Computers and E- communication Video and Satellite Conferencing	
2	Obstacles to Communication in Business World	
	Problems in Communication /Barriers to Communication: Physical/ Semantic/Language / Socio-Cultural / Psychological / Barriers, Ways to Overcome these Barriers Listening: Importance of Listening Skills, Cultivating good Listening Skills – 4 Introduction to Business Ethics: Concept and Interpretation, Importance of Business Ethics, Personal Integrity at the workplace, Business Ethics and media, Computer Ethics, Corporate Social Responsibility Teachers can adopt a case study approach and address issues such as the following so as to orient and sensitize the student community to actual business practices: Surrogate Advertising, Patents and Intellectual Property Rights, Dumping of Medical/E-waste, Human Rights Violations and Discrimination on the basis of gender, race, caste, religion, appearance and sexual orientation at the workplace Piracy, Insurance, Child Labour	
3	Business Correspondence	
	 Theory of Business Letter Writing: Parts, Structure, Layouts—Full Block, Modified Block, Semi - Block Principles of Effective Letter Writing, Principles of effective Email Writing, Personnel Correspondence: Statement of Purpose, Job Application Letter and Resume, Letter of Acceptance of Job Offer, Letter of Resignation 	
	[Letter of Appointment, Promotion and Termination, Letter of Recommendation (to be taught but not to be tested in the examination)]	

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Sr. No.	Modules / Units	
4	Language and Writing Skills	
	Commercial Terms used in Business Communication	
	Paragraph Writing:	
	Developing an idea, using appropriate linking devices, etc	
	Cohesion and Coherence, self-editing, etc [Interpretation of technical data,	
	Composition on a given situation, a short informal report etc.]	
	Activities	
	 Listening Comprehension 	
	 Remedial Teaching 	
	 Speaking Skills: Presenting a News Item, Dialogue and Speeches 	
	 Paragraph Writing: Preparation of the first draft, Revision and Self – Editing, 	
	Rules of spelling.	
	 Reading Comprehension: Analysis of texts from the fields of Commerce and 	
	Management	

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Revised Syllabus of Courses of B.Com. (Accounting and Finance) Programme at Semester I with Effect from the Academic Year 2016-2017

Skill Enhancement Courses (SEC)

5.

Foundation Course -I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Overview of Indian Society	05
2	Concept of Disparity- 1	10
3	Concept of Disparity-2	10
4	The Indian Constitution	10
5	Significant Aspects of Political Processes	10
	Total	45

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Sr. No.	Modules / Units	
1	Overview of Indian Society	
	Understand the multi-cultural diversity of Indian society through its demographic composition: population distribution according to religion, caste, and gender; Appreciate the concept of linguistic diversity in relation to the Indian situation; Understand regional variations according to rural, urban and tribal characteristics; Understanding the concept of diversity as difference	
2	Concept of Disparity- 1	
	Understand the concept of disparity as arising out of stratification and inequality; Explore the disparities arising out of gender with special reference to violence against women, female foeticide (declining sex ratio), and portrayal of women in media;Appreciate the inequalities faced by people with disabilities and understand the issues of people with physical and mental disabilities	
3	Concept of Disparity-2	
	Examine inequalities manifested due to the caste system and inter-group conflicts arising thereof; Understand inter-group conflicts arising out of communalism; Examine the causes and effects of conflicts arising out of regionalism and linguistic differences	
4	The Indian Constitution	
	Philosophy of the Constitution as set out in the Preamble; The structure of the Constitution-the Preamble, Main Body and Schedules; Fundamental Duties of the Indian Citizen; tolerance, peace and communal harmony as crucial values in strengthening the social fabric of Indian society; Basic features of the Constitution	
5	Significant Aspects of Political Processes	
	The party system in Indian politics; Local self-government in urban and rural areas; the 73rd and 74th Amendments and their implications for inclusive politics; Role and significance of women in politics	

Revised Syllabus of Courses of B.Com. (Accounting and Finance) Programme at Semester I with Effect from the Academic Year 2016-2017

Skill Enhancement Courses (SEC)

5.Foundation Course in NSS - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to NSS	10
2	Concept of Society and Social Issues in India	15
3	Indian Constitution and Social Justice	10
4	Human Personality and National Integration	10
	Total	45

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Sr. No.	Modules / Units	
1	Introduction to NSS	
	Introduction to National Service Scheme(NSS)	
	Orientation and structure of National Service Scheme(NSS)	
	National Service Scheme(NSS)- its objectives	
	The historical perspective of National Service Scheme(NSS)	
	National Service Scheme(NSS)- Symbol and its meaning	
	National Service Scheme(NSS)- its hierarchy from national to college level	
	National Service Scheme(NSS) Regular activities	
	Distribution of working hours- Association between issues and programs-	
	community project- urban rural activities, Association- modes of activity	
	evaluation	
2	Concept of Society and Social Issues in India	
	History and philosophy of social sciences in India	
	Concept of society- Development of Indian society - Features of Indian Society-	
	Division of labour and cast system in India	
	Basic social issues in India	
	Degeneration of value system, Family system, Gender issues, Regional imbalance	
3	Indian Constitution and Social Justice	
	Indian Constitution	
	Features of Indian Constitution - Provisions related to social integrity and	
	development	
	Social Justice	
	Social Justice- the concept and its features	
	Inclusive growth- the concept and its features	
4	Human Personality and National Integration	
	Dimensions of human personality	
	Social Dimension of Human personality- Understanding of the socity	
	Physical Dimension of Human personality- Physical Exercise, Yoga, etc.	
	National integration & Communal Harmony	
	National Integration- its meaning, importance and practice	
	Communal Harmony- its meaning, importance and practice	

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Skill Enhancement Courses (SEC)

5.Foundation Course in NCC - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to NCC, National Integration & Awareness	10
2	Drill: Foot Drill	10
3	Adventure Training, Environment Awareness and Conservation	10
4	Personality Development and Leadership	10
5	Specialized Subject: Army/ Navy/ Air	05
	Total	45

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Sr. No.	Modules / Units	
1	Introduction to NCC, National Integration & Awareness	
	 Desired outcome: The students will display sense of patriotism, secular values and shall be transformed into motivated youth who will contribute towards nation building through national unity and social cohesion. Genesis, Aims, Objectives of NCC & NCC Song Organisation& Training Incentives & Benefits Religions, Culture, Traditions and Customs of India National Integration: Importance and Necessity Freedom Struggle 	
2	Drill: Foot Drill	
	 Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, turnout, develop the quality of immediate and implicit obedience of orders, with good reflexes. General and Words of Command Attention, Stand at Ease and Stand Easy, Turning and Inclining at the Halt Sizing, Forming Up in Three Ranks and Numbering, Open and Close Order March and Dressing Saluting at the Halt, Getting On Parade, Dismissing and Falling Out Marching, Length of Pace and Time of Marching in Quick Time and Halt, Slow March and Halt Turning on the March and Wheeling. Saluting on the March. Formation of squad and Squad Drill 	
3	Adventure Training, Environment Awareness and Conservation	
	 Adventure Training Desired outcome: The students will overcome fear & inculcate within them the sense of adventure , sportsmanship , espirit-d-corp and develop confidence , courage , determination, diligence and quest for excellence. Any Two such as – Obstacle course, Slithering, Trekking, Cycling, Rock Climbing, Para Sailing, Sailing, Scuba Diving etc Environment Awareness and Conservation Desired outcome: The student will be aware of the conservation of natural resources and protection of environment. Natural Resources – Conservation and Management Water Conservation and Rainwater Harvesting 	

Sr. No.	Modules / Units	
4	Personality Development and Leadership	
	Desired outcome: The student will develop an all-round personality with	
	adequate leadership traits to deal / contribute effectively in life.	
	 Introduction to Personality Development 	
	• Factors Influencing /Shaping Personality: Physical, Social, Physiological,	
	Philosophical and Psychological	
	Self Awareness Know yourself/ Insight	
	Change Your Mind Set	
	Communication Skills: Group Discussion / Lecturettes (Public Speaking)	
	Leadership Traits	
	Types of Leadership	
5	Specialized Subject: Army Or Navy Or Air	
	Army	
	Desired outcome: The training shall instill patriotism, commitment and passion to	
	serve the nation motivating the youth to join the defence forces.	
	It will also acquaint, expose & provide basic knowledge about armed, naval and	
	air-force subjects	
	A. Armed Force Basic organisation of Armod Forces	
	Organisation of Army	
	Badges and Ranks	
	B. Introduction to Infantry and weapons and equipments	
	• Characteristics of 7.62mm SLR Rifle, Ammunition, Fire power, Stripping,	
	Assembling and Cleaning	
	C. Military history	
	Biographies of renowned Generals (Carriapa / Sam Manekshaw)	
	Indian Army War Heroes- PVCs	
	D. Communication	
	 Types of communications Characteristics of Wireless Technologies (Mobile, Wi-Filetc.) 	
	OR	
	<u>Navy</u>	
	A. Naval orientation and service subjects	
	History of the Indian Navy-Pre and Post Independence, Gallantry award wippors	
	Organization of Navy- NHO Commands Elects Shins and shore	
	establishments	
	• Types of Warships and their role	
	Organization of Army and Air Force- Operational and Training commands	
	Ranks of Officers and Sailors, Equivalent Ranks in the Three Services	
	B. Ship and Boat Modelling	
	Principles of Ship Modelling	
	 Maintenance and Care of tools 	

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Sr. No.	Modules / Units
	C. Search and Rescue
	SAR Organization in the Indian ocean
	D. Swimming
	Floating for three minutes and Free style swimming for 50 meters
	OR
	AIR
	A. General Service Knowledge
	Development of Aviation
	History of IAF
	B. Principles of Flight
	Introduction
	Laws of Motion
	Glossary of Terms.
	C. Airmanship
	Introduction
	Airfield Layout
	Rules of the Air
	Circuit Procedure
	ATC/RT Procedures
	Aviation Medicine
	D. Aero- Engines
	Introduction to Aero-engines

Skill Enhancement Courses (SEC)

Foundation Course in Physical Education - I

5.

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Basic Relevant concepts in Physical Education	10
2	Components of Physical Fitness	15
3	Testing Physical Fitness	10
4	Effect of Exercise on various Body System	10
	Total	45

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Sr. No.	Modules / Units	
1	Introduction to Basic Relevant concepts in Physical Education	
	 Dimensions and determinants of Health, Fitness & Wellness Concept of Physical Education and its importance Concept of Physical Fitness and its types Concept of Physical Activity, exercise and its types & benefits 	
2	Components of Physical Fitness	
	 Concept of components of Physical Fitness Concept and components of HRPF Concept and components of SRPF Importance of Physical Education in developing physical fitness components. 	
3	Testing Physical Fitness	
	 Tests for measuring Cardiovascular Endurance Tests for measuring Muscular Strength& Endurance Tests for measuring Flexibility Tests for measuring Body Composition 	
4	Effect of Exercise on various Body System	
	 Effect of exercises on Musculoskeletal system Effect of exercises on Circulatory System Effect of exercises on Respiratory System Effect of exercises on Glandular System 	

Core Courses (CC)

6.Commerce-Business Environment - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Business and its Environment	15
2	Business and Society	15
3	Contemporary Issues	15
4	International Environment	15
	Total	60

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Sr. No.	Modules / Units	
1	Business and its Environment	
	a) Business Objectives, Dynamics of Business and its Environment, Types of	
	Business Environment	
	b) Environmental Analysis: Importance, Factors, PESTEL Analysis, SWOT Analysis	
2	Business and Society	
	a) Business Ethics: Nature and Scope of Ethics, Ethical Dilemmas, Corporate	
	Culture and Ethical Climate	
	b) Development of Business Entrepreneurship: Entrepreneurship and Economic	
	Development, Micro, Small and Medium Enterprises Development (MSMED)	
	Act, 2006, Entrepreneurship as a Career Option	
	c) Consumerism and Consumer Protection: Consumerism in India, Consumer	
	Protection Act 1986	
3	Contemporary Issues	
	a) Corporate Social Responsibility and Corporate Governance: Social	
	Responsibility of Business, Ecology and Business, Carbon Credit	
	b) Social Audit: Evolution of Social Audit, Benefits of Social Audit, Social Audit v/s	
	Commercial Audit	
4	International Environment	
	a) Strategies for going Global: MNCs and TNCs, WTO	
	b) Foreign Trade in India- Balance of Trade, FDI Investment Flows and its	
	Implication for Indian Industries	

Core Courses (CC)

7.Business Economics - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction	10
2	Demand Analysis	10
3	Supply and Production Decisions and Cost of Production	15
4	Market structure: Perfect competition and Monopoly and Pricing and Output Decisions under Imperfect Competition	15
5	Pricing Practices	10
	Total	60

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Sr. No.	Modules / Units	
1	Introduction	
	Scope and Importance of Business Economics - basic tools- Opportunity Cost principle- Incremental and Marginal Concepts. Basic economic relations - functional relations: equations- Total, Average and Marginal relations- use of Marginal analysis in decision making, The basics of market demand, market supply and equilibrium price- shifts in the demand and supply curves and equilibrium	
2	Demand Analysis	
	Demand Function - nature of demand curve under different markets Meaning, significance, types and measurement of elasticity of demand (Price, income cross and promotional)- relationship between elasticity of demand and revenue concepts Demand estimation and forecasting: Meaning and significance - methods of demand estimation : survey and statistical methods (numerical illustrations on trend analysis and simple linear regression)	
3	Supply and Production Decisions and Cost of Production	
4	 Production function: short run analysis with Law of Variable Proportions- Production function with two variable inputs- isoquants, ridge lines and least cost combination of inputs- Long run production function and Laws of Returns to Scale expansion path - Economies and diseconomies of Scale. Cost concepts: Accounting cost and economic cost, implicit and explicit cost, fixed and variable cost - total, average and marginal cost - Cost Output Relationship in the Short Run and Long Run (hypothetical numerical problems to be discussed), LAC and Learning curve - Break even analysis (with business applications) Market structure: Perfect competition and Monopoly and Pricing and Output Decisions under Imperfect Competition Short run and long run equilibrium of a competitive firm and of industry - monopoly - short run and long- run equilibrium of a firm under Monopoly Monopolistic competition:Equilibrium of a firm under monopoly Monopolistic markets: key attributes of oligopoly - Collusive and non collusive oligopoly market - Price rigidity - Cartels and price leadership models 	
5	Pricing Practices	
	Cost oriented pricing methods: cost – plus (full cost) pricing, marginal cost pricing, Mark up pricing, discriminating pricing, multiple – product pricing - transfer pricing (case studies on how pricing methods are used in business world)	

B.Com. (Accounting & Finance) Programme Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year- 2016-2017)

Semester II

No. of Courses	Semester II	Credits
1	Elective Courses (EC)	
1	Financial Accounting(Special Accounting Areas) - II	03
2	Auditing (Introduction and Planning) - I	03
3	Taxation - I (Indirect Taxes I)	03
2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Course (AECC)	
4	Business Communication - II	03
2B	**Skill Enhancement Courses (SEC)	
5	Any one course from the following list of the courses	02
3	Core Courses (CC)	
6	Business Law (Business Regulatory Framework) - I	03
7	Business Mathematics	03
	Total Credits	20

**List of Skill Enhancement Courses (SEC) for Semester II (Any One)	
1	Foundation Course - II
2	Foundation Course in NSS - II
3	Foundation Course in NCC - II
4	Foundation Course in Physical Education - II

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Elective Courses (EC)

1. Financial Accounting -Special Accounting Areas - II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Accounting from Incomplete Records	15
2	Consignment Accounts	15
3	Branch Accounts	15
4	Fire Insurance Claims	15
	Total	60

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Sr. No.	Modules / Units
1	Accounting from Incomplete Records
	Introduction Problems on Preparation of Final Accounts of Proprietary Trading Concern (Conversion Method)
2	Consignment Accounts
	Accounting for Consignment Transactions Valuation of Stock Invoicing of Goods at Higher Price (Excluding Overriding Commission, Normal/Abnormal Losses)
3	Branch Accounts
	Meaning / Classification of Branches Accounting for Dependent Branch Not Maintaining Full Books Debtors Method Stock and Debtors Method
4	Fire Insurance Claims
	Computation of Loss of Stock by Fire Ascertainment of Claim as per the Insurance Policy Exclude: Loss of Profit and Consequential Loss

Elective Courses (EC)

2. Auditing -Introduction and Planning - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Auditing	15
2	Audit Planning, Procedures and Documentation	15
3	Auditing Techniques	15
4	Internal Audit	15
	Total	60

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Sr. No.	Modules / Units		
1	Introduction to Auditing		
	 Basics Financial Statements, Users of Financial Information, Definition of Auditing, Objectives of Auditing - Primary and Secondary, Expression of Opinion, Detection of Frauds and Errors, Inherent Limitations of Audit Errors and Frauds Concepts, Reasons and Circumstances, Types of Errors -Commission, Omission, Principle and Compensating, Types of Frauds, Risk of Fraud and Error in Audit, Auditor's Duties and Responsibilities in Respect of Fraud Principles of Audit Integrity, Objectivity, Independence, Confidentiality, Skills and Competence, Materiality and Work Performed by Others, Documentation, Planning, Audit Evidence, Accounting System and Internal Control, Audit Conclusions and Reporting Types of Audit Meaning, Advantages and Disadvantages of Balance Sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit, Annual Audit Miscellaneous Advantages of Independent Audit, Qualities of Auditors, Auditing Vs Accounting, Auditing Vs Investigation, View the Concept True and Fair 		
2	Audit Planning, Procedures and Documentation		
	 Audit Planning Meaning, Objectives, Factors to be Considered, Sources of Obtaining Information, Discussions with Client, Overall Audit Plan Audit Programme Meaning, Factors to be Considered, Advantages, Disadvantages, Overcoming Disadvantages, Methods of Work, Instruction before Commencing Works of Audit, Overall Audit Approach Audit working Papers Meaning, Importance, Factors Determining Form and Contents, Main Functions 		
	 / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers, Auditors Lien on Client's Books Audit Notebook Meaning, Structure, Contents, General Information, Current Information and Importance 		

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Sr. No.	Modules / Units	
3	Auditing Techniques	
	 Test Check Test Checking Vs Routing Checking, Test Check Meaning, Features, Factors to be Considered, When Test Checks can be Used, Advantages, Disadvantages and Precautions. Audit Sampling Audit Sampling, Meaning, Purpose, Factors in Determining Sample Size - Sampling Risk, Tolerable Error and Expected Error, Methods of Selecting Sample Items Evaluation of Sample Results Auditors Liability in Conducting Audit based on Sample Internal Control Meaning and Purpose, Review of Internal Control, Advantages, Auditors Duties, Review of Internal Control, Inherent Limitations of Internal Control, Internal Control Samples for Sales and Debtors, Purchases and Creditors, Wages and Salaries 	
4	Internal Audit	
	Meaning, Basic Principles of Establishing Internal Audit, Objectives, Evaluation of Internal Audit by Statutory Auditor, Usefulness of Internal Audit Internal Audit Vs External Audit, Internal Checks Vs Internal Audit	

Elective Courses (EC)

3. Taxation -Indirect Taxes - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Maharashtra Value Added Tax (MVAT), Act 2002: Introduction	20
2	Maharashtra Value Added Tax (MVAT), Act 2002: Registration Procedure and Rules: Section 16	10
3	Maharashtra Value Added Tax (MVAT), Act 2002: Audit Section 22 and 61	20
4	Maharashtra Value Added Tax (MVAT), Act 2002: Penalty and Interest	10
	Total	60

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Sr. No.	Modules / Units
1	Maharashtra Value Added Tax (MVAT), Act 2002:
	Introduction
	Definitions
	Section:
	2 (4)Businesses; 2 (8)Dealers; 2 (12) Goods; 2 (13)Importer;
	2 (15)Manufacturer; 2 (20)Purchase Price; 2 (22)Resale; 2 (24)Sales
	2 (25)Sales Price; 2 (27)Service; 2 (33)Turnover of Sales and Rule 3
	Incidence of Levy of Tax
	Sec. 3 Incidence of Tax
	Sec. 4 Tax Payable
	Sec. 5 Tax Not Leviable on Certain Goods
	Sec. 6 Levy of Sales Tax on Goods specified in the Schedule
	Sec. 7 Rate of Tax of Packing Material
	Payment of Tax and Recovery
	Section: 42 - Composition of Tax and Notification 1505/CR-105/Taxation-1
	Set Off. Refund. etc.
	Section 48 and 49 Set Off, Refund etc. Along with Rules 52, 53, 54, 55
2	Maharashtra Value Added Tax (MVAT), Act 2002:
2	Registration Procedure and Rules: Section 16
2	Maharashtra Value Added Tax (MVAT), Act 2002:
5	Audit Section 22 and 61
	Maharashtra Value Added Tax (MVAT), Act 2002:
4	Penalty and Interest

Notes:

- 1. The Syllabus is restricted to Study of Particular Sections, Specifically Mentioned Rules and Notifications Only.
- 2. All Modules / Units include Computational Problems / Case Study.
- 3. The Law in force on 1st April Immediately Preceding the Commencement of Academic Year will be Applicable for Ensuing Examinations.

Ability Enhancement Courses (AEC)

4.

Business Communication - II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Presentation Skills	15
2	Group Communication	15
3	Business Correspondence	15
4	Language and Writing Skills	15
	Total	60

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Sr. No.	Modules / Units		
1	Presentation Skills		
	Presentations:(to be tested in tutorials only) 4 Principles of EffectivePresentationEffective use of OHPEffective use of TransparenciesHow to make a Power-Point Presentation		
2	Group Communication		
	Interviews: Group Discussion Preparing for an Interview, Types of Interviews – Selection, Appraisal, Grievance, Exit Meetings: Need and Importance of Meetings, Conduct of Meeting and Group Dynamics Role of the Chairperson, Role of the Participants, Drafting of Notice, Agenda and Resolutions Conference: Meaning and Importance of Conference Organizing a Conference Modern Methods: Video and Tele – Conferencing Public Relations: Meaning, Functions of PR Department, External and Internal		
3	Business Correspondence		
	 Trade Letters: Order, Credit and Status Enquiry, Collection (just a brie introduction to be given) Only following to be taught in detail:- Letters of Inquiry, Letters of Complaints, Claims, Adjustments Sales Letters promotional leaflets and fliers Consumer Grievance Letters, Letters under Right to Information (RTI) Act [Teachers must provide the students with theoretical constructs wherever necessary in order to create awareness. However students should not be tested on the theory.] 		
4	Language and Writing Skills		
	Reports: Parts, Types, Feasibility Reports, Investigative Reports Summarisation: Identification of main and supporting/sub points Presenting		

Skill Enhancement Courses (SEC)

Foundation Course – II

Modules at a Glance

5.

Sr. No.	Modules	No. of Lectures
1	Globalisation and Indian Society	07
2	Human Rights	10
3	Ecology	10
4	Understanding Stress and Conflict	10
5	Managing Stress and Conflict in Contemporary Society	08
	Total	45

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Sr. No	Modules /Units		
1	Globalisation and Indian Society		
	Understanding the concepts of liberalization, privatization and globalization; Growth of information technology and communication and its impact manifested in everyday life; Impact of globalization on industry: changes in employment and increasing migration; Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.		
2	Human Rights		
	Concept of Human Rights; origin and evolution of the concept; The Universal Declaration of Human Rights; Human Rights constituents with special reference to Fundamental Rights stated in the Constitution		
3	Ecology		
	Importance of Environment Studies in the current developmental context; Understanding concepts of Environment, Ecology and their interconnectedness; Environment as natural capital and connection to quality of human life; Environmental Degradation- causes and impact on human life;Sustainable development- concept and components; poverty and environment		
4	Understanding Stress and Conflict		
	Causes of stress and conflict in individuals and society; Agents of socialization and the role played by them in developing the individual; Significance of values, ethics and prejudices in developing the individual; Stereotyping and prejudice as significant factors in causing conflicts in society. Aggression and violence as the public expression of conflict		
5	Managing Stress and Conflict in Contemporary Society		
	Types of conflicts and use of coping mechanisms for managing individual stress; Maslow's theory of self-actualisation;Different methods of responding to conflicts in society; Conflict-resolution and efforts towards building peace and harmony in society		

Skill Enhancement Courses (SEC)

5. Foundation Course in NSS - II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Socio-economic Survey and Special Camp	10
2	Orientation of the College Unit and Communication Skills	15
3	Rapport with Community and Programme Planning	10
4	Government Organisations /Non-Government Organisations	10
	Total	45

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Sr. No.	Modules / Units
1	Socio-economic Survey and Special Camp
	 Socio economic survey Socio-economic survey- its meaning and need, Process of Socio-economic survey- design of questionnaire; data collection, data analysis and report writing Special camping activity Concept of camp- Identification of community problems- Importance of group living- Team building- Adoption of village- Planning for camp- pre camping, during the course of camp and post camping activities
2	Orientation of the College Unit and Communication Skills
	 Training and orientation of the program unit in the college Leadership training – formation of need based programmmes- Concept of campus to community(C to C) activities Communication skills and Documentation Communication skills- the concept, Verbal, Non-Verbal communication The documentation- Activity Report Writing – basics of NSS accounting – Annual Report – Press note and preparation
3	Rapport with Community and Programme Planning
	 Working with individual group and community Ice breaking- interaction games – conflict resolution Program planning Programme planning- the concept and its features, requirements for successful implementation of program- program flow charting- feedback
4	Government Organisations /Non-Government Organisations
	 Structure of Government Organisations and Non-Government Organisations Government organisations (GO)- its meaning -Legal set up, functioning, Sources of funding Non-Government organisations (NGO)- its meaning -Legal set up, functioning, Sources of funding National Service Scheme(NSS)- Government organisations (GO) and Non-Government organisations (NGO) Government schemes for community development Schemes os Government welfare departments for community development-provisions & examples

Skill Enhancement Courses (SEC)

5.Foundation Course in NCC - II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Disaster Management, Social Awareness and Community Development	10
2	Health and Hygiene	10
3	Drill with Arms	10
4	Weapon Training	10
5	Specialized Subject: Army Or Navy Or Air	05
	Total	45

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Sr. No.	Modules / Units	
1	Disaster Management, Social Awareness and Community Development	
	 Disaster Management: Desired outcome: The student shall gain basic information about civil defence organisation / NDMA & shall provide assistance to civil administration in various types of emergencies during natural / manmade disasters Civil Defence Organisation and Its Duties/ NDMA Types of Emergencies/ Natural Disaster Assistance during Natural / Other Calamities: Flood / Cyclone/ Earth Quake/ Accident etc. 'Avan' model of NCC Social Awareness and Community Development: 	
	 Desired outcome: The student shall have an understanding about social service and its need, about NGOs and shall participate in community action programmes for betterment of the community. Basics of Social Service, Weaker Sections of Our Society and Their Needs Social/ Rural Development Project: MNREGA, SGSY, NSAP etc. Contribution of Youth towards Social Welfare Civic Responsibilities Causes & Prevention of HIV/AIDS; Role of Youth 	
2	Health and Hygiene	
 Desired outcome: The student shall be fully aware about personal health hygiene lead a healthy life style and foster habits of restraint and self awa Structure and Functioning of the Human Body Hygiene and Sanitation (Personal and Food Hygiene) Infectious & Contagious Diseases & Their Prevention 		
3	Drill with Arms	
	 Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, turnout, develop the quality of immediate and implicit obedience of orders, with good reflexes. Attention, Stand at Ease and Stand Easy Getting on Parade with Rifle and Dressing at the Order Dismissing and Falling Out Ground / Take Up Arms Present From the Order and Vice-versa General Salute, Salami Shastra 	
4	Weapon Training	
	 Desired outcome: The student shall have basic knowledge of weapons and their use and handling. Characteristics of a Rifle / Rifle Ammunition and its Fire Power Stripping, Assembling, Care and Cleaning and Sight Setting of .22 rifle Stripping, Assembling, Care and Cleaning of 7.62mm SLR Loading, Cocking and Unloading The lying position, Holding and Aiming- I Trigger control and firing a shot Range procedure and safety precautions Short range firing, Aiming- II -Alteration of sight 	

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Sr. No.	Modules / Units	
5	Specialized Subject: Army Or Navy Or Air	
	 Desired outcome: The training shall instill patriotism, commitment and passion to serve the nation motivating the youth to join the defence forces. It will also acquaint, expose & provide basic knowledge about armed, naval and air-force subjects A. Map reading Introduction to types of Maps and Conventional signs Scales and Grid system Topographical forms and technical terms Relief, contours and Gradients Cardinal points and Types of North Types of bearings and use of Service Protractor Prismatic compass and its use and GPS B. Field Craft and Battle Craft Introduction 	
	 Judging distance Description of ground Recognition, Description and Indication of landmarks and targets 	
	OR	
	 A. Naval Communication Introduction to Naval Modern Communication, Purpose and Principles Introduction of Naval communication Duties of various communication sub-departments Semaphore Introduction of position of letters and prosigns Reading of messages Transmission of messages B. Seamanship Anchor work 	
	 Parts of Anchor and Cable, their identification Rigging Types of ropes and breaking strength- stowing, maintenance and securing of ropes Practical Bends and Hitches: Reef Knot, Half hitch, Clove Hitch, Rolling Hitch, Timber Hitch, Bow Line, Round Turn and Two half hitch and Bow line on the Bight and its basic elements and uses. Introduction to Shackles, Hooks, Blocks and Derricks, Coiling Down and Splicing of rope 	
	 C. Boat work Parts of Boat and Parts of an Oar Instruction on boat Pulling- Pulling orders Steering of boat under oars, Practical instruction on Boat Pulling, Precautions while pulling 	

Sr. No.	Modules / Units
	OR
	Air
	A. Air frames
	Aircraft Controls
	Landing Gear
	B. Instruments
	Basic Flight Instruments
	C. Aircraft Particulars
	 Aircraft Particulars (Type specific)
	D. Aero modelling
	History of Aero modelling
	 Materials used in Aero modelling
	Type of Aero models
	 Flying/ Building of Aero models

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Skill Enhancement Courses (SEC)

Foundation Course in Physical Education - II

5.

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Development of Fitness	10
2	Health, Fitness and Diseases	15
3	Yoga Education	10
4	Daily Schedule of Achieving Quality of Life and Wellness	10
	Total	45

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Sr. No.	Modules / Units	
1	Development of Fitness	
	 Benefits of physical fitness and exercise and principles of physical fitness Calculation of fitness index level 1-4 Waist-hip ratio Target Heart Rate, BMI and types and principles of exercise (FITT) Methods of training – continues. Interval. circuit. Eartlek and Plyometric. 	
2	Health, Fitness and Diseases	
	 Definition of obesity and its management Communicable diseases, their preventive and therapeutic aspectS Factors responsible for communicable diseases Preventive and therapeutic aspect of Communicable and non- communicable diseases 	
3	Yoga Education	
	 Meaning and history of yoga Ashtang yoga and types of yoga Types of Suryanamaskar and Technique of Pranayam Benefits of Yoga 	
4	Daily Schedule of Achieving Quality of Life and Wellness	
	 Daily schedule based upon one's attitude, gender, age &occupation. Basic – module: - Time split for rest, sleep, diet, activity & recreation. Principles to achieve quality of life:- positive attitude, daily regular exercise, control over food habits & healthy hygienic practices. 	

Core Courses (CC)

6. Business Law -Business Regulatory Framework - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Law of Contract 1872	15
2	Sale of Goods Act 1930	15
3	Negotiable Instrument Act 1881	15
4	Consumer Protection Act 1986	15
	Total	60

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Sr. No.	Modules / Units
1	Law of Contract 1872
	(a) Nature of Contract
	(b) Classification of Contracts
	(c) Offer and Acceptance
	(d) Capacity of Parties to Contract
	(e) Free Consents
	(f) Consideration
	(g) Legality of Object
	(h) Agreement DeclaredVoid
	(i) Performance of Contract
	(j) Discharge of Contract
	(k) Remedies for Breach of Contract
	(l) Indemnity
	(m) Guarantee
	(n) Bailment and Pledge
	(o) Agency
2	Sale of Goods Act 1930
	(a) Formation of Contract of Sale
	(b) Goods and their Classifications
	(c) Price, Conditions and Warranties
	(d) Transfer of Properties in Goods
	(e) Performance of Contract of Sales
	(f) Unpaid Seller and his Rights
	(g) Sale by Auction
	(h) Hire Purchase Agreement
3	Negotiable Instrument Act 1881
	(a) Definition of Negotiable Instruments
	(b) Features of Negotiable Instruments
	(c) Promissory Note
	(d) Bill of Exchange and Cheque
	(e) Holder and Holder in due Course
	(f) Crossing of a Cheque
	(g) Types of Crossing
	(h) Dishonour and Discharge of Negotiable Instruments
4	Consumer Protection Act 1986
	(a) Salient Features
	(b) Definition of Consumers
	(c) Deficiency in Service
	(d) Defects in Goods

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Core Courses (CC)

7.Business Mathematics

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Ratio, Proportion and Percentage	15
2	Profit and Loss	15
3	Interest and Annuity	15
4	Shares and Mutual Fund	15
	Total	60

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Sr. No.	Modules / Units	
1	Ratio, Proportion and Percentage	
	Ratio- Definition, Continued ratio, Inverse Ratio,	
	Proportion - Continued proportion, Direct proportion, Inverse proportion,	
	Variation - Inverse variation, Joint variation	
	Percentage- Meaning and computation of percentage	
2	Profit and Loss	
	Terms and formulae, Trade discount, Cash discount, problems involving cost	
	price, selling price, trade discount, cash discount. Introduction to Commission and	
	brokerage – problems on commission and brokerage	
3	Interest and Annuity	
	Simple interest, compound interest,	
	Equated monthly instalments, reducing balance and flat rate of interest	
	Annuity immediate- present value and future value	
	Stated annual rate and effective annual rate	
4	Shares and Mutual Fund	
	Shares- Concept, face value, market value, dividend, Equity shares, preference	
	shares, bonus shares,	
	Mutual Fund- Simple problems on calculation of net income after considering	
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Scheme of Evaluation

The performance of the learners will be evaluated in two Components. One component will be the Internal Assessment component carrying 25% marks and the second component will be the Semester-wise End Examination component carrying 75% marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below:-

A) Internal Assessment: 25 %

Question Paper Pattern

(Internal Assessment- Courses without Practical Courses)

Sr. No.	Particular	Marks					
1	One class test (20 Marks)						
	Match the Column/ Fill in the Blanks/ Multiple Choice Questions (1/2 Mark each)						
	Answer in One or Two Lines (Concept based Questions)	05 Marks					
	(01 Mark each)						
	Answer in Brief (Attempt Any Two of the Three)						
	(05 Marks each)						
2	Active participation in routine class instructional deliveries and	05 Marks					
	overall conduct as a responsible learner, mannerism and						
	articulation and exhibit of leadership qualities in organizing						
	related academic activities						

Question Paper Pattern

(Internal Assessment- Courses with Practical Courses)

Sr. No.	Particular	Marks
1	Semester End Practical Examination (20 Marks)	
	Journal	05 Marks
	Viva	05 Marks
	Laboratory Work	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

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B) Semester End Examination: 75 %

- i) Duration: The examination shall be of 2 ½ Hours duration
- ii) Theory question paper pattern
 - There shall be five questions each of 15 marks.
 - All questions shall be compulsory with internal choice within the questions.
 - Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.
 (Detail question paper pattern has been given separately)

Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 10 out of 25) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 30 Out of 75) separately, to pass the course and minimum of Grade E to pass a particular semester A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

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Question Paper Pattern (Practical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 1/2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Practical Question OR	15 Marks
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question OR	15 Marks
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question OR	15 Marks
Q-4	Full Length Practical Question	15 Marks
Q-5	A) Theory questionsB) Theory questionsOR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks. If the topic demands, instead of practical questions, appropriate theory question may be asked.

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Question Paper Pattern (Theoretical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 1/2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Question <i>OR</i>	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question OR	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question OR	15 Marks
Q-4	Full Length Question	15 Marks
Q-5	 A) Theory questions B) Theory questions OR 	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks.

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Revised Syllabus and Question Paper Pattern of Courses of B.Com. (Accounting and Finance) Programme Second Year Semester III and IV

Under Choice Based Credit, Grading and Semester System

(To be implemented from Academic Year 2017-2018) Board of Studies-in-Accountancy

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B.Com. (Accounting and Finance) Programme Under Choice Based Credit, Grading and Semester System

Course Structure

S.Y.B.Com. (Accounting and Finance)

(To be implemented from Academic Year- 2017-2018)

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2 & 3	*Any three courses from the	09	1,2 & 3	**Any three courses from the	09
	following list of the courses			following list of the courses	
2	Ability Enhancement Courses (A	EC)	2	Ability Enhancement Courses (A	EC)
24	Ability Enhancement Compulsor	у У	24	Ability Enhancement Compulsor	у
24	Course (AECC)		24	Course (AECC)	
4	Information Technology in	03	4	Information Technology in	03
	Accountancy - I			Accountancy - II	
2B	*Skill Enhancement Courses (SEC)		2B	**Skill Enhancement Courses (SEC)	
5	Any one course from the	02	5	Any one course from the	02
	following list of the courses			following list of the courses	
3	Core Courses (CC)		3	Core Courses (CC)	
6	Business Law (Business	03	6	Business Law (Company Law) -	03
	Regulatory Framework) - II			111	
7	Business Economics - II	03	7	Research Methodology in	03
				Accounting and Finance	
	Total Credits	20		Total Credits	20

	*List of Skill Enhancement Courses (SEC)	**List of Skill Enhancement Courses (SEC)		
for Semester III (Any One)			for Semester IV (Any One)	
1	Foundation Course in Commerce (Financial	1	Foundation Course in Management	
	Market Operations) - III		(Introduction to Management) – IV	
2	Foundation Course- Contemporary Issues- III	2	Foundation Course- Contemporary Issues- IV	
3	Foundation Course in NSS - III	3	Foundation Course in NSS – IV	
4	Foundation Course in NCC - III	4	Foundation Course in NCC – IV	
5	Foundation Course in Physical Education - III	5	Foundation Course in Physical Education –IV	

	*List of Elective Courses (EC) for Semester III (Any Three)		**List of Elective Courses (EC) for Semester IV (Any Three)
1	Financial Accounting (Special Accounting Areas) - III	1	Financial Accounting (Special Accounting Areas) – IV
2	Cost Accounting (Methods of Costing) - II	2	Management Accounting (Introduction to Management Accounting)
3	Auditing (Techniques of Auditing and Audit Procedures) - II	3	Auditing – III
4	Taxation - II (Direct Taxes Paper- I)	4	Taxation - III (Direct Taxes- II)
5	Principles & Practices of Banking	5	Wealth Management
No	Note: Course selected in Semester III will continue in Semester IV		

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B.Com. (Accounting and Finance) Programme Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year 2017-2018)

Semester III

No. of Courses	Semester III		
1	Elective Courses (EC) *Any three courses from the following list of the courses	5	
1	Financial Accounting (Special Accounting Areas) - III	03	
2	Cost Accounting (Methods of Costing) - II	03	
3	Auditing (Techniques of Auditing and Audit Procedures) - II	03	
4	Taxation - II (Direct Taxes Paper- I)	03	
5	Principles & Practices of Banking	03	
2	Ability Enhancement Courses (AEC)		
2A	Ability Enhancement Compulsory Course (AECC)		
4	Information Technology in Accountancy - I	03	
2B	*Skill Enhancement Courses (SEC)		
5	Any one course from the following list of the courses	02	
3	Core Courses (CC)		
6	Business Law (Business Regulatory Framework) II	03	
7	Business Economics II	03	
	Total Credits	20	

	*List of Skill Enhancement Courses (SEC) for Semester III (Any One)		
	Jui Semester in (Any One)		
1	Foundation Course in Commerce (Financial Market Operations) - III		
2	Foundation Course- Contemporary Issues- III		
3	Foundation Course in NSS - III		
4	Foundation Course in NCC - III		
5	Foundation Course in Physical Education - III		

1. Elective Courses (EC)

Financial Accounting (Special Accounting Areas) - III

Sr.	Modules	No. of
1	Partnership Final Accounts based on Adjustment of Admission or Retirement / Death of a Partner during the Year	15
2	Piecemeal Distribution of Cash	10
3	Amalgamation of Firms	15
4	Conversion / Sale of a Partnership Firm into a Ltd. Company	10
5	Accounting of Transactions of Foreign Currency	10
	Total	60

Modules at a Glance

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Sr. No.	Modules / Units	
1	Partnership Final Accounts based on Adjustment of Admission or Retirement / Death of a Partner during the Year	
	Simple final accounts questions to demonstrate the effect on final Accounts when a partner is admitted during the year or when partner Retires / dies during the year Allocation of gross profit prior to and after admission / retirement / death when stock on the date of admission / retirement is not given and apportionment of other expenses based on time / Sales/other given basis Ascertainment of gross profit prior to and after admission/retirement / death when stock on the date of admission / retirement is given and apportionment of other expenses based on time / Sales / other given basis Excluding Questions where admission / retirement / death takes place in the same year	
2	Piecemeal Distribution of Cash	
	Excess Capital Method only Asset taken over by a partner Treatment of past profits or past losses in the Balance sheet Contingent liabilities / Realization expenses/amount kept aside for expenses and adjustment of actual Treatment of secured liabilities Treatment of preferential liabilities like Govt. dues / labour dues etc Excluding: Insolvency of partner and Maximum Loss Method	
3	Amalgamation of Firms	
	Realization method only Calculation of purchase consideration Journal/ledger accounts of old firms Preparing Balance sheet of new firm Adjustment of goodwill in the new firm Realignment of capitals in the new firm by current accounts / cash or a combination thereof Excluding : Common transactions between the amalgamating firms	
4	Conversion / Sale of a Partnership Firm into a Ltd. Company	
	Realisation method only Calculation of New Purchase consideration, Journal / Ledger Accounts of old firms. Preparing Balance sheet of new company	
5	Accounting of Transactions of Foreign Currency	
	In relation to purchase and sale of goods, services and assets and loan and credit transactions. Computation and treatment of exchange rate differences	

Note: Relevant Law/Statute/Rules in force and relevant Accounting Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

1. Elective Courses (EC)

Cost Accounting (Methods of Costing) – II

Sr. No.	Modules	No. of Lectures
1	Classification of Costs And Cost Sheets	20
2	Reconciliation of Cost and Financial Accounts	10
3	Contract Costing	15
4	Process Costing	15
	Total	60

Sr. No.	Modules / Units	
1	Classification of Costs and Cost Sheet	
	Classification of costs, Cost of Sales, Cost Centre, Cost Unit, Profit Centre and Investment Centre	
	Problems on preparation of cost sheet & Estimated Cost sheet	
2	Reconciliation of cost and financial accounts	
	Practical problems based on reconciliation of cost and Financial accounts	
3	Contract Costing	
	Progress payments, Retention money, Contract accounts, Accounting for material, Accounting for Tax deducted at source by the contractee, Accounting for plant used in a contract, treatment of profit on incomplete contracts, Contract profit and Balance sheet entries. Escalation clause, practical problems	
4	Process Costing	
	Process loss, Abnormal gains and losses, Joint products and by products. Excluding Equivalent units, Inter-process profit Practical problems Process Costing and joint and by products	

1. Elective Courses (EC)

Auditing (Techniques of Auditing and Audit Procedures) - II

Sr. No.	Modules	No. of Lectures
1	Vouching	15
2	Verification	15
3	Auditing Standards	15
4	Audit of Companies	15
	Total	60

Sr. No.	Modules / Units
1	Vouching
1.1	Audit of Income : Revenue from Sales and Services, Rental Income, Interest & Dividends Income, Royalties Income, Recovery of Bad debts written off, Commission Received
1.2	Audit of Expenditure : Purchases, Salaries & Wages, Rent, Insurance Premium, Telephone expense, Petty cash payment, Advertisement, Travelling Salesmen's Commission, Freight Carriage and Custom Duties
2	Verification
2.1	Audit of assets : Plant & Machinery, Furniture and fixtures, Accounts Receivable, Investments, Inventory, Goodwill, Patent Rights
2.2	Audit of Liabilities: Outstanding Expenses, Accounts Payable, Secured Ioans, Unsecured Loans, Contingent Liabilities, Public Deposits
3	Auditing Standards
3.1	Meaning Procedure of issuing Auditing Standards in India Brief overview of Auditing Standards in India Scope of SAs Significance of the Auditing Standards Responsibility of auditor for auditing standards
3.2	Understanding of following standards SA 200. SA210, SA230, SA240, SA 250, SA300,SA315, SA320, SA505.
4	Audit of Companies
	Qualifications, Disqualifications, Appointments, Reappointment, Removal of auditors. Special auditors Branch auditors Rights and duties of company auditors

Note: Relevant Law/Statute/Rules in force and relevant Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

1. Elective Courses (EC)

Taxation - II (Direct Taxes Paper- I)

Sr. No.	Modules	No. of Lectures
1	Definitions u/s – 2 , Basis of Charge and Exclusions from Total Income	15
2	Heads of Income	15
3	Deductions under Chapter VI – A	15
4	Computation of Total Income	15
	Total	60

Sr. No.	Modules / Units	
1	Definitions u/s – 2, Basis of Charge and Exclusions from Total Income	
	Definitions u/s – 2 : Section 2 –Assessee, Assessment Year, Assessment, Annual value, Business, Capital asset, Income, Person, Previous Year, Transfer Basis of Charge :	
	Income	
	 Exclusions from Total Income: Section 10 – restricted to, Agricultural Income, Sums Received From HUF By Member, Share of Profit from Firm, Casual & Non – Recurring Receipts, Scholarships, Income of Minor Child, Allowance to Members of Parliament and Legislative Assembly. Note -Exemptions related to specific Heads of Income to be covered with 	
2	Relevant Provisions.	
	 Various Heads of Income Salary Income: Section 15 – 17, Including Section 10 relating to House Rent Allowance, Travel Concession, Special Allowance, Gratuity, Pension – Commutation, Leave Encashment, Compensation, Voluntary Retirement, Payment from Provident Fund Income From House Property : Section 22 – 27, Including Section 2 – Annual Value Profits & Gains From Business & Profession : Vocation Section 28-32, 36, 37, 40, 40A, 43B, 44AD, 44ADA & 44AE including.: Section 2 – Business Capital Gains : Section 45, 48, 49, 50, 54 and 55 Income from Other Sources: Section 56 – 59 	
3	Deductions under Chapter VI – A	
	 80 A- Restriction on claim in Chapter VI- A deductions 80 C – Payment of LIC/PF and other eligible investments 80CCC – Contribution to certain Pension Fund 80D – Medical Insurance Premium 80 DD- Maintenance and medical treatment of handicapped dependent 80E – Interest on Educational Loan 80 TTA- Interest on Saving Bank account 80U – Deduction in the case of totally blind or physically handicapped or 	
	mentally retarded resident person	
4	Computation of Total Income	
	Computation of Total Income of Individual and HUF with respect to above heads and deductions	
AL.L. D.		

Note: Relevant Law/Statute/Rules in force and relevant Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

Principles & Practices of Banking

Sr. No.	Modules	No. of Lectures
1	Indian Financial System	15
2	Functions of Banks and related issues	20
3	Banking Technology	15
4	Marketing & Services of Banking	10
	Total	60

Modules at a Glance

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Sr. No.	Modules / Units
1	Indian Financial System
	Indian Financial system – An overview Banking Regulations Introduction to Retail Banking, wholesale banking and International banking Role of money market Debt market, capital market, Forex market & SEBI Mutual funds & Insurance companies & IRDA Factoring, Forfaiting services and off Balance sheet items Risk Management, Introduction of Basel norms CIBIL, Fair Practices code for Debt collection
2	Functions of Banks and related issues
	Banker Customer relationship KYC/AML/CFT norms Bankers special relationship Consumer protection – COPRA, Banking Ombudsman Scheme Payment and collection of cheque and other negotiable instrument Opening Accounts of various types of customers Ancillary services Cash Operations Principles of lending, working capital assessment and credit monitoring Priority sector advances Agricultural finance Micro, Small and Medium Enterprises – MSMED Act, Policy package Government Sponsored schemes –SGSY; SJSRY;PMRY;SLRS Self Help Groups Credit cards, Home loans, Personal Loans & Consumer loans Documentation Different types of charging securities Types of collaterals & their characteristics Non – Performing Assets Financial inclusion
3	Banking Technology
	Payments system & Electronic Banking Data communication and EFT Systems Role of Technology & its impact on Banks
4	Marketing & Services of Banking
	Marketing, Social Marketing Consumer behaviour and Product Pricing, distribution and channel management

Note: Relevant Law/Statute/Rules in force and relevant Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

2A. Ability Enhancement Courses (AEC)

Information Technology in Accountancy - I

Sr. No.	Modules	No. of Lectures
1	Introduction to Computers	10
2	Office Productivity Tools	20
3	Web	10
4	Introduction to Internet and other emerging technologies	10
5	Electronic Commerce	10
	Total	60

Sr. No.	Modules / Units	
1	Introduction to Computers	
	History of Computers Parts of Computers Hardwares: Specifications and Data Storage Management Softwares: Concept of System Software and Applications Networking: Introduction and types of network topologies	
2	Office Productivity Tools	
	 MS Word: Creating, Editing, Formatting and Printing of Documents, Using Tools, Mailmerge and Print Review and Set-up MS Excel: Creating Worksheet, Creating Various Formulae, Creating Charts, Rename and Copy of Worksheets, Using Tools, Printing Review and Set-up Power Point: Create Project Report, Create Slides, Animation, Page Designing, Insert Image, View Page, Print Review and Set-up. Use of Tools In Accounting :- Preparation of vouchers, invoices and reports, Calculation of Interest, Depreciation,TDS, Salary, Taxes, inventory and reconciliation 	
3	Web	
	Use of Various Web Browser Information Searching Tools Downloading Create New email ID Sending Data through email Search engine optimisation	
4	Introduction to Internet and other emerging technologies	
	Introduction – Internet components – electronic commerce – e-commerce applications – Electronic Data Exchange – Extranet – Payment systems – Risks and security considerations – Legal issues – Other emerging technologies	
5	Electronic Commerce	
	Meaning, Advantages and Limitations of E Commerce, The role of Strategy in E Commerce, Value chains in E Commerce, Infrastructure for Electronic Commerce Web Based Tools for Electronic Commerce, Electronic Commerce software, Security Threats to electronic Commerce, Implementing Security for Electronic Commerce, Electronic Payment Systems, Strategies for Marketing, Sales & Promotion Strategies for Purchasing Logistics & Support Activities, Electronic Markets & Communities, Business Plans for Implementing Electronic Commerce.	

2B. Skill Enhancement Courses (SEC)

Foundation Course in Commerce (Financial Market Operations) - III

Sr. No.	Modules	No. of Lectures
1	An Overview of the Financial System	05
2	Financial Markets	15
3	Financial Instruments	10
4	Financial Services	15
	Total	45

Sr. No.	Modules / Units
1	An Overview of the Financial System
	Saving and Investment Money, Inflation and Interest Banking and Non Banking Financial Intermediaries
2	Financial Markets
	Financial Markets: Introduction and meaning, Government Economic Philosophy and Financial Market, Structure of Financial Market in India Capital Market: Introduction and meaning, Concept, Role, Importance, Evolution in India, Primary Market System and Regulations in India, Secondary Market System Bond Market in India Debt Market in India
3	Financial Instruments
	Meaning and types of Financial Instruments Characteristics of Financial Instruments: Liquidity, Maturity, Safety and Yield REPO, TBs, Equities, Bonds, Derivatives, others
4	Financial Services
	Merchant Banking : Managing of Public Equity / Debenture Issues Mobilizing Fixed Deposits, Arranging Inter-corporate Loans, Raising term Finance and Loan Syndication. Other Financial Services: Consumer Finance, Credit Cards, Mutual Funds and Commercial Paper

2B. Skill Enhancement Courses (SEC)

Foundation Course- Contemporary Issues- III

Sr. No.	Modules	No. of Lectures
1	Human Rights Provisions, Violations and Redressal	12
2	Dealing With Environmental Concerns	11
3	Science and Technology I	11
4	Soft Skills for Effective Interpersonal Communication	11
	Total	45

Sr. No.	Modules / Units		
1	Human Rights Violations and Redressal		
	 A. Scheduled Castes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. B. Scheduled tribes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures) C. Women- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures) D. Children- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures) E. People with Disabilities, Minorities, and the Elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms. 		
2	Dealing With Environmental Concerns		
	 A. Concept of Disaster and general effects of Disasters on human life- physical, psychological, economic and social effects. (3 Lectures) B. Some locally relevant case studies of environmental disasters. (2 Lectures) C. Dealing with Disasters - Factors to be considered in Prevention, Mitigation (Relief and Rehabilitation) and disaster Preparedness. (3 Lectures) D. Human Rights issues in addressing disasters- issues related to compensation, equitable and fair distribution of relief and humanitarian approach to resettlement and rehabilitation. (3 Lectures) 		
3	Science and Technology – I		
	 A. Development of Science- the ancient cultures, the Classical era, the Middle Ages, the Renaissance, the Age of Reason and Enlightenment. (3 Lectures) B. Nature of science- its principles and characteristics; Science as empirical, practical, theoretical, validated knowledge. (2 Lectures) C. Science and Superstition- the role of science in exploding myths, blind beliefs and prejudices; Science and scientific temper- scientific temper as a fundamental duty of the Indian citizen. (3 Lectures) D. Science in everyday life- technology, its meaning and role in development; Interrelation and distinction between science and technology. (3 Lectures) 		
4	Soft Skills for Effective Interpersonal Communication		
	Part A (4 Lectures) I) Effective Listening - Importance and Features. II) Verbal and Non-Verbal Communication; Public-Speaking and Presentation Skills. III) Barriers to Effective Communication; Importance of Self-Awareness and Body Language.		
	Part B (4 Lectures)		
	 I) Formal and Informal Communication - Purpose and Types. II) Writing Formal Applications, Statement of Purpose (SOP) and Resume. III) Preparing for Group Discussions, Interviews and Presentations. Part C (3 Lectures) I) Leadership Skills and Self-Improvement - Characteristics of Effective 		
	II) Styles of Leadership and Team-Building.		

References

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- 2. Bajpai, Asha, Child Rights in India, Oxford University Press, New Delhi, 2010.
- 3. Bhatnagar Mamta and Bhatnagar Nitin, *Effective Communication and Soft Skills*, Pearson India, New Delhi, 2011.
- 4. G Subba Rao, Writing Skills for Civil Services Examination, Access Publishing, New Delhi, 2014
- 5. Kaushal, Rachana, *Women and Human Rights in India*, Kaveri Books, New Delhi, 2000.
- 6. Mohapatra, Gaur Krishna Das, *Environmental Ecology*, Vikas, Noida, 2008.
- 7. Motilal, Shashi, and Nanda, Bijoy Lakshmi, *Human Rights: Gender and Environment*, Allied Publishers, New Delhi, 2007.
- 8. Murthy, D. B. N., *Disaster Management: Text and Case Studies*, Deep and Deep Publications, New Delhi, 2013.
- 9. Parsuraman, S., and Unnikrishnan, ed., India Disasters Report II, Oxford, New Delhi, 2013
- 10. Reza, B. K., Disaster Management, Global Publications, New Delhi, 2010.
- 11. Sathe, Satyaranjan P., Judicial Activism in India, Oxford University Press, New Delhi, 2003.
- 12. Singh, Ashok Kumar, *Science and Technology for Civil Service Examination*, Tata McGraw Hill, New Delhi, 2012.
- 13. Thorpe, Edgar, General Studies Paper I Volume V, Pearson, New Delhi, 2017.

Projects / Assignments (for Internal Assessment)

- i. Projects/Assignments should be drawn for the component on Internal Assessment from the topics in **Module 1 to Module 4**.
- ii. Students should be given a list of possible topics at least 3 from each Module at the beginning of the semester.
- iii. The Project/Assignment can take the form of Street-Plays / Power-Point Presentations / Poster Exhibitions and similar other modes of presentation appropriate to the topic.
- iv. Students can work in groups of not more than 8 per topic.
- v. Students must submit a hard / soft copy of the Project / Assignment before appearing for the semester end examination.

QUESTION PAPER PATTERN (Semester III)

The Question Paper Pattern for Semester End Examination shall be as follows:

TOTAL MARKS: 75

DURATION: 150 MINUTES

QUESTION NUMBER	DESCRIPTION	MARKS ASSIGNED
1	 i. Question 1 A will be asked on the meaning / definition of concepts / terms from all Modules. ii. Question 1 B will be asked on the topic of the Project / Assignment done by the student during the Semester iii. In all 8 Questions will be asked out of which 5 have to be attempted. 	 a) Total marks: 15 b) For 1 A, there will be 3 marks for each sub- question. c) For 1 B there will be 15 marks without any break-up.
2	Descriptive Question with internal option (A or B) on Module 1	15
3	Descriptive Question with internal option (A or B) on Module 2	15
4	Descriptive Question with internal option (A or B) on Module 3	15
5	Descriptive Question with internal option (A or B) on Module 4	15

2B. Skill Enhancement Courses (SEC)

Foundation Course in NSS - III

Sr. No.	Modules	No. of Lectures
1	Value System & Gender sensitivity	12
2	Disaster preparedness & Disaster management	10
3	Health, hygiene & Diseases	13
4	Environment & Energy conservation	10
	Total	45
Sr. No.	Modules / Units	
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1	Value System & Gender sensitivity	
	 UNIT - I – Value System Meaning of value, Types of values- human values and social responsibilities- Indian value system- the concepts and its features UNIT - II - Gender sensitivity and woman empowerment Concept of gender- causes behind gender related problems- measures Meaning of woman empowerment- schemes for woman empowerment in India 	
2	Disaster preparedness & Disaster management	
	 UNIT - I - Basics of Disaster preparedness Disaster- its meaning and types Disaster preparedness- its meaning and methods UNIT - II - Disaster management Disaster management- concept- disaster cycle - role of technology in disaster response- role of as first responder – the study of 'Avhan' Model 	
3	Health, hygiene & Diseases	
	 UNIT - I - Health and hygiene Concept of complete health and maintenance of hygiene UNIT - II - Diseases and disorders- preventive campaigning Diseases and disorders- preventive campaigning in Malaria, Tuberculosis, Dengue, Cancer, HIV/AIDS, Diabetes 	
4	Environment & Energy conservation	
	 UNIT - I Environment and Environment enrichment program Environment- meaning, features , issues, conservation of natural resources and sustainability in environment UNIT - II Energy and Energy conservation program Energy- the concept, features- conventional and non- conventional energy Energy conservation- the meaning and importance 	

2B. Skill Enhancement Courses (SEC)

Foundation Course in NCC - III

Sr. No.	Modules	No. of Lectures
1	National Integration & Awareness	10
2	Drill: Foot Drill	10
3	Adventure Training and Environment Awareness and Conservation	05
4	Personality Development and Leadership	10
5	Specialized subject (ARMY)	10
	Total	45

Sr. No.	Modules / Units
1	National Integration & Awareness
	 Desired outcome: The students will display sense of patriotism, secular values and shall be transformed into motivated youth who will contribute towards nation building through national unity and social cohesion. The students shall enrich themselves about the history of our beloved country and will look forward for the solutions based on strengths to the challenges to the country for its development. Freedom Struggle and nationalist movement in India. National interests, Objectives, Threats and Opportunities. Problems/ Challenges of National Integration. Unity in Diversity
2	Drill: Foot Drill
	 Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, turnout, develop the quality of immediate and implicit obedience of orders, with good reflexes. Side pace, pace forward and to the rear Turning on the march and whiling Saluting on the march Marking time, forward march and halt in quick time Changing step Formation of squad and squad drill
3	Adventure Training, Environment Awareness and Conservation
3A	Adventure Training
	 Desired outcome: The students will overcome fear & inculcate within them the sense of adventure, sportsmanship, espirit-d-corp and develop confidence, courage, determination, diligence and quest for excellence. Any Two such as – Obstacle course, Slithering, Trekking, Cycling, Rock Climbing, Para Sailing, Sailing, Scuba Diving etc.
3B	Environment Awareness and Conservation
	 Desired outcome: The student will be made aware of the modern techniques of waste management and pollution control. Waste management Pollution control, water, Air, Noise and Soil
4	Personality Development and Leadership
	 Desired outcome: The student will inculcate officer like qualities with desired ability to take right decisions. Time management Effect of Leadership with historical examples Interview Skills Conflict Motives- Resolution

Sr. No.	Modules / Units
5	Specialized Subject: Army Or Navy Or Air
	 Army Desired outcome: It will acquaint, expose & provide knowledge about Army/ Navy/ Air force and to acquire information about expanse of Armed Forces ,service subjects and important battles A. Armed Force Task and Role of Fighting Arms Modes of Entry to Army Honors and Awards B. Introduction to Infantry and weapons and equipments Characteristics of 5.56mm INSAS Rifle, Ammunition, Fire power, Stripping, Assembling and Cleaning Organization of Infantry Battalion. C. Military history Study of battles of Indo-Pak War 1965,1971 and Kargil War Movies
	 Characteristics of Walkie-Talkies Basic RT Procedure Latest trends and Development (Multi Media, Video Conferencing, IT) OR
	Navy
	 A. Naval orientation and service subjects Organization of Ship- Introduction on Onboard Organization Naval Customs and Traditions Mode of Entry into Indian Navy Branches of the Navy and their functions Naval Campaign (Battle of Atlantic, Pearl Harbour, Falkland War/Fleet Review/ PFR/ IFR)s
	B. Ship and Boat Modelling
	 Types of Models Introduction of Ship Model- Competition Types of Model Prepare in NSC and RDC Care and handling of power-tools used- maintenance and purpose of tools

Sr. No.	Modules / Units
	C. Search and Rescue
	Role of Indian Coast Guard related to SAR
	D. Swimming
	 Floating and Breathing Techniques- Precautions while Swimming
	OR
	AIR
	A. General Service Knowledge
	Organization Of Air Force
	Branches of the IAF.
	B. Principles of Flight
	Venturi Effect
	Aerofoil
	Forces on an Aircraft
	Lift and Drag
	C. Airmanship
	ATC/RT Procedures
	Aviation Medicine
	D. Aero-Engines
	Types of Engines
	Piston Engines
	Jet Engines
	Turboprop Engines

2B. Skill Enhancement Courses (SEC)

Foundation Course in Physical Education - III

Sr. No.	Modules	No. of Lectures
1	Overview of Nutrition	10
2	Evaluation of Health, Fitness and Wellness	10
3	Prevention and Care of Exercise Injuries	10
4	Sports Training	15
	Total	45

Sr. No.	Modules / Units
1	Overview of Nutrition
	 Introduction to nutrition & its principles Role of Nutrition in promotion of health Dietary Guidelines for Good Health Regulation of water in body and factors influencing body temperature.
2	Evaluation of Health, Fitness and Wellness
	 Meaning & Concept of holistic health Evaluating Personal health-basic parameters Evaluating Fitness Activities – Walking & Jogging Myths & mis-conceptions of Personal fitness
3	Prevention and Care of Exercise Injuries
	 Types of Exercise Injuries First Aid- Importance & application in Exercise Injuries Management of Soft tissues injuries Management of bone injuries
4	Sports Training
	 Definition, aims & objectives of Sports training Importance of Sports training Principles of Sports training Drug abuse & its effects

3. Core Courses (CC)

Business Law (Business Regulatory Framework) - II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	The Indian Partnership Act - 1932	30
2	Limited Liability Partnership Act - 2008	10
3	Factories Act - 1948	20
	Total	60

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Sr. No.	Modules / Units
1	The Indian Partnership Act - 1932
	a) Concept of Partnership
	- Partnership and Company
	- Kinds of partnership
	b) Registration and effects of non-registration of Partnership
	c) Rights and Duties of Partners
	d) Authority and Liability of partners
	e) Admission, Retirement and Expulsion of Partner
	f) Dissolution of Partnership
2	Limited Liability Partnership Act – 2008
	a)Nature of Limited Liability Partnership
	b)Incorporation of Limited Liability Partnership
	d)Contributions
	e)Conversion Into Limited Liability Partnership
	f)Winding Up and Dissolution
3	Factories Act – 1948
	a) Definitions
	 Section 2 (k) – Manufacturing Process,
	 Section2 (I) –Workers
	• Section 2 (m)– Factory
	b) Provisions pertaining to
	I. Health-Section 11 to Section 20
	iii. Welfare- Section 42 to Section 49

Note: Relevant Law/ Statute/ Rules in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

3. Core Courses (CC)

Business Economics - II

Sr. No.	Modules	No. of Lectures
1	Overview of Macroeconomics	10
2	Money, prices and Inflation	10
3	Introduction to Public Finance	10
4	Public revenue, Public Expenditure and Debt	20
5	Fiscal Management and Financial Administration	10
	Total	60

Sr. No.	Modules / Units
1	Overview of Macroeconomics
	Macroeconomics: Meaning, Scope and Importance. Circular flow of aggregate income and expenditure and its Importance- closed and open economy models The Measurement of National Product: Meaning and Importance of National Income Accounting- conventional and Green GNP and NNP concepts -National Income and Economic Welfare. Trade Cycles: Features and Phases Classical Macro economics : Say's law of Markets - Features, Implications and Criticism
2	Money, prices and Inflation
	 Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money Demand for Money : Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money Money and prices : Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach Inflation : Demand Pull Inflation and Cost Push Inflation - Effects of Inflation-Nature of inflation in a developing economy - policy measures to curb inflation-monetary policy and inflation targeting
3	Introduction to Public Finance
	Meaning and Scope of Public finance.Major fiscal functions : allocation function, distribution function & stabilizationfunctionPrinciple of Maximum Social Advantage: Dalton and Musgrave Views - thePrinciple in Practice, Limitations.Relation between Efficiency, Markets and GovernmentsThe concept of Public Goods and the role of Government
4	Public revenue, Public Expenditure and Debt
	Sources of Public Revenue : tax and non-tax revenues Objectives of taxation - Canons of taxation - Types of taxes : direct and indirect - Tax Base and Rates of taxation : proportional, progressive and regressive taxation Shifting of tax burden: Impact and incidence of taxation - Processes- factors influencing incidence of taxation Economic Effects of taxation: on Income and Wealth, Consumption, Savings, Investments and Production. Redistributive and Anti – Inflationary nature of taxation and their implications Public Expenditure: Canons - classification - economic effects of public spending - on production, consumption, distribution, employment and stabilization - Theories of Public Expenditure: Wagner's Hypothesis and Wiseman Peacock Hypothesis - Causes for Public Expenditure Growth. Significance of Public Expenditure: Social security contributions- Low Income
	Public Debt : Classification - Burden of Debt Finance : Internal and External- Public Debt and Fiscal Solvency

5	Fiscal Management and Financial Administration
	Fiscal Policy: Meaning, Objectives, constituents and Limitations.
	Contra cyclical Fiscal Policy and Discretionary Fiscal Policy : Principles of Sound
	and Functional Finance
	Budget- Meaning objectives and types - Structure of Union budget - Deficit
	concepts-Fiscal Responsibility and Budget Management Act.
	Intergovernmental Fiscal Relations : fiscal federalism and fiscal decentralization - central-state financial relations - 14th Finance Commission recommendations

B.Com. (Accounting and Finance) Programme Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year 2017-2018)

Semester IV

No. of Courses	Semester IV	Credits
1	<i>Elective Courses (EC)</i> *Any three courses from the following list of the courses	
1	Financial Accounting (Special Accounting Areas) - IV	03
2	Management Accounting (Introduction to Management Accounting)	03
3	Auditing - III	03
4	Taxation - III (Direct Taxes- II)	03
5	Wealth Management	03
2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Course (AECC)	
4	Information Technology in Accountancy - II	03
2B	**Skill Enhancement Courses (SEC)	
5	Any one course from the following list of the courses	02
3	Core Courses (CC)	
6	Business Law (Company Law) - III	03
7	Research Methodology in Accounting and Finance	03
	Total Credits	20

**List of Skill Enhancement Courses (SEC) for Semester IV (Any One)	
1	Foundation Course in Management (Introduction to Management) - IV
2	Foundation Course – Contemporary Issues - IV
3	Foundation Course in NSS - IV
4	Foundation Course in NCC - IV
5	Foundation Course in Physical Education - IV
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1. Elective Courses (EC)

Financial Accounting (Special Accounting Areas) - IV

Sr. No.	Modules	No. of Lectures
1	Preparation of Final Accounts of Companies.	15
2	Redemption of Preference Shares	10
3	Redemption of Debentures	15
4	Ascertainment and Treatment of Profit Prior to Incorporation	10
5	Foreign Branch	10
	Total	60

Modules at a Glance

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Sr. No.	Modules / Units	
1	Preparation of Final Accounts of Companies	
	Relevant provisions of Companies Act related to preparation of Final Account (excluding cash flow statement) Preparation of financial statements as per Companies Act. (excluding cash flow statement) AS 1 in relation to final accounts of companies (disclosure of accounting policies)	
2	Redemption of Preference Shares	
	 Provision of the Companies Act for redemption of Preference Shares (Sec 55 of the Companies Act, 2013), Companies (Share and Debentures) Rules. Methods of Redemption of fully paid up Preference Shares as per Companies Act, 2013: The proceed of a fresh issue of shares, the capitalisation of undistributed profits and a combination of both, calculation of minimum fresh issue to provide the fund for redemption, (Question on entries and/or Balance Sheet) Note: Companies governed by Section 133 of the Companies Act, 2013 and comply with the accounting standards prescribed for them. Hence, the balance in security premium account not to be utilised for premium payable on redemption 	
3	Redemption of Debentures	
	Introduction : Provisions of Section 71 (1) and (4) of the Companies Act, 2013, Creation and investment of DRR including The Companies (Share Capital and Debentures) Rules, 2014, the methods of writing-off discount/loss on issue of debentures; Terms of issue of debentures Methods of redemption of debentures: By payment in lumpsum and by payment in instalments (excluding from by purchase in open market), Conversion. (Question on entries. ledgers and/or Balance Sheet and /or redemption of preference shares)	
4	Ascertainment and Treatment of Profit Prior to Incorporation	
	Principles for ascertainment Preparation of separate, combined and columnar Profit and Loss Account including different basis of allocation of expenses/ incomes	
5	Foreign Branch	
	Conversion as per AS 11 and incorporation in HO accounts	

1. Elective Courses (EC)

Management Accounting (Introduction to Management Accounting)

Sr. No.	Modules	No. of Lectures
1	Introduction to Management Accounting	05
2	Analysis and Interpretation of Accounts	10
2	Financial Statement analysis: Ratio analysis	15
3	Cash Flow Analysis	15
4	Working Capital Management	15
	Total	60

Sr. No.	Modules / Units
1	Introduction to Management Accounting
	Meaning, Features, Scope, Importance, Functions, role of Management Accounting, Management Accounting Framework, Tools, Management Accounting and Financial Accounting
2	Analysis and Interpretation of Accounts
	 a) Vertical Forms of Balance Sheet and Profit and Loss Account suitable for analysis b) Trend Analysis. c) Comparative Statement. d) Common Size Statement. NOTE: Practical Problems based on the above (a) to (d)
3	Financial Statement analysis: Ratio analysis
	Meaning of financial Statement Analysis, steps, Objective and types of Analysis. Ratio analysis: Meaning, classification, Du Point Chart, advantages and Limitations. Balance Sheet Ratios: i) Current Ratio ii) Liquid Ratio iii) Stock Working Capital Ratio iv) Proprietary Ratio v) Debt Equity Ratio v) Debt Equity Ratio Revenue Statement Ratios: i) Gross Profit Ratio iii) Expenses Ratio iii) Operating Ratio iv) Net Profit Ratio v) Net Operating Profit Ratio v) Net Operating Profit Ratio v) Net Operating Profit Ratio vi) Stock Turnover Ratio Combined Ratio i) Return on Capital employed (Including Long Term Borrowings) ii) Return on proprietor's Fund (Shareholders Fund and Preference Capital) iii) Dividend Payout Ratio v) Debt Service Ratio vi) Debtors Turnover
4	Cash Flow Analysis
	Preparation of Cash Flow Statement with reference to Accounting Standard No .3. (Indirect method only))
5	Working Capital Management
	 A. Concept, Nature of Working Capital , Planning of Working Capital B. Estimation / Projection of Working Capital Requirement in case of Trading and Manufacturing Organization C. Operating Cycle Practical Problems

1. Elective Courses (EC)

Auditing - III

Sr. No.	Modules	No. of Lectures
1	Audit Report	15
2	Audit under Computerized Information System Environment	15
3	Professional Ethics	15
4	Investigation and Due Diligence	15
	Total	60

Sr. No.	Modules / Units
1	Audit Report
	Reporting requirement under the Companies Act Qualifications in Audit Report, Disclaimers in Audit Report Adverse Opinion, Disclosures, Reports & Certificate
2	Audit under Computerized Information System Environment
	Special aspects of CIS Audit Environment , Need for review of internal control especially procedure controls and facility controls Approach to audit in CIS environment Use of computer for internal and management audit purposes Audit tools, test packs, computerized audit programmes Special aspects in Audit of E-Commerce Transaction.
3	Professional Ethics
	Code of Ethics with special reference to the relevant provisions of The Chartered Accountant Act and the Regulations thereunder The Chartered Accountant Act Schedules Members who are deemed to be in Practice Significance of the Certificate of Practice Disabilities for purpose of Membership Disciplinary Procedure Professional Misconduct
4	Investigation and Due Diligence
	Introduction Auditing and Investigation Steps in Investigation Special aspects in connection with Business Investigation Types of Investigation (only introduction) Meaning of Due Diligence Purpose of Due Diligence

Note: Relevant Law/Statute/Rules in force in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

1. Elective Courses (EC)

Taxation - III (Direct Taxes- II)

Sr. No.	Modules	No. of Lectures
1	Clubbing of Income	05
2	Set Off & Carry Forward of Losses	05
3	Computation of Tax liability of Individual & HUF	05
4	Computation of Income of Partnership Firm in Relation to Sec: 40(b) & Tax Thereon With Applicable Rate of Tax	15
5	Return of Income – Sec 139	05
6	Tax Deduction at Source Advance Tax Interest Payable	15
7	DTAA U/S 90 & 91	05
8	Tax Planning & Ethics in Taxation	05
	Total	60

Sr. No.	Modules/ Units
1	Clubbing of Income - Section 60 to 65
2	Set Off & Carry Forward of Losses
	Sec: 70 – Set off Loss from one Source against Income from another Source under the Same Head of Income Sec: 71 – Set Off Loss from One Head against Income of another Head Sec: 71B – Carry Forward & Set off Losses from House Property Sec: 72 – Carry Forward & Set Off of Losses of Business Losses Sec: 73- Losses in Speculation Business Sec: 74- Loss under the head Capital Gains
3	Computation of Tax liability of Individual & HUF
4	Computation of Income of Partnership Firm in Relation to Sec: 40(b) & Tax Thereon With Applicable Rate of Tax
5	Return of Income – Sec 139
	Excluding u/s 139(4A), 139(4B), 139(4C) & 139 (4D)
6	Tax Deduction at Source Advance Tax U/S 207, 208, 209, 210 & 211 Interest Payable U/S 234A, 234B, 234C
	Basic Aspects of Deduction of Taxes at SourceSec: 192 – TDS on SalarySec: 194A – TDS on InterestSec: 194C – TDS on ContractorSec: 194H – TDS on CommissionSec: 194I – TDS on RentSec: 194J – TDS on Professional FeesAdvance Tax U/S 207, 208, 209, 210 & 211Sec: 207 – Income Liable to Advance TaxSec: 208 – Liability of Advance TaxSec: 209 – Computation of Advance TaxSec: 210 – Payment of Advance Tax by Assessee on His Own AccountSec: 211 – Due Dates of Payment of Advance TaxSec: 234A – Interest for default in furnishing return of incomeSec: 234E – Interest for default in payment of advance taxSec: 234C – Interest for default in payment of advance tax
7	DTAA U/S 90 & 91
8	Tax Planning & Ethics in Taxation – Basic Concepts
Noto	

- 1. Relevant Law / Statute in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuing examinations after relevant year.
- 2. The syllabus is restricted to study of particular section/s, specifically mentioned rules and notifications only.

Elective Courses (EC)

Wealth Management

1.

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Wealth Management	10
2	Important Numerical Concepts	20
3	Wealth Management Process	15
4	Operational Aspects of Wealth Management	15
	Total	60

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Sr. No.	Modules / Units
1	Introduction to Wealth Management
	Definition Wealth management and its evolution Wealth management process and phases Nature and structure of Primary and Secondary capital market Comparison between various options for investing and Risk & return analysis Role of Wealth Manager : Obligation and Responsibilities of wealth manager Qualification , Capital requirement, certification to become investment advisor Code of conduct and ethics in providing financial advice
2	Important Numerical Concepts
	Simple interest, Compound interest, Discounted cash flow and installment calculation Correlation, Standard deviation, covariance & Beta of portfolio Share valuation Bond valuation
3	Wealth Management Process
	Developing a Wealth Management Plan Essentials of a Comprehensive Wealth Plan Analysis of Different financial Products for investment Risk profiling of the client Portfolio construction Modern Portfolio Theory for constructing a portfolio
4	Operational Aspects of wealth management
	Types of investors PAN and KYC process Dematerialization and rematerialization of securities Power of Attorney Account opening Process of Non Resident Documentation of financial advisor

2A. Ability Enhancement Courses (AEC)

Information Technology in Accountancy - II

Sr. No.	Modules	No. of Lectures
1	Business Process	15
2	Computerized accounting system	20
3	Concept of MIS Reports in Computer Environment	15
4	IT and Auditing	10
	Total	60

Sr. No.	Modules / Units	
1	Business Process	
	 Introduction, Definition and Meaning of business process Flow of business process for accounting, purchase, sales and finance Classification of business processes Introduction, Definition and Meaning of Business Process Management Principles and practices of Business Process Management Business Process Management life cycle Theories of Business Management Process Implementation of Business process Management – need, key factors and importance Automation of business Processes – benefits, risks, challenges Accounting systems automation IT and Business Process Management 	
2	Computerized accounting system	
	Introduction and meaning Uses and Benefits Role Need and requirements of computerized accounting Basic requirements of computerized accounting system Limitations of computerized accounting system Understand the development and design of a computerized accounting system; determining how the accounting data will be processed, i.e. what accounts and books are needed and what is the desired output i.e. financial reports and other reports. Accounting Software Introduction and meaning Advantages of accounting software Uses of Accounting softwares Various accounting softwares Accounting software TALLY – Accounting and reports	
3	Concept of MIS Reports in Computer Environment	
	Introduction Concept of MIS Need for MIS Characteristic of MIS Outputs of MIS Role of MIS Guidelines for Developing MIS reports Functional Aspects of the MIS: Problems in MIS Knowledge required for studying MIS MIS and Computer	
4	IT and Auditing	
	Need and importance of IT in auditing Auditing in IT environment	

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2B. Skill Enhancement Courses (SEC)

Foundation Course in Management (Introduction to Management) - IV

Sr. No.	Modules	No. of Lectures
1	Introduction to Basic Management Concepts	05
2	Planning	10
3	Organising	10
4	Staffing	10
5	Directing and Controlling	10
	Total	45

Sr. No.	Modules / Units
1	Introduction to Basic Management Concepts
	Introduction to Management, Definition of Management Nature of Management Objectives of Management Administration vs Management Levels of Management Principles of Management
2	Planning
	Definition and Importance of Planning Process of Planning Limitations of Planning Features of Sound Planning Features and process of decision making
3	Organising
	Definition, nature and significance Process of organisation Principles of organisation Formal and Informal organisation - features, advantages and disadvantages Centralisation and decentralisation – factors, merits and demerits Departmentation and Delegation
4	Staffing
	Meaning, Importance of Staffing Recruitment and its sources Selection procedure Distinction between Recruitment and Selection Employment tests and types of Interview
5	Directing and Controlling
	Meaning and Importance of directing Principles of Directing Leadership trails and Styles Motivation – Importance and Factors Co-ordination – Meaning, features and Importance Meaning and steps in controlling Essentials of a good control system

2B. Skill Enhancement Courses (SEC)

Foundation Course- Contemporary Issues- IV

Sr. No.	Modules	No. of Lectures
1	Significant, Contemporary Rights of Citizens	12
2	Approaches to understanding Ecology	11
3	Science and Technology –II	11
4	Introduction to Competitive Exams	11
	Total	45

Sr. No.	Modules / Units	
1	Significant, Contemporary Rights of Citizens	
	A. Rights of Consumers-Violations of consumer rights and important provisions of the Consumer Protection Act, 2016; Other important laws to protect consumers; Consumer courts and consumer movements. (3 Lectures)	
	В.	Right to Information-Genesis and relation with transparency andaccountability; important provisions of the Right to Information Act, 2005;some success stories.(3 Lectures)
	C.	Protection of Citizens'/Public Interest-Public Interest Litigation, need and procedure to file a PIL; some landmark cases.(3 Lectures)
	D.	Citizens' Charters, Public Service Guarantee Acts. (3 Lectures)
2	Ар	proaches to understanding Ecology
	Α.	Understanding approaches to ecology- Eco centrism, Ecofeminism and Deep Ecology.Biocentrism and (3 Lectures)
	В.	Environmental Principles-1: the sustainability principle; the polluter paysprinciple; the precautionary principle.(4 Lectures)
	C.	Environmental Principles-2: the equity principle; human rights principles;the participation principle.(4 Lectures)
3	Sci	ence and Technology–II
	Par i.	t A:Some Significant Modern Technologies, Features and Applications (7 Lectures) Laser Technology- Light Amplification by Stimulated Emission of Radiation; use of laser in remote sensing, GIS/GPS mapping, medical use.
	ii.	Satellite Technology - various uses in satellite navigation systems, GPS, and imprecise climate and weather analyses.
	iii. Information and Communication Technology- convergence of various technologies like satellite, computer and digital in the information revolution of today's society.	
	iv.	Biotechnology and Genetic engineering - applied biology and uses in medicine, pharmaceuticals and agriculture; genetically modified plant, animal and human life.
	v.	Nanotechnology - definition: the study, control and application of phenomena and materials at length scales below 100 nm; uses in medicine, military intelligence and consumer products.
	Part B:Issues of Control, Access and Misuse of Technology. (4 Lectures)	

Sr. No.		Modules / Units
4	Introduction to Competitive Exams	
	Part A. Basic information on Competitive Examinations- the pattern, eligibility criteria and local centres:	
	i.	Examinations conducted for entry into professional courses - Graduate Record Examinations (GRE), Graduate Management Admission Test GMAT), Common Admission Test (CAT) and Scholastic Aptitude Test (SAT).
	ii.	Examinations conducted for entry into jobs by Union Public Service Commission, Staff Selection Commission (SSC), State Public Service Commissions, Banking and Insurance sectors, and the National and State Eligibility Tests (NET / SET) for entry into teaching profession.
	Part B	. Soft skills required for competitive examinations- (7 Lectures)
	i.	Information on areas tested: Quantitative Ability, Data Interpretation, Verbal Ability and Logical Reasoning, Creativity and Lateral Thinking
	ii.	Motivation: Concept, Theories and Types of Motivation
	iii.	Goal-Setting: Types of Goals, SMART Goals, Stephen Covey's concept of human endowment
	iv.	Time Management: Effective Strategies for Time Management
	v.	Writing Skills: Paragraph Writing, Report Writing, Filing an application under the RTI Act, Consumer Grievance Letter.

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- 2. Bajpai, Asha, Child Rights in India, Oxford University Press, New Delhi, 2010.
- 3. Bhatnagar Mamta and Bhatnagar Nitin, *Effective Communication and Soft Skills*, Pearson India, New Delhi, 2011.
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- 5. Kaushal, Rachana, *Women and Human Rights in India*, Kaveri Books, New Delhi, 2000.
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- 8. Murthy, D. B. N., *Disaster Management: Text and Case Studies*, Deep and Deep Publications, New Delhi, 2013.
- 9. Parsuraman, S., and Unnikrishnan, ed., India Disasters Report II, Oxford, New Delhi, 2013
- 10. Reza, B. K., Disaster Management, Global Publications, New Delhi, 2010.
- 11. Sathe, Satyaranjan P., Judicial Activism in India, Oxford University Press, New Delhi, 2003.
- 12. Singh, Ashok Kumar, *Science and Technology for Civil Service Examination*, Tata McGraw Hill, New Delhi, 2012.
- 13. Thorpe, Edgar, General Studies Paper I Volume V, Pearson, New Delhi, 2017.

Projects / Assignments (for Internal Assessment)

- i. Projects/Assignments should be drawn for the component on Internal Assessment from the topics in **Module 1 to Module 4**.
- ii. Students should be given a list of possible topics at least 3 from each Module at the beginning of the semester.
- iii. The Project/Assignment can take the form of Street-Plays / Power-Point Presentations / Poster Exhibitions and similar other modes of presentation appropriate to the topic.
- iv. Students can work in groups of not more than 8 per topic.
- v. Students must submit a hard / soft copy of the Project / Assignment before appearing for the semester end examination.

QUESTION PAPER PATTERN (Semester III)

The Question Paper Pattern for Semester End Examination shall be as follows:

TOTAL MARKS: 75

DURATION: 150 MINUTES

QUESTION NUMBER	DESCRIPTION	MARKS ASSIGNED
1	 i. Question 1 A will be asked on the meaning / definition of concepts / terms from all Modules. ii. Question 1 B will be asked on the topic of the Project / Assignment done by the student during the Semester iii. In all 8 Questions will be asked out of which 5 have to be attempted 	 a) Total marks: 15 b) For 1 A, there will be 3 marks for each sub-question. c) For 1 B there will be 15 marks without any break-up.
2	Descriptive Question with internal option (A or B)	15
_	on Module 1	
3	Descriptive Question with internal option (A or B) on Module 2	15
4	Descriptive Question with internal option (A or B) on Module 3	15
5	Descriptive Question with internal option (A or B) on Module 4	15

2B. Skill Enhancement Courses (SEC)

Foundation Course in NSS - IV

Sr. No.	Modules	No. of Lectures
1	Entrepreneurship Development	10
2	Rural Resource Mobilization	10
3	Ideal village & stake of GOS and NGO	13
4	Institutional Social Responsibility and modes of Awareness	12
	Total	45

Sr. No.	Modules / Units
1	Entrepreneurship Development
	 UNIT - I Entrepreneurship development Entrepreneurship development- its meaning and schemes Government and self-employment schemes for Entrepreneurship development UNIT - II - Cottage Industry Cottage Industry- its meaning, its role in development process Marketing of cottage products and outlets
2	Rural Resource Mobilization
	UNIT - I - Rural resource mobilization- A case study of eco-village, eco-tourism, agro-tourism UNIT - II - Micro financing with special reference to self-help groups
3	Ideal village & stake of GOS and NGO
	UNIT - I - Ideal village Ideal village- the concept Gandhian Concept of Ideal village Case studies on Ideal village UNIT - II - Government Organisations(GOs) and Non-Government Organisations (NGOs) The concept and functioning
4	Institutional Social Responsibility and modes of Awareness
	 UNIT - I - Institutional Social Responsibilities Concept and functioning- case study of adapted village UNIT - II - Modes of awareness through fine Arts Skills Basics of performing Arts as tool for social awareness, street play, creative dance, patriotic song, folk songs and folk dance. Rangoli, posters, flip charts, placards, etc.

2B. Skill Enhancement Courses (SEC)

Foundation Course in NCC - IV

Sr. No.	Modules	No. of Lectures
1	Disaster Management, Social Awareness and Community Development	10
2	Health and Hygiene	10
3	Drill with Arms	05
4	Weapon Training	10
5	Specialized Subject: Army Or Navy Or Air	10
	Total	45

Sr. No.	Modules / Units			
1	Disaster Management, Social Awareness and Community Development			
	 Disaster Management: Desired outcome: The student shall gain basic information about civil defence organisation / NDMA & shall provide assistance to civil administration in various types of emergencies during natural / manmade disasters Fire Services & Fire fighting Assistance during Natural / Other Calamities: Flood / Cyclone/ Earth Quake/ Accident etc. Social Awareness and Community Development: Desired outcome: The student shall have an understanding about social evils and shall inculcate sense of whistle blowing against such evils and ways to eradicate such evils. NGOs: Role & Contribution Drug Abuse & Trafficking 			
	 Corruption Social Evil viz. Dowry/ Female Foeticide/Child Abuse & trafficking etc. Traffic Control Org. & Anti drunken Driving 			
2	Health and Hygiene			
	 Desired outcome: The student shall be fully aware about personal health and hygiene lead a healthy life style and foster habits of restraint and self awareness. Hygiene and Sanitation (Personal and Food Hygiene) Basics of Home Nursing & First-Aid in common medical emergencies Wound & Fractures 			
3	Drill with Arms			
	 Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, and turnout, and develop the quality of immediate and implicit obedience of orders, with good reflexes. Getting on Parade with Rifle and Dressing at the Order Dismissing and Falling Out General Salute, Salami Shastra Squad Drill Short/Long tail from the order and vice-versa Examine Arms 			
4	Weapon Training			
	 Desired outcome: The student shall have basic knowledge of weapons and their use and handling. The lying position, Holding and Aiming- I Trigger control and firing a shot Range procedure and safety precautions Theory of Group and Snap Shooting Short range firing, Aiming- II -Alteration of sight 			
Sr. No.	Modules / Units			
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5	Specialized Subject: Army Or Navy Or Air			
	 Army Desired outcome: The training shall instill patriotism, commitment and passion to serve the nation motivating the youth to join the defence forces. It will also acquaint, expose & provide basic knowledge about armed, naval and air-force subjects A. Map reading Setting a Map, finding North and own position Map to ground, Ground to Map Point to Point March B. Field Craft and Battle Craft Observation, Camouflage and Concealment Field Signals Types of Knots and Lashing C. Introduction to advanced weapons and role of technology (To be covered by 			
	the guest lecturers)			
	OR			
	 A. Naval Communication Semaphore Phonetic Alphabets Radio Telephony Procedure Wearing of National Flag. Ensign and Admiral's Flag. 			
	 B. Seamanship Anchor work Types of Anchor, Purpose and Holding ground Boat work 			
	 Demonstrate Rigging a whaler and enterprise boat- Parts of Sail and Sailing Terms Instructions in Enterprise Class Board including theory of Sailing, Elementary Sailing Tools Types of Power Boats Used in the Navy and their uses, Knowledge of Anchoring, Securing and Towing a Boat 			
	C. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)			

Sr. No.	Modules / Units
	OR
	Air
	A. Air frames
	Fuselage
	Main and Tail Plain
	B. Instruments
	Introduction to RADAR
	C. Aero modelling
	 Flying/ Building of Aero models
	D. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)

2B. Skill Enhancement Courses (SEC)

Foundation Course in Physical Education - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Stress Management	10
2	Awards, Scholarship & Government Schemes	10
3	Yoga Education	10
4	Exercise Scheduling/Prescription	15
	Total	45

Sr. No.	Modules / Units
1	Stress Management
	 Meaning & concept of Stress Causes of Stress Managing Stress Coping Strategies
2	Awards, Scholarship & Government Schemes
	 State & National level Sports Awards State Sports Policy & Scholarship Schemes National Sports Policy & Scholarship Schemes Prominent Sports Personalities
3	Yoga Education
	 Differences between Yogic Exercises & non- Yogic exercises Contribution of Yoga to Sports Principles of Asanas & Bandha Misconceptions about Yoga
4	Exercise Scheduling/Prescription
	 Daily Routine Prescription. Understanding Activity level & Calorie requirement. Adherence & Motivation for exercise. Impact of Lifestyle on Health

3. Core Courses (CC)

Business Law (Company Law) - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Definitions	10
2	Incorporation of companies	20
3	Public Offer	10
4	Private Placement	10
5	Share Capital and Debentures	10
	Total	60

Sr. No.	Modules / Units
1	Definitions
	Section 2 Clause (2) – Accounting Standard Clause (7) – Auditing Standard Clause (13) – Books of Accounts Clause (31) – Deposit Clause (41) – Financial Year Clause (42) – Foreign Company Clause (47) – Independent Director Clause (48) – Indian Depository Receipts Clause (62) – One Person Company
2	Clause (85) – Small Company
	Section 3 to Section 20
3	Public Offer
	Sections 23, 25 to 28, 33, 35, 39
4	Private Placement
	Section 42
5	Share Capital and Debentures
	Sections 43, 46, 47, 52 to 56, 61 to 72

Note: Relevant Law/Statute/Rules in force in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

3. Core Courses (CC)

Research Methodology in Accounting and Finance

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Research	15
2	Research Design in Accounting and Finance	15
3	Data Collection and Processing	15
4	Interpretation and Report Writing	15
	Total	60

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Sr. No.	Modules / Units		
1	Introduction to Research		
	Introduction and meaning of research, Objectives of research, Features and Importance of research in Accounting and Finance, Objectives and Types of research - Basic, Applied, Descriptive, Analytical and Empirical Research. Formulation of research problem : Meaning and Selection Review of Literature		
2	Research Design in Accounting and Finance		
	Meaning of Introduction, Need, and Good research design. Hypothesis: Formulation, Sources, Importance and Types Different Research designs		
3	Data Collection and Processing		
	Data Collection: Introduction and meaning, types of data Primary data: Observation, Experimentation, Interview, Schedules, Survey, Questionnaires, Limitations of Primary data Secondary data: Sources and Limitations Factors affecting the choice of method of data collection. Sampling: Significance, Methods, Factors determining sample size Data Presentation: Significance in Research, Stages in Data Processing: Editing, Coding, Classification, Tabulation, Graphic Presentation Statistical Analysis: Tools and Techniques, Measures of Central Tendency, Measures of Dispersion, Correlation Analysis and Regression Analysis. Use of computer and internet in data collection and processing		
4	Interpretation and Report Writing		
	Meaning and techniques of interpretation, Research Report Writing: Importance, Essentials, Structure/ layout, Types		

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- Fundamentals of auditing by Kamal Gupta and Ashok Arora published by Tata McGraw Hills
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- Practical Auditing by S V Ghatalia published by Spicer & Pegler

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Taxation II (Direct Taxes – I)

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- Systematic Approach to Direct Tax by Ahuja & Gupta Bharat Law House
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- Direct Tax Laws by T.N. Manoharan Snow White

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- Money Banking And Finance Paperback 2009 by N K Sinha
- Principles and Practices of Banking Paperback 2015 by IIBF (Indian Institute of Banking and Finance)
- Principles and Practices of Banking 11 edition Paperback 2015 by N S Toor, Arun Deep Toor
- Principles Of Banking (With Case Studies) Hardcover 2009 by Rakesh Kumar
- Modern Banking In India , Gupta

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- Politics in India: structure, Process and Policy Subrata Mitra, Rouutlege Pub
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- University of Mumbai National Service Scheme Manual 2009.
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- National Service Scheme in India: A Case study of Karnataka, M. B. Dishad, Trust Publications, 2001
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- Cadet's Hand book Common subject..all wings, BY DG NCC, New Delhi.
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- American College of Sports Medicine, ACSM's, Guidelines for Exercise Testing and Priscription. (2013) Ninth Edition, Lippian Cott Williams and Wilkins.
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- Introduction to Computers Xavier C. New Age
- Computer in Business Sanders D McGraw Hill
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- Computers and Common sense Hunt, Roger and Shelly John Prentice Hall
- Computers Subramaniam N Wheeler
- Introduction to Computers Xavier C. New Age
- Computer in Business Sanders D McGraw Hill
- Computers and Information Management S C Bhatnagar & V Ramant Prentice Hall
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Scheme of Evaluation

The performance of the learners will be evaluated in two Components. One component will be the Internal Assessment component carrying 25% marks and the second component will be the Semester-wise End Examination component carrying 75% marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below:-

A) Internal Assessment: 25 %

Question Paper Pattern (Internal Assessment- Courses without Practical Courses)

Sr. No.	Particular	Marks
1	One class test (20 Marks)	
	Match the Column/ Fill in the Blanks/ Multiple Choice Questions	05 Marks
	(½ Mark each)	
	Answer in One or Two Lines (Concept based Questions)	05 Marks
	(01 Mark each)	
	Answer in Brief (Attempt Any Two of the Three)	10 Marks
	(05 Marks each)	
2	Active participation in routine class instructional deliveries and	05 Marks
	overall conduct as a responsible learner, mannerism and	
	articulation and exhibit of leadership qualities in organizing	
	related academic activities	

Question Paper Pattern

(Internal Assessment- Courses with Practical Courses)

Sr. No.	Particular	Marks
1	Semester End Practical Examination (20 Marks)	
	Journal	05 Marks
	Viva	05 Marks
	Laboratory Work	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

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B) Semester End Examination: 75 %

- i) Duration: The examination shall be of 2 ½ Hours duration
- ii) Theory question paper pattern
 - There shall be five questions each of 15 marks.
 - All questions shall be compulsory with internal choice within the questions.
 - Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.

(Detail question paper pattern has been given separately)

Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 10 out of 25) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 30 Out of 75) separately, to pass the course and minimum of Grade E to pass a particular semester A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

Question Paper Pattern (Practical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 1/2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Practical Question OR	15 Marks
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question OR	15 Marks
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question OR	15 Marks
Q-4	Full Length Practical Question	15 Marks
Q-5	A) Theory questionsB) Theory questionsOR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks. If the topic demands, instead of practical questions, appropriate theory question may be asked.

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 1/2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Question OR	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question OR	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question OR	15 Marks
Q-4	Full Length Question	15 Marks
Q-5	A) Theory questionsB) Theory questionsOR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks.

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Revised Syllabus and Question Paper Pattern of Courses of B.Com. (Accounting and Finance) Programme at Third Year Semester V and VI

Under Choice Based Credit, Grading and Semester System

(To be implemented from Academic Year 2018-2019) Board of Studies-in-Accountancy

B.Com. (Accounting and Finance) Programme Under Choice Based Credit, Grading and Semester System

T.Y.B.Com. (Accounting and Finance)

(To be implemented from Academic Year 2018-2019)

No. of Courses	Semester V	Credits	No. of Courses	Semester VI	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2,3 &4	*Any four courses from the following list of the courses	12	1,2,3 &4	**Any four courses from the following list of the courses	12
2 Core Courses (CC)					
2	Core Courses (CC)		2	Core Courses (CC)	
2 5	Core Courses (CC) Financial Accounting - V	04	2 5	Core Courses (CC) Financial Accounting - VII	04
2 5 6	Core Courses (CC) Financial Accounting - V Financial Accounting - VI	04 04	2 5 6	Core Courses (CC) Financial Accounting - VII Project Work-II	04 04

✓ Note: Project work is considered as a special course involving application of knowledge in solving/analyzing/exploring a real life situation/ difficult problem. Project work would be of 04 credits each. A project work may be undertaken in any area of Elective Courses/ Study Area

*List of Elective Courses for Semester V (Any Four)		**List of Elective Courses for Semester VI (Any Four)	
01	Cost Accounting - III	01	Cost Accounting – IV
02	Financial Management - II	02	Financial Management – III
03	Taxation - IV (Indirect Taxes - II)	03	Taxation - V (Indirect Taxes- III)
04	International Finance	04	Security Analysis and Portfolio Management
05	Financial Analysis and Business Valuation	05	Management Control Systems
06	Management -II (Management Applications)	06	Economics Paper – III (Indian Economy)
Note	Note: Course selected in Semester V will continue in Semester VI		

B.Com. (Accounting and Finance) Programme Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year 2018-2019)

Semester V

No. of Courses	Semester V	Credits
1	Elective Courses (EC)	
1,2,3 & 4	*Any four courses from the following list of the courses	12
2	Core Courses (CC)	
5	Financial Accounting - V	04
6	Financial Accounting - VI	04
	Total Credits	20

*List of Elective Courses for Semester V (Any Four)		
01	Cost Accounting - III	
02	Financial Management - II	
03	Taxation - IV (Indirect Taxes - II)	
04	International Finance	
05	Financial Analysis and Business Valuation Management	
06	Management -II (Management Applications)	

1. Elective Courses (EC)

Cost Accounting – III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Uniform Costing and Inter-Firm Comparison	05
02	Integrated System and Non Integrated System of Accounts	15
03	Operating Costing	10
04	Process Costing- Equivalent Units of Production and Inter- process Profit	15
05	Activity Based Costing System	15
	Total	60

Sr. No.	Modules / Units	
1	Uniform Costing and Inter –Firm Comparison	
	Uniform costingMeaning of and need for Uniform costingEssentials for success of Uniform costingAdvantages and limitations of Uniform costingAreas of Uniformity, Uniform cost manualInter Firm ComparisonPre-requisites of inter firm comparison; Advantages and limitationsPractical problems	
2	Integrated System and Non- integrated System of Accounts	
	Integrated System Meaning; Features, Advantages and Disadvantages Journal Entries and Preparing Integrated Ledgers. Practical problems Non-Integrated system Meaning; Features, Advantages and disadvantages Journal entries and Preparing Cost Control Accounts Practical problems	
3	Operating Costing	
	Meaning of operating costing; Determination of per unit cost ; Pricing of services Collection of costing data Note-Practical problems based on costing of hospitals, hotels, goods and passengers transport service	
4	Process Costing – Equivalent units of Production and Inter Process Profit	
	Valuation of Work in progress and Equivalent production (FIFO Method and Weighted Average Method)) Inter Process transfer at Profit Practical problems	
5	Activity Based Costing System	
	Activity Based Costing – Introduction, Advantages, Limitations, Identification of cost drivers, Practical Problems on Traditional V/s Activity Based Costing System.	

1. Elective Courses (EC)

Financial Management -II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Strategic Financial Management	05
02	Capital Budgeting – Project Planning & Risk Analysis	15
03	Capital Structure Theories and Dividend Decisions	15
04	Mutual Fund and Bond Valuation	15
05	Credit Management	10
	Total	60

Sr. No.	Modules / Units	
1	Strategic Financial Management	
	Strategic Financial Management – Need and Importance Corporate, Business and Functional Strategy Financial Planning - Need and Importance Profit Maximization Wealth Maximization Interface of Financial Policy and Strategic Management Relationship of Finance to Economics and Accounting Role of Financial Manager	
2	Capital Budgeting – Project Planning & Risk Analysis	
	Introduction - Capital Budgeting Process, Project Classification and Investment Criteria. Techniques of Capital Budgeting - NPV, Benefit Cost Ratio, Internal Rate of Return, Modified Internal Rate of Return, Payback period, Discounted Payback Period and ARR. (Inclusive of Estimation of Project Cash Flows) Capital Rationing – Meaning, Need and Dealing with Capital Rationing Problems Risk Analysis in Capital Budgeting – Sources and Perspectives of Risk, Sensitivity Analysis, Scenario Analysis, Simulation Model, Decision Tree Analysis and Break - Even Analysis.	
3	Capital Structure Theories and Dividend Decisions	
	Capital Structure Theories – Background, Assumptions, Definitions and Taxation and Capital Structure Types – Net Operating Income, Net Operating Income Approach, Traditional Position, Modigliani and Miller Approach, Trade off Theory and Signalling Theory. Dividend Decisions- Need, Importance, Formulation, Legal and Procedural Aspects. Dividend Decision Models - Walter, Gordon, Graham & Dodd Model and M-M Model	
4	Mutual Fund and Bond Valuation	
	Introduction to Mutual Fund- History & Origin, Definition, Meaning, Characteristics, Advantages, Disadvantages, Limitations of Mutual Funds, Ethics in Mutual Fund. Entities involved – Sponsor, Trust, Trustee, Asset Management Company, Registrar and Transfer Agent (RTA) and Fund Houses in India. Classification of Mutual Fund - Functional/Operational – Open ended, close ended, Interval, Portfolio – Income, Growth, Balanced, MMMF, Geographical/ Location – Domestic and Offshore, Tax Saving Funds, Exchange Traded Funds , Balance Funds , Fixed Term Plan Debt Funds and SIP. Calculations of NAV, Entry Load and Exit Load. Bond Valuation - Meaning, Measuring Bond Returns – Yield to Maturity, Yield to call and Bond Pricing. Bond Pricing Theorems, Bond Risks and Bond Duration. (Practical Problems on YTM and Bond Duration.)	
5	Credit Management	
	Credit Management – Terms of Payment, Credit Policy Variables, Credit Evaluation, Credit Granting Decision, Control of Accounts Receivables ie Receivables Management, Ageing Schedule and Credit Management in India	

1. Elective Courses (EC)

Taxation – IV (Indirect Taxes – II)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Introduction to Indirect Taxation and GST	10
02	Levy and Collection of GST	08
03	Concept of Supply	08
04	Documentation	08
05	Input Tax Credit and Computation of GST	20
06	Registration	06
	Total	60

Sr. No.	Modules / Units	
1	Introduction to Indirect Taxation and GST	
	Basics for Taxation - Direct Taxes and Indirect Taxes – Features of Indirect taxes,	
	Difference, Advantages and Disadvantages, Sources and Authority of Taxes in	
	India (Art 246 of the Indian Constitution)	
	Provisions). Extent and Commencement. Meaning and Definition of GST. Benefits	
	of GST, Conceptual Framework – CGST, IGST,SGST,UTGST, Imports of goods or	
	services or both, Export of goods or services or both, Taxes subsumed and not	
	subsumed under GST.	
	GST Council and GST Network	
	Definitions under CGST Act	
2	Levy and Collection of GST	
	Charge of GST, Levy and Collection GST, Composite and Mixed Supplies under	
	GST, Power to Grant Exemption, Negative list of GST, GST Rate Schedule for	
	Goods and Services	
2	Concept of Supply	
	Taxable Event Supply	
	Taxable Event Supply Place of Supply	
	Taxable Event Supply Place of Supply Time of Supply	
	Taxable Event Supply Place of Supply Time of Supply Value of Supply	
4	Taxable Event Supply Place of Supply Time of Supply Value of Supply Documentation	
4	Taxable Event Supply Place of Supply Time of Supply Value of Supply Documentation Tax Invoices, Credit and Debit notes	
4	Taxable Event Supply Place of Supply Time of Supply Value of Supply Documentation Tax Invoices, Credit and Debit notes Input Tax Credit and Computation of GST	
4	Taxable Event Supply Place of Supply Time of Supply Value of Supply Documentation Tax Invoices, Credit and Debit notes Input Tax Credit and Computation of GST Eligibility and conditions for taking Input Tax Credit	
4	Taxable Event Supply Place of Supply Time of Supply Value of Supply Documentation Tax Invoices, Credit and Debit notes Input Tax Credit and Computation of GST Eligibility and conditions for taking Input Tax Credit Apportionment of credit & Blocked credits	
4	Taxable Event SupplyPlace of SupplyTime of SupplyValue of SupplyDocumentationTax Invoices, Credit and Debit notesInput Tax Credit and Computation of GSTEligibility and conditions for taking Input Tax CreditApportionment of credit & Blocked creditsCredit in special circumstances	
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4 5 6	Taxable Event SupplyPlace of SupplyTime of SupplyValue of SupplyDocumentationTax Invoices, Credit and Debit notesInput Tax Credit and Computation of GSTEligibility and conditions for taking Input Tax CreditApportionment of credit & Blocked creditsCredit in special circumstancesComputation of GST under Inter State supplies and Intra State SuppliesRegistrationRegistration – Persons liable for Registration, Persons not liable for Registration, Procedure for Registration, Deemed Registration, Amendment, Cancellation and	

1. Elective Courses (EC)

International Finance

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Derivatives – Futures	15
02	Derivatives – Options	15
03	Foreign Exchange Markets and Dealings	15
04	Foreign Exchange Exposure and Risk Management	15
	Total	60

Sr. No.	Modules / Units
1	Derivatives – Futures
	Derivatives – Need and Importance, Major Players in Derivative Markets, Features of Forward Contracts, Features of Future Contract, Forward V/s Future, Theoretical Future Price, Pricing Index Futures, Initial Margin and Maintenance Margin, Marking to Market and Variation Margin.
2	Derivatives – Options
	Options- Long Call, Short Call, Long Put, Short Put, Options V/s Futures, Writer of an Option, At the Money, In the Money and Out of The Money Options. Intrinsic and Time Value, Option Spreads and Strategies, Put Call Parity Theorem.
3	Foreign Exchange Markets and Dealings
	Introduction – Participants of Foreign Exchange Markets, Characteristics of
	Foreign Exchange Market, Major Foreign Currencies that Trade Worldwide,
	Foreign Currency Accounts – Nostro, Vostro and Loro (Cash Position and Currency
	position)
	Terms in Forex Market – Direct Quote and Indirect Quote, Bid, Ask and Spread,
	American terms, European terms, Spot, Tom, Cash and Forward Rates,
	Appreciation and Depreciation of currency, Premium and Discount, Swap Points, and Cross Rates.
4	Foreign Exchange Exposure and Risk Management
	Exchange Rate Determination Theories – The theory of Purchasing Power Parity,
	The Fischer effect, The International Fischer Effect and The Theory of Interest
	Rate Parity.
	Calculation of Forward Rate and Future Spot Rate.
	Arbitrage in Foreign Exchange Market – Covered and Uncovered Interest
	Arbitrage.
	Foreign Exchange Risk - Introduction, Types of Exposures and Strategies for
	Exposure Management.
	Hedging Transaction Exposure, Hedging Techniques, Money Market Hedge,
	Forward Hedge and Hedging of Futures & Options

1. Elective Courses (EC)

Financial Analysis and Business Valuation

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Financial Modeling for Project Appraisal	05
02	Financial Analysis	15
03	Growth Analysis and Sustainable Earning	10
04	Basics of Valuation	06
05	Valuation Models	12
06	Valuation of Assets and Liabilities	12
	Total	60

Sr. No.	Modules / Units	
1	Financial Modeling for Project Appraisal	
	Financial Modeling – concepts and application	
	Financial statements module area	
	Use of functions -NPV and IRR	
	Forecasting Techniques	
2	Financial Analysis	
	Financial Analysis, Financial Statement Analysis,	
	Analysis of Balance Sheet	
	Analysis of Income Statement	
	Analysis of Statement of Shareholder Equity	
	Analysis of Cash flow Statement	
	Analysis of Profitability	
3	Growth Analysis and Sustainable Earning	
	Concept of Growth Analysis	
	Analysis of changes in profitability and sustainable earnings	
	Evaluation of P/B ratios and P/E ratios	
4	Basics of Valuation	
	Introduction to valuation	
	Value, Distinction between Price and Value	
	Foundation of Business Valuation	
	Purpose of business valuation	
	Valuation Bias	
	Uncertainties in Business Valuation	
	Role of valuation in business acquisition, legal and tax purposes, efficient market	
	hypothesis	
5	Valuation Models	
	Introduction to valuation models: asset based approach, Income based approach,	
	market based approach	
	Discounted cash flow valuation	
	Relative valuation	
	Free Cash Flow valuation	
6	Valuation of Assets and Liabilities	
	Valuation of Fixed Assets, Valuation of Inventories and Valuation of Investment	
	Valuation of Shares	
	Valuation of Goodwill, Patents, Copyrights, Brands, Real Estate	
	Valuation of Liabilities	

1. Elective Courses (EC)

6.

Management- II (Management Applications)

Sr. No.	Modules	No. of Lectures
01	Marketing Management	15
02	Production Management	15
03	Human Resource Management	15
04	Financial Management	15
	Total	60

Modules at a Glance
Sr. No.	Modules / Units	
1	Marketing Management	
	Meaning and Definition of Marketing – 4 Ps of Marketing, Importance Product Management – Meaning & Definition – Product Development Strategies, Product life cycle, Branding- Meaning, Factors influencing branding	
	Price Management – Meaning and Definition – Factors affecting pricing decisions, Pricing Strategies	
	Distribution Decisions – Types of Distribution Channels	
	communication	
2	Case studies based on the above topics	
_	Meaning and Definition of Production Management – Scope of Production Management, Steps in Production Planning and Control Meaning of Productivity - Measurement of Productivity – Measure to increase	
	Productivity – Productivity Movement in India Meaning and Definition of Quality Management – TQM – Quality Circles – ISO 9000/14000	
	Inventory Management – Meaning and Methods Case studies based on the above topics	
3	Human Resource Management	
Human Resource Management – Meaning, Nature, Functions of Human Re Management Human Resource Planning- Meaning, Process of Human Resource Planning Human Resource Development- Methods of Developing Human Resource Performance Appraisal – Meaning and Definition – Traditional and Mode Methods of Appraisal Employee retention		
	Motivation- Factors of Motivation, Theories of Motivation- Maslow's Theory, Douglas MacGregor's Theory X and Theory Y Case studies based on the above topics	
4	Financial Management	
	Meaning and Definition of Financial Management – Functions of Financial Management Capital Budgeting- Introduction, Importance and Process Capital Structure- Meaning, Factors affecting Capital Structure	
	Capital Market – Meaning and Constituents – Functions Fundamental Analysis – Technical Analysis - Venture Capital – DEMAT Account - Futures and Options Case studies based on the above topics	

2. Core Courses (CC)

Financial Accounting - V

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Underwriting of shares & debentures	08
02	Buy-Back of shares	10
03	AS – 14 - Amalgamation, Absorption & External Reconstruction (excluding inter – company holding)	15
04	Internal Reconstruction	15
05	Liquidation of Companies	10
	Total	60

Sr. No.	Modules / Units
1	Underwriting of shares & debentures
	Introduction, Underwriting, Underwriting Commission Provision of Companies Act with respect to Payment of underwriting commission Underwriters, Sub-Underwriters, Brokers and Manager to issues Types of underwriting, Abatement Clause Marked, Unmarked and Firm-underwriting applications, Liability of the underwriters in respect of underwriting contract Practical problems
2	Buy Back of Shares
	Company Law / Legal provisions (including related restrictions, power, transfer to capital redemption reserve account and prohibitions). Compliance of conditions including sources, maximum limits and debt equity ratio. Cancellation of Shares Bought back(Excluding Buy Back of minority shareholding) Practical problems
3	AS – 14 - Amalgamation, Absorption & External Reconstruction (excluding inter-
	company holdings)
	of pooling of interests and purchase method respectively. Meaning and Computation of purchase consideration. Problems based on purchase method only. Practical problems
4	Internal Reconstruction
	Need for reconstruction and company law provisions. Distinction between internal and external reconstruction. Methods including alteration of share capital, variation of shareholder rights, sub division, consolidation, surrender and reissue / cancellation, reduction of share capital with relevant legal provisions and accounting treatment for same. Practical problems
5	Liquidation of Companies
	Meaning of liquidation or winding up Preferential payments Overriding preferential payments Preparation of statement of affairs, deficit / surplus account Liquidator's final statement of account Practical problems

2. Core Courses (CC)

2. Financial Accounting – VI

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Final Accounts of Banking Company	15
02	Final Accounts of Insurance Company (Excl. Life Insurance)	15
03	Non – Banking Financial Companies	08
04	Valuation of Goodwill and Shares	12
05	Accounting for Limited Liability Partnership	10
	Total	60

Sr. No.	Modules / Units
1	Final Accounts of Banking Company
	Legal provision in Banking Regulation Act, 1949 relating to Accounts. Statutory reserves including Cash Reserve and Statutory Liquidity Ratio. Bill purchase and discounted, rebate of bill discounted. Final Accounts in prescribed form Non – performing assets and Income from non – performing assets. Capital Adequacy Classification of Advances, standard, sub – standard, doubtful and provisioning requirement.
2	Final Accounts of Insurance Company (Excl. Life Insurance)
	Special terms like premium, claims, commission, Management expenses, Reserve for unexpired risk, reinsurance Final Accounts in a prescribed form. Revenue Statement – Form B – RA, Profit / Loss Account – Form B – PL and Balance Sheet Form B – BS.
3	Non – Banking Financial Companies
	Introduction, Definition, Registration and Regulation, Classification, Income Recognition, Accounting of Investment, Applicability of Prudential Norms, Assets classification, Non-performing Assets, Capital Adequacy, Preparation of Financial statement
4	Valuation of Goodwill and Shares
	Valuation of Goodwill Maintainable Profit method, Super Profit Method Capitalization method, Annuity Method Valuation of Shares Intrinsic Value Method, Yield method and Fair Value Method
5	Accounting for Limited Liability Partnership
	Statutory provisions Conversion of partnership business into Limited Liability Partnership Final accounts

Reference Books

Reference Books		
Elective Courses (EC)		
Cost Accounting- III		
 Lectures on Costing by Swaminathan: S. Chand and Company (P) Ltd., New Delhi Cost Accounting by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai Cost Accounting by Jawahar Lal and Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai Cost Accounting by Ravi M. Kishore, Taxmann Ltd., New Delhi Principles and Practices of Cost Accounting by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai Cost Accounting Principles and Practice by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi Advanced Cost and Management Accounting: Problems and Solutions by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana Modern Cost and Management Accounting by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi 		
Financial Management - II		
 Fundamentals of Financial Management by D. Chandra Bose, PHI Learning Pvt. Ltd., New Delhi Fundamentals of Financial Management by Bhabotosh Banerjee, PHI Learning Pvt. Ltd., New Delhi Fundamentals of Financial Management by Vyuptakesh Sharma, Pearson Education, New Delhi Fundamentals of Financial Management by J.C. Van Horne, Prentice Hall of India, New Delhi Financial Management: Text and Problems by M.Y. Khan and P.K. Jain, Tata McGraw Hill, New Delhi Financial Management: Theory and Practice by Prasanna Chandra, Tata McGraw Hill, New Delhi Financial Management by I.M. Pandey, Vikas Publishing House, New Delhi Financial Management by C. Paramasivan& T. Subramanian Financial Management by Ravi Kishor Financial Management by Khan & Jain 		
Taxation - Indirect Taxes - Paper IV		
 Indirect Taxes: Law and Practice by V.S. Datey, Taxmann Indirect Taxes by V.S. Balchandra, Sultan Chand and Sons, New Delhi GST Law & practice with Customs & FTP by V.S. Datey, Taxmann GST by V.S. Datey, Taxmann GST & customs Law by K.M. Bansal, University Edition GST Law & practice with Customs & FTP by Vineet Sodhani, Snow White Publications GST Law & practice with Customs & FTP by Sanjiv Agarwal, Snow White Publications Indirect taxes(Containing GST, Customs & FTP) by MOhd. Rafi, Bharat Publications 		
International Finance		
 P G Apte, International Financial Management, 5th Edition, The McGraw Hill Cheol . S. Eun & Bruce G. Resnick, International Finance Management Maurice D. Levi, International Finance – Special Indian Edition Prakash G. Apte, International Finance – A Business Perspective V A. Aadhani, International Finance 		

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Reference Books

Financial Analysis and Business Valuation

- Valuation: Measuring and Managing the value of Companies: Thomas Copeland- Wiley
- The Handbook of Advance Business Valuation: Rovert F Reilly and Robert Swhweish: Mc Graw hill
- Business Valuation: Pitabas Mohanty- Taxmann
- Valuation- Measuring and Managing the value of Companies : Tim Koller- Mc Kinsey & Co

Management II (Management Applications)

- Kotlar, Philip, Marketing Management, Prentice Hall, New Delhi.
- Stanton, Etzel, Walker, Fundamentals of Marketing, Tata-McGraw Hill, New Delhi.
- Saxena, Rajan, Marketing Management, Tata-McGraw Hill, New Delhi.
- McCarthy, E.J., Basic Marketing: A managerial approach, Irwin, New York.
- Pillai R S, Bagavathi, Modern Marketing
- Principles of Management , Ramasamy , Himalya Publication , Mumbai
- Principles of Management , Tripathi Reddy , Tata Mc Grew Hill
- Management Text & Cases , VSP Rao , Excel Books, Delhi
- Management Concepts and OB, PS Rao & NV Shah, AjabPustakalaya
- Essentials of Management , Koontz II & W , Mc. Grew Hill , New York

Principles of Management-Text and Cases – Dr.. M. Sakthivel Murugan, New Age Publications

Core Courses (CC)

Financial Accounting - V and VI

- Introduction to Accountancy by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi
- Advance Accounts by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi
- Advanced Accountancy by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi
- Modern Accountancy by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- Financial Accounting by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi
- Financial Accounting for Management by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai
- Financial Accounting by P.C. Tulsian, Pearson Publications, New Delhi
- Accounting Principles by R.N. Anthony and J.S. Reece, Richard Irwin, Inc
- Financial Accounting by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida
- Compendium of Statement and Standard of Accounting, ICAI
- Indian Accounting Standards, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- Financial Accounting by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- Company Accounting Standards by Shrinivasan Anand, Taxman, New Delhi
- Financial Accounting by V. Rajasekaran, Pearson Publications, New Delhi
- Introduction to Financial Accounting by Horngren, Pearson Publications, New Delhi
- Financial Accounting by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi
- Financial Accounting a Managerial Perspective, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi

B.Com. (Accounting and Finance) Programme Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year 2018-2019)

Semester VI

No. of Courses	Semester VI	Credits
1	Elective Courses (EC)	
1,2,3 & 4	**Any four courses from the following list of the courses	12
2	Core Course (CC)	
5	Financial Accounting - VII	04
6	Project Work -II	04
	Total Credits	20

**List of Elective Courses for Semester VI (Any Four)	
01	Cost Accounting - IV
02	Financial Management - III
03	Taxation - V (Indirect Taxes- III)
04	Management Control Systems
05	Security Analysis and Portfolio Management
06	Economics Paper – III Indian Economy)

1. Elective Courses (EC)

1. Cost Accounting - IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Budgeting and Budgetary Control	15
02	Absorption Costing and Marginal Costing Cost Volume and Profit Analysis	15
03	Managerial Decision Making	15
04	Standard Costing and Variance Analysis	15
	Total	60

Sr. No.	Modules / Units
1	Budgeting and Budgetary Control
	Meaning & objectives, Advantages and limitations of budgets
	Functional budgets, fixed and flexible budgets
	Zero based budgeting, performance budgeting
	Practical problems of preparing flexible budgets and functional budgets
2	Absorption Costing and Marginal Costing, Cost Volume and Profit Analysis
	Absorption Costing and Marginal Costing
	Meaning of absorption costing,
	Introduction to marginal costing
	Distinction between absorption costing and marginal costing
	Advantages and limitations of marginal costing
	Cost Volume and Profit Analysis
	Break even analysis meaning and graphic presentation
	Margin of safety
	Key factor
	Practical problems based on using the marginal costing formulae and key factor
3	Managerial Decision Making
	Make or buy
	Sales mix decisions
	Exploring new markets
	Plant shut down decision
	Practical problems
4	Standard Costing and Variance Analysis
	Preliminaries in installing of a standard cost system
	Material Cost variance
	Labour cost variance
	Variable overhead variances
	Fixed Overhead variances
	Sales variances
	Protit Variances
	Practical problems

1. Elective Courses (EC)

Financial Management - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Business Valuation	05
02	Mergers and Acquisitions	15
03	Corporate Restructuring and Takeovers	15
04	Lease and Hire Purchase Financing	15
05	Working Capital financing	10
	Total	60

Sr. No.	Modules / Units
1	Business Valuation
	Conceptual Framework of Valuation – Book Value, Market Value, Economic Value, Liquidation Value, Replacement Value, Salvage Value, Value of Goodwill and Fair Value Approaches of Valuation – Assets Based Approach to Valuation, Earnings Based Approach to Valuation, Earnings Measure on Cash Flow Basis, Market Value Added Approach and Economic Value Added.
2	Mergers and Acquisitions
	 Introduction- Basic modes of acquiring another firm, Synergy effects, Difference between Merger and Takeover, Advantages of Mergers and Acquisitions, Benefits of Merger for Acquiring firm, Reasons of companies to offer themselves for sale, Reasons for failure of Mergers and Reverse Merger. Commonly Used Bases for determining the Exchange Ratio – EPS, MPS, Book value and Combination of Measures and Evaluation of Mergers (Practical Problems)
3	Corporate Restructuring and Takeovers
	Introduction – Meaning, Need and Importance, Forms of Restructuring, Advantages and Disadvantages Takeovers – Meaning, SEBI Guidelines, Anti-takeover defences and Asset and Liability Restructuring. (Practical Problems)
4	Lease and Hire Purchase Financing
	 Introduction – Meaning and Types of Leases, Rationale, Mechanics, Operating Leases, Leasing as Financing Decisions, Calculation of Cash flows of a finance lease. Hire Purchase – Meaning, Need and Importance, Calculation of Hire Purchase instalments. Choice between Leasing and Hire Purchase
5	Working Capital financing
	Introduction – Key features and Characteristics of Trade Credit, Bank Credit, Commercial Papers, Certificate of Deposits and Factoring. Practical Problems based on Factoring and calculations of yield of CP's and CD's

1. Elective Courses (EC)

Taxation - Paper V (Indirect Taxes – III)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Payment of Tax and Refunds	08
02	Returns	08
03	Accounts, Audit, Assessment and Records	08
04	Custom Act - I	12
05	Custom Act - II	12
06	Foreign Trade Policy	12
	Total	60

Sr. No.	Modules / Units
1	Payment of Tax and Refunds
	Payment of Tax, Interest and other Amounts, Interest on delayed Payment, TDS, TCS Refund of tax, Refund in certain cases, Interest on delayed refunds
2	Returns
	Types of Returns and Provisions relating to filing of Returns
3	Accounts, Audit, Assessment and Records
	Accounts and other records, Period of retention of accounts, Electronic Way Bill Self-Assessment, Provisional Assessment, Scrutiny of Returns, Assessment of non- filers of Returns, Assessment of Unregistered person, summary assessment in certain special cases, Audit by tax authorities, Special Audit.
4	Custom Act - I
	Introduction to customs law including Constitutional aspects Levy of and exemptions from customs duties – All provisions including application of customs law, taxable event, charge of customs duty, exceptions to levy of customs duty, exemption from custom duty Types of customs duties Classification and valuation of imported and export goods
5	Custom Act - II
	Import and Export Procedures – All import and export procedures including special procedures relating to baggage, goods imported or exported by post, stores Provisions relating to coastal goods and vessels carrying coastal goods Warehousing and Drawback
6	Foreign Trade Policy
	Introduction to FTP – legislation governing FTP, salient features of an FTP, Foreign Trade Policy 2015- 20, administration of FTP, contents of FTP, scope of FTP. Provision related to import and export of goods Basic concepts relating to export promotion schemes provided under FTP – Duty Exemption & remission Schemes, Duty Free Import Authorization Scheme, Reward scheme, Export Promotion Capital Goods Scheme, EOU, STP, BTP AND

1. Elective Courses (EC)

Security Analysis and Portfolio Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Portfolio Management – An Introduction & Process	12
02	Portfolio Management – Valuation	12
03	Fundamental Analysis	12
04	Technical Analysis	12
05	Efficient Market Theory & CAPM	12
	Total	60

Sr. No.	Modules / Units
1	Portfolio Management – An Introduction & Process
	 Investment - Meaning, Characteristics, Objectives, Investment V/s Speculation, Investment V/s Gambling and Types of Investors Portfolio Management – Meaning, Evolution, Phases, Role of Portfolio Managers, Advantages of Portfolio Management. Investment Environment in India and factors conducive for investment in India. Portfolio Analysis – Meaning and its Components, Calculation of Expected Return and Risk, Calculation of Covariance, Risk – Return Trade off. Portfolio Selection – Meaning, Feasible Set of Portfolios, Efficient Set of Portfolios, Selection of Optimal Portfolio, Markowitz Model, Limitations of Markowitz Model, Measuring Security Return and Portfolio Return and Risk under Single Index Model and Multi Index Model.
2	Portfolio Management – Valuation
	Portfolio Revision – Meaning, Need, Constraints and Strategies. Portfolio Evaluation – Meaning, Need, Measuring Returns (Sharpe, Treynor and Jensen Ratios) and Decomposition of Performance.
3	Fundamental Analysis
-	Economy Analysis – Meaning, Framework, Economic Analysis, Forecasting, Barometric or Indicator Approach, Econometric Model Building and Opportunistic Model Building. Industry Analysis – Concept of Analysis, Industry Life Cycle, Industry Characteristics Company Analysis – Financial Statements, Analysis of Financial Statements, (Practical questions on Debt equity ratios, total debt ratio, proprietary ratios, interest coverage ratio, Profitability ratios related to sales, investment and equity shares Efficiency or Activity Ratios) and Assessment of risk (Leverages)
4	Technical Analysis
	Dow Theory Meaning and Principles of Technical Analysis, Price Chart, Line Chart, Bar Chart, Japanese Candlestick Chart, Trends and Trend Reversals, Chart Patterns, Support and Resistance, Reversal Patterns, Continuation Patterns and Elliot Wave Theory Mathematical Indicators – Calculation of Moving Averages (Simple and Exponential Moving Average), Oscillators and Relative Strength Index Market Indicators Fundamental Analysis V/s Technical Analysis

Sr. No.	Modules / Units
5	Efficient Market Theory & CAPM
	Random Walk Theory
	The Efficient Market Hypothesis
	Forms of Market Efficiency
	Competitive Market Hypothesis
	CAPM – Fundamental Notions of Portfolio Theory, Assumption of CAPM, Efficient
	Frontier with Riskless Lending and Borrowing, Capital Market Line, Security
	Market Line and Pricing of Securities with CAPM.
	Arbitrage Pricing Theory (APT) – The Return Generating Model, Factors Affecting
	Stock Return, Expected Return on Stock, APT V/s CAPM.

1. Elective Courses (EC)

Management Control Systems

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Developments in Management Accounting and Control Systems	08
02	Financial Goal Setting	12
03	Responsibility Centres	15
04	Transfer Pricing	15
05	Inflation Accounting	10
	Total	60

Sr. No.	Modules / Units	
1	Developments in Management Accounting and Control Systems	
	 Introduction- The Modern economic environment, Traditional production processes, The background to change, The new manufacturing computer-aided design, Computer-aided manufacturing, Computer-integrated manufacturing, Flexible manufacturing systems, Value chain, Production operations systems and Management strategies, Material requirements planning, Manufacturing Resources Planning, Optimised Production Technology (OPT), ERP, CRM and SCM Just-in-time concept, Total Quality Management (TQM) and Synchronous Manufacturing. Control in special sectors: Scrap Control, Control of R & D – Project Control, Administrative Cost Control and the emphasis on continuous improvement. 	
2	Financial Goal Setting	
	Analysis of Incremental ROI, Sensitivity Analysis, Developing Financial Goals along Organizational Hierarchy. Concept and Technique of Responsibility Budgeting - Analytical framework for Developing Responsibility Budgets - Integrating Responsibility Budgets Integrating Responsibility Budgeting with MBO System.	
3	Responsibility Centres	
	Introduction to Cost, Revenue, Profit and Investment Centres, Reporting of Responsibility Centre. Performance Measures -Investment Centres/Strategic Business Units, Return on Investment, The problems with ROI and Residual income (RI)	
4	Transfer Pricing	
	Introduction - Aims and Features, General rules, Cost-based prices, Market-based prices, Marginal cost, Dual pricing, Profit-maximising transfer prices, Negotiated transfer prices and other behavioural considerations	
5	Inflation Accounting	
	Introduction - Need, Brief History, Methods of Inflation Accounting (Current Purchasing Power and Current Cost Accounting), Inflation Accounting and Corporate Taxation. Financial Reporting to Management under conditions of change in price level.	

1. Elective Courses (EC)

6.

Economics Paper – III (Indian Economy)

Modules No. of Sr. No. Lectures Introduction Agricultural Sector 15 01 15 02 **Industrial Sector** 15 03 Service Sector and External Sector Money and Banking 15 04 Total 60

Modules at a Glance

Sr. No.	Modules / Units
1	Introduction Agricultural Sector
	Introduction Demographic features- Poverty, Income inequality and Unemployment Urbanization and its effects Agricultural Sector Institutional Structure- Land reforms in India Technological changes in agriculture Agricultural pricing and agricultural finance Agricultural marketing
2	National agricultural policy Industrial Sector
3	Growth and pattern of industrialization Industrial Policy of 1991.Public sector enterprises and disinvestment policy Small scale sector- problems and prospects Service Sector and External Sector
	Service Sector Nature and scope of service industry Recent trends in Banking industry, Insurance Industry, Healthcare Industry and Tourism Industry External Sector Structure and directions of Foreign trade India's Balance of payments since 1991 FDI, foreign capital and transnational companies in India. Role and impact of SAARC, ASEAN and WTO
4	Money and Banking
	Money market and its features Monetary policy of RBI Progress of commercial banking in India Development of capital markets SEBI and its functions

2. Core Courses (EC)

Financial Accounting – VII

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Final Account for Electricity Company	15
02	Final Accounts for Co-Operative Society: (Co-Operative Housing Society and Consumer Co-Operative Society)	15
03	Investment Accounting (w.r.t. Accounting Standard - 13)	10
04	Mutual Fund	08
05	Introduction to IFRS and Indian Accounting Standards	12
	Total	60

Modules / Units
Final Account for Electricity Company
 Final Accounts as per Double Account System Final Accounts as per Electricity Rules Receipt & Expenditure on Capital Account General Balance Sheet Contingency Reserve Disposal of Surplus (As per Electricity Rules): Norms regarding Disposal of Surplus Replacement of Assets Simple practical problems Final Accounts for Co-Operative Society
Provisions of Maharashtra State Co-Operative Societies Act and rules. Accounting provisions including appropriation to various funds Format of Final Accounts – Form N Simple practical problems on preparation of final accounts of a Co-Operative housing society & Consumer Co-Operative Society
Investment Accounting (w.r.t. Accounting Standard-13)
For shares (variable income bearing securities) For debentures/Preference. shares (fixed income bearing securities) Accounting for transactions of purchase and sale of investments with ex and cum interest prices and finding cost of investment sold and carrying cost as per weighted average method (Excl. brokerage). Columnar format for investment account.
Mutual Fund
Introduction, Historical Background SEBI Guidelines, Organisation, NAC Scheme, Types of Mutual Fund Schemes, , FOF Scheme, Load or No-Load Scheme, Investment Valuation norms, Pricing of units, Contents of Balance sheet and revenue Account, Evaluation of mutual funds, Disposal of Investments, Recognition of Income, Accounting policies and entries.
Introduction to IFRS
Accounting standards: Role/objectives of accounting standards, Development of accounting standards in India - Requirements of international accounting standards - International organizations engaged in accounting harmonization - IASB - FASB - Role of IASB in developing IFRS, Applicability, Interpretation, Scope and compliance of Accounting Standards Indian Accounting standards (Ind AS) : Introduction, Road map, First time adaptation of Indian Accounting Standard, Conceptual framework Comparison of Ind AS, IFRS and AS IFRS : Introduction, scope Purpose & Objective of financial statement-its Frame work-its assumption, characteristics, element, recognition & measurement., first time adaption of IEPS

Reference Books

Reference Books
Elective Courses (EC)
Cost Accounting- IV
 Lectures on Costing by Swaminathan: S. Chand and Company (P) Ltd., New Delhi Cost Accounting by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai Cost Accounting by Jawahar Lal and Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai Cost Accounting by Ravi M. Kishore, Taxmann Ltd., New Delhi Principles and Practices of Cost Accounting by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai Cost Accounting Principles and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai Cost Accounting Principles and Practice by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi Advanced Cost and Management Accounting: Problems and Solutions by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana Modern Cost and Management Accounting by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi
Financial Management - III
 Fundamentals of Financial Management by D. Chandra Bose, PHI Learning Pvt. Ltd., New Delhi Fundamentals of Financial Management by Bhabotosh Banerjee, PHI Learning Pvt. Ltd., New Delhi Fundamentals of Financial Management by Vyuptakesh Sharma, Pearson Education, New Delhi Fundamentals of Financial Management by J.C. Van Horne, Prentice Hall of India, New Delhi Financial Management: Text and Problems by M.Y. Khan and P.K. Jain, Tata McGraw Hill, New Delhi Financial Management: Theory and Practice by Prasanna Chandra, Tata McGraw Hill, New Delhi Financial Management by I.M. Pandey, Vikas Publishing House, New Delhi Financial Management by C. Paramasivan& T. Subramanian Financial Management by Ravi Kishor Financial Management by Khan & Jain
Taxation - Indirect Taxes - III
 Indirect Taxes: Law and Practice by V.S. Datey, Taxmann Indirect Taxes by V.S. Balchandra, Sultan Chand and Sons, New Delhi GST Law & practice with Customs & FTP by V.S. Datey, Taxmann GST by V.S. Datey, Taxmann GST & customs Law by K.M. Bansal, University Edition GST Law & practice with Customs & FTP by Vineet Sodhani, Snow White Publications GST Law & practice with Customs & FTP by Sanjiv Agarwal, Snow White Publications Indirect taxes(Containing GST, Customs & FTP) by MOhd. Rafi, Bharat Publications
Security Analysis And Portfolio Management
 Blake, David 1992, Financial Market Analysis, McGraw Hill London Francis J.C Investments, Analysis and Management McGraw Hill New York. Pistolese Clifford Using Technical Analysis Vision Books Reilly Frank K and Keith Brown Investment Analysis and Portfolio Management.

Reference Books
Management Control Systems
 Anthony & Govindrajan - Management Control Systems (TATA McGraw Hill), 12th Edition, 2006. Bob Scarlett – Management Accounting and Performance Evaluation, Oxford Press, 2006 Edition Maciarirllo& Kirby – Management Control Systems (Prentice Hall India), 2th Edition
Economics
 Indian Economic Survey Reports (Annual), Ministry of Finance, Government of India Indian Economy by Misra and Puri, Himalaya Publishing House - Delhi Gaurav Dutt & Ashwini Mahajan, (2016) Indian Economy, S. Chand& company PVT LTD New Delhi A.N.Agarwal – Indian Economy problems of Development and Planning New Age International Publisher RuddarDatt K.P.M Sundharam – Indian Economy S. Chand E-co LTD. Delhi
Core Courses (CC)
Financial Accounting - VII
 Introduction to Accountancy by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi Advance Accounts by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi Advanced Accountancy by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi Modern Accountancy by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai Financial Accounting by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi Financial Accounting for Management by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai
 Financial Accounting by P.C. Tuisian, Pearson Publications, New Delni Accounting Principles by R.N. Anthony and J.S. Reece, Richard Irwin, Inc Financial Accounting by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida Compendium of Statement and Standard of Accounting, ICAI Indian Accounting Standards, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai Financial Accounting by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai Company Accounting Standards by Shrinivasan Anand, Taxman, New Delhi Financial Accounting by V. Rajasekaran, Pearson Publications, New Delhi Introduction to Financial Accounting by Horngren, Pearson Publications, New Delhi Financial Accounting by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi Financial Accounting a Managerial Perspective, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw

University of Mumbai



B.Com. (Accounting and Finance) Programme Guidelines for Project Work at Third Year Semester VI

Under Choice Based Credit, Grading and Semester System

(To be implemented from Academic Year 2018-2019)

Board of Studies-in-Accountancy

Introduction

Inclusion of project work in the course curriculum of the B.Com. (Accounting & Finance) programme is one of the ambitious aspects in the programme structure. The main objective of inclusion of project work is to inculcate the element of research analyse and scientific temperament challenging the potential of learner as regards to his/ her eager to enquire and ability to interpret particular aspect of the study. It is expected that the guiding teacher should undertake the counselling sessions and make the awareness among the learners about the methodology of formulation, preparation and evaluation pattern of the project work.

- There are two modes of preparation of project work
 - 1. Project work based on research methodology in the study area
 - 2. Project work based on internship in the study area

Guidelines for preparation of Project Work

1. General guidelines for preparation of project work based on Research Methodology

- The project topic may be undertaken in any area of Elective Courses.
- Each of the learner has to undertake a Project individually under the supervision of a teacher-guide.
- The learner shall decide the topic and title which should be specific, clear and with definite scope in consultation with the teacher-guide concerned.
- University/college shall allot a guiding teacher for guidance to the students based on her / his specialization.
- The project report shall be prepared as per the broad guidelines given below:
 - Font type: Times New Roman
 - Font size: 12-For content, 14-for Title
 - Line Space : 1.5-for content and 1-for in table work
 - Paper Size: A4
 - Margin : in Left-1.5, Up-Down-Right-1
 - The Project Report shall be bounded.
 - The project report should be 80 to 100 pages

Format

1st page (Main Page)

Title of the problem of the Project

A Project Submitted to

University of Mumbai for partial completion of the degree of

Bachelor in Commerce (Accounting and Finance)

Under the Faculty of Commerce

By

Name of the Learner

Under the Guidance of

Name of the Guiding Teacher

Name and address of the College

Month and Year

 2^{nd} Page This page to be repeated on 2^{nd} page (i.e. inside after main page)

Index

Chapter No. 1	Title of the Chapter	Page No.
(sub point 1.1, 1.1.1,And so on)		
Chapter No. 2	Title of the Chapter	
Chapter No. 3	Title of the Chapter	
Chapter No. 4	Title of the Chapter	
Chapter No. 5	Title of the Chapter	

List of tables, if any, with page numbers. List of Graphs, if any, with page numbers. List of Appendix, if any, with page numbers. Abbreviations used:

Structure to be followed to maintain the uniformity in formulation and presentation of Project Work

(Model Structure of the Project Work)

• Chapter No. 1: Introduction

In this chapter Selection and relevance of the problem, historical background of the problem, brief profile of the study area, definition/s of related aspects, characteristics, different concepts pertaining to the problem etc can be incorporated by the learner.

• Chapter No. 2: Research Methodology

This chapter will include Objectives, Hypothesis, Scope of the study, limitations of the study, significance of the study, Selection of the problem, Sample size, Data collection, Tabulation of data, Techniques and tools to be used, etc can be incorporated by the learner.

• Chapter No. 3: Literature Review

This chapter will provide information about studies done on the respective issue. This would specify how the study undertaken is relevant and contribute for value addition in information/ knowledge/ application of study area which ultimately helps the learner to undertake further study on same issue.

• Chapter No. 4: Data Analysis, Interpretation and Presentation

This chapter is the core part of the study. The analysis pertaining to collected data will be done by the learner. The application of selected tools or techniques will be used to arrive at findings. In this, table of information's, presentation of graphs etc. can be provided with interpretation by the learner.

• Chapter No. 5: Conclusions and Suggestions

In this chapter of project work, findings of work will be covered and suggestion will be enlisted to validate the objectives and hypotheses.

Note: If required more chapters of data analysis can be added.

- Bibliography
- Appendix

Name and address of the college

Certificate

This is to certify that Ms/Mr	has worked
and duly completed her/his Project Work for the degree of Bachelor in	n Commerce
(Accounting & Finance) under the Faculty of Commerce in the	subject of
and her/his project	is entitled,
" Title of the Project	" under

my supervision.

I further certify that the entire work has been done by the learner under my guidance and that no part of it has been submitted previously for any Degree or Diploma of any University.

It is her/ his own work and facts reported by her/his personal findings and investigations.

Seal of the College

Name and Signature of Guiding Teacher

Date of submission:

Declaration by learner

I the undersigned Miss / Mr			Name of the learner					_here by,			
declare	that	the	work	embodied	in	this	project	work	titled	دد	
Title of the Project							" "				

forms my own contribution to the research work carried out under the guidance of <u>Name of the guiding teacher</u> is a result of my own research work and has not been previously submitted to any other University for any other Degree/ Diploma to this or any other University.

Wherever reference has been made to previous works of others, it has been clearly indicated as such and included in the bibliography.

I, here by further declare that all information of this document has been obtained and presented in accordance with academic rules and ethical conduct.

Name and Signature of the learner

Certified by

Name and signature of the Guiding Teacher

Acknowledgment

(Model structure of the acknowledgement)

To list who all have helped me is difficult because they are so numerous and the depth is so enormous.

I would like to acknowledge the following as being idealistic channels and fresh dimensions in the completion of this project.

I take this opportunity to thank the **University of Mumbai** for giving me chance to do this project.

I would like to thank my **Principal**,______for providing the necessary facilities required for completion of this project.

I take this opportunity to thank our **Coordinator**_____, for her moral support and guidance.

I would also like to express my sincere gratitude towards my project guide whose guidance and care made the project successful.

I would like to thank my **College Library**, for having provided various reference books and magazines related to my project.

Lastly, I would like to thank each and every person who directly or indirectly helped me in the completion of the project especially **my Parents and Peers** who supported me throughout my project.

2. Guidelines for Internship based project work

- Minimum 20 days/ 100 hours of Internship with an Organisation/ NGO/ Charitable Organisation/ Private firm.
- The theme of the internship should be based on any study area of the elective courses
- Experience Certificate is Mandatory
- A project report has to be brief in content and must include the following aspects:

• Executive Summary:

A bird's eye view of your entire presentation has to be precisely offered under this category.

Introduction on the Company:

A Concise representation of company/ organization defining its scope, products/ services and its SWOT analysis.

Statement and Objectives:

The mission and vision of the organization need to be stated enshrining its broad strategies.

• Your Role in the Organisation during the internship:

The key aspects handled, the department under which you were deployed and brief summary report duly acknowledged by the reporting head.

• Challenges:

The challenges confronted while churning out theoretical knowledge into practical world.

Conclusion:

A brief overview of your experience and suggestions to bridge the gap between theory and practice.

- The project report based on internship shall be prepared as per the broad guidelines given below:
 - Font type: Times New Roman
 - Font size: 12-For content, 14-for Title
 - Line Space : 1.5-for content and 1-for in table work
 - Paper Size: A4
 - Margin : in Left-1.5, Up-Down-Right-1
 - The Project Report shall be bounded.
 - The project report should be of minimum 50 pages

Evaluation pattern of the project work

The Project Report shall be evaluated in two stages viz.				
Evaluation of Project Report (Bound Copy)	60 Marks			
 Introduction and other areas covered 	20 Marks			
 Research Methodology, Presentation, Analysis and interpretation of data 	30 Marks			
 Conclusion & Recommendations 	10 Marks			
Conduct of Viva-voce	40 Marks			
 In the course of Viva-voce, the questions may be asked such as importance / relevance of the study, objective of the study, methodology of the study/ mode of Enquiry (question responses) 	10 Marks			
 Ability to explain the analysis, findings, concluding observations, recommendation, limitations of the Study 	20 Marks			
Overall Impression (including Communication Skill)	10 Marks			

Note:

• The guiding teacher along with the external evaluator appointed by the University/ College for the evaluation of project shall conduct the viva-voce examination as per the evaluation pattern

Passing Standard

- Minimum of Grade E in the project component
- In case of failing in the project work, the same project can be revised for ATKT examination.
- Absence of student for viva voce: If any student fails to appear for the viva voce on the date and time fixed by the department such student shall appear for the viva voce on the date and time fixed by the Department, such student shall appear for the viva voce only along with students of the next batch.

Revised Syllabus of Courses of B.Com. (Accounting and Finance) Programme at Semester V and VI with effect from the Academic Year 2018-2019 Scheme of Evaluation

The performance of the learners will be evaluated in two Components. One component will be the Internal Assessment component carrying 25% marks and the second component will be the Semester-wise End Examination component carrying 75% marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below:-

A) Internal Assessment: 25 %

Question Paper Pattern

(Internal Assessment- Courses without Practical Courses)

Sr. No.	Particular	Marks
1	One class test (20 Marks)	
	Match the Column/ Fill in the Blanks/ Multiple Choice Questions (½ Mark each)	05 Marks
	Answer in One or Two Lines (Concept based Questions)	05 Marks
	(01 Mark each)	
	Answer in Brief (Attempt Any Two of the Three)	10 Marks
	(05 Marks each)	
2	Active participation in routine class instructional deliveries and	05 Marks
	overall conduct as a responsible learner, mannerism and	
	articulation and exhibit of leadership qualities in organizing	
	related academic activities	

B) Semester End Examination: 75 %

- i) Duration: The examination shall be of 2 ½ Hours duration
- ii) Theory question paper pattern
 - There shall be five questions each of 15 marks.
 - All questions shall be compulsory with internal choice within the questions.
 - Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.
 (Detail question paper pattern has been given separately)

Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 10 out of 25) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 30 Out of 75) separately, to pass the course and minimum of Grade E to pass a particular semester A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.
Question Paper Pattern (Practical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 1/2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
No		
Q-1	Objective Questions	15 Marks
	A. Sub Questions to be asked 10 and to be answered any 08	
	B. Sub Questions to be asked 10 and to be answered any 07	
	(*Multiple choice / True or False / Match the columns/Fill in the	
	blanks)	
Q-2	Full Length Practical Question	15 Marks
	OR	
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question	15 Marks
	OR	
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question	15 Marks
	OR	
Q-4	Full Length Practical Question	15 Marks
Q-5	A) Theory questions	08 Marks
	B) Theory questions	07 Marks
	OR	
Q-5	Short Notes	15 Marks
	To be asked 05	
	To be answered 03	

Note:

Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks. If the topic demands, instead of practical questions, appropriate theory question may be asked.

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 1/2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question	Particular	Marks
No		
Q-1	Objective Questions	15 Marks
	A) Sub Questions to be asked 10 and to be answered any 08	
	B) Sub Questions to be asked 10 and to be answered any 07	
	(*Multiple choice / True or False / Match the columns/Fill in the blanks)	
Q-2	Full Length Question	15 Marks
	OR	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	OR	
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
	OR	
Q-4	Full Length Question	15 Marks
Q-5	A) Theory questions	08 Marks
	B) Theory questions	07 Marks
	OR	
Q-5	Short Notes	15 Marks
	To be asked 05	
	To be answered 03	

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

University of Mumbai



No. AAMS(UG)/ 52 of 2022-23

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges, Directors of the Recognized Institutions in Faculty of Humanities is invited to this office circular No. UG/91 and UG/92 of 2016-17 dated 25th October, 2016 relating to the revised syllabus as per the CBCS for F.Y.B.A. Marathi (Compulsory) and (Ancillary) (Sem. I & II) respectively.

They are hereby informed that the recommendations made by the Board of Studies in **Marathi** at its meeting held on 11th May, 2022 and subsequently passed by the Board of Deans at its meeting held on 17th May, 2022 <u>vide</u> item No. 5.29(R) have been accepted by the Academic Council at its meeting held on 17th May, 2022 <u>vide</u> item No. 5.29(R) and that in accordance therewith, the revised syllabus of **F.Y.B.A.** (Marathi) (Ancillary and Compulsory) Sem I and II (CBCS), has been brought into force with effect from the academic year 2022-23. (The same is available on the University's website <u>www.mu.ac.in</u>).

MUMBAI – 400 032 28th June, 2022

The Principals of the Affiliated Colleges, and Directors of the Recognized Institutions in Faculty of Humanities.

A.C/5.29(R)/17/05/2022

No. AAMS(UG)/ 52-A of 2022-23

Copy forwarded with Compliments for information to:-

- 1) The Dean, Faculty of Humanities,
- 2) The Chairman, Board of Studies Marathi,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Director, Department of Information & Communication Technology,
- 6) The Co-ordinator, MKCL.

28 June, 2022



(Dr. Vinod Patil)

TIC Registrar

Copy to :-

- 1. The Deputy Registrar, Academic Authorities Meetings and Services (AAMS),
- 2. The Deputy Registrar, College Affiliations & Development Department (CAD),
- 3. The Deputy Registrar, (Admissions, Enrolment, Eligibility and Migration Department (AEM),
- 4. The Deputy Registrar, Research Administration & Promotion Cell (RAPC),
- 5. The Deputy Registrar, Executive Authorities Section (EA),
- 6. The Deputy Registrar, PRO, Fort, (Publication Section),
- 7. The Deputy Registrar, (Special Cell),
- 8. The Deputy Registrar, Fort/ Vidyanagari Administration Department (FAD) (VAD), Record Section,
- 9. The Director, Institute of Distance and Open Learning (IDOL Admin), Vidyanagari,

They are requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to in the above circular and that on separate Action Taken Report will be sent in this connection.

- 1. P.A to Hon'ble Vice-Chancellor,
- 2. P.A Pro-Vice-Chancellor,
- 3. P.A to Registrar,
- 4. All Deans of all Faculties,
- 5. P.A to Finance & Account Officers, (F.& A.O),
- 6. P.A to Director, Board of Examinations and Evaluation,
- 7. P.A to Director, Innovation, Incubation and Linkages,
- 8. P.A to Director, Board of Lifelong Learning and Extension (BLLE),
- 9. The Director, Dept. of Information and Communication Technology (DICT) (CCF & UCC), Vidyanagari,
- 10. The Director of Board of Student Development,
- 11. The Director, Department of Students Walfare (DSD),
- 12. All Deputy Registrar, Examination House,
- 13. The Deputy Registrars, Finance & Accounts Section,
- 14. The Assistant Registrar, Administrative sub-Campus Thane,
- 15. The Assistant Registrar, School of Engg. & Applied Sciences, Kalyan,
- 16. The Assistant Registrar, Ratnagiri sub-centre, Ratnagiri,
- 17. The Assistant Registrar, Constituent Colleges Unit,
- 18. BUCTU,
- 19. The Receptionist,
- 20. The Telephone Operator,
- 21. The Secretary MUASA

for information.

AC-17/05/2022

Item No- 5.29 (R)

UNIVERSITY OF MUMBAI



Revised Syllabus for F.Y.B.A Marathi

(Ancillary And Compulsory)

Semester - I And II

(Choice Based Credit System)

(With effect from the academic year 2022-23)

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr	Heading	Particular
No.		
1	Title of the Course	F.Y.B.A (Marathi) Ancillary
		And Compulsory
2	Eligibility for Admission	Candidates with at least 50%
		marks in the senior
		secondary +2 or its
		equivalent
3	Passing Marks	40%
4	Ordinances / Regulation (if any) No. of	
	Years/Semester	
5	No. of Years / Semester	Sem-I and II (CBCS)
6	Level	U.G
7	Pattern	Semester
8	Status	Revised Syllabus
9	To be implemented form Academic Year	From Academic Year 2022-23

annes

Dr. Vandana Mahajan

Rije dio-

Dr. Rajesh Kharat

Name & Signature Of BOS Chairperson :

Name & Signature Of Dean :

FYBA MAR(ANC) (To be implemented from 2022-23) SEM-1 (UMAR 101) SEM2 (UMAR 201)

प्रथम वर्ष बी.ए. मराठी ऐच्छिक (प्रत्येक सत्रात ३ श्रेयांकने)

प्रथम वर्ष बी.ए. मराठी या ऐच्छिक या विषयासाठी २०२२-२३ या शैक्षणिक वर्षापासून नेमलेला अभ्यासक्रम प्रथम वर्ष बी.ए. मराठी ऐच्छिक अभ्यासक्रमात प्रथम सत्रात दोन नाटयकृती व दुसऱ्या सत्रात दोन ललित गद्याचा समावेश करण्यात आला आहे. या अभ्यासक्रमाची श्रेयांकन पद्धतीनुसार रचना करण्यात आली आहे. वरील अभ्यासक्रम दोन सत्रात विभागलेला असून, नेमलेल्या विशिष्ट तासिकामध्ये तो शिकवला जाणे आवश्यक आहे.

अभ्यासपत्रिकेचे उद्दिष्ट्ये -

मराठी साहित्याचा परिचय करून देत असताना साहित्याच्या अभ्यासाकडे वळणाऱ्या विद्यार्थ्यांना विशिष्ट वाङ्मय प्रकारचे ज्ञान मिळवून देणे व साहित्य प्रकाराचे आकलन करून देणे. हे प्रमुख उद्दिष्ट्य या अभ्यासपत्रिकेचे आहे. मराठीतील नाटक आणि ललितगद्य या साहित्यप्रकारांचा परिचय करून देणे.

सत्र – पहिले - एकूण व्याख्याने – ४५, श्रेयांकने- ०३

घटक १ - नाटक या साहित्यप्रकाराचा सैद्धान्तिक परिचय (४८ मिनिटांच्या १५ तासिका) श्रेयांकन- १ नाटक या साहित्यप्रकाराची संकल्पना, नाटक या साहित्य प्रकाराचे घटक, नाटकाचे महत्त्वाचे दोन प्रकार (शोकात्मिका व सुखात्मिका), नाटक एक संमिश्र कला, मराठी नाटकाच्या इतिहासातील महत्त्वाचे टप्पे.

घटक २ - देवभाबळी – प्राजक्त देशमुख,पॉप्युल रप्रकाशन, (४८ मिनिटांच्या १५ तासिका) श्रेयांकन १

घटक ३ – माझं घर – जयंत पवार, शब्दालय प्रकाशन, (४८ मिनिटांच्या १५तासिका) श्रेयांकन १

प्रथम सत्रान्त परीक्षा -

गुण १००

वरील अभ्यासपत्रिकेचे सत्रान्त प्रश्नपत्रिकेचे स्वरूप पुढीलप्रमाणे ठरविण्यात आले आहे.

प्रथम वर्ष बी.ए. मराठी (ऐच्छिक)

प्रश्न १- 'नाटक' या साहित्यप्रकाराचा सैद्धान्तिक परिचय यावर अंतर्गत पर्याय देऊन एक प्रश्न	गुण २०.
प्रश्न २ - देवभाबळी या नाटकावर अंतर्गत पर्याय देऊन एक प्रश्न	गुण २०.
प्रश्न ३ माझं घर या नाटकावर अंतर्गत पर्याय देऊन एक प्रश्न	गुण २०.
प्रश्न ४ प्रत्येक गटातील एकेक टीप लिहा (अंतर्गत पर्यायासह)	गुण ३०.

- १) नाटकाचा सैद्धान्तिक परिचय
- २) देवभाबळी या नाटकावर टिपा
- ३) माझं घर या नाटकावर टिपा
- प्रश्न ५- अभ्यासपत्रिकेतील घटक २ व ३ वर आधारित वस्तुनिष्ठ प्रश्न प्रत्येक घटकावर ४ असे एकूण ८ वस्तुनिष्ठ स्वरूपाचे प्रश्न विचारले जातील परीक्षार्थींनी त्यापैकीकोणतेही ५ प्रश्न सोडवायचे आहेत. प्रत्येक योग्य उत्तरास २ गुण असे एकूण गुण १०

प्रथम वर्ष बी.ए. मराठी (ऐच्छिक)

सत्र दुसरे - एकूण व्याख्याने ४५, श्रेयांकने - ०३

घटक १- ललितगद्य या साहित्यप्रकाराचा सैद्धांतिक परिचय (१५ तासिका) श्रेयांकन - १ या साहित्यप्रकाराची संकल्पना, ललितगद्य या साहित्य प्रकाराचे विविध घटक व विविध प्रकार आणि मराठीतील ललितगद्याचा इतिहास याचा परिचय करणे.

घटक २- इरावती कर्वे – परिपूर्ति

घटक ३- ग्रेस – चर्चबेल

दुसरी सत्रान्त परीक्षा	गुण १००
वरील अभ्यासपत्रिकेचे सत्रांत प्रश्नपत्रिकेचे स्वरूप पुढीलप्रमाणे ठरविण्यात आले आहे.	
प्रथम वर्ष बी. ए. मराठी (ऐच्छिक)	
प्रश्न १ – घटक १ वर अंतर्गत पर्यायासह एक प्रश्न	गुण २०
प्रश्न २ - घटक २ मधील ललितगद्यावर अंतर्गत पर्याय देऊन एक प्रश्न	गुण २०
प्रश्न ३ - घटक ३ मधील ललितगद्यावर अंतर्गत पर्याय देऊन एक प्रश्न	गुण२०
प्रश्न ४ - प्रत्येक गटातील एकेक टीप लिहा - (अंतर्गत पर्यायांसह)	गुण ३०
१) ललितगद्याचा सैद्धान्तिक परिचय	

- २) घटक २ मधील ललितगद्य
- ३) घटक ३ मधील ललितगद्य
- प्रश्न ५ अभ्यासपत्रिकेतील घटक २ व ३ वर आधारित वस्तुनिष्ठ प्रश्न प्रत्येक घटकावर ४ असे एकूण ८ वस्तुनिष्ठ स्वरूपाचे प्रश्न विचारले जातील परीक्षार्थीनी त्यापैकी कोणतेही ५ प्रश्न सोडवायचे आहेत. प्रत्येक योग्य उत्तरास २ गुण असे एकूण गुण १०.

FYBA-MAR- Comp (To be implemented from 2022-23) SEM-1 (UAMAR 1C1) प्रथम वर्ष बी.ए. मराठी अनिवार्य

प्रथम वर्ष बी.ए मराठी अनिवार्य या विषयासाठी २०२२-२३ या शैक्षणिक वर्षापासून नेमलेला अभ्यासक्रम सत्र – पहिले - एकूण व्याख्याने - ४० श्रेयांकने- ०२ घटक १ जिवहक कशांचा अभ्याम	गुण ५०
र) योगाराज वाधमार 	
३) लक्ष्मण मान	
४) भारत सासण	
५) उषाकिरणआत्राम	
६) जयंत पवार	
७) अशोक कौतिक कोळी	
८) शिल्पा कांबळे	
९) रफिक सूरज	
१०)बबन पोतदार	
१९)प्रणव सखदेव	
१२)विवेक कुडू	
(कथांची नावे नंतर कळविण्यात येतील.)	
घटक - २ व्यावहारिक मराठी - (घटकविषय) - (२० तासिका) - श्रेयांकन १	गुण ५०
व्यावहारिक मराठी या विषयासाठी घटकविषय	
१) मराठी लेखनाचे नियम व विरामचिन्हे	
२) वर्तमानपत्रासाठी वृत्तलेखन	
३) वृत्तांतलेखन	
४) अर्जलेखन	
५)भाषांतर (इंग्रजीतून मराठीत)	
सत्रांत परीक्षा	
प्रथम सत्रान्त परीक्षा	गुण १००

वरील अभ्यासपत्रिकेचे सत्रांत प्रश्नपत्रिकेचे स्वरूप पुढीलप्रमाणे ठरविण्यात आले आहे. प्रथम वर्ष बी.ए. मराठी (अनिवार्य)

प्रश्न १- घटक १ वर आधारित अंतर्गत पर्याय देऊन एक प्रश्न	गुण २०.
प्रश्न २ -घटक १ वर आधारित अंतर्गतप र्याय देऊन एक प्रश्न	गुण २०.
प्रश्न ३ -घटक १ वर आधारित चार पैकी दोन टिपा	गुण १०.
प्रश्न ४- मराठी लेखनाचे नियम व विरामचिन्हे या उपघटकावर आधारित अंतर्गत पर्यायासह	
प्रत्येकी ५ गुणांचे २ प्रश्न एकूण	गुण १०.
प्रश्न ५ - वर्तमानपत्रासाठी वृत्तलेखन या उपघटकावर अंतर्गत पर्यायासह १ प्रश्न	गुण १०
प्रश्न ६- वृत्तांतलेखन या उपघटकावर अंतर्गत पर्यायांसह १ प्रश्न	गुण १०
प्रश्न ७- अर्जलेखन या उपघटकावर अंतर्गत पर्यायांसह १ प्रश्न	गुण १०
प्रश्न८- भाषांतर (इंग्रजीतून मराठीत) या उपघटकावर अंतर्गत पर्यायासह १ प्रश्न	गुण १०

संदर्भ सूची

- १) कथा : संकल्पना आणि समीक्षा सुधा जोशी
- २) मराठी कथामूल्य आणि ऱ्हास जी. के. ऐनापुरे
- ३) रा. रं. बोराडे यांची कथा शोध आणि समीक्षा व्यंकटी पावडे
- ४) मराठीतील कथनरूपे वसंत आबाजी डहाके
- ५) कथनात्म साहित्य आणि समीक्षा हरिश्चंद्र थोरात
- ६) स्त्रियांचे कथालेखन नवी दृष्टी, नवी शैली डॉ. मंगला वरखेडे
- ७) मराठी कथा विसावे शतक संपा. के. ज. पुरोहित

SEM- 2 (UAMAR 2C1)

सत्र – दुसरे - एकूण व्याख्याने ४०, श्रेयांक– ०२

वरील अभ्यासपत्रिकेचे प्रथम सत्रान्तप्रश्नपत्रिकेचे स्वरूप पुढीलप्रमाणे ठरविण्यात आले आहे.

घटक १ निवडक कवितांचा अभ्यास (२० तासिका) श्रेयांकन १

- १) आसावरी काकडे
- २) सिसिलिया कार्व्हालो
- ३) किशोर कदम
- ४) भगवान निळे
- ५) नीरजा
- ६) योगिनी राऊळ
- ७) छाया कोरेगावकर
- ८) आय. ए. पवार
- ९) वैभव सोनारकर
- १०) वीरधवल परब
- ११) अजीम नवाज राही
- १२) नीलकंठ शेरे
- १३) महेंद्र गायकवाड
- १४) मच्छिंद्र चोरमारे
- १५) प्रतिभा सराफ
- १६) संजय बोरुडे
- १७) संजय बालघाटे
- १८) पितांबर कोडापे
- १९) हबीब भंडारे
- २०) योजना यादव
- २१) विनायक पवार
- २२) मेघराज मेश्राम
- २३) अनिल साबळे
- २४) नामदेव कोळी
- २५) हेमंत सोनकांबळे

(कविता नंतर कळविण्यात येतील.)

घटक - २ व्यावहारिक मराठी - (४ घटकविषय) - (२० तासिका) - श्रेयांकन १

गुण ५०

- १) इतिवृत्तलेखन
- २) वर्तमान पत्रासाठी जाहिरातलेखन
- ३) उताऱ्यावरील प्रश्न
- ४) सारांशलेखन
- ५) निबंधलेखन

प्रश्न १- घटक क्र. १ वर आधारित पर्याय देऊन एक प्रश्न	गुण २०.
प्रश्न २- घटक क्र. १ वर आधारित पर्याय देऊन एक प्रश्न	गुण २०.
प्रश्न ३- घटक क्र. १ वर आधारित चार पैकी दोन टिपा	गुण १०.
प्रश्न ४- इतिवृत्तलेखन या उपघटकावर आधारित अंतर्गत पर्यायासह १ प्रश्न	गुण १०
प्रश्न ५- वर्तमानपत्रासाठी जाहिरातलेखन या उपघटकावर अंतर्गत पर्यायांसह १ प्रश्न	गुण १०
प्रश्न ६- उताऱ्यावरील या उपघटकावर अंतर्गत पर्यायांसह १ प्रश्न	गुण १०
प्रश्न ७ - सारांशलेखन या उपघटकावर अंतर्गत पर्यायांसह १ प्रश्न	गुण १०
प्रश्न ८- निबंधलेखन या उपघटकावर अंतर्गत पर्यायांसह १ प्रश्न	गुण १०

संदर्भग्रंथ

- १. कुलकर्णी, वा० ल०; मराठी कविता-जुनी आणि नवी, पॉप्युलर प्रकाशन आणि मौज प्रकाशन गृह, मुंबई, १९८७.
- २. गणोरकर, प्रभा (संपा०); संक्षिप्त मराठी वाङ्मयकोश, (१९२० पासून २००३ पर्यंतचा कालखंड), जी० आर० भटकळ फाउंडेशन, मुंबई, २००४.
- ३.भागवत, श्री० पु० व इतर (संपा०); साहित्य-अध्यापन आणि प्रकार, पॉप्युलर प्रकाशन गृह, मुंबई.
- ४. पाटणकर, वसंत; कविता: संकल्पना, निर्मिती आणि समीक्षा, मराठी विभाग, मुंबई विद्यापीठ व अनुभव प्रकाशन, मुंबई, १९९५.
- ५. पाटणकर, वसंत, शोध कवितेचा, मौज प्रकाशन गृह, मुंबई, २०११. ६. डहाके, वसंत आबाजी; कवितेविषयी, स्वरूप प्रकाशन, औरंगाबाद, १९९९.
- ७. बेडेकर, दि० के०; आधुनिक मराठी काव्य उद्गम आणि भवितव्य, नागपूर विद्यापीठ, नागपूर, १९६९.
- ८. रसाळ, सुधीर; काही मराठी कवी जाणिवा आणि शैली, जनशक्ती वाचक चळवळ, औरंगाबाद, आवृत्ती ३ री, २०११.
- ९. करोगल, सुषमा (संपा०); स्वातंत्र्योत्तर मराठी कविता, प्रतिमा प्रकाशन, पुणे, १९९९.
- १०. गाडगीळ, डॉ. स. रा., काव्यशास्त्रप्रदीप, व्हीनसप्र काशन, पुणे, २०१६
- ११. रसाळ, सुधीर, कविता आणि प्रतिमा, मौज प्रकाशनगृह, मुंबई, १९८२
- १२.गाडगीळ, डॉ. स. रा., मराठी काव्याचे मानदंड (खंड पहिला), पद्मगंधा प्रकाशन, पुणे, २००५

Cover Page

AC_____ Item No. _____

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	S.Y.B.A. (MARATHI)
2	Eligibility for Admission	F.Y.B.A. Pass
3	Passing Marks	40
4	Ordinances / Regulations (if any)	Nil
5	No. of Years / Semesters	01 (Two Semester)
6	Level	U.G.
7	Pattern	Semester
8	Status	Revised
9	To be implemented from Academic Year	From Academic Year 2021-22

Name & Signature of BOS Chairperson :

2 Himin

Name & Signature of Dean:



मुंबई विद्यापीठ द्वितीय वर्ष बी.ए. मराठी अभ्यासक्रम (CBCS)

Course Code	Core Course	No of Credits
सत्र ३ रे		
UAMAR ३०१	कथन साहित्य	R
UAMAR ३०२	भाषा आणि बोली अभ्यास	સ
सत्र ४ थे		
UAMAR ४०१	नाट्य साहित्य	२
UAMAR ४०२	मराठी व्याकरण आणि लेखन कौशल्ये (स्पर्धा	3
	परीक्षा)	

SYBA - MAR - (II)

(To be implemented from 2021-2022)

द्वितीय वर्ष बी. ए. मराठी अभ्यासपत्रिका क्र.२ **कथन साहित्य** सत्र ३ (तिसरे)- एकूण व्याख्याने ४५ - श्रेयांकने - ०३ *उदिष्टे (Objective)*

- १) कथन साहित्याचा परिचय करून घेणे
- २) कादंबरी या वाड्मय प्रकाराचे स्वरूप व वैशिष्ट्ये समजून घेणे
- ३) नेमलेल्या कादंबरीचे विविध घटकानुसार विवेचन व विश्लेषण करणे
- ४) कथा या वाड्मय प्रकाराचा घटकानुसार नेमलेल्या कथासंग्रहाचे विश्लेषण करणे

घटक-१ कथन साहित्याचा परिचय (१५ तासिका) श्रेयांकन १ अ) कथा व कादंबरी या साहित्य प्रकाराचा सैद्धांतिक परिचय

घटक- २ 'फेसाटी - कादंबरी – नवनाथ गोरे, अक्षर वाङ्यमय प्रकाशन (१५ तासिका) श्रेयांकन १

घटक -३ 'बक-याची बॉडी – समर खडस, शब्दालय प्रकाशन (१५ तासिका) श्रेयांकन १

तृतीय सत्रान्त परीक्षा - गुण १००

वरील अभ्यासपत्रिकेचे प्रथम सत्रान्त प्रश्नपत्रिकेचे स्वरूप पुढीलप्रमाणे -

प्रश्न १- ' कथन' साहित्यप्रकाराचा सैद्धान्तिक परिचय यावर पर्याय देऊन एक प्रश्न - गुण २०.

प्रश्न २ - ''फेसाटी ' या कादंबरीवर पर्याय देऊन एक प्रश्न – गुण २०.

प्रश्न३ - "'बक-याची बॉडी" कथा संग्रहावर ' पर्याय देऊन एक प्रश्न – गुण २०.

प्रश्न ४ – तिन्ही गटातील सहा टीपा विचाराव्यात किवा लघुत्तरी प्रश्न विचारावेत विद्यार्थ्यांनी कोणतेही चार सोडवाव्यात - गुण ४०.

१) कथन' साहित्यप्रकाराचा सैद्धान्तिक परिचय

२) 'फेसाटी '

३) "'बक-याची बॉडी"

साध्ये (Outcome)

- १) मराठी साहित्यातील कथन साहित्य अभ्यासून विद्यार्थ्यांना कथन साहित्याचे विश्लेषण करून मर्म ग्रहण करता येईल
- २) कथा कादंबरी वाचताना कोणत्या दृष्टीने वाचावे याचेज्ञान प्राप्त होईल

संदर्भ ग्रंथ

- १) फेसाटी : चिंतन आणि मंथन, संपा. आशा मुंडे, संग्राम टेकले, अथर्व पब्लिकेशन्स, जळगाव
- २) फेसाटी विशेषांक, वारूळ त्रेमासिक दिवाळी २०१८

सत्र -४ (चौथे) एकूण व्याख्याने ४५ - श्रेयांकने -३ द्वितीय वर्ष बी. ए. मराठी अभ्यासपत्रिका क्र.२

नाट्य साहित्य

उदिष्टे (Objective)

१) नाटक या वाङ्मय प्रकारची संकल्पना व त्याचे स्वरूप समजून घेणे

२) मराठी नाट्य वाड्मयाची वाटचाल ठळक नाट्याधारे लक्षात घेणे

३) एकांकिका या नाट्यप्रकारचे स्वरूप व त्याची वैशिष्टे जाणून घेणे

४) मराठीतील एकांकिका वाटचाल लक्षात घेणे

५) निवडक एकांकिकांचा अभ्यास करणे आणि लेखनाचे स्वरूप वैशिष्टे समजून घेणे

घटक १: नाट्य ('नाटक व एकांकिका') या साहित्यप्रकाराची ठळक वैशिष्ट्ये (१५ तासिका) श्रेयांकन- १

घटक २: 'आमदार सौभाग्यवती '- नाटक – श्रीनिवास जोशी (रा रं बोराडे यांच्या कादंबरीवर आधारित नाटक) काँटिनेनटल प्रकाशन, (१५ तासिका) श्रेयांकन १

घटक ३: निवडक एकांकिकाचा अभ्यास (१५ तासिका)श्रेयांकन १

- १ झूलता पूल सतीश आळेकर
- २ रक्तपुष्प महेश एलकुंचवार
- ३ जहाज फुटलं आहे : दत्ता भगत
- ४ दुकान कुणी मांडू नये : संजय पवार
- ५ काजळ कुबड्या एकांताला : प्रा. दिलीप परदेशी
- ६ कृष्णाजी केशव : प्रल्हाद जाधव
- ७ चिऊताई चिऊताई दार उघड : प्रदीप राणे
- ८ रिक्षावाला : चंद्रशेखर फणसळकर
- ९. दगड आणि माती : दत्ता पाटील

चतुर्थ सत्रान्त परीक्षा - गुण १००

वरील अभ्यासपत्रिकेचे प्रथम सत्रान्त प्रश्नपत्रिकेचे स्वरूप पुढीलप्रमाणे -

प्रश्न १- नाट्य ('नाटक व एकांकिका') या साहित्यप्रकाराचा सैद्धान्तिक परिचय यावर पर्याय देऊन एक प्रश्न - गुण २०.

प्रश्न २ -'आमदार सौभाग्यवती ' या नाटकावर पर्याय देऊन एक प्रश्न – गुण २०.

प्रश्न३ - निवडक एकांकिकावर ' पर्याय देऊन एक प्रश्न – गुण २०.

प्रश्न ४ – तिन्ही गटातील सहा टीपा विचाराव्यात किवा लघुत्तरी प्रश्न विचारावेत विद्यार्थ्यांनी कोणतेही चार सोडवाव्यात - गुण ४०.

१) नाट्य ('नाटक व एकांकिका') या साहित्यप्रकाराचा सैद्धान्तिक परिचय

२) 'आमदार सौभाग्यवती '

३) निवडक एकांकिका

साध्ये (Outcome)

१) नाटक आणि एकांकिका या प्रकारचे वाड्ययीन स्वरूप लक्षात येईल

- २) नाट्य साहित्याची वाटचाल समजेल
- ३) नाट्य ज्ञान मिळून नाट्य रचना करता येईल

संदर्भ ग्रंथ

१)आधुनिक मराठी नाटक (आशय आणि आकृतीबंध) सुषमा जोगळेकर

२) दलित रंगभूमी – संपादन व प्रस्तावना : भालचंद्र फडके, सुरेश एजन्सी, पुणे

३) मराठी नाटक आणि रंगभूमी : पहिले शतक (१८४३ ते १९४३) वि.भा. देशपांडे, व्हीनस, पुणे

४ : मराठी नाटक (स्वातंत्र्योत्तर काळ) १९४७ ते १९९०वि (.भा, देशपांडेपुणे ,व्हीनस ,

५ मराठी नाटक आणि रंगभूमी (विसावे शतक : वसंत आबाजी डहाके पॉप्युलर प्रकाशन मुंबई

६ मराठी नाटक आणि रंगभूमी (: हिमांशू स्मार्त, विश्वनाथ शिंदे, प्रतिमा प्रकाशन, पुणे.

७) नाटक एक वाङ्मय प्रकार : दत्ता भगत, य.च.म.मु.वि., नाशिक

८) नाटक आणि मी ,विजय तेंडुलकर, डिम्पल प्रकाशन ,मुंबई, ,१९९७.

९) नाटक एक चिंतन – कानेटकर वसंत

१०) नाटकातली चिन्हं – नाईक राजीव

११) महानगरी नाटकं – नाईक राजीव

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१२) मराठी नाटक : नव्या दिशा आणि वळणे, भवाळकर, तारा
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१३) नाटक कालचं आणि आजचं : राजापुरे-तापास, पुष्पलता

१४) प्रायोगिक नाटक : भारतीय आणि जागतिक-(संपा) सूर्यवंशी नानासाहेब

१५) निवडक मराठी एकांकिका : संपा. सुधा जोशी, रत्नाकर मतकरी, साहित्य अकादमी, दिल्ली.

१६) निवडक एकांकिका : वि.भा. देशपांडे, १९७७

१७) सर्वोत्कृष्ट मराठी एकांकिका, प्रभाकर नारायण परांजपे, सुपर्ण प्रकाशन, पुणे, १९४८

१८) मराठी एकांकिका तंत्र आणि विकास, संपादक श्री. रं.भी. भिडे सुपर्ण प्रकाशन पुणे.

१६) एकांकिका विशेषांक, पंचधारा, जुलै-सप्टेबर, २०१५

व्दितीय वर्ष, कला, मराठी अभ्यासपत्रिका क्र. ३ सत्र ३, अभ्यासपत्रिका क्र. ३, एकूण व्याख्याने ४५, श्रेयांकने ३ भाषा आणि बोली अभ्यास

उद्दिष्टे (Objective)

- १) भाषेचे स्वरूप समजून घेणे
- २) भाषाबोली समाजाचा परस्पर संबध अभ्यासणे
- ३) बोलीचे स्वरूप व विषय समजून घेणे

घटक १ (अ) मानवी भाषेचे स्वरूप, एकूण व्याख्याने १५, श्रेयांकने १

संप्रेषण – मानवी आणि मानवेतरांचे, मानवांचे भाषिक व भाषेतर संप्रेषण, मानवी भाषेची लक्षणे किंवा स्वरूप विशेष (ध्वन्यात्मकता, चिन्हात्मकता, यादृच्छिकता, सर्जनशीलता,प्रत्यक्षातीतता, सामाजिकता,परिवर्जनशीलता इ.) मानवी भाषेच्या व्याख्या

(आ) भाषेची विविध कार्ये - रोमान याकबसनचे संप्रेषणाचे नमुनारूप व ६ भाषिक कार्ये (निर्देशात्म, आविष्कारात्म, परिणामनिष्ठ, सौंदर्यात्म, संपर्कनिष्ठ, अतिभाषात्म)

घटक २ (अ) भाषा, समाज आणि संस्कृती - एकूण व्याख्याने १५, श्रेयांकने १

भाषा - एक सांस्कृतिक संचित, सांस्कृतिक जडणघडणीचे, संक्रमणाचे माध्यम एडवर्ड सपीरबेंजामीन वोर्फ यांचा भाषिक सापेक्षतावादाचा अभ्युपगम भाषेकडे पाहण्याचा समाज भाषावैज्ञानिक दृष्टिकोण, समाजातील भाषावैविध्य आणि भाषेचा बहुजिनसीपणा, भाषिकसांस्कृतिक विविधता परस्परसंबंध

आ) भाषा, प्रमाण भाषा आणि बोली : संकल्पना विचार व्याख्याने १५ श्रेयांकने १

'प्रमाण भाषा' म्हणजे काय, प्रमाण भाषेची आवश्यकता, प्रमाण भाषा व बोली यांच्यातील संबंध, त्यांचे वापरक्षेत्र, बोलीवैविध्य- उपबोली, स्थानिक बोली-प्रादेशिक बोली- जातिनिष्ठ बोली-सामाजिक बोली इ., बोलींविषयीचे गैरसमज (शुद्धाशुद्धता, श्रेष्ठकनिष्ठता, अंगभूत क्षमता इ.) व तथ्ये, मराठीच्या विविध बोली

घटक ३ (अ) बोलींच्या अभ्यासाची गरज व महत्त्व

बोलीविज्ञान (Dialectology), बोलींच्या अभ्यासाची दिशा - बोलींचा विजनात्मक अभ्यास, सामाजिक-सांस्कृतिक अभ्यास, बोलींच्या अभ्यासाची साधने, क्षेत्रीय कार्य (Field Work), बोलींची व्याकरणे व कोशरचना यांचे महत्त्व, बोलींसमोरील आव्हाने व त्यांचे जतन व संवर्धन यांसाठी करावयाच्या प्रयत्नांची दिशा आ) मराठीतील प्रमुख बोली : वऱ्हाडी, अहिराणी, कोकणी बोलीचे स्वरूप विशेष इ) मालवणी व आगरी बोलींची वैशिष्ट्ये- व्युत्पत्ती आणि विकास, व्याकरणिक वैशिष्ट्ये, उच्चार प्रक्रिया, म्हणी, वाक् प्रचार, शब्दसंग्रह इ.

सत्रांत परिक्षेचे स्वरूप

प्रश्न क्र. १ घटक १ वर अंतर्गत पर्यायासह एक प्रश्न (गुण २०) प्रश्न क्र. २ घटक २ वर अंतर्गत पर्यायासह एक प्रश्न (गुण २०) प्रश्न क्र. ३ घटक ३ वर अंतर्गत पर्यायासह एक प्रश्न (गुण २०) प्रश्न ४ – तिन्ही गटातील सहा टीपा विचाराव्यात किवा लघुत्तरी प्रश्न विचारावेत विद्यार्थ्यांनी कोणतेही चार सोडवाव्यात - गुण ४०.

साध्ये (Outcome)

- १) मराठी भाषेचे स्वरूप समजेल
- २) मराठीच्या विविध बोलींचे ज्ञान होईल
- ३) मराठी बोलीअभ्यासाला चालना मिळेल

संदर्भ ग्रंथ:

१) भारतीय भाषांचे लोकसर्वेक्षण: सर्वेक्षण मालिका मुख्य संपादक- डॉ. गणेश देवी, महाराष्ट्र खंड संपादन: अरुण जाखडे, पद्मगंधा प्रकाशन, २०१३

२) मालवणी बोली-व्याकरण, साहित्य व शब्द कोश, संपा डॉ. पुष्पलता राजापुरे-तापस, डॉ. रमेश धोंगडे, शब्दपरी प्रकाशन.

सत्र ४ (चौथे) एकूण व्याख्याने ४५ श्रेयांकने ३ मराठी व्याकरण आणि लेखन कौशल्ये (स्पर्धा परीक्षा)

उद्दिष्टे (Objective)

- १) भाषा लेखन कौशल्य आत्मसात करणे
- २) निबंध लेखनाचे कौशल्ये आत्मसात करणे
- ३) निबंध लेखनाचा सराव करणे
- ४) संगणकीय उपयोजन करणे
- ५) मराठी व्याकरण समजून त्याचे उपयोजन करणे

घटक १ व्याकरण **एकूण व्याख्याने १५, श्रेयांकने १** वर्णमाला शब्दांच्या जाती काळ लिंग वचन प्रयोग अलंकार वृत्ते समास वाक्यांचे प्रकार शब्दसंधी संधी-स्वरसंधी विभक्ती विरामचिन्हे समानार्थी शब्द विरुद्धार्थी शब्द वाक्प्रचार म्हणी व अर्थ विरामचिन्हे शब्द समूहाबद्दल एक शब्द अलंकाराचे प्रकार इत्यादी घटकांची संक्षेपाने चर्चा

घटक २ एकूण व्याख्याने १५, श्रेयांकने १ मराठी भाषा आणि आधुनिक तंत्रज्ञान परिचय व प्रात्यक्षिक पॉवरपॉईंट प्रेझेन्टेशन, युनिकोड टंकलेखन.

घटक ३ एकूण व्याख्याने १५, श्रेयांकने १

- अ निबंध
- आ कल्पना विस्तार
 - इ आकलन
 - ई सारांश लेखन

चतुर्थ सत्रांत परीक्षेचे स्वरूप

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प्रश्न क्र. १ घटक १ वस्तुनिष्ठ स्वरुपाचे ४० पैकी कोणतेही ३० प्रश्न सोडविणे (गुण ६०)
प्रश्न क्र. २ घटक २ वर अंतर्गत पर्यायासह एक प्रश्न (गुण २०)
प्रश्न क्र. ३ घटक ३ वर अंतर्गत पर्यायासह एक प्रश्न (गुण २०)
संदर्भ ग्रंथ:
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साध्ये (Outcome)

- १) भाषालेखन कौशल्य आत्मसात होईल
- २) मराठीचे लेखन कौशल्य प्राप्त होईल
- ३) संगणकासाठी मराठी भाषेचा उपयोग होईल
- ४) स्पर्धा परीक्षा उत्तीर्ण होण्यासाठी हा अभ्यासक्रम उपयुक्त ठरेल.

संदर्भ ग्रंथ-

- १) मराठी व्याकरण : प्रा डॉ. के.पी. शहा, ओम पब्लिकेशन, सप्टेंबर २०१२
- २) मराठीचे व्याकरण : डॉ लीला गोविलकर, शब्दालय प्रकाशन, जून २०१५
- ३) मराठी भाषेचे वाक्यप्रकार व म्हणी : कै. विद्याधर वामन भिडे, चित्रशाळा प्रकाशन पुणे, ऑक्टोबर १९१८
- ४) मराठी भाषेचा भाषावैज्ञानिक अभ्यास : डॉ. अलका मटकर, शब्दालय प्रकाशन, २०१७
- ५) मराठी लेखन शुद्धी : डॉ. भास्कर गिरिधारी, गौतमी प्रकाशन, नाशिक, २०१२
- ६) मराठी व्याकरण वाद आणि प्रवाद, कृष्ण श्री अर्जुनवाडकर
- ७) मराठी व्याकरण काही समस्या : प्र. ना. दीक्षित
- ८) मराठी व्याकरणाचा इतिहास कृष्ण श्री अर्जुनवाडकर
- ९) मराठी व्याकरण : मो. रा. वाळंबे
- १०) मराठी व्याकरणविवेक : मा. ना. आचार्य
- ११) मराठी व्याकरणाचा पुनर्विचार :अरविंद मंगरुळकर
- १२) मराठीचे व्याकरण : लीला गोविलकर
- १३) शास्त्रीय मराठी व्याकरण : मोरो केशव दामले
- १४) शुद्धलेखनविवेक : द.ना गोखले
- १५) आधुनिक माहिती तंत्रज्ञानाच्या विश्वात : दीपक शिकारपूर, उज्ज्वल साठे, उत्कर्ष प्रकाशन पुणे.

University of Mumbai



No. AAMS(UG)/57-of 2021-22

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the Recognized Institutions in Faculty of Humanities is invited to this office circular No. UG/10 of 2018-19, dated 14th June, 2018 relating to the revised syllabus as per the (CBCS) of T.Y.B.A. in Marathi -Sem V & VI.

They are hereby informed that the recommendations made by the Board of Studies in Marathi at its online meeting held on 25th May, 2021 vide Item No. 2 and subsequently passed by the Board of Deans at its meeting held on 11th June, 2021 vide item No. 5.31 (R) have been accepted by the Academic Council at its meeting held on 29th June, 2021 vide item No. 5.31 (R) and that in accordance therewith, the revised syllabus as per the (CBCS) of T.Y.B.A. (Marathi) Sem V & VI has been brought into force with effect from the academic year 2021-22 accordingly. (The same is available on the University's website www.mu.ac.in).



MUMBAI - 400 032 22nd September, 2021

To

The Principals of the Affiliated Colleges and Directors of the Recognized Institutions in Faculty of Humanities. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C/5.31 (R) 29/06/2021

No. AAMS(UG)/ 57-A of 2021-22

**** MUMBAI-400 032

22nd September, 2021

Copy forwarded with Compliments for information to:-

1) The Dean, Faculty of Humanities,

2) The Chairman, Board of Studies in Marathi,

3) The Director, Board of Examinations and Evaluation,

4) The Director, Board of Students Development,

5) The Co-ordinator, University Computerization Centre,



Copy to :-

- 1. The Deputy Registrar, Academic Authorities Meetings and Services (AAMS),
- 2. The Deputy Registrar, College Affiliations & Development Department (CAD),
- 3. The Deputy Registrar, (Admissions, Enrolment, Eligibility and Migration Department (AEM),
- 4. The Deputy Registrar, Research Administration & Promotion Cell (RAPC),
- 5. The Deputy Registrar, Executive Authorities Section (EA),
- 6. The Deputy Registrar, PRO, Fort, (Publication Section),
- 7. The Deputy Registrar, (Special Cell),
- 8. The Deputy Registrar, Fort/ Vidyanagari Administration Department (FAD) (VAD), Record Section,
- 9. The Director, Institute of Distance and Open Learning (IDOL Admin), Vidyanagari,

They are requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to in the above circular and that on separate Action Taken Report will be sent in this connection.

- 1. P.A to Hon'ble Vice-Chancellor,
- 2. P.A Pro-Vice-Chancellor,
- 3. P.A to Registrar,
- 4. All Deans of all Faculties,
- 5. P.A to Finance & Account Officers, (F.& A.O),
- 6. P.A to Director, Board of Examinations and Evaluation,
- 7. P.A to Director, Innovation, Incubation and Linkages,
- 8. P.A to Director, Board of Lifelong Learning and Extension (BLLE),
- 9. The Director, Dept. of Information and Communication Technology (DICT) (CCF & UCC), Vidyanagari,
- 10. The Director of Board of Student Development,
- 11. The Director, Department of Students Walfare (DSD),
- 12. All Deputy Registrar, Examination House,
- 13. The Deputy Registrars, Finance & Accounts Section,
- 14. The Assistant Registrar, Administrative sub-Campus Thane,
- 15. The Assistant Registrar, School of Engg. & Applied Sciences, Kalyan,
- 16. The Assistant Registrar, Ratnagiri sub-centre, Ratnagiri,
- 17. The Assistant Registrar, Constituent Colleges Unit,
- 18. BUCTU,
- 19. The Receptionist,
- 20. The Telephone Operator,
- 21. The Secretary MUASA

for information.

AC – 29/06/2021 Item No. – 5.31(R)



UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	T.Y.B.A. (MARATHI)
2	Eligibility for Admission	S.Y.B.A. Pass
3	Passing Marks	40
4	Ordinances / Regulations (if any)	Nil
5	No. of Years / Semesters	01 (Two Semester)
6	Level	U.G.
7	Pattern	Semester
8	Status	Revised
9	To be implemented from Academic Year	From Academic Year 2021-22

Name & Signature of BOS Chairperson :



Name & Signature of Dean:



अभ्यासक्रम (CBCS)

Course Code	Core Course	No of Credits
सत्र ५ वे		
UAMAR ५०१	अभ्यासपत्रिका क्र. ४. मध्ययुगीन मराठी वाङ् मयाचा इतिहास भाग १	8
UAMAR ५०२	अभ्यासपत्रिका -५ भारतीय साहित्यविचार	8
UAMAR ५०३	अभ्यासपत्रिका ६. साहित्य आणि समाज भाग १	3
UAMAR ५०४	अभ्यासपत्रिका क्र. ७ भाषाविज्ञान	8
UAMAR ५०५	अभ्यासपत्रिका क्र. ८ आधुनिक मराठी साहित्य,	8
UAMAR ५०६	अभ्यासपत्रिका क्र. ९ भाषांतर कौशल्य	३
सत्र ६ वे		
UAMAR ६०१	अभ्यासपत्रिका क्र. ४. मध्ययुगीन मराठी वाङ् मयाचा इतिहास भाग २	8
UAMAR ६०२	अभ्यासपत्रिका -५ पाश्चात्य साहित्यविचार	8

UAMAR ६०३	अभ्यासपत्रिका ६. साहित्य आणि समाज भाग २	३
UAMAR ६०४	अभ्यासपत्रिका क्र. ७ मराठी व्याकरण	8
UAMAR ६०५	अभ्यासपत्रिका क्र. ८ उत्तर आधुनिक मराठी साहित्य,	8
UAMAR ६०६	अभ्यासपत्रिका क्र. ९ व्यावसायिक मराठी	३

अभ्यासपत्रिका क्र. ४. मध्ययुगीन मराठी वाङ् मयाचा इतिहास भाग १ सत्र - ५वे (श्रेयांकने-४) व्याख्याने -६०

उदिष्टे (Objective)

१) मध्यमयुगीन वाड्मयीन इतिहासाचा परिचय करून देणे

२) मध्यमयुगीन कालखंडातील वाड्र्यय निर्मिती प्रेरणा व सास्कृतिक पार्श्वभूमीचा उलगडा करणे

३) मध्यमयुगीन कालखंडातील वाडमयीन परंपरा, रचना प्रकार व ग्रंथकारांची माहिती करून घेणे

.४) मध्यमयुगीन कालखंडातील मराठी भाषेचे स्वरूप स्पष्ट करणे

५) वारकरी संप्रदायातील प्रमुख संतकवींच्या काव्य्निर्मितीचे स्वरूप जाणून घेऊन त्यांची वैशिष्टे लक्षात घेणे

६) पंडिती काव्याचे स्वरूप समजावून घेणे

घटक -१ मराठी साहित्याची सुरुवात व महानुभावीय वाङ् मय

अ) मराठी साहित्याची सुरुवात - मराठी : देशीभाषा म्हणून ८, ९वे शतक परिचय, मराठीतील आद्यग्रंथ :चर्चा, शिलालेख, ताम्रपट यावरील मराठी लेखन. – थोडक्यात परिचय

ब) महानुभाव संप्रदायाची ठळक वैशिष्ट्ये : व्दैती तत्त्वज्ञान, पंचकृष्ण, चक्रधरांचे व्यक्तिमत्त्व, मराठीचा स्वीकार व आग्रह, सांकेतिक लिपी.

महानुभावीय वाङ्मय : चरित्रग्रंथ, तत्त्वज्ञानग्रंथ, सातीग्रंथ, स्फुट गद्य-पद्य-धवळे, टीकाग्रंथ, व्याकरणग्रंथ.

घटक -२ वारकरी पंथीयांचे वाङ् मय -

अ) यादवकालीन महाराष्ट्रात वारकरी पंथाची प्रस्थापना, पंढरीचा भक्तीसंप्रदाय हा महाराष्ट्रातील प्रमुख वारकरी संप्रदाय म्हणून तेराव्या शतकात धार्मिक, सामाजिक व साहित्यिक दृष्ट्या प्रभावी.

ब) ज्ञानदेव-नामदेव व त्यांच्या प्रभावळीतील इतरांचे वाङ् मय.

घटक ३ वारकरी पंथीयांचे वाङ् मय –

अ) बहामनी राजवट, एकनाथकालीन महाराष्ट्र, तमोयुग, एकनाथ, एकनाथपंचक यांचे वाङ् मय ब) शिवकालीन महाराष्ट्र – स्वराज्य प्रेरणा. तुकाराम, तुकारामाचे शिष्य यांचे वाङ् मय

घटक ४ पंडिती काव्य-

अ) पंडिती काव्याची स्वरूपवैशिष्ट्ये, पंडिती काव्याचे गुणदोष चर्चा

ब) पंडित कवी- मुक्तेश्वर, मोरोपंत, रघुनाथ पंडित, सामराज, निरंजनमाधव, वामनपंडित,

नागेश, विठ्ठल

सत्रान्त परीक्षा (गुण १००)

प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न ४. घटक ४ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न ५. सर्व घटकांवर आधारित दोन टीपा (पर्यायासह)	गुण २०

साध्ये (Outcome)

- १ प्राचीन मराठी वाड्ययाच्या इतिहासाची माहिती होईल
- २ प्राचीन मराठी वाड्ययाचे रचना प्रकार समजतील
- ३ मराठी भाषेबद्ल अभिमान निर्माण होईल

संदर्भ ग्रंथ-

१) जोग, रा.श्री. व इतर (संपा.) मराठी वाङ् मयाचा इतिहास- खंड ३, महाराष्ट्र साहित्य परिषद, पुणे, प.आ. १९७३.

२) तुळेपुळे, शं.गो., पाच संतकवी, सुविचार प्रकाशन मंडळ, पुणे, १९८४, (ति.आ.)

३) तुळेपुळे, शं. गो. व इतर (संपा.) मराठी वाङ् मयाचा इतिहास- खंड १, महाराष्ट्र साहित्य परिषद, पुणे, प.आ. १९८४.

४) मालशे, सं.गं. व इतर (संपा.) मराठी वाङ् मयाचा इतिहास- खंड २ भाग १ व भाग २, महाराष्ट्र साहित्य परिषद, पुणे, प.आ. १९८२.

५) भावे, वि.ल. महाराष्ट्र सारस्वत, पॉप्युलर, मुंबई,आ. ५वि १९६३.

६) धोंड, म. वा., (संपा.) मऱ्हाटी लावणी, मौज, मुंबई १९५६.

७) शेणोलीकर, ह. श्री., प्राचीन मराठी वाङ् मयाचे स्वरूप, मोघे प्रकाशन, कोल्हापूर, १९७१.

८) सहस्त्रबुद्धे, म. ना., मराठी शाहिरी वाङ् मय, ठोकळ पुणे, १९६१.

९) सरदार गं.बा., संत साहित्याची सामाजिक फलश्रुती, म. सा.प., पुणे १९७० (ति.आ.)

अभ्यासपत्रिका क्र. ४. मध्ययुगीन मराठी वाङ् मयाचा इतिहास भाग २ सत्र - ६वे (श्रेयांकने-४) व्याख्याने -६०

उदिष्टे (Objective)

- १) शाहिरी वाड्मयाचा परिचय करून घेणे-
- २) इतर धर्मीयांनी केलेल्या वाड्ययीन निर्मितीचा परिचय करून घेणे
- ३) वेगवेगळ्या पंथाचे वाड्ययाचा परिचय करून घेणे
- ४) बखर वाड्राय निर्मितीचा परिचय करून घेऊन त्याची ठळक वैशिष्टे जाणून घेणे
- ५) मध्ययुगीन कालखंडातील प्रमुख संप्रदाय व ग्रंथ निर्मिती यांचा अनुबंध स्पष्ट करणे

घटक -१ शाहिरी वाङ् मय-

अ) लावणी, पोवाडे, या काव्य प्रकारांची स्वरूप वैशिष्ट्ये.

ब) काही लावणीकार- होनाजी बाळा, रामजोशी, प्रभाकर, अनंत फंदी, परशराम या शाहिरांचा व

त्यांच्या साहित्याचा परिचय.

घटक -२ महानुभाव व वारकरी यांखेरीज इतर पंथीयांचे वाङ् मय

अ) नाथ, दत्त या पंथातील वाङ् मयाचे स्वरूप.

ब) समर्थ, लिंगायत या पंथातील वाङ् मयाचे स्वरूप

घटक – ३ हिंदू धर्माखेरीज इतर धर्मियांनी केलेली वाङ् मयनिर्मिती

अ) ख्रिस्ती धर्मियांनी केलेली वाङ् मयनिर्मिती

(ख्रिस्ती –फादर स्टीफन्स, क्रुआँ, सालंदाज, पाद्री अल्मैद)

ब) इस्लामी धर्मियांनी केलेली वाङ् मयनिर्मिती

(इस्लामी – मुंतोजी (मृत्युंजय), हुसेन अंबरखान, शेख महमंद, शहामुनी)

घटक – ४ बखर गद्याची स्वरूप वैशिष्ट्ये

अ) बखरी- शिवपूर्वकालीन – महिकावतीची उर्फ माहीमची बखर, राक्षसतागडीची लढाई.

बखरी- शिवकालीन- शिवछत्रपतींचे चरित्र- कृष्णाजी अनंत सभासद, चित्रगुप्तविरचित शिवाजी महाराजांची बखर, श्री छत्रपतींची ९१ कलमी बखर – दत्तोत्रिमल वाकेनिस, मल्हार रामराव चिटणीस विरचित श्री शिवछत्रपतींचे सप्तप्रकरणात्मक चरित्र.

ब) बखरी – पेशवेकालीन- नाना फडणवीसाचे आत्मचरित्र, श्री रामदास स्वामींचे चरित्राची बखर उर्फ हनुमंत स्वामीची बखर, पेशव्यांची बखर, कृष्णाजी विनायक सोहनी, पानिपतची बखर- रघुनाथ यादव, भाऊसाहेबांची बखर-कृष्णाजी शामराव, खडर्याच्या स्वारीची बखर.

सत्रान्त परीक्षा (गुण १००)

प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न ४. घटक ४ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न ५. सर्व घटकांवर आधारित दोन टीपा (पर्यायासह)	गुण २०

साध्ये (Outcome)

- १ शाहिरी वाड्मयाचा परिचय होईल
- २ बखर वाड्ययाचा परिचय होईल
- ३) वेगवेगळ्या पंथाचे वाड्रायांचे स्वरूप लक्षात येईल ४ वेगवेगळ्या धर्मीयांनी केलेल्या वाड्राय निर्मितीचा परिचय होईल
- ५ मध्युगीन वाड्मयाचे स्वरूप स्पष्ट होईल.

अभ्यासपत्रिका -५ भारतीय साहित्यविचार

सत्र – ५ वे (श्रेयांकने-४) व्याख्याने-६०

उदिष्टे (Objective)

- १ भारतीय साहित्याचे स्वरूप आणि सिद्धांत समजावून देणे
- २ साहित्य भाषेचे स्वरूप व कार्य समजावून घेणे
- ३ साहित्याची निर्मिती प्रक्रिया व प्रयोजन समजावून घेणे

घटक -१ भारतीय साहित्यशास्त्र: संकल्पना व सिद्धांत-(१)

- १ अलंकारविचार,वक्रोक्तीविचार
- २ रितीसिद्धांत, ध्वनिसिद्धांत
- ३ औचित्य विचार

घटक-२ भारतीय साहित्यशास्त्र : साहित्याचा आस्वाद.

१ भरताचा रससिद्धांत

रससिद्धांताचे भाष्यकार : १. भट्टलोल्लट

- २. श्रीशंकुक
- ३. भट्टनायक
- ४. अभिनवगुप्त
- घटक-३ भारतीय साहित्यशास्त्र : साहित्य भाषेचे स्वरूप व कार्य
 - १. शब्दशक्ती : अभिधा, लक्षणा व व्यंजना.
 - २. वृत्त, छंद,मुक्तछंद.
- घटक ४ भारतीय साहित्यशास्त्र : निर्मिती प्रकिया व प्रयोजन विचार
 - १. साहित्य निर्मिती मागील कारणे: प्रतिभा, व्युत्पत्ती व अभ्यास.
 - २. साहित्याची प्रयोजने : भरत ते अभिनवगुप्त

सत्रान्त परीक्षा – गुण १००

प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ४. घटक ४ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ५. सर्व घटकांवर आधारित दोन टीपा (पर्यायासह)गुण २०
साध्ये (Outcome)

- १ भारतीय साहित्य विचाराचा परिचय होईल
- २ भारतीय साहित्य आस्वाडची प्रक्रिया समजेल
- ३ भारतीय साहित्याची निर्मिती प्रक्रिया व प्रयोजनाचा परिचय होईल.

संदर्भ ग्रंथ-

१ कंगले, र.प.,(संपा.) काव्यशास्त्र, मौज प्रकाशन, मुंबई १९७४

२ कंगले, र.प.,(संपा.) रस-भाव-विचार, महाराष्ट्र राज्य साहित्य संस्कृती मंडळ मुंबई, १९७३

४ कुलकर्णी वा.ल.,साहित्य स्वरूप आणि समीक्षा, पॉप्युलर, मुंबई १९७५

५ गाडगीळ. स.रा., काव्यशास्त्रप्रदीप, व्हीनस, पुणे (सहावी आवृत्ती), २००३

६ देशपांडे, ग. त्र्यं., भारतीय साहित्यशास्त्र, पॉप्युलर, मुंबई (ति.आ.) १९८०

७ नेमाडे भालचंद्र, साहित्याची भाषा, साकेत, औरंगाबाद, १९८७

८ पाटणकर, रा. भा., सौंदर्यमीमांसा, मौज, मुंबई (ति.आ.) २००४

९ पाटणकर, वसंत, साहित्यशास्त्र : स्वरूप आणि समस्या पद्मगंधा, पुणे, २००६.

१० पाटील, गंगाधर, समीक्षेची नवी रूपे, मॅजेस्टीक, मुंबई १९८१

११ मालशे, मिलिंद, आधुनिक, भाषा विज्ञान : सिद्धांत आणि उपयोजन. लोकवाङ् मयगृह,

मुंबई. १९९५

१२ रसाळ, सुधीर, कविता आणि प्रतिमा, मौज, मुंबई १९८२

१३ गणोरकर, प्रभा, डहाके वसंत आबाजी व इतर, (संपा.) वाङ् मयीन संज्ञा संकल्पना कोश,

ग.रा. भटकळ फाऊंडेशन, मुंबई, २००१

१४ राजाध्यक्ष, विजया व इतर, (संपा.) मराठी वाङ् मयकोश, खंड ४, (समीक्षा संज्ञा), महाराष्ट्र

राज्य साहित्य संस्कृती मंडळ, मुंबई, २००२

१५ साहित्यशास्त्र उदभव आणि विकास : पांडुरंग वामन काणे

१६ प्राचीन काव्यशास्त्र : र.रा. कंगले

१७ प्राचीन काव्यशास्त्र : डॉ. स.रा. गाडगीळ

१८ साहित्य स्वरूप आणि समीक्षा : वा.ल कुलकर्णी

१९ भारतीय साहित्यविचार : प्रा. ब.लु. सोनार

२० भारतीय साहित्यविचार : ग.त्र्य. देशपांडे

२१ अभिनव काव्यप्रकाश : रा.श्री. जोग

सत्र -६ वे (श्रेयांकने-४) व्याख्याने-६० पाश्चात्य साहित्य विचार

उदिष्टे (Objective)

- १ पाश्चात्य साहित्याचे स्वरूप समजावून घेणे
- २ पाश्चात्य साहित्य विचारात साहित्याच्या भाषेचे स्वरूप समजावून घेणे
- ३ साहित्याची निर्मिती प्रक्रिया व प्रयोजन समजावून घेणे
- ४ साहित्याच्या आस्वादाचे सिद्धांत समजावून घेणे

घटक – १ पाश्चात्य साहित्य विचार : साहित्याचे स्वरूप

१ अनुकृती सिद्धांत : प्लेटो व ॲरिस्टॉटल

२ पाश्चात्यांनी केलेल्या काव्यव्याख्या : वर्डस्वर्थ, कोलरीज. कोर्टहॉप, एडगर अलन पो, अर्नोल्ड.

घटक -२ पाश्चात्य साहित्य विचार : साहित्याची भाषा

- १. रूपक, प्रतिक व प्रतिमा
- २. अनेकार्थता, नियामोल्लंघन, अपरिचीतीकरण.

घटक -३ पाश्चात्य साहित्य विचार : साहित्याची निर्मिती प्रक्रिया व प्रयोजन विचार १ कोलरिजचा कल्पनाशक्तीचा व चमत्कृतीशक्तीचा सिद्धांत.

२ आत्मविष्कार, जीवनभाष्य, सामाजिक बांधिलकी (मार्क्सवादी विचारासह) ही प्रयोजने.

घटक-४ पाश्चात्य साहित्य विचार : साहित्याचा आस्वाद

- १ ॲरिस्टॉटलच्या कॅथार्सिसचा सिद्धांत.
- २ रिचर्ड्सचा प्रेरणा संतुलनाचा सिद्धांत.

सत्रान्त परीक्षा – गुण १००

प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ४. घटक ४ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ५. घटक ४ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ५. सर्व घटकांवर आधारित दोन टीपा (पर्यायासह)गुण २०

साध्ये (Outcome)

- १ पाश्चात्य साहित्य विचारांचा परिचय होईल
- २ पाश्चात्य साहित्याच्या निर्मिती प्रक्रिया व प्रयोजन विचाराचा परिचय होईल

३ पाश्चात्य साहित्याच्या आस्वाद घेण्याच्या पद्धती समजतील

संदर्भ ग्रंथ-

१ करंदीकर, गो.वि., (भाषांतर) ॲरिस्टॉटलचे काव्यशास्त्र, मौज, मुंबई १९७८

- २ नेमाडे भालचंद्र, साहित्याची भाषा, साकेत, औरंगाबाद, १९८७
- ३ पाटणकर, वसंत, साहित्यशास्त्र : स्वरूप आणि समस्या पद्मगंधा, पुणे, २००६.
- ४ पाटील, गंगाधर, समीक्षेची नवी रूपे, मॅजेस्टीक, मुंबई १९८१

५ मालशे, मिलिंद, आधुनिक, भाषा विज्ञान : सिद्धांत आणि उपयोजन. लोकवाङ् मयगृह,

मुंबई. १९९५

६ गणोरकर, प्रभा, डहाके वसंत आबाजी व इतर, (संपा.) वाङ् मयीन संज्ञा संकल्पना कोश,

ग.रा. भटकळ फाऊंडेशन, मुंबई, २००१

७ राजाध्यक्ष, विजया व इतर, (संपा.) मराठी वाङ् मयकोश, खंड ४, (समीक्षा संज्ञा), महाराष्ट्र

राज्य साहित्य संस्कृती मंडळ, मुंबई, २००२

८) पाश्चात्य साहित्यविचार : भालचंद्र खांडेकर, लीला गोविलकर

९) पाश्चात्य साहित्यविचार : प्रा. ब.लु. सोनार

अभ्यासपत्रिका ६. साहित्य आणि समाज भाग १ सत्र -५ वे तासिका ४५ श्रेयांकने ३

उदिष्टे (Objective)

- १) साहित्य आणि समाज यांचा अनोन्य संबध तपासणे
- २) महानगरीय साहित्याच्या जाणीव समजावून घेणे
- ३) ग्रामीण साहित्याच्या जाणीव समजावून घेणे
- ४) निवडक कलाकृतीच्या आधारे वाड्मयीन प्रवृत्तीचा शोध घेणे

घटक १ साहित्य - समाज अन्योन्य संबंध (तासिका १५) श्रेयांकन १ अ) साहित्य, समाजसंस्कृती या संकल्पना व त्यांच्या परस्परसंबंधाचे स्वरुप ब) साहित्य- समाज संबंध - तेन, मार्क्स यांचे सिद्धांत, मानवतावाद, मार्क्सवाद, स्त्रीवाद, आंबेडकरवाद यांचे स्वरूप विशेष

घटक २ महानगरी जाणिवेचे साहित्य (तासिका १५) श्रेयांकन १

- अ) महानगरी जाणिवेचे साहित्य संकल्पना व मराठीतील परंपरा
- ब) क्रमश: : महेश केळूसकर मनोविकास प्रकाशन, पुणे

घटक -३ ग्रामीण साहित्य (तासिका १५) श्रेयांकने १ अ) ग्रामीण साहित्य- संकल्पना व मराठीतील परंपरा ब) धग असतेच आसपास : कल्पना दुधाळ, लोकवाङ्मय गृह, मुंबई

घटक ४ प्रकल्प अहवाल – सबंधित विषयावर २० गुणांचे प्रकल्प लेखन श्रेयांकन १

सत्रान्त परीक्षा (गुण ८०)

प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ४. सर्व घटकांवर आधारित दोन टीपा (पर्यायासह)गुण २०

साध्ये (Outcome)

१) साहित्य व समाज यांच्या अनोन्य संबंधाचा परिचय होईल

- २) महानगरीय व ग्रामीण जाणीवेच्या साहित्याचा व समाजाचा अनोन्य संबंध लक्षात येईल
- ३) निवडक कलाकृतीच्या आधारे विविध वाड्रायीन प्रवाहाचा परिचय होईल

संदर्भ ग्रंथ-

१ मराठी वाङ् मयाचा इतिहास – खंड ५, भाग १ – संपादक – रा. श्री. जोग म.सा. परिषद,

पुणे, १९७३.

२) कादंबरीविषयी – हरिश्चंद्र थोरात. पद्मगंधा प्रकाशन, पुणे, २००६.

३) टीकास्वयंवर - भालचंद्र नेमाडे, साकेत प्रकाशन, औरंगाबाद, १९९०.

४) कादंबरी - एक साहित्यप्रकार - हरिश्चंद्र थोरात, शब्द पब्लिकेशन्स मुंबई, २०१०.

५) मराठी वाङ् मय कोश-खंड ४<mark>, (</mark> समीक्षा संज्ञा), समन्वयक संपादक- डॉ. विजया राजाध्यक्ष,

महाराष्ट्र राज्य साहित्य संस्कृती मंडळ, मुंबई, २००२ ,

६) वाङ् मयीन संज्ञा-संकल्पना कोश- संपादक, प्रभा गणोरकर, वसंत आबाजी डहाके व इतर,

पॉप्युलर प्रकाशन, मुंबई, २००९.

७) ग्रामीण साहित्यः स्वरूप आणि समस्या- आनंद यादव, मेहता पब्लिशिंग हाउस, १९७९.

८) ग्रामीणता-साहित्य आणि वास्तव - आनंद यादव, मेहता पब्लिशिंग हाऊस, १९८९.

९) धार आणि काठ -नरहर कुरुंदकर, १९७१.

सत्र सहावे अभ्यासपत्रिका -६ साहित्य आणि समाज भाग २ (तासिका ६०) श्रेयांकने ४

उदिष्टे (Objective)

- १ समाजातील सामाजिक स्थित्यातराचा आणि साहित्याचा संबंध जाणून घेणे
- २ दलित साहित्याचे स्वरूप, वैशिष्ट्ये समजावून घेणे
- ३ स्त्रीवादी जाणीवेच्या साहित्याची वैशिष्ट्ये समजावून घेणे
- ४ निवडक कलाकृतीच्या आधारे वाड्रायीन प्रवाह समजावून घेणे

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घटक -१ सामाजिक स्थित्यंतरे आणि मराठी साहित्य (तासिका १५) श्रेयांकने
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अ) महाराष्ट्रातील सामाजिक स्थित्यंतरे व मराठी साहित्य – मागोवा
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ब) साहित्य- समाज संबंध- १) ललित वाड्मयातील सामाजिक जाणिवेचे स्वरूप :
शरदचंद्र मुक्तिबोध, साहित्य विचार आणि समाजचिंतन. २) दलित जाणिवेचे स्वरूप
- म.ना वानखेडे यांच्या लेखाधारे
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घटक –२ दलित साहित्य (तासिका १५) श्रेयांकने १
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- अ) दलित साहित्य : संकल्पना व मराठीतील परंपरा
- ब) भाई तुम्ही कुठे आहात ! : ऋषिकेश कांबळे, चिन्मय प्रकाशन, औरंगाबाद

घटक ३ स्त्रीवादी जाणिवेचे साहित्य (तासिका१५) श्रेयांकन १

- अ) स्त्रीवादी साहित्याची संकल्पना व मराठीतील परंपरा
- ब) निवडलेल्या स्त्रीवादी कथांचा अभ्यास
- १) गौरी देशपांडे पाऊस आला मोठा (आहे हे अस आहे)
- २) सानिया दुष्काळ (अशी वेळ)
- ३) प्रिया तेंडूलकर खेळ मांडियला (तिहार)
- ४) उर्मिला पवार सुटे गिऱ्हाण (हातचा एक)
- ५) मेघना पेठे आहे कुछ अब्र (आंधळ्याच्या गायी)
- ६) नीरजा महिषासुरमर्दिनी (ओल हरवलेली माती)
- ७) प्रज्ञा दया पवार आईच्या नावान (मिळून साऱ्या जणी मासिक)
- ८) प्रतिमा जोशी दरी (जहन्नम)
- ९) मनस्विनी लता रवींद्र माझ्या जन्माची गोष्ट (ब्लॉगच या आरशा पल्याड)
- १०) वंदना महाजन निर्वाणाची स्वगते (वसा दिवाळी अंक)

घटक –४ प्रकल्प अहवाल – सबंधित विषयावर २० गुणांचे प्रकल्प लेखन सत्रान्त परीक्षा (गुण ८० + २०) प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह) गुण २०

- प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह) गुण २० प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह) गुण २०
- प्रश्न ४. सर्व घटकांवर आधारित दोन टीपा (पर्यायासह) गुण २०

साध्ये (Outcome)

- १ सामाजिक स्थित्यंतराचा मराठी साहित्यावर प्रभाव पडतो, हे समजेल
- २ दलित साहित्याची निर्मिती प्रक्रिया समजेल
- ३ स्त्रीवादी जाणीव आणि वाड्मयीन प्रवृतीचे ज्ञान होईल

संदर्भ ग्रंथ

१) दलित साहित्य- प्रवाह व प्रतिक्रिया -गो. म. कुळकर्णी, प्रतिमा प्रकाशन, पुणे, १९८६

२) निळी पहाट-रा. ग. जाधव, प्राज्ञपाठशाळा वाई.१९७८.

३) दलित साहित्य- एक चिंतन- अर्जुन डांगळे (संपा.), महाराष्ट्र राज्य साहित्य संस्कृती

आणि मंडळ, मुंबई, १९७८.

४) दलित साहित्य-वेदना आणि विद्रोह- भालचंद्र फडके, श्रीविद्या प्रकाशन, पुणे, १९७७

(प्र.आ.), १९८९(दु. आ.)

५) दलित साहित्याची स्थितिगती- केशव मेश्राम व इतर (संपा.) मराठी विभाग, मुंबई

विद्यापीठ आणि अनुभव पब्लिकेशन्स, मुंबई, १९९७

६) स्त्रीवादी समीक्षा- सैद्धान्तिक चौकट- डॉ. मिलिंद मालशे, श्रीवाणी- ऑक्टोबर, १९९३

७) स्त्रीवादी साहित्य समीक्षा-स्वरूप आणि व्याप्ती- वसंत आबाजी डहाके, श्रीवाणी-ऑक्टोबर, १९९३.

८) स्त्रीवादी साहित्य आणि समीक्षा विशेषांक- अनुष्टुभ, सप्टें. ऑक्टो१९९६.

९) स्त्रीवादी समीक्षा-स्वरूप आणि उपयोजन- दिलीपराज प्रकाशन, पुणे, १९९३.

१०) आंबेडकरवाद, डॉ. शेरे नीलकंठ, सुविद्या प्रकाशन, पुणे २००९.

११) डॉ. बाबासाहेब आंबेडकरांचे तत्त्वज्ञान: आशय व विश्लेषण, गायकवाड दत्तात्रय स्वयंदीप

प्रकाशन, पुणे २०१६.

१२) आंबेडकर आणि मार्क्स, कसबे रावसाहेब, सुगावा प्रकाशन, पुणे, १९८५.

१३) प्रज्ञासूर्य, लिंबाळे शरणकुमार, (संपा.), प्रचार प्रकाशन, कोल्हापूर,१९९१.

१४) दलित कविता आणि ब्लॅक पोएट्री ऋषिकेश कांबळे गोदा प्रकाशन औरंगाबाद

१५) डॉ. आंबेडकर चिंतन, केशव मेश्राम, लोकवाड्मयग्रह, मुंबई.

१६) सत्तासंघर्ष : संपा. सुहास पळशीकर, सुहास कुलकर्णी, समकालीन प्रकाशन, पुणे.

अभ्यासपत्रिका क्र. ७ भाषाविज्ञान सत्र - ५ वे श्रेयांकने -४ व्याख्याने -६०

उदिष्टे (Objective)

१) भाषेचे स्वरूप आणि तिचे कार्य जाणून घेणे

२) भाषाभ्यासाच्या विविध अंगांचा परिचय करून घेणे

३) भाषेच्या अभ्यासाच्या आधुनिक व शास्त्रीय पध्दतीचा परिचय करुन घेणे तसेच पारंपारिक ऐतिहासिक अभ्यासपध्दतीपेक्षा तिचे वेगळेपण समजून घेणे.

घटक-१ भाषाशास्त्राच्या विविध शाखा – वर्णनात्मक, ऐतिहासिक व समाजशास्त्रीय.

घटक -२ स्वनिम विन्यास (स्वन, स्वनिम, स्वनांतर, स्वनिमांचे प्रकार, स्वनिम विश्लेषणाची तत्त्वे – तंत्रे.

घटक -३ रूपिमविन्यास – रूपिका, रुपिम, रुपिकांतर, रुपिमांचे प्रकार, रुपिम प्रकिया.

घटक – ४ अर्थविन्यास – भाषिक अर्थाचे स्वरूप, शब्दार्थाचे प्रकार, अर्थ आणि त्याचे परस्पर

संबंध

सत्रान्त परीक्षा (गुण १००)

प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न ४. घटक ४ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न ५. सर्व घटकांवर आधारित दोन टीपा (पर्यायासह)	गुण २०

साध्ये (Outcome)

- १ भाषेच्या विविध अंगांचा परिचय होईल
- २ भाषेच्या अभ्यासाच्या आधुनिक व शास्त्रीय पद्धतीचा परिचय होईल

संदर्भ ग्रंथ-

१) काळे, कल्याण व इतर (संपा.), आधुनिक भाषाविज्ञान (संरचनावादी, सामान्य आणि

सामाजिक, प्रतिमा प्रकाशन, पुणे, **(**दु.आ.) २००३.

२) काळे कल्याण व इतर (संपा.), वर्णनात्मक भाषाविज्ञान स्वरूप आणि पद्धती, गोखले

एज्युकेशन सोसायटी, नाशिक, १९८२.

३) गजेंद्रगडकर, श्री. न., भाषा आणि भाषाशास्त्र, व्हीनस प्रकाशन. पुणे, (दु. आ.) १९७९.

४) गोविलकर लीला, वर्णनात्मक भाषाविज्ञान, आरती प्रकाशन, डोंबिवली, १९९२.

५) घोंगडे, रमेश, सामाजिक भाषाविज्ञान दिलीपराज प्रकाशन पुणे, २०१२.

६) पुंडे, द. दि., सुलभ भाषाविज्ञान, स्नेहवर्धन प्रकाशन, पुणे,२००५

७) मालशे, स. गं. व इतर(संपा.), भाषाविज्ञानः ऐतिहासिक व वर्णनात्मक, पद्मगंधा प्रकाशन,

पुणे, २००५ (ति. आ.)

८) मालशे, स.गं. व इतर (संपा.),भाषाविज्ञान परिचय, पद्मगंधा प्रकाशन, पुणे, २००५ (दु.आ)

९) गायकवाड संपत, दलित आत्मकथन : भाषिक समाज, भाषा आणि भाषा व्यवहार, प्रज्ञा

प्रबोध प्रकाशन, सांगली २०१२ .

१०) मराठी भाषेचा भाषावैज्ञानिक अभ्यास : मठकर अलका, शब्दालय प्रकाशन २०१५

सत्र – ६ वे श्रेयांकने -४ व्याख्याने -६० मराठी व्याकरण

उदिष्टे (Objective)

- १ . मराठी व्याकरणाचा इतिहास व विविध व्याकरण कर्त्यांचा परिचय करुन घेणे.
- २. शब्दाचे वर्गीकरण समजावून घेणे
- ३. विकारण विचार समजावून घेणे
- ४. शब्द घटना समजावून घेणे

घटक -१ शब्दांचे वर्गीकरण – पारंपरिक व आधुनिक

घटक –२ विकरण- लिंग, वचन, विभक्ती, आख्यात.

घटक-३ शब्दसिद्धी

घटक-४ प्रयोग विचार

सत्रान्त परीक्षा (गुण १००)

प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ४. घटक ४ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ४. घटक ४ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ५. सर्व घटकांवर आधारित दोन टीपा (पर्यायासह)गुण २०

साध्ये (Outcome)

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8	मराठा व्याकरण	व्यवस्थचा सक्ष्म	पारचय	हाइल
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- २ मराठी व्याकरण व्यवस्थेतील समस्या लक्षात येतील संदर्भ ग्रंथ-
 - १)मराठी व्याकरण वाद आणि प्रवाद, कृष्ण श्री अर्जुनवाडकर
 - २)मराठी व्याकरण काही समस्या : प्र. ना. दीक्षित
 - ३)मराठी व्याकरणाचा इतिहास कृष्ण श्री अर्जुनवाडकर
 - ४)मराठी व्याकरण : मो. रा. वाळंबे
 - ५)मराठी व्याकरणविवेक : मा. ना. आचार्य
 - ६)मराठी व्याकरणाचा पुनर्विचार :अरविंद मंगरुळकर
 - ७)मराठीचे व्याकरण : लीला गोविलकर

८)शास्त्रीय मराठी व्याकरण : मोरो केशव दामले

अभ्यासपत्रिका क्र. ८

आधुनिक मराठी साहित्य,

सत्र - ५ वे तासिका ६० श्रेयांकने – ४

उ*दिष्टे (Objective)*

- १ आधुनिक मराठी साहित्याची संकल्पना समजावून घेणे
- २ आधुनिक मराठी साहित्याचा आढावा घेणे
- ३ विविध कलाकृतीच्या आधारे आधुनिक वाड्रायाची वैशिष्ट्ये अभ्यासणे

घटक १ आधुनिक, आधुनिकता आणि आधुनिकतावाद : संकल्पना विचार (तासिका १५) श्रेयांकन १

घटक २ अ - आधुनिक मराठी कथा - ऐतिहासिक आढावा (तासिका १५) श्रेयांकन १

आ आधुनिक मराठी कादंबरी – ऐतिहासिक आढावा

- घटक ३ आधुनिकतावादी मराठी कथा (तासिका १५) श्रेयांकन १
- १) मुक्काम पोस्ट सास्कृतिक फट, सतीश तांबे, रोहन प्रकाशन (कथांची आशयसूत्रे व कथांचे रूपबंध यांसह)
- घटक ४ आधुनिक मराठी कादंबरी (तासिका १५) श्रेयांकन १ १) पुरोगामी, राकेश वानखडे लोकवाड्मयग्रह प्रकाशन, मुंबई (आशयसूत्र व

कादंबरीचा रूपबंध यांसह)

सत्रान्त परीक्षा (गुण १००)

प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ४. घटक ४ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ४. घटक ४ वर आधारित प्रश्न (पर्यायासह)गुण २०प्रश्न ५. सर्व घटकांवर आधारित दोन टीपा (पर्यायासह)गुण २०

साध्ये (Outcome)

१ आधुनिकता वादाचे वैशिष्ट्याची ओळख होईल

२ वाड्मयीन प्रवृत्ती समजतील

संदर्भ ग्रंथ

- १) मराठी कादंबरी तंत्र व विकास, प्रा. बापट, व्हीनस प्रकाशन, पुणे १९७३
- २) साहित्य : अध्यापन आणि प्रकार, मौज प्रकाशन, पॉप्युलर प्रकाशन, भागवत श्री.पु. मुंबई १९८७
- ३) कादंबरी, मराठी कादंबरी, उषा हस्तक, साहित्यसेवा प्रकाशन औरंगाबाद, १९९३.
- ४) कांदबरी: एक साहित्य प्रकार, हरिशचंद्र थोरात, शब्द पब्लिकेशन, मुंबई २०१०.
- ५) १९८० नंतरची मराठी कादंबरी, अविनाश सप्रे, खेळ, दिवाळी, २००७
- ६) मराठी नवकथा : रंग आणि रूप, डॉ सुभाष पुलावले,चिन्मय प्रकाशन ,औरंगाबाद,२०१२.
- ७) मराठीतील कथनरूपे ,वसंत आबाजी डहाके,पापुलर प्रकाशन ,मुंबई,२०१२ .
- ८) मालशे, मिलिंद, आधुनिक, भाषा विज्ञान : सिद्धांत आणि उपयोजन. लोकवाङ् मयगृह,

मुंबई. १९९५

९) आधुनिक मराठी साहित्य आणि सामाजिकता : संपा. डॉ. मृणालिनी शहा, डॉ. गौरी टिळक,

पद्मगंधा प्रकाशन, पुणे.

१०) नवोदोत्तर मराठी कथा : रंग आणि अंतरंग संपा. गजानन हेरोळे, गोदा प्रकाशन, औरंगाबाद. सत्र – ६वे अभ्यासपत्रिका ८ उत्तर आधुनिक मराठी साहित्य (तासिका ६०) श्रेयांकन ४

उदिष्टे (Objective)

१. विविध विचारधारांच्या वाङ्मयाची ओळख करुन घेऊन त्या विचारधारांना समजून घेण्याचा प्रयत्न करणे.

२. उत्तर आधुनिक साहित्याचा परिचय करून घेणे

३) विविध कलाकृतीच्या आधारे उत्तर आधुनिकता वादाची वैशिष्ट्ये अभ्यासणे

घटक १ अ) उत्तर आधुनिकतावाद : संकल्पना विचार

आ) उत्तर आधुनिक मराठी कविता – ऐतिहासिक आढावा (तासिका १५) श्रेयांकन १

घटक २ उत्तर आधुनिक मराठी कविता - (तासिका १५) श्रेयांकन १

सलील वाघ, हेमंत दिवटे, सचिन केतकर, मंगेश नारायणराव काळे, संजीव खांडेकर, श्रीधर तिळवे, वज्रेश सोळंकी, मन्या जोशी, दा.गो. काळे, कविता मुरुमकर (निवडलेल्या कवितांचा संग्रह प्रसिद्ध होईल.)

घटक ३ उत्तर आधुनिक मराठी नाटक - ऐतिहासिक आढावा (तासिका १५) श्रेयांकन १

घटक ४ उत्तर आधुनिक मराठी नाटक (तासिका १५) श्रेयांकन १ १) सिधू सुधाकर, रम आणि इतर – आशुतोष पोतदार (वॉटरमार्क पब्लिकेशन), आशयसूत्र व नाटकाचा आकृतिबंध यांसह

सत्रान्त परीक्षा (गुण १००)

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प्रश्न १. घटक १ वर आधारित प्रश्न (पर्याया	ासह)			गुण २०
प्रश्न २. घटक २ वर आधारित प्रश्न (पर्याया	ासह)			गुण २०
प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्याया	ासह)			गुण २०
प्रश्न ४. घटक ४ वर आधारित प्रश्न (पर्याया	सह)			गुण २०
प्रश्न ५. सर्व घटकांवर आधारित दोन टीपा	(पर्यायास	ह)		गुण २०

साध्ये (Outcome)

१ उत्तर आधुनिकता वादाची वैशिष्ट्ये लक्षात येतील

२ उत्तर आधुनिकता वादाची स्वरूप वैशिष्ट्ये समजल्याने साहित्याकडे पाहण्याचा नवा दृष्टीकोन प्राप्त होईल.

संदर्भ पुस्तके

- रत्तर आधुनिकता : समकालीन साहित्य, समाज व संस्कृती, बी. रंगराव, कुसुमाग्रज प्रकाशन नाशिक
- २. अतिरिक्त मासिक, संपा. दा. गो. काळे दिनकर मनवर, मार्च २०१३.
- ३. नाटक आणि मी ,विजय तेंडुलकर, डिम्पल प्रकाशन ,मुंबई, ,१९९७.
- ४. नाटक एक चिंतन कानेटकर वसंत
- ५. नाटकातली चिन्हं नाईक राजीव
- ६. महानगरी नाटकं नाईक राजीव
- ७. मराठी नाटक : नव्या दिशा आणि वळणे, भवाळकर, तारा
- ८. नाटक कालचं आणि आजचं : राजापुरे-तापास, पुष्पलता
- ९. प्रायोगिक नाटक : भारतीय आणि जागतिक-(संपा) सूर्यवंशी नानासाहेब

अभ्यासपत्रिका क्र. ९ भाषांतर कौशल्य

सत्र – ५ वे श्रेयांकने –३ व्याख्याने – ४५

उदिष्टे (Objective)

१ भाषांतर अनुवाद, रुपांतर या संकल्पनेचा परिचय करून घेणे.

२ भाषांतराच्या विविध समस्याचा अभ्यास करणे

३ इंग्रजी-मराठी-इंग्रजी व हिंदी-मराठी-हिंदी असे भाषांतर करण्याचे कौशल्य प्राप्त करणे

घटक – १- भाषांतर –सैद्धान्तिक विचार (तासिका १५) श्रेयांकन १

अ)

१) भाषांतर, अनुवाद, रुपांतर, अर्वाचीनीकरण या स्वरूपभेदांची चर्चा.

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२) ललित साहित्याचे भाषांतर – सांस्कृतिक भेदांचे संदर्भांचे महत्त्व.
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आ)

१) ललित साहित्याचे भाषांतर – भाषिक समस्या व स्वरूप

२) ललित साहित्याचे भाषांतर – शैली विषयक समस्या

घटक – २ भाषांतर – प्रत्यक्ष भाषांतर अभ्यास (तासिका १५) श्रेयांकन १

१) इंग्रजी/हिंदी उताऱ्याचे मराठीत भाषांतर

२) मराठी उताऱ्याचे इंग्रजीत/हिंदीत भाषांतर

घटक – ३ (तासिका १५) श्रेयांकन १

अ) पारिभाषिक शब्द (प्रशासकीय)

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ब) कोशाची संकल्पना, रचना, कोशांच्या नोंदी, अकारविल्हे आणि सूची
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घटक ४ प्रकल्प अहवाल – सबंधित विषयावर २० गुणांचे प्रकल्प लेखन श्रेयांकन १

सत्रान्त परीक्षा – (गुण ८० + २० गुणांचा प्रकल्प = १००)

प्रश्न १. घटक १ अ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न २. घटक १ आ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न ३. घटक २ वर आधारित प्रश्न (पर्यायासह)	गुण २०
प्रश्न ४. घटक ३ वर आधारित प्रश्न (पर्यायासह)	गुण २०

साध्ये (Outcome)

१ भाषांतर विद्येबद्ल सूक्ष्म माहिती होईल

२ भाषांतर कौशल्य प्राप्त होईल, त्यामुळे रोजगार संधी प्राप्त होईल.

संदर्भ ग्रंथ –

- १. कऱ्हाडे सदा, भाषांतर, लोकवाङ्मय गृह, मुंबई १९९२
- २. बापट वसंत, तौलनिक साहित्य अभ्यास, पॉप्यूलर प्रकाशन
- फाटक म. वि आणि ठाकर रजनी, भाषांतर : शास्त्र की कला, वरदा बुक्स, पुणे १९८७
- ४. डॉ. काळे कल्याण आणि डॉ. सोमण अंजली, भाषांतरमीमांसा प्रतिमा प्रकाशन, पुणे १९९७
- ५. भाषांतर शास्त्र की कला : म.वि. फाटक, रजनी ठकार, वरदा, पुणे.
- ६. भाषांतर आणि भाषा : विलास सारंग, मौज, मुबई
- ७. अनुवादमीमांसा संपा. केशव तुपे, साक्षात, औरंगाबाद.
- ८ भाषांतरविद्या : स्वरूप आणि समस्या, संपा. रमेश वरखेडे, <mark>य.च.म.मु.वि.,</mark> नाशिक
- ९ भाषा आणि भाषांतर य.च.म.मु.वि., नाशिक

१० साहित्य - सेतू – (साहित्याची भाषांतर एक अभ्यास), एल.एस देशपांडे, निर्मल प्रकाशन, नांदेड , १९९९

सत्र – ६ वे श्रेयांकने- ३ व्याख्याने-४५ व्यावसायिक मराठी

उ*दिष्टे (Objective)*

१) विद्यार्थ्यांच्या लेखनक्षमतेचा व सर्जनशीलतेचा विकास करणे

- २) मुद्रित दृक श्राव्य माध्यमांसाठी आवश्यक लेखन कौशल्य शिकवणे
- ३) माध्यमांमधील रोजगाराच्या संधीचा परिचय करून घेणे
- ४) व्यावसायिक लेखनासाठी मराठी भाषेचे उपयोजन करणे

५) आधुनिक समाजमाध्यमांचा विशेष परिचय कार्य व उपयुक्तता याबाबत जाणून घेणे

- ६) ब्लॉग लेखनाचे स्वरूप लक्षात घेऊन ते लेखन तंत्र अवगत करणे
- ७) ईमेल लेखनाचे स्वरूप लक्षात घेऊन ते लेखनतंत्र अवगत करणे

घटक १ : वृतपत्र माध्यमासाठी लेखन (तासिका १५) श्रेयांकन १

- १:१ वृत्त लेखन
- १:२ पुस्तक परीक्षण लेखन
- १:३ नाट्य व चित्रपट समीक्षा लेखन

घटक २ : आकाशवाणी माध्यमासाठी लेखन (तासिका १५) श्रेयांकन १

- २:१ श्रुतिका लेखन
- २:२ नभोनाट्य
- २:३ जाहिरात लेखन

घटक ३ : दूरचित्रवाणी व समाज माध्यमासाठी लेखन (तासिका १५) श्रेयांकन १

- ३:१ दूरचित्रवाणीसाठी मुलाखत लेखन
- ३:२ दूरचित्रवाणी मालिकेसाठी संवाद लेखन
- ३:३ ईमेल लेखन, ब्लॉगलेखन, विकिपीडियासाठी लेखन

घटक ४ प्रकल्प अहवाल – सबंधित विषयावर २० गुणांचे प्रकल्प लेखन श्रेयांकन १

सत्रान्त परीक्षा – (गुण ८० + २० गुणांचा प्रकल्प = १००)

प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह) गुण २० प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह) गुण २० प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह) गुण २०

प्रश्न ४. सर्व घटकांवर दोन टीपा/लघुत्तरी प्रश्न (पर्यायासह) गुण २०

साध्ये (Outcome)

१) विद्यार्थ्यांच्या लेखन क्षमतेचा आणि सर्जनशीलतेचा विकास होईल

२) विविध माध्यमांसाठी आवश्क लेखनाच्या प्रकारांचा परिचय होईल आणि त्यासाठी आवश्क कौशल्ये आत्मसात होतील

३) लेखन कौशल्ये आत्मसात करून माध्यामामधील रोजगाराच्या संधी उपलब्ध होतील

संदर्भ ग्रंथ –

- १) व्यावहारिक मराठी : संपा. स्नेहल तावरे
- २) व्यावहारिक मराठी : ल.रा नशिराबादकर
- ३) व्यावहारिक मराठी : मोकाशी सयाजी, नेमाडे रंजना
- ४) ओळख माहिती तंत्रज्ञानाची : एम.एस.आय.टी. महाराष्ट्र राज्य
- ५) संगणक युग : अच्युत गोडबोले
- ६) वृत्तविद्या : स.ह देशपांडे
- ७) नभोवाणी कार्यक्रम तंत्र आणि मंत्र : पुष्पा काणे
- ८) आधुनिक माहिती तंत्रज्ञानाच्या विश्वात : दीपक शिकरपूर, उज्वल मराठे
- ९) वाळंबे, मो. रा. सुगम मराठी व्याकरण, नितीन प्रकाशन पुणे
- १०) जोशी चंद्रहास, मराठी लेखन दर्शन, मेहता पब्लिकेश हाऊस, पुणे
- ११) मराठी भाषा उगम आणि विकास, मेहता पब्लिकेश हाऊस, पुणे
- १२) केळकर अशोक, वैखरी, मॅजिस्टिक प्रकाशन पुणे.
- १३) नसीराबादकर, ल.रा., व्यावहारिक मराठी, फंडके प्रकाशन, कोल्हापूर
- **१४)** डॉ. शेकडे, सुभाष, व्यावहारिक मराठी अध्यापनाच्या दिशा, ऋतू प्रकाशन, अहमदनगर, २०१२.
- १५) उपयोजित मराठी : डॉ. संजय लांडगे, दिलीपराज प्रकाशन, पुणे.
- १६) अनिवार्य मराठी : डॉ. लीला गोविलकर, के. सागर पब्लिकेशन, पुणे.
- १७) मराठी कोश व संदर्भसाधने यांची समग्र सूची (इ.स १८००-२००३) संपादक डॉ. वसंत विष्णू कुलकर्णी, राज्य मराठी विकास संस्था, २००७

University of Mumbai



No. UG/29 of 2019-20

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty is invited to this office Circular No. UG/51 of 2017-18, dated 15th July, 2017 relating to the revised syllabus as per (CBCS) of F.Y.B.A. in Hindi (Compulsory & Ancillary) (Sem. I & II).

They are hereby informed that the recommendations made by the Board of Studies in Hindi at its meeting held on 9th April, 2019 have been accepted by the Academic Council at its meeting held on 15th April, 2019 <u>vide</u> item No. 4.23 & 4.24 and that in accordance therewith, the revised syllabus as per the (CBCS) for the F.Y.B.A. Compulsory & Ancillary (Sem. I & II) in Hindi has been brought into force with effect from the academic year 2019-20, accordingly. (The same is available on the University's website <u>www.mu.ac.in</u>).

MUMBAI – 400 032 3rd June, 2019 To (Dr. Ajay Deshmukh) REGISTRAR

2 Jom2

The Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.23 & 4.24 /15/04/2019

No. UG/ 29 - A of 2019

MUMBAI-400 032

3rd June, 2019

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Humanities,
- 2) The Chairman, Board of Studies in Hindi,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 5) The Director, Board of Students Development,
- 6) The Co-ordinator, University Computerization Centre,

m

(Dr. Ajay Deshmukh) REGISTRAR



UNIVERSITY OF MUMBAI Revised Syllabus And Pattern of Question Paper in the Subject of Hindi Atthe F.Y.B.A.Ancillary Examination As per CHOICEBASED CREDIT SYSTEM (CBCS)

(With effect from the Academic Year:2019-2020)

UNIVERSITY OF MUMBAI

Revised Syllabus andPattern of Question Paper in the Subject of Hindi at the

F.Y.B.A. Ancillary Examination CHOICEBASED CREDIT SYSTEM (CBCS) (With effect from the Academic Year :2019-2020)

हिन्दी अध्ययन मंडल

अध्यक्ष : डॉ. अनिल सिंह

- 1. डॉ. करुणाशंकर उपाध्याय(सदस्य)
- 2. डॉ. हूबनाथ पाण्डेय(सदस्य)
- 3. डॉ. विद्या शिंदे (सदस्य)
- 4. डॉ. शीला आहुजा (सदस्य)
- 5. डॉ. चित्रा गोस्वामी(सदस्य)
- 6. डॉ. संतोष मोटवानी (सदस्य)
- 7. डॉ. प्रकाश धुमाल(सदस्य)
- 8.डॉ. गौतम सोनकां बले(सदस्य)
- 9.डॉ. मोहसिन ख़ान(सदस्य)

पाठ्यक्रम समिति

- ी.डॉ. विद्या शिंदे (समन्वयक)
- 2. डॉ. मीना सुतवणी (सदस्य)
- 3. डॉ. मृगेन्द्र राय(सदस्य)
- 4. डॉ. चित्रा गोस्वामी(सदस्य)
- 5. डॉ. मोहसिन ख़ान(सदस्य)
- 6. डॉ. प्रवीण चंद्र बिष्ट(सदस्य)

मुंबई विश्वविद्यालय, मुंबई

SEMESTER – I

NAME OF PROGRAM NAME OF THE COURSE	: B.A. : F.Y.B.A. Ancillary Hindi (ऐच्छिक हिन्दी)
COURSECODE	: UAHIN 101
TOTAL LECTURES	: 60
CREDITS	: 3

Aims and Objectives:

- विद्यार्थियों को गद्य विधाओं की प्रचलित रचना कहानी, निबंध आदि के अतिरिक्त आत्मकथा, जीवनी, संस्मरण, यात्रा वृतांत और रेखाचित्र आदि नवीनतम विधाओं से परिचित कराना।
- हिंदी कहानी के आरंभ से लेकर अद्यतन कहानी की प्रवृत्तियों एवं कहानी के विकास से अवगत कराना।
- 3. विद्यार्थियों का नवीन गद्य विधाओं के स्वरूप-विवेचन तथा विशेषताओं से परिचय कराना।

निर्धारित पाठ्य पुस्तकें:

1) कथा संचयन :संपादन : हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई लोकभारती प्रकाशन, इलाहाबाद -1

1.उसने कहा था - चन्द्रधर शर्मा 'गुलेरी' 2 परीक्षा - प्रेमचन्द 3.चित्र का शीर्षक - यशपाल 4.दिल्ली में एक मौत - कमलेश्वर 5.फैसला - भीष्म साहनी - अमरकांत 6.बहादुर 7.आस्था के आयाम - मालती जोशी **8**.बेटी - मैत्रेयी पुष्पा - ममता कालिया 9.परदेसी 10.निर्वासित - सूर्यबाला

2) गद्य के विविध आयाम : संपादन : हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई

राजकमल प्रकाशन,1-बी. नेताजी सुभाष मार्ग, नई दिल्ली-110002

- 1. महात्मा गांधी
 2.शांतिप्रिय द्विवेदी
 3.हरिशंकर परसाई
 4.देवेंद्रनाथ ठाकुर
 5.फणीश्वरनाथ रेणु
 6.विजय कुमार संदेश
 7.समाज सेवा
 8.मनमोहन मदारिया
- मेरा विद्यार्थी-काल (आत्मकथा)
 - तू तो मुझसे भी अभागा है (रेखाचित्र)
 - सद्गुरु का कहना है (व्यंग्य)
 - शाहजहाँ के आँसू (एकांकी)
 - यशपाल (संस्मरण)
 - मेरी अंडमान यात्रा (यात्रावृत्त)
 - पदुमलाल पुन्नालाल बख्शी (निबंध)
 - हंसिनी की भविष्यवाणी (लोककथा)

प्रथम सत्र यूनिट विभाजन

1) कथा संचयन: संपादन : हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई

(पाठ वाचन,व्याख्या और समीक्षा) यूनिट-1. व्याख्यान - 15 1.उसने कहा था - चन्द्रधर शर्मा 'गुलेरी' 2.परीक्षा - प्रेमचन्द 3.चित्र का शीर्षक - यशपाल 4.दिल्ली में एक मौत - कमलेश्वर 5.फैसला - भीष्म साहनी (पाठ वाचन,व्याख्या और समीक्षा) व्याख्यान -15 यूनिट-2. 6.बहादुर - अमरकांत 7.आस्था के आयाम - मालती जोशी **8**.बेटी - मैत्रेयी पुष्पा - ममता कालिया 9.परदेसी 10.निर्वासित - सूर्यबाला

2)गद्य के विविध आयाम :संपादन :हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई

यूनिट-3. (पाठ वाचन,व्याख्या	और समीक्षा) व्याख्यान - 15
1.महात्मा गांधी	- मेरा विद्यार्थी - काल (आत्मकथा)
2.शांतिप्रिय द्विवेदी	- तू तो मुझसे भी अभागा है (रेखाचित्र)
3.हरिशंकर परसाई	- सद्गुरु का कहना है (व्यंग्य)
4.देवेंद्रनाथ ठाकुर	- शाहजहाँ के आँसू (एकांकी)

यूनिट-4. (पाठ वाचन,व्य	गख्या और समीक्षा)	व्याख्यान - 15
5.फणीश्वरनाथ रेणु	- यशपाल (संस्मरण)	
6.विजय कुमार संदेश	- मेरी अंडमान यात्रा (य	ात्रावृत्त)
7.समाज सेवा	- पदुमलाल पुन्नालाल	बख्शी (निबंध)
8.मनमोहन मदारिया	- हंसिनी की भविष्यवाण	ी (लोककथा)

कुल अंक: 100

प्रथम सत्रांत परीक्षा के प्रश्न पत्र का प्रारूप

समय : 3 घंटे

प्रश्न1. संदर्भ सहित व्याख्या (दोनों पुस्तकों से विकल्प सहित)	24 अंक
प्रश्न 2. दीर्घोत्तरी प्रश्न (दोनों पुस्तकों से विकल्प सहित)	30 अंक
प्रश्न 3. सामान्य प्रश्न (दोनों पुस्तकों से एक-एक प्रश्न)	15 अंक
प्रश्न 4. टिप्पणियाँ(दोनों पुस्तकों से विकल्प सहित)	16 अंक
प्रश्न 5. अतिलघूत्तरी प्रश्न-15 (दोनों पुस्तकों से पूछे जाएँ)	15 अंक

SEMESTER – II

NAME OF PROGRAM NAME OF THE COURSE	: B.A. : F.Y.B.A. Ancillary Hindi (ऐच्छिक हिन्दी)
COURSECODE	: UAHIN 201
TOTAL LECTURES	: 60
CREDITS	: 3

Aims and Objectives:

- विद्यार्थियों को गद्य विधाओं की प्रचलित रचना कहानी, निबंध आदि के अतिरिक्त आत्मकथा, जीवनी,संस्मरण, यात्रा वृतांत और रेखाचित्र आदि नवीनतम विधाओं से परिचित कराना।
- हिंदी कहानी के आरंभ से लेकर अद्यतन कहानी की प्रवृत्तियों एवं कहानी के विकास से अवगत कराना।
- 3. विद्यार्थियों का उपन्यास के स्वरूप विवेचन तथा विशेषताओं से परिचय कराना।

निर्धारित पाठ्य पुस्तकें:

1) जंगल के जुगनू (उपन्यास) - देवेश ठाकुर

वाणी प्रकाशन,21-ए दरियागंज,नई दिल्ली -110002

2) गद्य के विविध आयाम :	संपादन : हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई राजकमल प्रकाशन,1-बी. नेताजी सुभाष मार्ग, नई दिल्ली-110002
9 रामधारी सिंह 'दिनकर'	-नेता नहीं नागरिक चाहिए (निबंध)
10.महादेवी वर्मा	-बदल (संस्मरण)
11.बनारसीदास चतुर्वेदी	- बाईस वर्ष बाद (रेखाचित्र)
	- स्वामी दयानन्द (जीवनी)
13.शंकर पुणतांबेकर	-एक मूर्ति कथा (व्यंग्य)
14.जगदीशचंद्र माथुर	-मकड़ी का जाला (एकांकी)
15.गुणाकर मुले	-कम्प्यूटर: नई क्रांति) की दस्तक (वैज्ञानिक लेख)
16.अमृतलाल बेगड़	-सौंदर्य की नदी नर्मदा (यात्रावृत्त)

द्वितीय सत्र यूनिट विभाजन यूनिट-1. (पाठ वाचनऔर व्याख्या) व्याख्यान - 15 1)जंगल के जुगनू (उपन्यास) - देवेश ठाकुर यूनिट-2. (उपन्यास की समीक्षा) व्याख्यान -15 जंगल के जुगनू (उपन्यास) - देवेश ठाकुर 2)गद्य के विविध आयाम : संपाद्म :हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई

व्याख्यान -15

यूनिट-3. (पाठ वाचन,व्याख्या और समीक्षा)

9. रामधारी सिंह 'दिनकर'	-नेता नहीं, नागरिक चाहिए (निबंध)
10. महादेवी वर्मा	-बदलू (संस्मरण)
11. बनारसीदास चतुर्वेदी	- बाईस वर्ष बाद (रेखाचित्र)
12. मोहन राकेश	- स्वामी दयानन्द (जीवनी)
यूनिट-4. (पाठ वाचन,व्याख्य	ा और समीक्षा) व्याख्यान -15

13. शंकर पुणतांबेकर	-एक मूर्ति कथा (व्यंग्य)
14. जगदीशचंद्र माथुर	-मकड़ी का जाला (एकांकी)
15.गुणाकर मुले	-कम्प्यूटर: नई क्रांति की दस्तक (वैज्ञानिक लेख)
16.अमृतलाल बेगड़	-सौंदर्य की नदी नर्मदा (यात्रावृत्त)

द्वितीय सत्रांत परीक्षा के प्रश्न पत्र का प्रारूप

कुल अंक : 100	समय : 3 घंटे	
प्रश्न 1. संदर्भ सहित व्याख्या (दोनों पुस्तकों से विक	ल्प सहित)	24 अंक
प्रश्न 2. दीर्घोत्तरी प्रश्न (दोनों पुस्तकों से विकल्प सहि	त)	<u>3</u> 0 अंक
प्रश्न 3. सामान्य प्रश्न (दोनों पुस्तकों से एक-एक प्रश्न))	15 अंक
प्रश्न 4. टिप्पणियाँ (दोनों पुस्तकों से विकल्प सहित)		<u>1</u> 6 अंक
प्रश्न 5. अतिलघूत्तरी प्रश्न-15 (दोनों पुस्तकों से पूछे	जाएँ)	<u>1</u> 5 अंक



UNIVERSITY OF MUMBAI

Revised Syllabus

And

Pattern of Question Paper in the Subject of Hindi

At the

S.Y.B.A. PAPER- II & III CHOICE BASED CREDIT SYSTEM (CBCS)

(With effect from the Academic Year: 2020-2021)

UNIVERSITY OF MUMBAI

Revised Syllabus and Pattern of Question Paper in the

Subject of Hindi- PAPER II & III at the

S.Y.B.A. Examination

CHOICE BASED CREDIT SYSTEM (CBCS) (With effect from the Academic Year: 2020-2021)

हिन्दी अध्ययन	मण्डल
<u>अध्यक्ष : डॉ. अनिल</u>	न सिंह
1. डॉ. करुणाशंकर उपाध्य	ाय (सदस्य)
2. डॉ. हूबनाथ पाण्डेय	(सदस्य)
3. डॉ. विद्या शिंदे	(सदस्य)
4. डॉ. शीला आहुजा	(सदस्य)
5. डॉ. चित्रा गोस्वामी	(सदस्य)
6. डॉ. संतोष मोटवानी	(सदस्य)
7. डॉ. प्रकाश धुमाल	(सदस्य)
8. डॉ. गौतम सोनकांबले	(सदस्य)
9. डॉ. मोहसिन ख़ान	(सदस्य)

पाठ्यक्रम समिति

प्रश्न - पत्र II		प्रश्न - पत्र III	
1. डॉ. मोहसिन ख़ान	(समन्वयक)	1. प्रा. तबस्सुम ख़ान	(समन्वयक)
2. डॉ. उमेश चन्द्र शुक्ल	(सदस्य)	2. डॉ. सतीश पाण्डेय	(सदस्य)
3. डॉ. एम. एच. सिद्दीक़ी	(सदस्य)	3. डॉ. रमा विनोद सिंह	(सदस्य)
4. डॉ. अशोक ए. सालुंखे	(सदस्य)	4. डॉ. नारायण बागुल	(सदस्य)
5. प्रा. बालासाहेब गुंजाल	(सदस्य)	5. प्रा. संजय वी. निंबालव	कर (सदस्य)
6. डॉ. प्रवीण चंद्र बिष्ट	(सदस्य)	6. डॉ. एस. टी. आवटे	(सदस्य)
		7. प्रा. संज्योति एम. सान	। (सदस्य)

मुंबई विश्वविद्यालय, मुंबई

PAPER II, SEMESTER – III

NAME OF PROGRAM	: B. A. (C.B.C.S)
NAME OF THE COURSE	: S. Y. B. A.
COURSE CODE	: UAHIN301
TOTAL LECTURES	: 45
CREDITS	: 03

अभिप्राय एवं उद्देश्य- Aims and Objectives:

- विद्यार्थियों को हिन्दी की मध्यकालीन और आधुनिककालीन पद्य विधाओं की प्रसिद्ध, प्रचलित रचनाओं एवं परिवेश की जानकारी प्रदान करते हुए दार्शनिक, सामाजिक, राष्ट्रीय, मानवीय और नवीनतम आधुनिक जीवन-शैली संबंधी मूल्यों का परिचय कराना।
- हिंदी काव्य के मध्यकाल से लेकर अद्यतन काव्य की प्रवृत्तियों एवं कविता के विकास से अवगत कराते हुए काव्य के सामाजिक, मानवीय सरोकारों के साथ पर्यावरण-चेतना को समृद्ध करना।
- 3. काव्य के अंतर्गत प्रयुक्त विभिन्न शैलियों का परिचय कराते हुए उसकी शिल्पगत बनावट के साथ जीवन के क्षेत्र में काव्य की उपादेयता को दर्शना।

परिणाम- Outcomes:

- विद्यार्थियों में मानवीय संवेदनाओं के विकास के साथ नवीन सामाजिक, सांस्कृतिक बोध और जीवन मूल्यों का विकास होगा।
- 2. विद्यार्थियों में साहित्य के माध्यम से कलात्मक गुणों की अभिवृद्धि होगी, कला की साहित्यिक विधाओं के प्रति अभिरुचि जागृत होगी तथा रचनात्मक-कौशल को बढ़ावा मिलेगा।
- विद्यार्थियों में नये वैश्विक-मूल्यों के प्रति सजगता को बढ़ावा मिलेगा एवं पर्यावरणीय चेतना के प्रति दायित्व-बोध उत्पन्न होगा।

अध्यापन प्रणालियाँ- Teaching Method:

- 1. व्याख्यान, विश्लेषण तथा व्याख्यात्मक पद्धति का प्रयोग।
- 2. दृश्य/श्रव्य माध्यमों और संगणक का प्रयोग।
- 3. उदाहरण द्वारा पुष्टि एवं लेखकों के अतिथि व्याख्यान।
- 4. स्वाध्याय / परियोजना।

S. Y. B. A. PAPER II, SEMESTER – III (C.B.C.S)

निर्धारित पाठ्य पुस्तकें :

1. मध्यकालीन और आधुनिक काव्य

संपादन : हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई राजपाल एण्ड संज, 1590, मदरसा रोड, कश्मीरी गेट, दिल्ली।

पाठ्यक्रम के लिए निर्धारित कविताएँ-

• मध्यकालीन काव्य

(क) कबीर के दोहे (कबीर-ग्रन्थावली, संपा. डॉ. माताप्रसाद गुप्त) गुरुदेव कौ अंग-

1. पीछैं लागा जाइ.....दीपक दीया हाथि।।

2. सतगुर साचा सुरिवां......लीया ततसार॥

सुमिरण कौ अंग-

1. जिहि घटि प्रीति......उपजि खये बेकांम॥

2. लूटि सकै तो.....यहु तन जैहै छूटि॥

बिरह कौ अंग-

- 1. यहु तन जालौं.....रांम पठांउं॥
- 2. अंखड़ियां झांईं.....पुकारि पुकारि॥

(ख) सूरदास के पद (भ्रमरगीत-सार, संपा. आचार्य रामचन्द्र शुक्ल)

1. ए अलि! कहा जोग.....जहर की बेली॥

2. अँखियाँ हरि-दरसन......सरिता हैं सुखी॥

3. निर्गुन कौन देस को.....सबै मति नासी॥

4. उधो! मन नाहीं दस.....पुरबौ मन जगदीस॥

- (ग) तुलसीदास के पद (विनय-पत्रिका, तुलसीदास गीताप्रेस गोरखपुर)
- 1. दीन को दयालु......तुलसिदास मेरो॥
- 2. तू दयालु, दीन हौं.....चरन-सरन पावै॥
- 3. कबहूँ मन बिस्राम.....जनम सिरान्यो॥
- 4. जाऊँ कहाँ तजि.....अपनपौ हारे॥

(घ) मीराँबाई के पद (संत मीराँबाई और उनकी पदावली, संपा. बलदेव वंशी)

- 1. बसो मेरे नैनन.....भक्त वछल गोपाल॥
- 2. मेरे तो गिरधर गोपाल.....तारो अब मोहि॥
- 3. पग घुँघरू बांध मीराँ.....की दासी रे॥
- 4. दरस बिन दूखन.....मेटण सुख दैण॥

(ङ) रहीम के दोहे (रहीम ग्रन्थावली, संपा. विद्यानिवास मिश्र एवं गोविंद रजनीश)

- 1. एकै साधे सब.....फूलै फलै अघाया।
- 2. खैर, खून, खाँसी.....जानत सकल जहान॥
- 3. जो रहीम उत्तम.....लपटे रहत भुजंग॥
- 4. बिगरी बात बनै.....मथे न माखन होय॥
- 5. रहिमन अँसुआ नैन.....भेद कहि देइ॥
- 6. रहिमन धागा प्रेम.....गाँठ परि जाय॥

(च) बिहारी के दोहे (बिहारी रत्नाकर- श्री जगन्नाथदास 'रत्नाकर')

- 1. मेरी भव-बाधा.....हरित-दुति होइ॥
- 2. कहत, नटत, रीझत.....नैननु हीं सब बात॥
- 3. कागद पर लिखत.....मेरे हिय की बात॥
- 4. या अनुरागी चित्त.....उज्जलु होइ॥
- 5. घरु घरु डोलत दीन.....बड़ौ लखाइ॥
- 6. मोहन-मूरति स्याम.....प्रतिबिंबितु जग होइ॥

• आधुनिक काव्य

1. मनुष्यता	:	मैथिलीशरण गुप्त
2. वह तोड़ती पत्थर	:	सूर्यकांत त्रिपाठी 'निराला
3. कोशिश करने वालों की हार नहीं होती	:	सोहनलाल द्विवेदी
4. जो बीत गई सो बात गई	:	हरिवंशराय बच्चन
5. अपना अहम् नहीं बेचूंगा	:	रामावतार त्यागी
6. शीशे और पत्थर का गणित	:	दिनकर सोनवलकर
7. आज सड़कों पर लिखे हैं (ग़ज़ल)	:	दुष्यंत कुमार

8. माँ पर नहीं लिख सकता कविता	:	चंद्रकांत देवताले
9. विकल्प	:	राजेश जोशी
10. एक और युद्ध	:	ओमप्रकाश वाल्मीकि
11. नये इलाक़े में	:	अरुण कमल
12. उतनी दूर मत ब्याहना बाबा !	:	निर्मला पुतुल

2. स्वयंप्रभा (खंडकाव्य)	:	लेखक – रमाकांत शर्मा 'उद्भ्रांत'
		प्रकाशक : अमन प्रकाशन 104/80C रामबाग, कानपुर-208012

इकाई- विभाजन- SEMESTER-III, PAPER II, COURSE CODE- UAHIN301

इकाई-1-व्याख्यान-04- कबीर, सूरदास	(पाठ वाचन एवं व्याख्या)
इकाई-2-व्याख्यान-04- तुलसी, मीराँबाई	(पाठ वाचन एवं व्याख्या)
इकाई-3-व्याख्यान-04- रहीम, बिहारी	(पाठ वाचन एवं व्याख्या)
इकाई-4-व्याख्यान-15- आधुनिक काव्य	(पाठ वाचन एवं व्याख्या)
इकाई-5-व्याख्यान-13- स्वयंप्रभा	(पाठ वाचन एवं व्याख्या)
व्याख्यान-05-पाठालोचन और प्रश्न चर्चा	
· •	

<u>क्रेडिट- 03</u>

<u>विद्यार्थियों हेतु प्रश्न पत्र का प्रारूप</u> प्रश्न पत्र II, सेमेस्टर III (तृतीय सत्र)

पूर्णांक- 100	समय- 03:00 घंटे
प्रश्न-1 संदर्भ सहित व्याख्या (दोनों पुस्तकों में से विकल्प सहित)	अंक-20
प्रश्न-2 दीर्घोत्तरी प्रश्न (दोनों पुस्तकों में से विकल्प सहित)	अंक-40
प्रश्न-3 सामान्य प्रश्न (दोनों पुस्तकों में से किसी एक का उत्तर अपेक्षित)	अंक-20
प्रश्न-4 टिप्पणियाँ (दोनों पुस्तकों से विकल्प सहित)	अंक-10
प्रश्न-5 अतिलघूत्तरी वस्तुनिष्ठ (दोनों पुस्तकों में से)	अंक-10
	योग = 100
संदर्भ ग्रंथ-सूची

- 1. कबीर हजारीप्रसाद द्विवेदी
- 2. कबीर ग्रंथावली संपा. डॉ माताप्रसाद गुप्त
- 3. विनय पत्रिका वियोगी हरि
- 4. सूरदास व्रजेश वर्मा
- 5. संत मीराँबाई और उनकी पदावली संपा. बलदेव वंशी
- 6. बिहारी रत्नाकर- श्री जगन्नाथदास 'रत्नाकर'
- 7. भक्ति के तीन स्वर : मीरा, सूर, कबीर जॉन स्ट्रैटन हौली, अनुवाद-अशोक कुमार
- 8. कविता के नये प्रतिमान नामवर सिंह
- 9. काव्यशास्त्र भगीरथ मिश्र
- 10. छायावाद नामवर सिंह
- 11. भारतेन्दु हरिश्चंद्र डॉ. रामविलास शर्मा
- 12. निराला की साहित्य साधना डॉ. रामविलास शर्मा
- 13. दुष्यंत कुमार की ग़ज़लों का समीक्षात्मक अध्ययन डॉ. सरदार मुजावर
- 14. रहीम के काव्य में पुराख्यान डॉ. मोहसिन ख़ान
- 15. ये रहीम दर दर फिरिहिं डॉ. श्रीकांत उपाध्याय
- 16. आदिवासी साहित्य यात्रा संपा. रमणिका गुप्ता
- 17. दलित साहित्य का समाजशास्त्र ओमप्रकाश वलमिकी
- 18. दलित साहित्य का सौंदर्यशास्त्र शरणकुमार लिंबाले
- 19. भारतीय साहित्य शास्त्र बलदेव उपाध्याय

PAPER II, SEMESTER –IV

NAME OF PROGRAM:NAME OF THE COURSE:COURSE CODE:TOTAL LECTURES:CREDITS:

: B. A. (C.B.C.S) : S. Y. B. A. : UAHIN401 : 45 : 03

अभिप्राय एवं उद्देश्य- Aims and Objectives:

- विद्यार्थियों को गद्य की व्यंग्य विधा की प्रसिद्ध, प्रचलित व्यंग्यात्मक रचनाओं एवं समकालीन परिवेश की जानकारी प्रदान करते हुए सामाजिक, मानवीय, संस्कृतिक और नवीनतम आधुनिक जीवन शैली संबंधी मूल्यों का परिचय कराना।
- 2. हिंदी गद्य के प्रारम्भिक काल में प्रस्फुटित व्यंग्य रचनाओं से लेकर अद्यतन व्यंग्यात्मक रचनाओं, प्रवृत्तियों एवं व्यंग्य के विकास से अवगत कराते हुए काव्य के सामाजिक, मानवीय संतुलन-असंतुलन को दर्शाते हुए सकारात्मक पक्षों को बल देना एवं समूहिक नैतिकता को समृद्ध करना।
- 3. व्यंग्य के अंतर्गत प्रयुक्त विभिन्न व्यंग्य दृष्टियों उजागर कराते हुए उसकी शिल्पगत बनावट के साथ आमजीवन के क्षेत्र में व्यंग्य की उपादेयता को दर्शाते हुए उसके विभिन्न सरोकारों से अवगत कराना।

परिणाम- Outcomes:

- विद्यार्थियों में मानवीय संवेदनाओं के विकास के साथ नवीन सामाजिक, संस्कृतिक और राजनीतिक मूल्यों का गुणात्मक विकास होगा।
- 2. विद्यार्थियों में राष्ट्र-निर्माण हेतु नये सामाजिक, राजनीतिक, संस्कृतिक विचारों का प्रसार होगा और दायित्व-बोध निर्वहन का विकास होगा।
- 3. विद्यार्थियों में नये वैश्विक मूल्यों के प्रति सजगता को बढ़ावा मिलेगा एवं मूल्यवादी दृष्टि के प्रति दायित्व-बोध उत्पन्न होगा।
- 4. विद्यार्थियों में साहित्य-रसास्वादन के साथ कलात्मक अभिरुचि का निर्माण होगा, रचनात्मक-कौशल को बढ़ावा मिलेगा।

अध्यापन प्रणालियाँ- Teaching Method:

- 1. व्याख्यान, विश्लेषण तथा व्याख्यात्मक पद्धति का प्रयोग।
- 2. दृश्य/ श्रव्य माध्यमों और संगणक का प्रयोग।
- 3. उदाहरण द्वारा पुष्टि एवं लेखकों, अतिथियों के व्याख्यान।
- 4. स्वाध्याय/ परियोजना।

S. Y. B. A. PAPER II, SEMESTER -IV (C.B.C.S)

निर्धारित पाठ्य पुस्तकें : 1. व्यंग्य-वीथी

संपादन : हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई राधाकृष्ण प्रकाशन, जी-17 जगतपुरी, दिल्ली-110 051

पाठ्यक्रम के लिए निर्धारित व्यंग्य निबंध-

1. वसीयत	:	भगवती चरण वर्मा
2. सुदामा के चावल	•	हरिशंकर कर परसाई
3. एक लाख	:	शंकर पुणतांबेकर
4. बापू की विरासत	:	नामवर सिंह
5. बंसी वाले का पुजारी	:	शरद जोशी
6. वाह रे ! हमदर्द	:	धनश्याम अग्रवाल
7. प्रभु जी, तुम डॉलर हम पानी	:	सूर्यबाला
8. छूकर चरण भाग्य बनाते हैं	:	स्नेहलता पाठक
9. कन्या रत्न का दर्द	•	प्रेम जनमेजय
10. वाशिंग मशीन में बाल सरस्वती	:	बी. एल. आच्छा
11. गाँव के स्कूल में कम्प्यूटर	•	ज्ञान चतुर्वेदी
12. ऐनक के बहाने	•	ब्रजेश कानूनगो

2. शकुंतिका (उपन्यास) : लेखक - भगवानदास मोरवाल
 प्रकाशक : राजकमल प्रकाशन, 1-बी. नेताजी सुभाष मार्ग, नई दिल्ली।

इकाई- विभाजन- SEMESTER-IV, PAPER II, COURSE CODE- UAHIN401

इकाई-1-व्याख्यान-08- **वसीयत** से **बापू की विरासत** निबंध तक (पाठ वाचन एवं व्याख्या) इकाई-2-व्याख्यान-08-**बंसी वाले का पुजारी से छूकर चरण भाग्य बनाते हैं** निबंध तक (पाठ वाचन एवं व्याख्या) इकाई-3-व्याख्यान-08- **कन्या रत्न का दर्द से ऐनक के बहाने** व्यंग्य निबंध तक (पाठ वाचन एवं व्याख्या) इकाई-4-व्याख्यान-08- **उपन्यास** (पाठ वाचन एवं व्याख्या) इकाई-5-व्याख्यान-08- **उपन्यास** (पाठ वाचन एवं व्याख्या) व्याख्यान-05-पाठालोचन और प्रश्न चर्चा

क्रेडिट- 03

<u>विद्यार्थियों हेतु प्रश्न पत्र का प्रारूप</u> प्रश्न पत्र II, सेमेस्टर IV(चतुर्थ सत्र)

पूर्णांक- 100	समय- 03:00 घंटे
प्रश्न-1 संदर्भ सहित व्याख्या (दोनों पुस्तकों में से विकल्प सहित)	अंक-20
प्रश्न-2 दीर्घोत्तरी प्रश्न (दोनों पुस्तकों में से विकल्प सहित)	अंक-40
प्रश्न-3 सामान्य प्रश्न (दोनों पुस्तकों में से किसी एक का उत्तर अपेक्षित)	अंक-20
प्रश्न-4 टिप्पणियाँ (दोनों पुस्तकों से विकल्प सहित)	अंक-10
प्रश्न-5 अतिलघूत्तरी वस्तुनिष्ठ (दोनों पुस्तकों में से)	अंक-10
	योग = 100

संदर्भ ग्रंथ-सूची

- 1. स्वातंत्र्योत्तर हिन्दी व्यंग्य निबंध डॉ. शशि मिश्र
- 2. आधुनिक हिन्दी साहित्य में व्यंग्य वीरेंद्र मेहंदीरत्ता
- 3. हरिशंकर परसाई के व्यंग्य साहित्य में मिथकीय संरचना का अनुशीलन डॉ. शरद सुनेरी
- 4. परसाई के साहित्य में समकालीन यथार्थ डॉ. संध्या कुमारी सिंह
- 5.शंकर पुणतांबेकर का व्यंग्य साहित्य -डॉ. मीना सुनील सुतवणी
- 6. हिन्दी उपन्यास का विकास मधुरेश
- 7. हिन्दी उपन्यास का इतिहास गोपाल राय
- 8. उपन्यास का लोकधर्म सं. डॉ. नैया
- 9. कथा का सौन्दर्य शास्त्र प्रभाकर क्षोत्रिय
- 10. उपन्यासकार भगवानदास मोरवाल सं. डॉ. मधु खराटे
- 11.लोकमन का सिरजनहार : भगवानदास मोरवाल सं. डॉ. लोकेश कुमार गुप्ता

PAPER III, SEMESTER – III

NAME OF PROGRAM: B. A. (C.B.C.S)NAME OF THE COURSE: S. Y. B. A.COURSE CODE: UAHIN302TOTAL LECTURES: 45CREDITS: 03

अभिप्राय एवं उद्देश्य- Aims and Objectives:

- विद्यार्थियों को प्रयोजनमूलक भाषा की जानकारी देते हुए कार्यालयीन तथा अन्य व्यवहार क्षेत्रों में हिंदी भाषा के व्यवहार एवं प्रयोग के लिए प्रशिक्षित करते हुए लेखन कौशल का विकास करना।
- 2. विद्यार्थियों को प्रयोजनमूलक हिंदी तथा अंग्रेजी की पारिभाषिक शब्दावली से परिचिय करवाना।
- 3. विद्यार्थियों को व्यावसायिक/ कार्यालयीन पत्राचार से अवगत करवाना।
- 4. विद्यार्थियों को अंग्रेजी/ मराठी भाषा से हिंदी भाषा में अनुवाद कौशल का विकास करना।
- 5. विद्यार्थियों को जनसंचार माध्यमों में प्रयुक्त हिंदी भाषा की जानकारी से अवगत कराना।
- 6. विद्यार्थियों को जनसंचार माध्यमों के विकास से परिचिय करवाना।

परिणाम- Outcomes:

- 1. विद्यार्थियों को व्यावहारिक हिन्दी भाषा-दक्षता की प्रवीणता की प्राप्ति होगी।
- 2. विद्यार्थियों का व्यावसायिक रूप से आत्मनिर्भरता के योग्य बनाना।
- 3. विद्यार्थियों जनसंचार माध्यमों में रोज़गार के अवसर, क्षेत्रों से अवगत होंगे।

अध्यापन प्रणालियाँ- Teaching Method:

- 1. व्याख्यान तथा विश्लेषण।
- 2. दृश्य/ श्रव्य माध्यमों और संगणक का प्रयोग।
- 3. राजभाषा अधिकारियों/ जनसंचार माध्यमों से संलग्न व्यक्तियों के अतिथि व्याख्यान।
- 4. स्वाध्याय/ परियोजना।

S. Y. B. A. PAPER- III, SEMESTER –III

इकाई 1. प्रयोजनमूलक हिंदी :

- प्रयोजनमूलक हिंदी : अर्थ और परिभाषा
- सामान्य हिंदी, साहित्यिक हिंदी
- प्रयोजनमूलक हिंदी : स्वरूप एवं विशेषताएँ
- प्रयोजनमूलक हिदी : व्यवहार क्षेत्र

इकाई 2. कार्यालयीन एवं व्यावसायिक पत्र-लेखन :

- कार्यालयीन पत्र : कार्यालय आदेश, कार्यालय ज्ञापन, परिपत्र, अनुस्मारक
- व्यावसायिक पत्र : आवेदन (रिक्त पद/अवकाश), पूछताछ, क्रयादेश
- शिकायती पत्र (सार्वजनिक)

इकाई 3. अनुवाद :

- अनुवाद : अर्थ, परिभाषा
- अनुवाद के भेद:
- (i) शब्दानुवाद (ii) भावानुवाद
- (iii) अर्थानुवाद (iv) सारानुवाद
- (v) सर्जनात्मक अनुवाद (काव्यानुवाद/कथानुवाद)
- अनुवाद : महत्व एवं उपयोगिता

इकाई 4. पत्रकारिता :

- पत्रकारिता : परिभाषा, स्वरूप और महत्त्व
- हिंदी पत्रकारिता : विकासक्रम
- पत्रकारिता के विविध रूप (खेल पत्रकारिता, इलेक्ट्रॉनिक माध्यमों की पत्रकारिता, साहित्यिक- संस्कृतिक पत्रकारिता)

इकाई 5. व्यावहारिक अनुवाद : पारिभाषिक शब्दावली

- अंग्रेजी / मराठी से हिंदी में अनुवाद
- पारिभाषिक शब्दावली : अर्थ, परिभाषा और महत्त्व
- निर्धारित पारिभाषिक शब्दों के 50 हिन्दी प्रतिशब्द
- 1. Accounting Year : लेखा वर्ष
- 2. Approval : अनुमोदन
- 3. Arrears : बकाया राशि
- 4. Basic Pay : मूलवेतन
- 5. Brought Forward : आगे लाया गया
- 6. Concerned : संबंधित
- 7. Confidential : गोपनीय

:	उपभोक्ता
:	कटौती
:	घाटा
:	हटा दीजिए
:	संलग्नक
:	उत्पाद शुल्क
:	अनुकूल
:	आगमी
:	जाली हस्ताक्षर
:	राजपत्र
:	अनुदान
:	दिशानिर्देश
:	अवैतनिक
:	प्रोत्साहन
:	प्रभारी
:	वेतनवृद्धि
:	संयुक्त समिति
:	मुख्य पद
:	बहीखाता
:	छुट्टी
:	परिपक्वता
:	कार्यवृत्त
:	मानक/मानदण्ड
:	सूचना
:	रूपरेखा
:	नवीकरण
:	कृपया सत्यापन/जाँच करें
:	प्रस्ताव
:	पारण शब्द
:	अनुभाग
:	कारण बताओ सूचना
:	नमूना हस्ताक्षर
:	मानक
:	अस्थायी सूची
:	प्रशंसा-पत्र
:	स्थानांतरण
:	अनधिकृत

45. Vacancy	: रिक्त पद
46. Value Declared	: घोषित मूल्य
47. Violation	: उल्लंघन
48. Waiting list	: प्रतीक्षा सूची
49. With Reference तो	: के संदर्भ में
50. Zonal Office	: आंचलिक कार्यालय
	DADED III. COUDCE COI

इकाई- विभाजन- SEMESTER-III, PAPER III, COURSE CODE- UAHIN302

इकाई-1-व्याख्यान 8–प्रयोजनमूलक हिंदी

इकाई-2-व्याख्यान 8-कार्यालयीन एवं व्यावसायिक पत्र-लेखन

इकाई-3–व्याख्यान 8–अनुवाद

इकाई-4-व्याख्यान 8–पत्रकारिता

इकाई-5-व्याख्यान 8-व्यावहारिक अनुवाद एवं पारिभाषिक शब्दावली

व्याख्यान-05-पाठालोचन और प्रश्न चर्चा

क्रेडिट- 03

विद्यार्थियों हेतु प्रश्न पत्र का प्रारूप

प्रश्न पत्र- III, सेमेस्टर- III (तृतीय सत्र)

पूर्णांक- 80	समय- 3 घंटे
पूछे गए 1 से 6 प्रश्नों में से 4 प्रश्नों के उत्तर अपेक्षित हैं।	20x4 = 80
प्रश्न 7 वां अनिवार्य होगा।	
अ. अनुवाद (अंग्रेजी/मराठी से हिंदी)	अंक 10
आ. हिंदी पारिभाषिक शब्द (10 शब्द)	अंक 10
	योग = 100

सन्दर्भ ग्रन्थ-सूची

1. प्रयोजनमूलक हिंदी – डॉ. विनोद गोदरे

2. प्रयोजनमूलक हिंदी – डॉ. नरेश मिश्र

3. प्रयोजनमूलक हिंदी – डॉ. रवींद्रनाथ श्रीवास्तव

4. अनुवाद सिद्धांत - भोलानाथ तिवारी

5. अनुवाद का समकाल – डॉ. मोहसिन ख़ान

6. कार्यालय दीपिका - हरीबाबू कंसल

7. अभिनव व्यावहारिक पत्र लेखन - डॉ.अनिल सिंह

8. आधुनिक पत्रकारिता - डॉ. अर्जुन तिवारी

9. ऑनलाइन पत्रकारिता - हर्षदेव

10. बदलती पत्रकारिता गिरते मूल्य - डॉ.निशांत सिंह

11. हिंदी पत्रकारिता उद्भव और विकास – डॉ. रचना भोला 'यामिनी'

12. इलेक्ट्रॉनिक पत्रकारिता- अजय कुमार सिंह

PAPER III, SEMESTER – IV

NAME OF PROGRAM	: B. A. (C.B.C.S)
NAME OF THE COURSE	: S. Y. B. A.
COURSE CODE	: UAHIN402
TOTAL LECTURES	: 45
CREDITS	: 03

अभिप्राय एवं उद्देश्य- Aims and Objectives:

- विद्यार्थियों को जनसंचार-भाषा की जानकारी देते हुए व्यवहार क्षेत्रों में हिंदी भाषा के व्यवहार एवं प्रयोग के लिए प्रशिक्षित करना।
- विद्यार्थियों को परंपरागत जनसंचार माध्यमों से परिचिय कराते हुए नव्य-संचार माध्यमों में प्रयुक्त तकनीक के आंतरिक और बाह्य पक्षों का सामाजिक सरोकारों को दर्शना।
- 3. विद्यार्थियों को समाचार लेखन, संपादकीय लेखन, साक्षात्कार, फ़ीचर लेखन लेखन से अवगत करवाना।
- 4. विद्यार्थियों को सोशल मीडिया, कंप्यूटर, टेलीविज़न इत्यादि के भाषाई प्रयोगों का परिचय देना।

परिणाम- Outcomes:

- 1. विद्यार्थियों को तकनीकी और व्यावहारिक भाषा दक्षता की प्रवीणता प्राप्ति होगी।
- 2. व्यावसायिक रूप से आत्मनिर्भरता की संभावना बढ़ेगी।
- 3. जनसंचार माध्यमों में रोज़गार के क्षेत्रों से परिचय होगा।

अध्यापन प्रणालियाँ- Teaching Method:

- 1. व्याख्यान तथा विश्लेषण।
- 2. दृश्य/ श्रव्य माध्यमों और संगणक का प्रयोग।
- 3. राजभाषा अधिकारियों/ जनसंचार माध्यमों से संलग्न व्यक्तियों के अतिथि व्याख्यान।
- 4. स्वाध्याय/ परियोजना।
- 5. शैक्षणिक भ्रमण।

S. Y. B. A. PAPER III, SEMESTER – IV

इकाई 1. जनसंचार :

- अर्थ, परिभाषा एवं स्वरूप
- जनसंचार के तत्त्व

इकाई 2. जनसंचार माध्यम :

- परंपरागत संचार माध्यमों का सामान्य परिचय एवं भेद (तमाशा, लावणी, कठपुतली, नोटंकी, कीर्तन, लोक-संगीत)
- आधुनिक जनसंचार माध्यमों का सामान्य परिचय एवं भेद (मुद्रित एवं इलेक्ट्रॉनिक)

इकाई 3. जनसंचार माध्यमों का विकास एवं उपयोगिता :

- (i) समाचार पत्र (ii) रेडियो (iii) सिनेमा
- (iv) टेलीविज़न (v) कंप्यूटर (vi) मोबाइल

(vii) सोशल मीडिया

इकाई 4. जनसंचार माध्यमोपयोगी लेखन : सामान्य परिचय

- (i) समाचार लेखन (ii) साक्षात्कार
- (iii) फ़ीचर लेखन (iv) संपादकीय
- (v) संवाद लेखन (vi) पुस्तक एवं फ़िल्म समीक्षा
- (vii) विज्ञापन लेखन

इकाई 5. माध्यमोपयोगी लेखन :

- (i) समाचार लेखन (ii) फ़ीचर लेखन (iii) संवाद लेखन
- (iv) फ़िल्म समीक्षा (v) विज्ञापन लेखन

• पाठ्यक्रम के लिए निर्धारित वस्तुनिष्ठ 50 प्रश्न

- 1. संचार अंग्रेजी के किस शब्द का पर्याय है?
- 2. अर्थ की दृष्टि से संचार से सम्बद्ध कौन सा शब्द है ?
- 3. स्त्रोत और श्रोता के बीच कौन सी प्रक्रिया होती है?
- 4. किन्हीं दो संचार माध्यमों के नाम लिखिए?
- 5. भारतीय पत्रकारिता का जनक किसे माना जाता है?
- 6. भारत में रंगीन दूरदर्शन का सूत्रपात कब हुआ?
- 7. निरक्षर लोगों के बीच सन्देश प्रसारित करने के लिए कौन सा माध्यम उपयुक्त है?
- 8. रेडियो प्रसारण के क्षेत्र में विविध भारती का आरम्भ कब हुआ?
- 9. भारत की पहली बोलती फिल्म कौन सी है?
- 10. हिंदी का पहला समाचार पत्र कौन सा था?
- 11. भारतेंदु द्वारा प्रकाशित किसी एक पत्रिका का नाम लिखिए?
- 12. केसरी पत्र का सम्बन्ध किस भाषा से रहा?
- 13. सरस्वती पत्रिका का पहला अंक कब प्रकाशित हुआ था?
- 14. अंग्रेजी में अनुवाद के लिए किस शब्द का प्रयोग होता है।

- 15. रेडियो जनसंचार का किस प्रकार का माध्यम है?
- 16. दिनांक ८ जून, १९३६ को इंडियन स्टेट ब्रॉडकास्टिंग का नाम बदलकर क्या रख दिया गया?
- 17. भारत में पहला टेलीविज़न केंद्र कहाँ स्थापित हुआ?
- 18. दादा साहब फाल्के को भारतीय सिनेमा किस नाम से याद करता है?
- 19. सन १९५७ में 'ऑल इंडिया रेडियो' का नाम बदलकर क्या रखा गया?
- 20. 'हवा महल' कार्यक्रम का संबंध किस संचार माध्यम से है?
- 21. मुंबई में दूरदर्शन का केंद्र किस वर्ष शुरू हुआ?
- 22. प्रसार भारती का सम्बन्ध किन संचार माध्यमों से है?
- 23. दूरदर्शन पर चर्चित 'हम लोग' धारावाहिक के लेखक कौन थे?
- 24. 'सोप ओपेरा' शब्द किस के लिए प्रयुक्त होता है?
- 25. सोनी टी.वी. का सम्बन्ध किस देश से है?
- 26. डिस्कवरी चैनल किस प्रकार का चैनल है?
- 27. 'दैनिक भास्कर' में कार्टून कॉलम किस नाम से प्रकाशित होताहै?
- 28. 'कंप्यूटर' की उत्पत्ति किस शब्द से हुई है?
- 29. कंप्यूटर की मुख्य या प्राथमिक मेमोरी किसे कहा जाता है?
- 30. कंप्यूटर से सम्बद्ध शब्द 'अंडू' का क्या तात्पर्य है?
- 31. टी.वी. चैनलों पर कमर्शियल ब्रेक से क्या तात्पर्य है?
- 32. आधुनिक जनसंपर्क का जनक किसे मन जाता है?
- 33. कठपुतली किस प्रकार का माध्यम है?
- 34. राष्ट्रीय फिल्म विकास निगम की स्थापना कब हुई?
- 35. इंडियन जर्नलिस्ट एसोसिएशन की स्थापना किस वर्ष हुई?
- 36. किस देश में सब से पहले खोजी पत्रकारिता को मान्यता मिली?
- 37. खोजी पत्रकारिता की कोई एक विशेषता लिखिए?
- 38. देविका रानी को सर्वप्रथम कौन सा पुरस्कार प्रदान किया गया?
- 39. आज़ादी से पूर्व पत्रकारिता का स्वरूप व्यावसायिक न होकर कैसा था?
- 40. समाचार पत्र की आय बढ़ाने में किस विभाग की भूमिका सर्वाधिक महत्त्वपूर्ण होती है?
- 41. आज़ादी के बाद किस वर्ष कॉपीराईट एक्ट बना?
- 42. सन १९७५ में किस अधिनियम के अंतर्गत सेंसरशिप लागू की गई?
- 43. उत्तर प्रदेश से प्रकाशित पहला हिंदी समाचार पत्र कौन सा है?
- 44. 'कवि वचन सुधा' पत्रिका का प्रकाशक कौन था?
- 45. दो प्रभावशाली सोशल मीडिया के नाम लिखिए?
- 46. ट्विटर की स्थापना कब हुई?
- 47. फेसबुक की स्थापना किसने की?
- 48. इन्सटाग्राम का एक उपयोग लिखिए?
- 49. स्नेपचेट की शरुवात किसने की?
- 50. सोशल मीडिया में टम्बलर का प्रयोग किस लिए किया जाता है?

इकाई- विभाजन- SEMESTER-IV, PAPER III, COURSE CODE- UAHIN402

इकाई-1-व्याख्यान 8-जनसंचार-अर्थ परिभाषा स्वरूप एवं तत्त्व

इकाई-2-व्याख्यान 8-परम्परागत एवं आधुनिक जनसंचार माध्यम

इकाई-3- व्याख्यान 8-जनसंचार-विकास एवं उपयोगिता

इकाई-4-व्याख्यान 8-माध्यमोपयोगी लेखन-सामान्य परिचय

इकाई-5-व्याख्यान 8-विविध माध्यमोपयोगी लेखन का अभ्यास

व्याख्यान-05-पाठालोचन और प्रश्न चर्चा

<u>क्रेडिट- 03</u>

<u>विद्यार्थियों हेतु प्रश्न पत्र का प्रारूप</u> प्रश्न पत्र- III, सेमेस्टर IV(चतुर्थ सत्र)

पूर्णांक- 100

समय- 03:00 घंटे

पूछे गए 1 से 6 प्रश्नों में से 4 प्रश्नों के उत्तर अपेक्षित हैं।	20x4 = 80
प्रेश्न 7 वां अनिवार्य होगा।	
अ-पूछे गए 4 (चार) में से 2 (दो) माध्यमोपयोगी लेखन	अंक-10
आ-अतिलघूत्तरी / वस्तुनिष्ठ प्रश्न	अंक-10
	योग = 100

सन्दर्भ ग्रन्थ-सूची

- 1. जनसंचार एवं समाज डॉ. मोनिका नागोरी
- 2. आधुनिक जनसंचार माध्यम और हिंदी डॉ. हरिमोहन
- 3. भारतीय मीडिया डॉ. स्मिता मिश्र
- 4. मीडिया की बदलती भाषा डॉ.अजयकुमार सिंह
- 5. मीडिया और हिंदी बदलती प्रवृत्तियां-सं.रविन्द्र जाधव/ केशव मोरे
- 6. संचार माध्यम लेखन गौरी शंकर रैना
- 7. समाचार, फीचर लेखन एवं संपादन कला डॉ.हरिमोहन
- 8. जनसंचार विविध आयाम डॉ.बृजमोहन गुप्त
- 9. मीडिया लेखन, सिद्धान्त और व्यहार डॉ. चंद्रप्रकाश मिश्र
- 10. संचार से जनसंचार और जनसम्पर्क तक बलवीर कुन्दरा
- 11. इलेक्ट्रॉनिक मीडिया के सिद्धांत रूपचन्द गौतम
- 12. संचार सिद्धांत की रूपरेखा डॉ. प्रेमचंद पांतजलि
- 13. जनसंचार माध्यम चुनौतियाँ और दायित्व डॉ. त्रिभुवन राय



REVISED SYLLABUS AND PATTERN OF

QUESTION PAPER IN THE

SUBJECT OF HINDI

AT THE

T.Y.B.A. EXAMINATION

CHOICE BASED CREDIT SYSTEM (C.B.C.S.) (PAPER - IV, V, VI, VII, VIII, IX)

(With Effect From The Academic Year : 2021-2022)

Revised Syllabus and Pattern of Question Paper in the Subject of HINDI At the T.Y.B.A. EXAMINATION Choice Based Credit System (C.B.C.S.) (Paper - IV, V, VI, VII, VIII, IX) (With effect from the Academic Year : 2021-2022)

हिन्दी अध्ययन मण्डल

अध्यक्ष : डॉ. अनिल सिंह		
1. डॉ.करुणाशंकर उपाध्या	य (सदस्य)	
2. डॉ. हूबनाथ पाण्डेय	(सदस्य)	
3. डॉ. विद्या शिंदे	(सदस्य)	
4. डॉ. शीला आहुजा	(सदस्य)	
5. डॉ. चित्रा गोस्वामी	(सदस्य)	
6. डॉ. संतोष मोटवानी	(सदस्य)	
7. डॉ. प्रकाश धुमाल	(सदस्य)	
8. डॉ. गौतम सोनकांबले	(सदस्य)	
9. डॉ. मोहसिन ख़ान	(सदस्य)	

पाठ्यक्रम समिति

समन्वयक : डॉ. मोहसिन ख़ान		
1. डॉ. सतीश पाण्डेय	(सदस्य)	
2. डॉ. विद्या शिंदे	(सदस्य)	
3. डॉ. रेखा शर्मा	(सदस्य)	
4. डॉ. एल.आई. घोरपड़े	(सदस्य)	
5. डॉ. रमा सिंह	(सदस्य)	
6. प्रा. संतोष गायकवाड़	(सदस्य)	
7. डॉ. रामदास तोंडे	(सदस्य)	
8. डॉ. संध्या गर्जे	(सदस्य)	

मुंबई विश्वविद्यालय, मुंबई

पाठ्यक्रम का अभिप्राय, उद्देश्य, परिणाम, अध्यापन प्रणालियाँ

अभिप्राय एवं उद्देश्य- AIMS AND OBJECTIVES:

- 1. विद्यार्थियों को हिन्दी साहित्य के प्राचीन, मध्यकालीन और आधुनिक इतिहास का बोध कराते हुए हिन्दी साहित्य के इतिहास संबंधी साहित्य के विकासक्रम, प्रवृत्तियों एवं परिवेश का परिचय कराना।
- 2. विद्यार्थियों को हिन्दी की आधुनिककालीन गद्य–पद्य विधाओं की प्रसिद्ध, प्रचलित रचनाओं एवं परिवेश की जानकारी प्रदान करते हुए दार्शनिक, सामाजिक, राष्ट्रीय, मानवीय और नवीनतम आधुनिक जीवन-शैली संबंधी मूल्यों का परिचय कराना। आधुनिक साहित्य की प्रवृत्तियों के विकास से अवगत कराते हुए साहित्य के सामाजिक, मानवीय सरोकारों के साथ पर्यावरण–चेतना को समृद्ध करना।
- 3. विद्यार्थियों को पारंपरिक भारतीय काव्यशास्त्र के मानदंडों से परिचय कराते हुए, साहित्य की विभिन्न विधाओं से अवगत कराना, साहित्य के काव्यशास्त्रीय नियमों की जानकारी प्रदान करना।
- 4. विद्यार्थियों को भाषा के वैज्ञानिक अध्ययन के महत्व से अवगत कराते हुए भाषा विज्ञान की उपयोगिता तथा भाषा एवं लिपि-विज्ञान के विभिन्न अंगों का व्यावहारिक परिचय कराना।
- 5. जनसंचार, सूचना प्रौद्योगिकी, सोशल मीडिया के अधुनातन माध्यमों में हिन्दी के प्रयोग, प्रसार से अवगत कराते हुए हिन्दी के माध्यम से रोज़गार की संभावनाओं को विद्यार्थियों के समक्ष लाना।
- 6. सामाजिक परिवर्तन हेतु वैचारिक प्रसार को अवगत कराते हुए विविध नव्य सामाजिक वैचारिक आंदोलनों की पृष्ठभूमि,विविध विमर्शों को दर्शाना तथा साहित्य पर पड़े उनके प्रभावों से अवगत कराना।

परिणाम- OUTCOMES:

- 1. विद्यार्थी को हिन्दी साहित्य के इतिहास की व्यापक जानकारी प्राप्त होगी, साहित्य की अविरल धारा का परिचय प्राप्त होगा। हिन्दी साहित्य की विभिन्न विधाओं का व्यापक और क्रमबद्ध ज्ञान प्राप्त होगा।
- 2. विद्यार्थियों में साहित्य के माध्यम से कलात्मक गुणों की अभिवृद्धि होगी, कला की साहित्यिक विधाओं के प्रति अभिरुचि जागृत होगी तथा रचनात्मक-कौशल को बढ़ावा मिलेगा, साहित्य के समकालीन परिवेश से जुड़ सकेंगे, सामाजिक समस्याओं, पक्षों से अवगत होते हुए समाधान की ओर बढ़ सकेंगे।
- 3. विद्यार्थी जनसंचार, सूचना प्रौद्योगिकी, सोशल मीडिया के अधुनातन माध्यमों में प्रयुक्त हिन्दी-देवनागरी लिपि के अध्ययन, प्रयोग से मीडिया, कोश निर्माण आदि क्षेत्रों में रोज़गार के अवसर प्राप्त कर सकेंगे।
- 4. विद्यार्थी भारतीय काव्यशास्त्र की व्यापक जानकारी प्राप्त होने के साथ काव्यशास्त्रीय मानदंडों का ज्ञान प्राप्त होगा जिसके माध्यम से विद्यार्थी स्वयं साहित्य-रचना की प्रवृत्ति की ओर प्रेरित हो सकेगा।
- 5. विद्यार्थी भाषा के विविध रूप तथा भाषा परिवर्तन के कारणों का ज्ञान प्राप्त कर सकेंगे। भाषा विज्ञान के विभिन्न अंगों से परिचित होते हुए उसकी उपयोगिता का ज्ञान प्राप्त कर सकेंगे। विद्यार्थी हिन्दी-ध्वनियों के उच्चारण संबंधी तथा देवनागरी लिपि का वैज्ञानिक ज्ञान को प्राप्त कर सकेंगे।
- 6. विद्यार्थियों में मानवीय संवेदनाओं के विकास के साथ नवीन सामाजिक, सांस्कृतिक बोध और जीवन मूल्यों का विकास होगा, जिससे विद्यार्थी अधिक उदार, चेतना-सम्पन्न तथा ज़िम्मेदार नागरिक बनेंगे।
- 7. विद्यार्थियों में नये वैश्विक-मूल्यों के प्रति सजगता को बढ़ावा मिलेगा एवं पर्यावरणीय चेतना के प्रति दायित्व-बोध उत्पन्न होगा।

अध्यापन प्रणालियाँ- TEACHING METHOD

- 1. व्याख्यान तथा विश्लेषण।
- 2. दृश्य/ श्रव्य माध्यमों और संगणक का प्रयोग।
- 3. राजभाषा अधिकारियों/ जनसंचार माध्यमों से संलग्न व्यक्तियों के अतिथि व्याख्यान।
- 4. स्वाध्याय/ परियोजना।
- शैक्षणिक भ्रमण।

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) IV
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	V
PAPER NAME	HISTORY OF HINDI LITERATURE हिंदी साहित्य का इतिहास
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हिंदी साहित्य का इतिहास

इकाई- I हिंदी साहित्य का इतिहास-

- हिंदी साहित्य का काल-विभाजन
- हिंदी साहित्य का नामकरण

इकाई– II आदिकाल–

- आदिकालीन हिंदी साहित्य की पृष्ठभूमि
- सिद्ध, नाथ, जैन एवं रासो साहित्य की प्रमुख विशेषताएँ

इकाई- III भक्तिकाल-

- भक्तिकालीन हिंदी साहित्य की पृष्ठभूमि
- संत काव्य, सूफी काव्य, रामभक्ति काव्य, कृष्णभक्ति काव्य की सामान्य विशेषताएँ

इकाई- IV रीतिकाल-

- रीतिकालीन हिंदी साहित्य की पृष्ठभूमि
- रीतिबध्द, रीतिसिद्ध एवं रीतिमुक्त काव्य की प्रमुख प्रवृतियाँ

निर्धारित वस्तुनिष्ठ प्रश्नों की सूची-

- 1. हिंदी साहित्य के इतिहास का काल–विभाजन सर्वप्रथम किसने किया?
- 2. हिंदी साहित्य का इतिहास लेखन का सबसे पहला प्रयास किसका था?
- 3. आ.रामचंद्र शुक्ल के इतिहास ग्रंथ का नाम क्या है?
- 4. आदिकाल को 'बीजवपन काल' किस विद्वान ने कहा है?
- 5. हिंदी साहित्य के प्रारम्भिक काल को 'आदिकाल' नाम किसने दिया?
- 6. रीतिकाल का 'श्रृंगार काल' नामकरण किसने किया है?
- 7. राहुल सांकृत्यायन हिंदी का पहला कवि किसे मानते हैं?
- 8. कवि स्वयंभू किस भाषा के कवि है?
- 9. किस कवि को 'मैथिल कोकिल' कहा गया है?
- 10. आदिकाल में खड़ीबोली को काव्य भाषा बनाने वाले प्रथम कवि कौन थे?
- 11. चौरासी सिध्दों में सबसे ऊँचा स्थान किसका है?
- 12. 'दोहाकोश' के रचयिता कौन हैं?
- 13. सिध्दों की भाषा को 'संधा–भाषा' किसने कहा है?
- 14. नाथ संप्रदाय के प्रवर्तक कौन हैं?
- 15. नाथों की संख्या कितनी है?
- 16. 'हठयोग' किस संप्रदाय से संबंधित है?
- 17. 'उलटबासियाँ' किस साहित्य की एक प्रमुख विशेषता है?
- 18. जैन धर्म के प्रवर्तक कौन हैं?
- 19. प्रथम जैन कवि कौन है?
- 20. जैन साहित्य में कौन से ग्रंथ सबसे अधिक लोकप्रिय माने जाते हैं?
- 21. 'परमाल रासो' के रचयिता कौन हैं?
- 22. रासो काव्य परंपरा का सर्वश्रेष्ठ एवं प्रतिनिधि ग्रंथ कौन–सा है?
- 23. 'भरतेश्वर बाहुबली रास' के रचनाकार कौन है?
- 24. 'खुमान रासो['] किसकी रचना है?
- 25. 'युद्धों का सजीव वर्णन' किस साहित्य की एक प्रमुख विशेषता है?
- 26. भक्तिकाल की दो काव्यधाराएँ कौन-सी हैं?
- 27. जाति–पाति के बंधनो का खुलकर विरोध किसने किया?
- 28. 'राजतरंगिणी' में किसका इतिहास वर्णित है?
- 29. रत्नसेन किस महाकाव्य का नायक है?
- 30. भक्ति की लहर का उद्भव कहाँ से हुआ था?
- 31. चैतन्य सम्प्रदाय के प्रवर्तक कौन हैं?
- 32. आलवार भक्तों की संख्या कितनी है?
- 33. स्वामी हरिदास किस सम्प्रदाय के प्रवर्तक थे?
- 34. बहुदेववाद तथा अवतारवाद का विरोध किसने किया?

- 35. संतों का रहस्यवाद किससे प्रभावित है?
- 36. सुन्दरदास किसके शिष्य थे?
- 37. 'मृगावती' के रचयिता कौन हैं?
- 38. 'ज्ञानदीप' के रचनाकार का नाम लिखिए?
- 39. आईने अकबरी में सूफ़ियों के कितने सम्प्रदाय का उल्लेख है?
- 40. पद्मावत काव्य में राघव, चेतन को किस रूप में चित्रित किया गया है?
- 41. रामानंद के भक्त सम्प्रदाय का क्या नाम है?
- 42. तुलसीदास जी के गुरु का नाम क्या है?
- 43. हिन्दी साहित्य के किस काव्य में विराट समन्वय की भावना है?
- 44. तानसेन के गुरु का नाम क्या था?
- 45. पुष्टिमार्ग के प्रवर्तक कौन हैं?
- 46. 'हित चौरासी' रचना के रचयिता कौन हैं?
- 47. रीतिकाल को 'रीतिकाल' की संज्ञा किसने दी?
- 48. 'हित तरंगिणी' के रचयिता कौन हैं?
- 49. 'कविप्रिया' के रचनाकार कौन हैं?
- 50. रीतिकाल के अंतिम बड़े आचार्य कौन हैं?
- 51. आदिकाल को 'वीरगाथा काल' किस विद्वान ने कहा है?
- i) आ. रामचंद्र शुक्ल ii) मिश्रबन्धु
- iii) राहुल सांकृत्यायन iv) डॉ. रामकुमार वर्मा
- 52. गार्सा-द-तासी के हिंदी साहित्य के इतिहास की भाषा कौन-सी है?
- i) फ्रेंच ii) हिंदी
- iii) फ़ारसी iv) अरबी
- 53. आदिकाल का प्रमुख रस कौन–सा है?
- i) श्रृंगार ii) वीर
- iii) करुण iv) शांत
- 54. आदिकाल को 'वीर काल' नाम किसने दिया है?
- i) आ. हजारीप्रसाद द्विवेदी ii) जॉर्ज ग्रियर्सन
- iii) विश्वनाथप्रसाद मिश्र iv) महावीरप्रसाद द्विवेदी
- 55. गार्सा-द-तासी की इतिहास लेखन परंपरा को आगे बढ़ाने का श्रेय किसे जाता है?
- i) शिवसिंह सेंगर ii) जॉर्ज ग्रियर्सन
- iii) आ. रामचंद्र शुक्ल iv) मिश्रबन्धु
- 56. जैन कवि शालीभद्र सूरि को हिन्दी का प्रथम कवि किसने माना है?
- i) राजनाथ शर्मा ii) गणपतिचन्द्र गुप्त
- iii) आचार्य शुक्ल iv) रामकुमार वर्मा

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57. हिंदी साहित्य का आलोचनात्मक इतिहास के लेखक कौन हैं?
i) डॉ. रामकुमार वर्मा
                            ii) डॉ. नगेन्द्र
iii) डॉ. गणपतिचन्द्र गुप्त iv) शिवकुमार शर्मा
58. 'हिंदी साहित्य की भूमिका' पुस्तक के लेखक कौन है?
i) आ. हजारीप्रसाद द्विवेदी ii) बच्चन सिंह
iii) राहुल सांकृत्यायन
                             iv) मिश्रबन्ध्
59. 'खालिकबारी' के रचयिता कौन हैं?
i) अमीर खुसरो
                             ii) मुल्ला दाऊद
iii) चंदबरदाई
                             iv) जगनिक
60. सिध्दों की संख्या कितनी मानी जाती है?
                             ii) 82
i) 80
iii) 84
                             iv) 89
61. नाथ पंथ के प्रवर्तक कौन हैं?
i) गोरखनाथ
                             ii) मत्स्येन्द्रनाथ
                             iv) आदिनाथ
iii) नागनाथ
62. कौन-सी शैली जैन रचनाओं की नहीं है?
i) रास
                             ii) फागु
iii) चर्यापद
                             iv) चरित
63. 'बीसलदेव रासो' के रचयिता कौन हैं?
                             ii) दलपति विजय
i) नरपति नाल्ह
iii) हमीर हठ
                             iv) चंदबरदाई
64. खुसरो की पहेलियों और मुकरियों की विशेषता क्या है?
i) श्रुंगार
                             ii) परिहास
iii) उक्तिवैभिन्य
                             iv) उक्तिवैचित्र्य
65. भक्ति आंदोलन मुस्लिम साम्राज्य के प्रभाव का परिणाम है।" इस मत को नहीं मानने वाले विद्वान
कौन है?
i) ताराचन्द
                             ii) आ. रामचन्द्र शुक्ल
iii) रामस्वरूप चतुर्वेदी
                             iv) वल्लभाचार्य
66. उत्तरी भारत में भक्ति आंदोलन की त्रिमूर्ति कौन थे?
i) कबीर, नानक, दादू
                             ii) कबीर, नानक , रैदास
iii) कबीर, रामानंद, रैदास iv) कबीर, रामानंद, शंकराचार्य
67. 'बीजक' किसकी प्रसिद्ध रचना है?
i) सूरदास
                             ii) कबीर
iii) जायसी
                             iv) दयाल
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68. "संतन को कहा सीकरी सो काज" किसकी पंक्ति है? i) कुंभनदास ii) नाभादास iii) चतुर्भुजदास iv) तुलसीदास 69. नानक किस काव्यधारा के कवि हैं? i) सूफ़ी काव्य ii) राम काव्य iv) कृष्ण काव्य iii) संत काव्य 70."मानुष प्रेम भयउ बैकुंठी" किस कवि की पंक्ति है? i) दादू दयाल ii) मुल्ला दाउद iv) जायसी iii) कुतुबन 71. 'भ्रमरगीत' के रचयिता कौन हैं? i) तुलसीदास ii) बिहारी iv) कबीरदास iii) सूरदास 72. सैयद इब्राहिम ने कृष्णभक्ति के प्रभाववश अपना नाम रख लिया? i) कृष्णदास ii) रामदास iv) प्रेमदास iii) रसखान 73. 'पुष्टिमार्ग का जहाज' किस कवि को कहा गया है? ii) तुलसीदास i) कबीरदास iii) केशवदास iv) सूरदास 74. अकबर दरबार के किस सदस्य ने 'दोहावली' की रचना की? ii) रहीम i) बीरबल iii) तानसेन iv) बिहारी 75. नामदेव द्वारा लिखित सगुण पदों की भाषा क्या थी? ii) अवधी i) मराठी iv) संस्कृत iii) ब्रजभाषा 76. द्वैताद्वैतवाद दर्शन को मानने वाले आचार्य इनमें से कौन हैं? ii) मध्वाचार्य i) रामानंद iii) चैतन्य महाप्रभु iv) रामानुजाचार्य 77. निर्गुण भक्ति साहित्य को ज्ञानाश्रयी और प्रेमाश्रयी भागों में विभाजित करने वाले विद्वान कौन हैं? i) डॉ. रामकुमार वर्मा ii) आ. हजारी प्रसाद द्विवेदी iii) नामवर सिंह iv) आ. रामचंद्र शुक्ल 78. प्रेमाश्रयी शाखा को सूफ़ी काव्य कहने वाले विद्वान निम्नलिखित में से कौन है? i) डॉ. रामकुमार वर्मा ii) आ. हजारीप्रसाद द्विवेदी iii) आ. रामचंद्र शुक्ल iv) डॉ. गणपतिचंद्र गुप्त

79. वल्लभाचार्य ने किसकी उपासना पर बल दिया है? i) श्रीराम ii) गणेश iii) बालकृष्ण iv) विष्ण् 80. वारकरी सम्प्रदाय की स्थापना किसने की? i) नामदेव ii) कबीर iii) संत ज्ञानेश्वर iv) सुंदरदास 81. 'चित्रावली' के रचयिता कौन हैं? ii) जायसी i) कुतुबन iv) शेख नबी iii) उसमान 82. 'महानुभाव सम्प्रदाय' की स्थापना किसने की है? i) रामानंद ii) तुलसीदास iv) स्वामी हरिदास iii) श्रीचक्रधर स्वामी 83. नाभदास की भक्तमाल में रामानंद के कितने शिष्य बताए गए हैं? i) दस ii) बारह iii) चौदह iv) सोलह 84. 'राधावल्लभ सम्प्रदाय' के प्रवर्तक कौन है? i) स्वामी हरिदास ii) हितहरिवंश iv) वल्लभाचार्य iii) सूरदास 85. किस काल को ब्रजभाषा का स्वर्ण युग कहा जाता है? i) आदिकाल ii) भक्तिकाल iv) आधुनिक काल iii) रीतिकाल 86. रीतिकाल को 'अलंकृतकाल' किसने कहा है? i) डॉ. रामकुमार वर्मा ii) आ. रामचंद्र शुक्ल iii) आ. हजारी प्रसाद द्विवेदी iv) मिश्रबंधु 87. 'रसमंजरी' के रचयिता कौन हैं? i) चिंतामणि ii) केशव iii) भिखारीदास iv) मतिराम 88. आचार्य शुक्ल ने रीतिकाल का प्रवर्तक किसे माना है? i) आचार्य चिंतामणि ii) कवि ग्वाल iii) केशव iv) कृपाराम ਤਾ ਕੇ ਸਤਸਿਤਾ ਕੀਤ ਵੈਹ

89. 'रसराज' के रचायता कान	ह?
i) घनानंद	ii) मतिराम
iii) बोधा	iv) ठाकुर

90. घनानंद को अमर करने वाली रचना का नाम क्या है? ii) सुजान हित i) रसराज iii) कविप्रिया iv) ललित ललाम 91. रीतिमुक्त काव्यधारा का अंतिम कवि किसे माना जाता है? i) चिंतामणि ii) द्विजदेव iii) भूषण iv) केशव 92. 'ललित ललाम' किसकी रचना है? ii) मतिराम i) घनानंद iii) बोधा iv) आलम 93. 'साहित्य लहरी' में किसकी लीला का वर्णन है? i) बालकृष्ण ii) राधा-कृष्ण iv) राम–सीता iii) कृष्ण 94. "मैं तो समझती थी की वृन्दावन में कृष्ण के अतिरिक्त कोई दूसरा पुरुष है ही नहीं, पर अब पता चला यहाँ कोई दूसरा पुरुष भी रहता है।" यह वाक्य किसने कहा है? ii) रुक्मिणी i) राधा iv) यशोदा iii) मीरा 95. "निर्गुण कौन देस को बासी?" किसकी पंक्ति है? ii) कबीरदास i) सूरदास iv) मीराबाई iii) तुलसीदास 96. "बिगरी बात बने नहीं, लाख करो किन कोय।" पंक्ति के कवि कौन है? i) बिहारी ii) रहीम iv) मतिराम iii) आलम 97. रीतिमुक्त काव्य धारा के प्रमुख कवि इनमें से कौन है? i) बिहारी ii) देव iii) घनानंद iv) पद्माकर 98. 'रामचंद्रिका' के रचयिता का नाम क्या है? i) तुलसीदास ii) भिखारीदास iv) केशवदास iii) नाभादास 99. पद्माकर इनमें से किस काव्यधारा के कवि है? ii) रीतिसिद्ध i) रीतिबद्ध iii) रीतिमुक्त iv) सूफ़ी 100. स्वच्छंद प्रेम के गायक कौन हैं? i) वृंद ii) आलम iii) देव iv) मतिराम

नमूना प्रश्न पत्र

Semester – V	Course – IV
समय: 3:00 घंटे	पूर्णांक: 100
सूचना : 1. सभी प्रश्न अनिवार्य है। 2. सभी प्रश्नों के लिए समान अंक हैं।	
प्रश्न 1. हिंदी साहित्य के इतिहास के काल–विभाजन पर विस्तार से प्रक अथवा आदिकाल के नामकरण के संबंध में विभिन्न विद्वानों के मत स्प	गश डालिए। 20 1ष्ट कीजिए।
प्रश्न 2. हिंदी साहित्य की आदिकालीन परिस्थितियों का सामान्य परिच अथवा नाथ साहित्य की प्रमुख विशेषताओं को स्पष्ट कीजिए।	ग्य दीजिए। 20
प्रश्न 3. सूफ़ी काव्य की सामान्य विशेषताओं पर प्रकाश डालिए। अथवा कृष्णभक्ति काव्य की प्रमुख विशेषताओं को स्पष्ट कीजिए।	20
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ग) विकल्प प्रश्न– 1. आदिकाल को 'वीरगाथा काल' किस विद्वान ने कहा है? ii) मिश्रबन्धु i) आ. रामचंद्र शुक्ल iv) डॉ. रामकुमार वर्मा iii) राहुल सांकृत्यायन 2. 'ख़ालिकबारी' के रचयिता कौन हैं? ii) मुल्ला दाऊद i) अमीर ख़ुसरो iii) चंदबरदाई iv) जगनिक 3. नानक किस काव्यधारा के कवि हैं? i) सूफ़ी काव्य ii) राम काव्य iv) कृष्ण काव्य iii) संत काव्य 4. 'पुष्टिमार्ग का जहाज़' किस कवि को कहा गया है? ii) तुलसीदास i) कबीरदास iii) केशवदास iv) सूरदास 5. आचार्य शुक्ल ने रीतिकाल का प्रवर्तक किसे माना है? i) आचार्य चिंतामणि ii) कवि ग्वाल iii) केशव iv) कृपाराम

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आधुनिक हिंदी साहित्य का इतिहास

इकाई– I) (क) आधुनिक हिंदी कविता का विकास

- आधुनिक काल हिंदी साहित्य की पृष्ठभूमि एवं प्रवृत्तियों का सामान्य परिचय
- भारतेन्दु युग
- द्विवेदी युग
- छायावाद

इकाई– II

- प्रगतिवाद
- प्रयोगवाद
- नई कविता
- समकालीन कविता

इकाई– III (ख) आधुनिक हिंदी साहित्य की गद्य विधाओं का विकास–

- उपन्यास
- कहानी
- आलोचना
- इकाई– IV
- आत्मकथा
- जीवनी
- संस्मरण

निर्धारित वस्तुनिष्ठ प्रश्नों की सूची-

- 1. 'कविवचन सुधा' मासिक पत्रिका के संपादक कौन थे?
- 2. भारतेन्दु युग को 'पुनर्जागरण काल' की संज्ञा किसने दी है?
- 3. "पपीहा जब पूछिहे पीव कहाँ" काव्य पंक्ति किस कवि की है?
- 4. 'सुकवि' की उपाधि भारतेन्दु युग के किस कवि को प्राप्त हुई थी?
- 5. सन् 1903 में 'सरस्वती' पत्रिका के संपादक कौन बने?
- 6. 'यशोधरा' प्रबंध काव्य के रचनाकार कौन है?
- 7. आधुनिक काल में लिखा गया खड़ी बोली का प्रथम महाकाव्य कौन–सा है?
- 8. 'पुष्प की अभिलाषा' कविता के कवि कौन हैं?
- 9. 'कामायनी' में किस दर्शन की अभिव्यक्ति हुई है?
- 10. 'आधुनिक काल की मीरा' किसे कहा जाता है?
- 11. 'प्रकृति के सुकुमार कवि' किसे कहा गया है?
- 12. 'जूही की कली' कविता के रचनाकार कौन हैं?
- 13. 'मधुशाला' किसकी काव्य कृति है?
- 14. 'भारतीय प्रगतिशील लेखक संघ' के लखनऊ में सम्पन्न पहले अधिवेशन के अध्यक्ष कौन थे?
- 15. 'क्रांति की भावना' किस कविता की एक प्रमुख विशेषता है?
- 16. 'प्रेत का बयान' किसकी कविता है?
- 17. 'आज देश की मिट्टी बोल उठी है' किस कवि की रचना है?
- 18. 'हरी घास पर क्षण भर' कविता के रचनाकार कौन है?
- 19. 'अँधेरे में' लंबी कविता किसने लिखी है?
- 20. 'संसद से सड़क तक' काव्य संग्रह किस कवि ने लिखा है?
- 21. हिंदी का प्रतिनिधि ग़ज़लकार किसे माना जाता है?
- 22. 'छन्दशती' के रचयिता कौन है?
- 23. 'मछलीघर' किसकी कृति है?
- 24. 'अपनी केवल धार' काव्य-संग्रह किसका है?
- 25. ' बाघ' कविता किस कवि ने लिखी है?
- 26. भारतेन्दु के नाटक 'प्रेम जोगनी' में किस प्रकार की समस्या है?
- 27. प्रसाद जी के नाटकों को दुखांत या सुखांत न कहकर क्या कहा गया?
- 28. हिंदी का प्रथम गीतिनाटक कौन-सा है?
- 29. 'स्वर्ग की झलक' नाटक के रचनाकार कौन हैं?
- 30. 'डॉक्टर' नाटक के लेखक कौन हैं?
- 31. 'बिना दीवारों का घर' नाटक के रचयिता कौन हैं?
- 32. गोपालराम गहमरी जी ने अधिकतर किस प्रकार के उपन्यास लिखे?
- 33. गहमरी के जासूसी उपन्यासों का आधार कौन–से उपन्यास थे?

- 34. 'आखिरी दाँव' उपन्यास के लेखक कौन हैं?
- 35. 'अपने अपने अजनबी' उपन्यास पर किस दर्शन का प्रभाव है?
- 36. 'सोया हुआ जल' उपन्यास के लेखक कौन हैं?
- 37. शैलेश मटियानी के 'छोटे–छोटे पक्षी' उपन्यास मे किस महानगर का चित्रण है?
- 38. 'साँप और सीढ़ी' उपन्यास के लेखक कौन हैं?
- 39. सुरेंद्र तिवारी की 'वार्ड न. २' कहानी में किसका वर्णन है?
- 40. 'काला शुक्रवार' कहानी की लेखिका कौन हैं?
- 41. 'कवि और कविता' के निबंधकार कौन हैं?
- 42. 'मेरा चौदहवा जन्म दिवस' किस प्रकार का निबंध हैं?
- 43. 'अर्ध नारीश्वर' निबंध संग्रह के लेखक कौन हैं?
- 44. नंददुलारे वाजपेयी जी के निबंध अधिकतर किस प्रकार के हैं?
- 45. हिंदी साहित्य में किसे आलोचना सम्राट कहा जाता है?
- 46. आलोचना के क्षेत्र मे शुक्ल संस्थान के प्रथम मुख्य स्तंभ कौन हैं?
- 47. संस्मरण और रेखाचित्र की विधा को समृद्ध बनाने में किसका महत्वपूर्ण योगदान है?
- 48. पंत की जीवनी के रचनाकार हैं?
- 49. हिंदी की प्रथम आत्मकथा 'अर्द्धकथा' किसकी है?
- 50. हिंदी साहित्यकारों मे सर्वप्रथम किसने अपनी आत्मकथा लिखी?
- 51. आधुनिक हिंदी साहित्य का प्रवर्तक किसे माना जाता है?
- i) प्रतापनारायण मिश्र ii) भारतेन्दु
- iii) प्रेमघन iv) बालकृष्ण भट्ट
- 52. समस्यापूर्ति परक काव्य रचना किस युग की विशेषता है?

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i) द्विवेदी युग ii) छायावाद
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iii) भारतेन्दु युग iv) प्रगतिवाद
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- 53. भारतेन्दु युग की एक निम्नलिखित विशेषता कौन–सी है?
- i) देशभक्ति और राजभक्ति ii) आदर्शवाद
- iii) इतिवृत्तात्मकता iv) वैयक्तिकता
- 54. 'साकेत' किसके जीवन पर आधारित है?
- i) सीता ii) उर्मिला
- iii) अहल्या iv) रूमा
- 55. 'जागरण या सुधार काल' नाम से किस युग को जाना जाता है?
- i) भारतेन्दु ii) द्विवेदी
- iii) प्रयोगवाद iv) प्रगतिवाद
- 56. निम्नलिखित में से कौन द्विवेदी युग के कवि है?
- i) जयशंकर प्रसाद ii) अज्ञेय
- iii) मैथिलीशरण गुप्त iv) निराला

57. निम्नलिखित में से कौन-सी रचना हरिऔध की है? i) प्रिय प्रवास ii) साकेत iv) उर्वशी iii) लहर 58. इनमें से कौन– सा कवि छायावादी है? ii) मुक्तिबोध i) अज्ञेय iii) धूमिल iv) जयशंकर प्रसाद 59. 'सरोज स्मृति' किसकी रचना है? ii) निराला i) प्रसाद iii) सुमित्रानंदन पंत iv) महादेवी वर्मा 60. 'मैं नीर भरी दुख की बदली' किसकी उक्ति है? i) सुमित्रानंदन पंत ii) महादेवी वर्मा iii) दिनकर iv) निराला 61. 'कामायनी' महाकाव्य किसने लिखा है? i) नागार्जुन ii) जयशंकर प्रसाद iii) नरेंद्र शर्मा iv) त्रिलोचन 62. निम्नलिखित में से छायावादी काव्य की प्रमुख विशेषता कौन-सी है? i) वैयक्तिकता ii) क्रांति का आह्वान iv) शिल्प की नवीनता iii) क्षणवाद 63. प्रगतिवाद किस दर्शन से प्रभावित है? i) अस्तित्ववाद ii) गाँधीवाद iii) छायावाद iv) मार्क्सवाद 64. 'मूल्य–वृद्धि का सिद्धांत' किस विचारक का है? i) रुसो ii) टॉलस्टॉय iii) कार्ल मार्क्स iv) अरस्तू 65) इनमें से प्रगतिवाद की प्रमुख विशेषता क्या है? ii) शोषकों प्रति घृणा i) व्यक्तिवाद iii) सौंदर्य भावना iv) रहस्यवाद 66. निम्नलिखित में से कौन प्रगतिवादी कवि है? i) महादेवी वर्मा ii) अज्ञेय iii) दिनकर iv) हरिवंशराय बच्चन 67. 'कुकुरमुत्ता' कविता किस कवि की है? i) नागार्जुन ii) श्रीकांत वर्मा iii) मुक्तिबोध iv) निराला

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68. प्रयोगवाद के प्रवर्तक कवि कौन है?
i) अज्ञेय
                             ii) धूमिल
                             iv) नरेश मेहता
iii) रांगेय राघव
69. प्रयोगवादी काव्यधारा का प्रारंभ किस पुस्तक के प्रकाशन से माना जाता है?
                             ii) दूसरा सप्तक
i) तार सप्तक
iii) तीसरा सप्तक
                             iv) चौथा सप्तक
70. प्रयोगवादी कविता कि निम्नलिखित कौन–सी प्रमुख विशेषता है?
                             ii) शिल्प की नवीनता
i) लघु मानव
                             iv) ग्राम बोध
iii) नगर बोध
71. निम्नलिखित में से कौन नई कविता का कवि हैं?
i) लक्ष्मीकांत वर्मा
                             ii) नीरज
iii) देवेंद्र शर्मा
                             iv) अंचल
72. 'लघु मानव बोध' यह किस कविता की विशेषता है?
                             ii) नवगीत
i) छायावाद
                             iv) नई कविता
iii) प्रगतिवाद
73. निम्नलिखित में से कौन-सी कविता मुक्तिबोध की है?
i) नदी के द्वीप
                             ii) अंधेरे में
iii) जुही की कली
                             iv) साँप
74. 'संसद से सड़क तक' किसका काव्य संग्रह है?
i) अज्ञेय
                             ii) शमशेर
iii) शिवमंगलसिंह सुमन
                             iv) धूमिल
75. मंगलेश डबराल किस काल की कविता से जुड़े हैं?
                             ii) समकालीन कविता
i) छायावाद
                             iv) प्रयोगवाद
iii) नई कविता
76. हिंदी का पहला उपन्यास किसे माना जाता है?
i) भाग्यवती
                             ii) चंद्रकांता
                             iv) नूतन ब्रह्मचारी
iii) परीक्षा गुरु
77. 'सिरकटी लाश' उपन्यास किसका है?
i) गोपाल राय
                             ii) गोपालराम गहमरी
iii) मथुराप्रसाद शर्मा
                             iv) गंगा प्रसादगुप्त
78. हिंदी उपन्यास सम्राट किसे कहा जाता है?
                             ii) जयशंकर प्रसाद
i) यशपाल
iii) प्रेमचंद
                             iv) अमृतलाल नागर
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79. सूरदास के जीवन पर आधारित उपन्यास का नाम बताइए? i) मानस का हंस ii) सेवासदन iii) खंजन नयन iv) भाग्यवती 80. 'कफ़न' कहानी के कहानीकार कौन है? i) जैनेंद्र ii) सुदर्शन iv) कमलेश्वर iii) प्रेमचंद 81. इनमें से भीष्म साहनी की कहानी कौन–सी है? i) चीफ़ की दावत ii) प्रतीक्षा iv) नीली झील iii) मवाली 82. अमृतराय राय किस कहानी के प्रवर्तक है? i) सक्रिय कहानी ii) अकहानी iii) सहज कहानी iv) सचेतन कहानी 83. समांतर कहानी आंदोलन किसने चलाया? ii) कमलेश्वर i) महीप सिंह iii) दूधनाथ सिंह iv) अमरकांत 84. हिंदी का पहला नाटक किसे माना जाता है? i) शकुंतला ii) रुक्मणी हरण iii) चंडी चरित्र iv) नहुष 85) 'भारत दुर्दशा' किसका नाटक है? i) भारतेन्दु ii) बालकृष्ण भट्ट iv) प्रतापनारायण मिश्र iii) राधाकृष्णदास 86. इनमें से जयशंकर प्रसाद का नाटक कौन–सा है? ii) भारत सौभाग्य i) बाल विवाह iii) मालती माधव iv) चन्द्रगुप्त 87. वृंदावनलाल वर्मा ने किस प्रकार के नाटक लिखे हैं? ii) पौराणिक i) सामाजिक iii) ऐतिहासिक iv) प्रतीकवादी 88. हिंदी के प्रथम निबंधकार कौन है? i) आ. रामचंद्र शुक्ल ii) प्रेमघन iii) बाबू तोताराम iv) भारतेन्दु 89. 'चिन्तामणि' किसका निबंध संग्रह है?

89. 'चिन्तामाण' किसका निबंध संग्रह ह'? i) आ. हजारीप्रसाद द्विवेदी ii) आ. रामचंद्र शुक्ल iii) सरदार पूर्णसिंह iv) मिश्रबन्धु 90. 'मेरे राम का मुकुट भीग रहा है' किसका प्रसिद्ध निबंध है? i) डॉ. रामविलास शर्मा ii) रामधारीसिंह दिनकर iii) कन्हैयालाल मिश्र प्रभाकर iv) पं.विद्यानिवास मिश्र 91. इनमें से कौन ललित निबंधकार है? i) कुबेरनाथ राय ii) धर्मवीर भारती iii) ठाकुरप्रसाद सिंह iv) श्रीलाल शुक्ल 92. 'चीड़ों पर चाँदनी' यह किसका निबंध संग्रह है? i) शिवप्रसाद सिंह ii) विष्णुकांत शास्त्री iv) विवेकी राय iii) निर्मल वर्मा 93. हिंदी आलोचना का जनक किसे माना गया है? i) आ. रामचंद्र शुक्ल ii) बालकृष्ण भट्ट iii) भारतेन्द् iv) हजारीप्रसाद द्विवेदी 94. तुलनात्मक आलोचना के जनक कौन है? i) प्रेमघन ii) भारतेन्द् iv) पद्मसिंह शर्मा iii) रामविलास शर्मा 95. हिंदी में वैज्ञानिक आलोचना का सूत्रपात किसने किया? ii) महावीरप्रसाद द्विवेदी i) आ. रामचंद्र शुक्ल iv) रामस्वरूप चतुर्वेदी iii) शिवदानसिंह चौहान 96. रीतिकाल की कविता को 'क्षयग्रस्त' किस आलोचक ने कहा है? ii) नंददुलारे वाजपेई i) आ. शुक्ल iii) निराला iv) डॉ. नगेन्द्र 97. 'सिंहावलोकन' किसकी आत्मकथा है? i) सत्यदेव परिव्राजक ii) शांतिप्रिय द्विवेदी iii) देवेंद्र सत्यार्थी iv) यशपाल 98. हिंदी में दलित आत्मकथा के सूत्रपात का श्रेय किसे जाता है? i) मोहनदास नैमिशराय ii) ओमप्रकाश वाल्मीकि iii) कौशल्या बैसंत्री iv) माताप्रसाद 99. 'कितने शहरों में कितनी बार' किसकी आत्मकथा है? i) मैत्रेयी पुष्पा ii) रमणिका गुप्ता iv) ममता कालिया iii) मन्नू भंडारी 100. 'आवारा मसीहा' जीवनी के लेखक कौन है? i) विष्णु प्रभाकर ii) रामवृक्ष बेनीपुरी iii) जैनेंद्र कुमार iv) कृष्ण बिहारी मिश्र

संदर्भ ग्रंथ सूची-

- 1. हिंदी साहित्य का इतिहास आचार्य रामचंद्र शुक्ल, लोकभारती प्रकाशन, इलाहाबाद
- 2. हिंदी साहित्य का इतिहास डॉ.नगेंद्र (संपादक), मयूर पेपरबैक, नई दिल्ली
- 3. हिंदी साहित्य का आदिकाल आचार्य हजारीप्रसाद द्विवेदी, वाणी प्रकाशन, दिल्ली
- 4. हिंदी साहित्य की प्रवृत्तियाँ डॉ.जयकिशन खंडेलवाल,विनोद पुस्तक मंदिर प्रकाशन,आगरा
- 5. हिंदी साहित्य युग और प्रवृत्तियाँ डॉ. शिवकुमार शर्मा, अशोक प्रकाशन, नई दिल्ली
- 6. हिंदी साहित्य का दूसरा इतिहास डॉ. बच्चन सिंह, लोकभारती प्रकाशन, इलाहाबाद
- 7. हिंदी साहित्य का वैज्ञानिक इतिहास डॉ.गणपतिचंद्र गुप्त, लोकभारती प्रकाशन, इलाहाबाद
- 8. हिंदी साहित्य का आलोचनात्मक इतिहास– डॉ.रामकुमार वर्मा,लोकभारती प्रकाशन, इलाहाबाद
- 9. हिंदी साहित्य का इतिहास डॉ. लक्ष्मीसागर वार्ष्णेय, लोकभारती प्रकाशन, इलाहाबाद
- 10. हिंदी साहित्य का इतिहास डॉ. विजयेन्द्र स्नातक, लोकभारती प्रकाशन, इलाहाबाद
- 11. हिंदी साहित्य का इतिहास डॉ. माधव सोनटक्के, विकास प्रकाशन, कानपुर
- 12. हिंदी साहित्य का इतिहास सं. डॉ. पूरनचंद टंडन, डॉ. विनिता कुमारी, जगतराम एण्ड सन्स प्रकाशन, नई दिल्ली
- 13. हिन्दी साहित्य की भूमिका, आ. हजारी प्रसाद द्विवेदी, राजकमल प्रकाशन,दिल्ली
- 14. हिंदी साहित्य का इतिहास सं. डॉ. नगेंद्र और डॉ.हरदयाल,नेशनल पब्लिशिंग हाऊस, दिल्ली
- 15. आधुनिक साहित्य नंददुलारे वाजपेयी, राजकमल प्रकाशन,दिल्ली
- 16. आधुनिक साहित्य की प्रवृत्तियाँ डॉ. नामवर सिंह,लोकभारती प्रकाशन, इलाहाबाद
- 17. नई कविता के प्रतिमान लक्ष्मीकांत वर्मा,भारती प्रेस प्रकाशन, इलाहाबाद
- 18. हिन्दी साहित्य और संवेदना का विकास रामस्वरूप चतुर्वेदी,लोकभारती प्रकाशन,इलाहाबाद
- 19.पद्मावत में जायसी की लोकदृष्टि– डॉ. चंद्रलाल वरियलदास अच्छरा,ज्ञान प्रकाशन,कानपुर
- 20. मालिक मुहम्मद जायसी– डॉ. शिव सहाय पाठक,साहित्य भवन,इलाहाबाद
- 21. संत साहित्य और समाज डॉ. रमेशचन्द्र मिश्र,आर्य प्रकाशन मण्डल, दिल्ली
- 22. हिन्दी आलोचना का विकास –नन्दकिशोर नवल, राजकमल प्रकाशन,दिल्ली
- 23. इतिहास और साहित्य-डॉ. हूबनाथ पांडेय,विद्यापीठ प्रकाशन,मुंबई

नमूना प्रश्न पत्र

Semester – VI	Course – IV
समय : 3:00 घंटे	पूर्णांक : 100
सूचना : 1. सभी प्रश्न अनिवार्य है। 2. सभी प्रश्नों के लिए समान अंक हैं।	
प्रश्न 1. आधुनिक काल की युगीन परिस्थितियों पर प्रकाश डालिए। अथवा भारतेन्दु युग की प्रमुख प्रवृत्तियों का परिचय दीजिए।	20
प्रश्न 2. प्रगतिवादी कविता की प्रमुख विशेषताओं पर प्रकाश डालिए। अथवा नई कविता की विशेषताओं को स्पष्ट कीजिए।	20
प्रश्न 3. हिंदी उपन्यास के विकास–क्रम को स्पष्ट कीजिए। अथवा हिंदी आलोचना के विकास–क्रम को विस्तार से समझाइए।	20
प्रश्न 4. हिंदी जीवनी साहित्य के विकास-क्रम पर प्रकाश डालिए। अथवा हिंदी आत्मकथा साहित्य के विकास-क्रम का विवेचन कीजिए।	20
प्रश्न 5. क) किन्हीं दो विषयों पर टिप्पणियाँ लिखिए। 1. द्विवेदी युगीन कविता 2. छायावादी काव्य 3. समकालीन कविता 4. हिंदी उपन्यास	10
ख) वस्तुनिष्ठ प्रश्न – 1. भारतेन्दु युग को 'पुनर्जागरण काल' की संज्ञा किसने दी है? 2. 'पुष्प की अभिलाषा' कविता के कवि कौन हैं?	05

3. 'क्रांति की भावना' किस कविता की एक प्रमुख विशेषता है? 4. 'स्वर्ग की झलक' नाटक के रचनाकार कौन हैं? 5. 'अर्ध नारीश्वर' निबंध संग्रह के लेखक कौन हैं? ग) विकल्प प्रश्न-05 1. आधुनिक हिंदी साहित्य का प्रवर्तक किसे माना जाता है? i) प्रतापनारायण मिश्र iii) प्रेमघन ii) भारतेन्दु iv) बालकृष्ण भट्ट iii) प्रेमघन 2. 'सरोज स्मृति' किसकी रचना है? ii) निराला i) प्रसाद iii) सुमित्रानंदन पंत iv) महादेवी वर्मा 3. इनमें से प्रगतिवाद की प्रमुख विशेषता क्या है? ii) शोषकों प्रति घृणा i) व्यक्तिवाद iii) सौंदर्य भावना iv) रहस्यवाद 4. प्रयोगवादी कविता कि निम्नलिखित कौन-सी प्रमुख विशेषता है? ii) शिल्प की नवीनता i) लघु मानव iii) नगर बोध iv) ग्राम बोध 5. इनमें से भीष्म साहनी की कहानी कौन-सी है? i) चीफ़ की दावत ii) प्रतीक्षा iii) मवाली iv) नीली झील _____

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) V
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	V
PAPER NAME	POST INDEPENDENCE HINDI
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स्वातंत्र्योत्तर हिंदी साहित्य

इकाई– I

- नाटक : अर्थ, परिभाषा, स्वरूप एवं विकास
- नाटक के तत्व एवं प्रकार

इकाई– II निर्धारित पाठ्य पुस्तक–

• काला पत्थर – (नाटक) : डॉ. सुरेश शुक्ल 'चन्द्र'

अमन प्रकाशन, कानपुर

इकाई– III

- एकांकी : अर्थ, परिभाषा, स्वरूप एवं विकास
- नाटक और एकांकी में साम्य-वैषम्य

इकाई– IV निर्धारित पाठ्य पुस्तक–

• एकांकी–सुमन (एकांकी–संग्रह) **संपादन:** हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय,मुंबई, वाणी प्रकाशन 4695, 21-ए ,दरियागंज,नई दिल्ली

पाठ्यक्रम के लिए निर्धारित एकांकी–

- दीपदान रामकुमार वर्मा
- और वह जा न सकी विष्णु 'प्रभाकर'
- बहू की विदा विनोद रस्तोगी
- रात के राही ब्रज भूषण
- जान से प्यारे ममता कालिया
- अन्वेषक प्रताप सहगल
- नो एडमिशन संजीव निगम

संदर्भ ग्रंथ सूची-

1. हिंदी नाटक के पांच दशक – कुसुम खेमानी, राधाकृष्ण प्रकाशन, दिल्ली 2. हिंदी नाटक कल और आज – केदार सिंह, मोतीलाल बनारसीदास पब्लिशर्स, दिल्ली 3. आधुनिक हिंदी नाटक – गिरीश रस्तोगी, ग्रंथम प्रकाशन, कानपुर 4. हिंदी नाटक और रंगमंच: नई दिशाएं, नए प्रश्न, – गिरीश रस्तोगी,अभिव्यक्ति प्रकाशन,इलाहाबाद 5. आधुनिक भारतीय नाट्य विमर्श – जयदेव तनेजा, राधाकृष्ण प्रकाशन, दिल्ली 6. हिंदी नाटककार – जयनाथ नलिन, आत्माराम एंड संस, दिल्ली 7. नाट्य निबंध – दशरथ ओझा, नेशनल पब्लिशिंग हाउस, दिल्ली 8. हिंदी नाटक बदलते आयाम – नरेंद्रनाथ त्रिपाठी, विक्रम प्रकाशन, दिल्ली 9. आधुनिक हिंदी नाटककारों के नाटक सिद्धांत – निर्मला हेमंत, अक्षर प्रकाशन, दिल्ली 10. रंगदर्शन – नेमीचंद्र जैन, राधाकृष्ण प्रकाशन, दिल्ली 11. हिंदी नाटक – बच्चन सिंह, राधाकृष्ण प्रकाश, दिल्ली 12. स्वातंत्र्योत्तर नाटक:मूल्य संक्रमण–जोतीश्वर मिश्र,राजकमल प्रकाशन,दिल्ली 13. आधुनिक हिंदी नाटक- बनवीर प्रसाद शर्मा, अनग प्रकाशन, दिल्ली 14. नाटक : विवेचना और दृष्टि – डॉ. मोहसिन ख़ान–अमन प्रकाशन, कानपुर 15. भारतीय नाट्य शास्त्र और रंगमंच– रामसागर त्रिपाठी, अशोक प्रकाशन, दिल्ली 16. हिन्दी एकांकी –सिद्धनाथ कुमार, राधाकृष्ण प्रकाशन, दिल्ली 17. रंगमंच का सौंदर्यशास्त्र –देवेंद्र राज अंकुर, राजकमल प्रकाशन,दिल्ली 18. हिन्दी नाटक का आत्मसंघर्ष– गिरीश रस्तोगी,राजकमल प्रकाशन,दिल्ली 19. स्वातंत्र्योत्तर हिन्दी नाटकों में शोषण के विविध रूप– डॉ. सुरेश तायड़े,शैलजा प्रकाशन,कानपुर 20. समकालीन हिन्दी नाटक : समय और संवेदना–डॉ. नवीन नन्दवाना,अमन प्रकाशन,कानपुर 21. विवेचनात्मक निबंध—डॉ. शकीला खानम,शैलजा प्रकाशन,कानपुर 22. समकालीन एकांकी : संवेदना एवं शिल्प—डॉ. रंजना वर्दे,शैलजा प्रकाशन,कानपुर 23. डॉ. सुरेश शुक्ल 'चन्द्र' की रंगयात्रा-डॉ. लवकुमार लवलीन,शैलजा प्रकाशन,कानपुर 24. स्वातंत्र्योत्तर हिन्दी नाटक संवेदना और शिल्प– डॉ. श्यामसुंदर पांडेय,अमन प्रकाशन,कानपुर 24. हिन्दी नाटक के पाँच दशक-कुसुम खेमनी,राजकमल प्रकाशन,दिल्ली 25.एकांकी मंच-डॉ. वी. पी. 'अमिताभ',जवाहर पुस्तकालय,मथुरा 26. मानक एकांकी-सं. डॉ. बच्चन सिंह,भूमिका प्रकाशन,नई दिल्ली 27. नाट्य-विमर्श –सं.जयदेव तनेजा,राजकमल प्रकाशन,दिल्ली 28. रंग-अरंग –हृषिकेश सुलभ,राजकमल प्रकाशन,दिल्ली
| Semester – V | Course – V | |
|--|--|---------|
| समय : 3:00 घंटे | पूर्णांक : 100 | |
| सूचना : 1. सभी प्रश्न अनिवार्य है।
2. सभी प्रश्नों के लिए समान अंक है | l | |
| प्रश्न 1. नाटक का स्वरूप स्पष्ट करते हुए उस | का विकास क्रम लिखिए। | 20 |
| ँअथव | T | |
| नाटक और एकांकी में साम्य-वैषम्य | स्पष्ट कीजिए। | |
| प्रश्न 2. निम्नलिखित अवतरणों की संदर्भ सहि | हेत व्याख्या कीजिए। | |
| क) ''पाँच वर्ष से, जबसे मेरा गौना हु | आ है, में इस शराबी आदमी के अत्याचार | . सह |
| रही हूँ। यह हर तरह मुझे प्रताड़ित कर | ता है। इसने मेरा ज़ेवर, घर, बर्तन, सब कुछ | |
| शराब की भेंट चढ़ा दिया।" | | 20 |
| अथ | त्रा | |
| ''लेकिन राज़ीनामा के सारे काग़ज़ात, | दस्तख़त करके मेरे बापू के हवाले कर दिये | |
| जाएँ। तलाक़ मंज़ूरी और बापू के कर्ज़ | माफ़ी के काग़ज़ात पहले देने होंगे।" | |
| | | |
| ख) ''चली गई। कहती है, ऐसा मैं नई | ों सुन सकूँगी। जो मुझे करना है, वह सामर्ल | ो सुन |
| भी न सकेगी। भवानी! तुमने मेरे हृदय | को कैसा कर दिया।" | 20 |
| अथव | т | |
| ''मैंने आज सुबह अख़बार में आप द्व
आपने निग नीनन नगरण पंरेष न | ारा दिया शोक समाचार पढ़ा तो मैं हिल उट
प्राप्त दें!'' | ऽ।। मैं |
| आपके लिए जावने का नेया सदश ल | | 20 |
| प्रेन ५. पुनिया का चारत्र-ाचत्रण स्पष्ट काजिल
आजन | ,I
T | 20 |
| अथव
(जनवर प्रवृण्ण, नगव, जी जणा निगर | ।
सम्बद्धाः स्वीचिम् | |
| ंकाला पर्तयर नाटक का कया विस्त | गर स स्पष्ट काजिए। | |
| प्रश्न 4. 'बहू की विदा' एकांकी के चरित्र–चि | त्रण कीजिए। | 20 |
| ्रंअथव | Т | |
| 'रात के राही' एकांकी की विशेषताएँ | स्पष्ट कीजिए। | |
| प्रश्न ५ किन्हीं दो विषयों पर टिप्पणियाँ लिगि | वरग | 20 |
| क) पन्ना | ्र रे'
ख) आर्यभड | 20 |
| ग) डॉ. कौशिक का आविष्कार | घ) 'नो एडमिशन' की रेखा | |
|) | · · | |

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) VI
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स्वातंत्र्योत्तर हिंदी साहित्य

इकाई- I

- कविता : अर्थ, परिभाषा एवं स्वरूप
- स्वातंत्र्योत्तर कविता : संवेदना और शिल्प

इकाई- II निर्धारित पाठ्य पुस्तक-

 काव्य-सौरभ (कविता-संग्रह)-संपादनः हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय,मुंबई, राजकमल प्रकाशन,दरियागंज,नई दिल्ली

पाठ्यक्रम के लिए निर्धारित कविताएँ–

- यात्री सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय'
- उनको प्रणाम नागार्जुन
- नया कवि गिरिजाकुमार माथुर
- प्रमथ्यु गाथा धर्मवीर भारती
- इस तरह तो बालस्वरूप 'राही'
- पानी में घिरे हुए लोग केदारनाथ सिंह
- थोड़े-से बच्चे और बाक़ी बच्चे चंद्रकांत देवताले
- सिलसिला सुदामा पाण्डेय 'धूमिल'
- रात किसी का घर नहीं राजेश जोशी
- चुप्पी टूटेगी ओमप्रकाश वाल्मीकि
- बाज़ारे-नुमाइश में दीक्षित दनकौरी
- बूढ़ी पृथ्वी का दुख निर्मला पुतुल

इकाई- III

- निबंध : अर्थ, परिभाषा,भेद और तत्त्व
- हिन्दी निबंध साहित्य का विकास

इकाई- IV निर्धारित पाठ्य पुस्तक-

 निबंध–विविधा (निबंध–संग्रह)– संपादन: हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय,मुंबई, नयी किताब प्रकाशन,दरियागंज,नई दिल्ली

पाठ्यक्रम के लिए निर्धारित निबंध–

- बाज़ार-दर्शन जैनेन्द्र कुमार
- पाप के चार हथियार कन्हैयालाल मिश्र 'प्रभाकर'
- मनुष्य की सर्वोत्तम कृति-साहित्य हजारीप्रसाद द्विवेदी
- हिम्मत और ज़िंदगी रामधारी सिंह 'दिनकर'
- अगर मुल्क में अख़बार न हो नामवर सिंह
- रसायन और हमारा पर्यावरण डॉ. एन. एल. रामनाथन
- आँगन का पंछी विद्यानिवास मिश्र
- पाँत का आख़िरी आदमी कुबेरनाथ राय
- मनुष्य और ठग प्रेम जमेजय
- ओ वसंत तुम्हें मनुहारता कचनार श्रीराम परिहार

1. काव्यशास्त्र – भगीरथ मिश्र, विश्वविद्यालय प्रकाशन, वाराणसी 2. साहित्यिक निबंध – गणपतिचन्द्र गुप्त, लोकभारती प्रकाशन, इलाहाबाद 3. हिंदी का गद्य साहित्य – रामचंद्र तिवारी, विश्वविद्यालय प्रकाशन, वाराणसी 4. प्रतिनिधि हिन्दी निबंधकार – ज्योतीश्वर मिश्र, लोकभारती प्रकाशन, इलाहाबाद 5. छायावादोत्तर हिंदी गद्य साहित्य – विश्वनाथ प्रसाद तिवारी, विश्वविद्यालय प्रकाशन, वाराणसी 6. हिन्दी–निबंधकर – जयनाथ नलिन, आत्माराम एंड संज, दिल्ली 7. हिन्दी कविता का अतीत और वर्तमान – मैनेजर पाण्डेय, वाणी प्रकाशन, दिल्ली 8. स्त्री कविता पहचान और द्वंद्व – रेखा सेठी, राजकमल प्रकाशन, दिल्ली 9. आज की कविता –विनय विश्वास, राजकमल प्रकाशन, दिल्ली 10. समकालीन कविता : सृजन और संदर्भ–डॉ. सतीश पांडेय, शैलजा प्रकाशन,कानपुर 11.हिन्दी साहित्य : संवेदना के धरातल–सं. डॉ.अनिल सिंह,सीमा प्रकाशन,परभणी 12.चंद्रकांत देवताले की कविताओं में युगबोध –डॉ. गजानन भोसले,अमन प्रकाशन,कानपुर 13.आधुनिक कविता का पुनर्पाठ-डॉ.करुणाशंकर उपाध्याय 14.जनकवि नागार्जुन एवं प्र्योगवदी कवि —डॉ.वीणा दाढ़े,अमन प्रकाशन,कानपुर 15.ललित निबंध : स्वरूप एवं परंपरा –डॉ. श्रीराम परिहार,किताब घर प्रकाशन,नई दिल्ली 16.हजारीप्रसाद द्विवेदी : समग्र पुनर्वालोकन–चौथीराम यादव, राजकमल प्रकाशन, दिल्ली 17.समकालीन नवगीत का विकास –डॉ. राजेश सिंह,वाणी प्रकाशन, दिल्ली 18. समकालीन लेखन और आधुनिक संवेदना –कल्पना वर्मा,राजकमल प्रकाशन, दिल्ली 19. धूमिल और उनका काव्य –संघर्ष–ब्रम्हदेव मिश्र,राजकमल प्रकाशन,दिल्ली 20. नागार्जुन : अंतरंग और सृजन–कर्म- सं. मुरली मनोहर प्रसाद सिंह ,राजकमल प्रकाशन,दिल्ली 21. हिन्दी कविता का वर्तमान परिदृश्य-डॉ. हरि शर्मा,प्रकाशन संस्थान,नई दिल्ली 22. कविता का शहर–राजेश जोशी,राजकमल प्रकाशन,दिल्ली 23. कविता की जमीन और जमीन की कविता– डॉ. नामवर सिंह,राजकमल प्रकाशन, नई दिल्ली 24. कविता के नए प्रतिमान– डॉ. नामवर सिंह,राजकमल प्रकाशन, नई दिल्ली 25.नागार्जुन और उनकी कविता– नंदकिशोर नवल,राजकमल प्रकाशन, नई दिल्ली 26.आधुनिक साहित्य मूल्य और मूल्यांकन–डॉ.अनिल कुमार सिंह,साहित्यभूमि,प्रकाशन,नई दिल्ली 27. हिन्दी-उर्दू कविता संदर्भ और प्रकृति—डॉ. एम.एच.सिद्दीकी,ज्ञान प्रकाशन,कानपुर 28. ललित निबंध विधा की बात-डॉ. हूबनाथ पांडेय,अनभै प्रकाशन,मुंबई 29. ललित निबंधकार कुबेरनाथ राय–डॉ. हूबनाथ पांडेय,अनभै प्रकाशन,मुंबई 30. कन्हैयालाल मिश्र 'प्रभाकर'–डॉ. जयप्रकाश नारायण सिंह,साहित्य रत्नाकर,कानपुर 31. हिन्दी गजल के नवरत्न–मधु खराटे,साहित्य रत्नाकर,कानपुर 32. केदारनाथ सिंह का काव्य लोक–डॉ.शेरपाल सिंह,साहित्य रत्नाकर,कानपुर

Semester – VI	Course – V
समय : 3:00 घंटे	पूर्णांक : 100
सूचना : 1. अंतिम प्रश्न अनिवार्य है।	
2. सभी प्रश्नों के लिए समान अंक है।	
प्रश्न 1. स्वातंत्र्योत्तर कविता की संवेदना पर प्रकाश डालिए।	20
अथवा	
स्वातंत्र्योत्तर निबंध साहित्य का विकास स्पष्ट कीजिए।	
प्रश्न 2. निम्नलिखित अवतरणों की संदर्भ सहित व्याख्या कीजिए।	20
क) ''पग-पग पर तीर्थ है,	
मंदिर भी बहुतेरे हैं;	
तू जितनी करे परिकम्मा, जितने लगा फेरे	
मंदिर से, तीर्थ से, यात्रा से।"	
अथवा	
क्या होती है, तुम्हारे भीतर धमस	
कटकर गिरता है जब कोई पेड़ धरती पर ?	
सुना है कभी	
रात के सन्नाटे में अंधेरे से मुँह ढाँप	
किस कदर रोती हैं नदियाँ ?	
ख) ''मैंने मन में कहा ठीक। बाज़ार आमंत्रित करता है कि आअ	गे मुझे लूटो और
लूटो। सब भूल जाओ, मुझे देखो।"	20
अथवा	
"ताबड़तोड़ हरियाली लाने के लिए वानस्पतिक संसार के	दावेदारों ने पोची हरीतिमा
वाली जड़ों का पोषण शुरू कर दिया।"	
प्रश्न 3. 'थोड़े-से बच्चे और बाक़ी बच्चे' कविता की संवेदनाएँ स्पष्ट क	जेजिए। 20
अथवा	
'रात किसी का घर नहीं' कविता की मूलसंवेदना स्पष्ट कीजिए।	
प्रश्न 4. 'ऑंगन का पंछी' निबंध का भाव-सौन्दर्य स्पष्ट कीजिए।	20
अथवा	
'पाप के चार हथियार' निबंध का संदेश स्पष्ट कीजिए।	
प्रश्न 5. किन्हीं दो विषयों पर टिप्पणियाँ लिखिए।	20
क) 'चुप्पी टूटेगी' कविता की मूल संवेदना ख) 'नया कवि'	'कविता का भाव
ग) 'मनुष्य और ठग'का आशय घ) 'रसायन और हम	ारा पर्यावरण'निबंध का उद्देश्य

सूचना: प्रकल्प -20 अंक

• सूचना प्रौद्योगिकी के क्षेत्र में हिन्दी आधारित रोजगार की संभावनाएँ

- भारत में डिजिटलाइज़ेशन और हिन्दी

- ब्लॉग)
- इन्टरनेट और हिन्दी (यूनिकोड फॉण्ट परिवर्तक, देवनागरी लिपि टाइपिंग टूल, हिन्दी में ईमेल, नेट पर हिन्दी विज्ञापन, हिन्दी की साहित्यिक ई–पत्रिकाएँ, हिन्दी

इकाई– IV

- में विविध संस्थानों की भूमिका/योगदान (राजभाषा विभाग, केन्द्रीय हिन्दी संस्थान,आगरा, सी-डैक पुणे, भारतीय प्रौद्योगिकी संस्थान)
- सूचना प्रौद्योगिकी के क्षेत्र में हिन्दी भाषा और देवनागरी लिपि के वैश्विक प्रसार
- सूचना प्रौद्योगिकी : हिन्दी सॉफ़्टवेयर परिचय, अनुप्रयोग और महत्व
- सूचना प्रौद्योगिकी : हिन्दी भाषा और देवनगीरी लिपि का वैश्विक प्रयोग
- इकाई–III
- सूचना प्रौद्योगिकी : शिक्षा के क्षेत्र में उपादेयता
- सूचना प्रौद्योगिकी का जनसंचार के क्षेत्र में योगदान और महत्व (हिन्दी पत्रकारिता: प्रिंट मीडिया, इलेक्ट्रॉनिक मीडिया के संदर्भ में)
- सूचना प्रौद्योगिकी का व्यवहार क्षेत्र : समान्य परिचय

इकाई– II

- सूचना प्रौद्योगिकी : सकारात्मक और नकारात्मक प्रभाव
- सूचना प्रौद्योगिकी : समस्याएँ ,सीमाएँ और चुनौतियाँ
- सूचना प्रौद्योगिकी : अर्थ, परिभाषा, स्वरूप और विकास

इकाई– I

हिन्दी में सूचना प्रौद्योगिकी

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) VI
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	V
PAPER NAME	INFORMATION TECHNOLOGY IN
	HINDI) हिन्दी में सूचना प्रौद्योगिकी
PAPER NO.	VI
COURSE CODE	UAHIN–503
LACTURE	45
CREDITS & MARKS	CREDITS - 4 & MARKS - 80

- 1. आधुनिक जनसंचार और हिन्दी हरिमोहन, तक्षशिला प्रकाशन, दिल्ली
- 2. कंप्यूटर के भाषिक अनुप्रयोग विजय कुमार मल्होत्रा, वाणी प्रकाशन, दिल्ली
- 3. कंप्यूटर और हिन्दी हरिमोहन, तक्षशिला प्रकाशन, दिल्ली
- 4. पत्रकारिता से मीडिया तक मनोज कुमार, वैभव प्रकाशन, रायपुर
- 5. जनसंचार परिदृश्य डॉ. नीलम राठी, रजनी राठी, उत्कर्ष प्रकाशन, दिल्ली
- 6. प्रयोजनमूलक हिन्दी डॉ. पी. लता, लोकभारती प्रकाशन,इलाहाबाद
- 7. प्रयोजनमूलक हिन्दी रमेश जैन, नेशनल पब्लिशिंग हाउस, दिल्ली
- 8. जनसंचार और हिन्दी पत्रकारिता डॉ. अर्जुन तिवारी, वाणी प्रकाशन, दिल्ली
- 9. प्रयोजनमूलक हिन्दी डॉ. विनोद गोदरे, वाणी प्रकाशन,दिल्ली
- 10. वर्चुअल रियलिटी और इन्टरनेट जगदीश्वर चतुर्वेदी, अनामिका पब्लिशर्स, दिल्ली
- 11. मीडिया भूमंडलीकरण और समाज संपादक : संजय द्विवेदी, यश पब्लिकेशन, दिल्ली
- 12. वैश्विक परिदृश्य में साहित्य,मीडिया और समाज: सं. डॉ.उमापति दीक्षित,डॉ .अनिल सिंह, कला एवं धर्म शोध – संस्थान,वाराणसी
- 13. जनसंचार और मीडिया लेखन डॉ. दत्तात्रय मुरुमकर, प्रकाशन संस्थान, दिल्ली
- 14. अनुवाद का समकाल डॉ. मोहसिन ख़ान, लोकभारती प्रकाशन, इलाहाबाद
- 15. हिन्दी पत्रकारिता और साहित्य –रामअवतार शर्मा, नमन प्रकाशन, दिल्ली
- 17. भूमंडलीकरण और हिन्दी-कल्पना वर्मा,राजकमल प्रकाशन,नई दिल्ली
- 18. इंटरनेट विज्ञान –नीता मेहता,साहित्य रत्नाकर,कानपुर
- 19. इलेक्ट्रॉनिक्स मीडिया एवं सूचना प्रौद्योगिकी–डॉ. यू. सी.गुप्ता,साहित्य रत्नाकर,कानपुर
- 20. संचार भाषा हिन्दी –डॉ. सूर्यप्रसाद दीक्षित,राजकमल प्रकाशन,नई दिल्ली
- 21. समकालीन साहित्य और भूमंडलीकरण सं.डॉ.अनिल सिंह,न्यूमैन पब्लिकेशन,मुंबई
- 21. सूचना प्रौद्योगिकी और जन-माध्यम प्रो. हरिमोहन, तक्षशिला प्रकाशन, नई दिल्ली

Semester – V समय : 2:30 घंटे Course – IV पूर्णांक : 80

सूचना : 1. अंतिम प्रश्न अनिवार्य है।

2. शेष चार प्रश्नों में से किन्हीं तीन के उत्तर लिखिए।

3. सभी प्रश्नों के लिए समान अंक है।

प्रश्न 1. सूचना प्रौद्योगिकी का अर्थ, परिभाषा, स्वरूप स्पष्ट कीजिए। 20 अथवा सूचना प्रौद्योगिकी की उपयोगिता और महत्व को दर्शाएँ।

प्रश्न 2. सूचना प्रौद्योगिकी का व्यवहार क्षेत्र सामान्य परिचय की चर्चा कीजिए। 20 अथवा सूचना प्रौद्योगिकी का शिक्षा के क्षेत्र में योगदान और उपादेयता स्पष्ट करें।

प्रश्न 3. सूचना प्रौद्योगिकी में हिंदी भाषा के प्रसार एवं प्रयोग पर प्रकाश डालिए। 20 अथवा

हिन्दी भाषा, देवनागरी लिपि के प्रसार क्षेत्र में विविध संस्थानों की भूमिका दर्शाएँ।

प्रश्न 4. भारत में डिज़िटलाइजेशन के विकास को बताते हुए उसकी उपयोगिता सिद्ध करें।20 अथवा हिन्दी में सूचना प्रौद्योगिकी विविध क्षेत्रों में रोज़गार की संभावनाओं को स्पष्ट करें।

प्रश्न 5 किन्हीं दो पर टिप्पणियाँ लिखिए। 20 क) सूचना प्रौद्योगिकी की समस्याएँ

ख) इलेक्ट्रॉनिक मीडिया

ग) हिन्दी सॉफ़्टवेयर परिचय

घ) देवनागरी लिपि टाइपिंग टूल

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) VI
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	VI
PAPER NAME	SOCIAL MEDIA
	सोशल मीडिया
PAPER NO.	VI
COURSE CODE	UAHIN–603
LACTURE	45
CREDITS & MARKS	CREDITS – 4 & MARKS - 80

सोशल मीडिया

इकाई– I

- सोशल मीडिया: अर्थ, स्वरूप और विकास
- सोशल मीडिया का व्यवहार क्षेत्र और महत्व
- सोशल मीडिया: चुनौतियाँ और संभावनाएँ

इकाई– II

- सोशल मीडिया में हिन्दी भाषा एवं देवनागरी लिपि का प्रयोग तथा हिन्दी का बदलता रूप (फ़ेसबुक, व्हाट्सअप, ट्विटर, मैसेन्जर, इन्स्टाग्राम, यूट्यूब)
- सोशल मीडिया: शिक्षा के क्षेत्र में उपादेयता
- सोशल मीडिया: हिन्दी का प्रयोग और रोज़गार की संभावनाएँ

इकाई– III

- सोशल मीडिया के प्रभाव(राजनीतिक,सामाजिक,आर्थिक, धार्मिक और सांस्कृतिक,)
- सोशल मीडिया: बदलता भारतीय परिवेश (बाल, युवाओं, महिलाओं और वृद्धों के संदर्भ में)
- सोशल मीडिया का जीवन मूल्यों पर प्रभाव

इकाई– IV

- सोशल मीडिया और क़ानून
- सोशल मीडिया और मुक्त अभिव्यक्ति तथा दायित्वबोध
- सोशल मीडिया की वैश्विक-व्याप्ति

सूचना: प्रकल्प – 20 अंक

(पाठ्यक्रम से संबंधित किसी भी विषय पर 15 से 20 पृष्ठों का प्रकल्प तैयार करना अपेक्षित है।)

सोशल नेटवर्किंग: नए समय का संवाद – संपादक: संजय द्विवेदी, यश पब्लिकेशन्स, दिल्ली
 नए ज़माने की पत्रकारिता – सौरभ शुक्ला, विस्डम विलेज पब्लिकेशन्स, गुड़गांव एवं दिल्ली
 उत्तरआधुनिक मीडिया तकनीक – हर्षदेव, वाणी प्रकाशन, नई दिल्ली
 नयी संचार प्रौद्योगिकी पत्रकारिता – कृष्ण कुमार रत्तू, हरियाणा ग्रंथ अकादेमी
 कम्प्युटरी सूचना प्रणाली का विकास – राम बंसल,वाणी प्रकाशन, नई दिल्ली
 जनसंचारिकी सिद्धांत और अनुप्रयोग – डॉ.रामलखन मीणा, कल्पना पब्लिशर, दिल्ली
 भारत में जनसंचार और प्रसारण मीडिया – मधुकर लेले, राजकमल प्रकाशन, नई दिल्ली
 जनसंचार सिद्धांत और अनुप्रयोग – विष्णु राजगढ़िया, राधाकृष्ण प्रकाशन, वर्ड दिल्ली
 संचार माध्यम लेखन – गौरीशंकर रैना, वाणी प्रकाशन, नई दिल्ली
 जनसंचार माध्यमों में हिंदी – चंद्रकुमार, क्लासिक पब्लिशिंग कंपनी, नई दिल्ली
 आधुनिक जनसंचार और हिंदी – डॉ. हरिमोहन, तक्षशीला प्रकाशन, नई दिल्ली
 मीडिया समग्र – डॉ. अर्जुन तिवारी, वाणी प्रकाशन, दिल्ली
 सोशल मीडिया के विविध आयाम – सं. डॉ. मोहम्मद फरियाद, स्वराज प्रकाशन, नई दिल्ली
 सोशल मीडिया – योगेश पटेल, पुस्तक महल, नई दिल्ली

Course – IV पूर्णांक : 80

Semester – VI समय : 2:30 घंटे

- सूचना : 1. अंतिम प्रश्न अनिवार्य है।
 - 2. शेष चार प्रश्नों में से किन्हीं तीन के उत्तर लिखिए।
 - 3. सभी प्रश्नों के लिए समान अंक है।

प्रश्न1. सोशल मीडिया के स्वरूप को स्पष्ट करते हुए उसके विकास को समझाइए। 20 अथवा सोशल मीडिया की समस्याएँ, चुनौतियाँ, सीमाएँ और संभावनाएँ पर प्रकाश डालिए।

प्रश्न 2. सोशल मीडिया की शिक्षा के क्षेत्र में उपादेयता और संभावनाएँ स्पष्ट करें। 20 अथवा सोशल मीडिया में हिन्दी का प्रयोग और रोज़गार की संभावनाएँ दर्शाएँ।

प्रश्न 3. सोशल मीडिया का बच्चों एवं युवाओं पर पड़ने वाले प्रभाव की चर्चा कीजिए। 20 अथवा सोशल मीडिया और बदलते जीवन मूल्य को स्पष्ट करें।

प्रश्न 4. सोशल मीडिया में मुक्त अभिव्यक्ति की स्वतंत्रता पर अपने विचार प्रकट कीजिए। 20 अथवा सोशल मीडिया में कानून की भूमिका पर प्रकाश डालिए।

प्रश्न 5. किन्हीं दो विषयों पर टिप्पणियाँ लिखिए।

20

क) सोशल मीडिया का महत्व

ख) एफ.एम.रेडियो और हिन्दी

ग) सोशल मीडिया और राजनीतिक प्रभाव

घ) सोशल मीडिया और वैश्विक परिवर्तन

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) VII
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	V
PAPER NAME	LITERARY CRITICISM : PROSODY & RHETORICS साहित्य समीक्षा : छंद एवं अलंकार
PAPER NO.	VII
COURSE CODE	UAHIN–504
LACTURE	60
CREDITS & MARKS	CREDITS - 4 & MARKS -100

साहित्य समीक्षा : स्वरूप एवं सामान्य परिचय

इकाई– I समीक्षा–

- साहित्य: स्वरूप और परिभाषा (भारतीय एवं पाश्चात्य)
- साहित्य के तत्व
- साहित्य के हेतु
- साहित्य के प्रयोजन (भारतीय एवं पाश्चात्य)

इकाई– II कला–

- स्वरूप और परिभाषा
- कलाओं का वर्गीकरण
- काव्य कला की श्रेष्ठता
- कला और साहित्य का संबंध

इकाई– III काव्य के रूप–

- महाकाव्य: भारतीय एवं पाश्चात्य मान्यताओं का परिचय
- खंडकाव्य: स्वरूप और विशेषताएँ
- मुक्तक काव्य: स्वरूप और विशेषताएँ
- गीतिकाव्य: स्वरूप और विशेषताएँ
- ग़ज़ल : स्वरूप और विशेषताएँ
- इकाई– IV छंद : सामान्य परिचय, लक्षण एवं उदाहरण–
 - मात्रिक छंद:- 1. चौपाई 2. रोला 3. दोहा 4. हरिगीतिका 5. उल्लाला
 6. ताटंक 7. सोरठा 8. कुंडलिया
 - वर्णिक छंद:- 1. इंद्रवज्रा 2. उपेंद्रवज्रा 3. द्रुतविलंबित 4. वंशस्थ
 - 5. भुजंगी 6. तोटक 7. वसंततिलका 8. घनाक्षरी

Semester – V	Course	-VII
अवधि : 03:00 घंटे	पूर्णांक :	100
सूचना : 1. सभी प्रश्न अनिवार्य हैं।		
2. सभी प्रश्नों के लिए समान अंक हैं।		
प्रश्न 1. साहित्य के स्वरूप को स्पष्ट करते हुए उसके तत्वों पर प्रकाश ड	ालिए।	20
अथवा		
साहित्य की परिभाषा देते हुए उसके भारतीय प्रयोजनों को स्पष्ट	कीजिए।	
पश्च २ कला की परिभाषा देते हुए काव्य कला की श्रेष्ठता स्पष्ठ कीजिए	.)	20
अश्वता	1	20
कला और माहित्य के मंत्रंध को ममयाया।		
प्रश्न 3. महाकाव्य संबंधी भारतीय मान्यताओं का परिचय दीजिए।		20
अथवा		
मुक्तक काव्य का स्वरूप स्पष्ट करते हुए उसकी विशेषताओं पर	प्रकाश डार्ग	लेए।
पश्च 4) गेला तथा तोटक छंदों का लक्षण तथा उदाहरण महित मामान्य	परिचय दी	जेए। २०
अथवा		451 20
भजंगी तथा वंशस्थ छंदों का लक्षण तथा उदाहरण सहित सामान	य	
परिचय दीजिए।		
प्रश्न 5. किन्हीं दो विषयों पर टिप्पणियाँ लिखिए।		20
क) साहित्य के हेतु		
ख) कलाओं का वर्गीकरण		
ग) गीतिकाव्य की विशेषताएँ		
घ) घनाक्षरी छंद लक्षण एवं उदाहरण		

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) VII
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	VI
PAPER NAME	LITERARY CRITICISM:PROSODY & RHETORICS, साहित्य समीक्षा : छंद एवं अलंकार
PAPER NO.	VII
COURSE CODE	UAHIN–604
LACTURE	60
CREDITS & MARKS	CREDITS - 4 & MARKS - 100

साहित्य समीक्षा

इकाई– I शब्द शक्ति–

- शब्द शक्ति : अर्थ, परिभाषा और स्वरूप
- शब्द शक्ति के प्रकार : (अभिधा, लक्षणा एवं व्यंजना का सामान्य परिचय)

इकाई– II रस–

- रस : अर्थ, परिभाषा एवं स्वरूप
- रस के अवयव
- रस के भेद : सामान्य परिचय

इकाई– III गद्य के विविध रूप–

- उपन्यास : परिभाषा, स्वरूप एवं प्रमुख तत्व
- कहानी : परिभाषा, स्वरूप एवं प्रमुख तत्व
- रेखाचित्र, संस्मरण, जीवनी और आत्मकथा का तात्विक विवेचन

इकाई– IV अलंकार सामान्य परिचय, लक्षण एवं उदाहरण–

- शब्दालंकार:- 1. अनुप्रास 2. यमक 3. श्लेष 4. वक्रोक्ति
 5. वीप्सा 6. पुनरुक्ति प्रकाश
- अर्थालंकार:- 1. उपमा 2. रूपक 3. अतिशयोक्ति 4. उत्प्रेक्षा
 5. विभावना 6. प्रतीप 7. दीपक 8. संदेह 9. विरोधाभास

- 1. रस सिद्धांत डॉ. नगेंद्र, नेशनल पब्लिकेशन हाऊस, एडिशन
- 2. काव्यशास्त्र भगीरथ मिश्र, विश्वविद्यालय प्रकाशन, वाराणसी
- 3. भारतीय काव्यशास्त्र : नई व्याख्या डॉ.राममूर्ति त्रिपाठी, साहित्य भवन प्रा. लि. इलाहाबाद
- 4. हिंदी साहित्य समीक्षा श्रीमूर्ति सुब्रह्मराय, हिंदी साहित्य सम्मलेन, प्रयाग
- 5. साहित्य समीक्षा रामरतन भटनागर, किताब महल, इलाहाबाद
- 6. साहित्य समीक्षा कालिदास कपूर, इंडियन प्रेस लिमिटेड, प्रयाग
- 7. कला की ज़रूरत राजकमल प्रकाशन–अन्सर्ट फिशर, अनुवाद रमेश उपाध्याय
- 8. हिंदी का गद्य पर्व नामवर सिंह, राजकमल प्रकाशन, दिल्ली
- 9. आलोचना और विचारधारा नामवर सिंह –आशीष त्रिपाठी (संपा.), राजकमल प्रकाशन, दिल्ली
- 10. हिंदी आलोचना का दूसरा पाठ निर्मला जैन, राजकमल प्रकाशन, दिल्ली
- 11. आचार्य रामचंद्र शुक्ल : आलोचना के नए मानदंड –भवदेय पांडेय, राजकमल प्रकाशन,दिल्ली
- 12. हिंदी आलोचना का विकास मधुरेश, राजकमल प्रकाशन, दिल्ली
- 13. सांस्कृतिक आलोचना और हजारीप्रसाद द्विवेदी –सं.रामकिशोर त्रिपाठी, राजकमल प्रकाशन, दिल्ली
- 14. भारतीय काव्यशास्त्र के नये क्षितिज राममूर्ति त्रिपाठी, राजकमल प्रकाशन, दिल्ली।
- 15. हिंदी समीक्षा और आचार्य शुक्ल नामवर सिंह सं.ज्ञानेंनद्र कुमार संतोष, राजकमल प्रकाशन, दिल्ली
- 16. काव्य परिचय राजेंद्र प्रसाद श्रीवास्तव, पुस्तक संस्थान 109/ 50–ए, नेहरूनगर, कानपुर
- 17. काव्यशास्त्र के मानदंड रामनिवास गुप्त, वाणी प्रकाशन, दिल्ली
- 18. भारतीय काव्य विमर्श राममूर्ति त्रिपाठी, वाणी प्रकाशन, दिल्ली
- 19. साहित्यालोचन के सिद्धांत रवींद्र कुमार जैन, नेशनल पब्लिकेशन हाऊस, दिल्ली
- 20. पाश्चात्य काव्यशास्त्र : इतिहास, सिद्धान्त और वाद डॉ. भगीरथ मिश्र, विश्वविद्यालय, प्रकाशन, वाराणसी
- 21. शास्त्रीय समीक्षा के सिद्धांत (द्वितीय भाग) गोविंद त्रिगुणायत, एस चंद एंड कंपनी (प्रा.) लि. रामनगर, नई दिल्ली
- 22. काव्य के तत्व आचार्य देवेंद्रनाथ शर्मा लोकभारती प्रकाशन, इलाहाबाद
- 24. साहित्य विवेचन क्षेमचंद्र 'सुमन', योगेंद्र कुमार मल्लिक, आत्माराम एंड संस, दिल्ली
- 25. साहित्य–विविधा रमेशचंद्र लवानिया अमित प्रकाशन,गाजियाबाद
- 26. हिन्दी ग़ज़ल और ग़ज़लकार –डॉ. मधु खराटे,साहित्य रत्नाकर,कानपुर
- 27. ग़ज़ल का काव्यशास्त्र—डॉ.महेश गुप्ता,साहित्य रत्नाकर,कानपुर

सूचना : 1. सभी प्रश्न अनिवार्य हैं।	
2. सभी प्रश्नों के लिए समान अंक हैं।	
प्रश्न 1. शब्द शक्ति का अर्थ समझाते हुए लक्षणा और व्यंजना शब्दशक्ति का सोदाहरण परिचय दीजिए।	20
्अथवा	
शब्द शक्ति की परिभाषा देते हुए उसके प्रमुख प्रकारो का सोदाहरण परिचय दीजिए।	
प्रश्न 2. रस की परिभाषा देते हुए उसके विभिन्न अवयवों का सोदाहरण परिचय दीजिए। अथवा	20
रस की विभिन्न परिभाषाओं की चर्चा करते हुए करुण एवं शांत रस का सोदाहरण परिचय दीजिए।	
प्रश्न 3. पाश्चात्य मान्यताओं के आधार पर कहानी के तत्त्वों की चर्चा कीजिए। अथवा	20
जीवनी का अर्थ समझाते हुए उसके प्रमुख तत्वों का विवेचन कीजिए।	
प्रश्न 4. अनुप्रास तथा श्लेष अलंकारों के लक्षण स्पष्ट करते हुए उनके उदाहरण लिखिए। अथवा	20
दीपक तथा उत्प्रेक्षा अलंकारों के लक्षणों को समझाते हुए उनके उदाहरण लिखिए।	
प्रश्न 5. किन्हीं दो विषयों पर टिप्पणियाँ लिखिए। क) अभिधा शक्ति और उसका महत्व	20
ख) शृंगार रस	
ग) उपन्यास के तत्व	
घ) उपमा अलंकार लक्षण एवं उदाहरण	

Semester – VI अवधि : 03:00 घंटे Course –VII पूर्णांक : 100

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) VIII
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	V
PAPER NAME	LINGUISTICS: HINDI LANGUAGE
	AND GRAMMAR
	भाषा विज्ञान : हिन्दी भाषा और व्याकरण
PAPER NO.	VIII
COURSE CODE	UAHIN–505
LACTURE	60
CREDITS & MARKS	CREDITS - 4 & MARKS - 100

भाषा विज्ञान : हिन्दी भाषा और व्याकरण

इकाई – I

- भाषा की परिभाषा और उसकी विशेषताएँ
- भाषा के विविध रूप
- भाषा परिवर्तन के प्रमुख कारण

इकाई – II

- भाषा विज्ञान : परिभाषा और उपयोगिता
- भाषा विज्ञान की प्रमुख शाखाओं का सामान्य परिचय (ध्वनि विज्ञान, शब्द विज्ञान, रूप विज्ञान, वाक्य विज्ञान, अर्थ विज्ञान)

इकाई – III

- वर्ण विचार : उच्चारण की दृष्टि से हिन्दी ध्वनियों का वर्गीकरण
- कारक के भेद एवं उसकी विभक्तियाँ
- संज्ञा : रूपांतर के आधार

इकाई – IV

- सर्वनाम : कारक रचना
- विशेषण : रूपांतर के आधार
- क्रिया : रूपांतर के आधार (वाच्य, काल, लिंग, पुरुष और वचन के आधार पर)

Semester – V	Course –VIII
अवधि : 03:00 घंटे	पूर्णांक : 100
सूचना : 1. सभी प्रश्न अनिवार्य हैं।	
2. सभी प्रश्नों के लिए समान अंक हैं।	
प्रश्न 1. भाषा के विविध रूपों की चर्चा कीजिए।	20
अथवा	
भाषा परिवर्तन के प्रमुख कारणों की चर्चा कीजिए।	
प्रश्न 2. भाषा विज्ञान की परिभाषा देते हुए उसकी उपयोगिता पर प्रकाश	डालिए। 20
अथवा	
भाषा विज्ञान की प्रमुख शाखाओं का सामान्य परिचय दीजिए।	
प्रश्न 3. उच्चारण की दृष्टि से हिन्दी स्वर ध्वनियों के वर्गीकरण को सोदा	हरण समझाइए। 20
अथवा	
कारक के भेदों पर प्रकाश डालते हुए उसकी विभक्तियों को सोद	ाहरण लिखिए।
Š	
प्रश्न 4. सर्वनामों की कारक रचना को सोदाहरण स्पष्ट कीजिए।	20
अथवा	
क्रिया में होनेवाले रूपांतर को स्पष्ट कीजिए।	
प्रश्न 5. निम्न में से किन्हीं दो विषयों पर टिप्पणियाँ लिखिए।	20
क) परिनिष्ठित भाषा	
ख) ध्वनि विज्ञान	
ग) उच्चारण स्थान के आधार पर व्यंजनों का वर्गीकरण	
घ) वचन के आधार पर संज्ञा शब्दों में रूपांतर	

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) VIII
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	VI
PAPER NAME	LINGUISTICS : HINDI LANGUAGE
	AND GRAMMAR
	भाषा विज्ञान : हिन्दी भाषा और व्याकरण
PAPER NO.	VIII
COURSE CODE	UAHIN–605
LACTURE	60
CREDITS & MARKS	CREDITS - 4 & MARKS - 100

भाषा विज्ञान : हिन्दी भाषा और व्याकरण

इकाई – I

- प्राचीन एवं मध्यकालीन भारतीय आर्य भाषाओं का सामान्य परिचय –
 क) वैदिक संस्कृत, ख) लौकिक संस्कृत, ग) पालि, घ) प्राकृत, ङ) अपभ्रंश
- आधुनिक भारतीय आर्य भाषाओं का सामान्य परिचय–
 क) सिन्धी, ख) मराठी, ग) पंजाबी, घ) गुजराती, ङ) बांग्ला

इकाई – II

- हिन्दी भाषा की उत्पत्ति और विकास
- हिन्दी की प्रमुख बोलियों का सामान्य परिचय –
 क) ब्रजभाषा, ख) अवधी, ग) भोजपुरी, घ) खड़ी बोली
- खड़ी बोली हिन्दी के विविध रूप क) हिन्दी, ख) हिंदुस्तानी, ग) उर्दू , घ) दक्खिनी

इकाई – III

- हिन्दी का शब्द समूह
- देवनागरी लिपि : विशेषताएँ एवं महत्व
- संधि : अर्थ, स्वरूप तथा प्रमुख भेदों का सामान्य परिचय

इकाई – IV

- वाक्य रचना
 - क) वाक्य की परिभाषा, अर्थ और रचना की दृष्टि से वाक्य के प्रकार ख) हिन्दी वाक्य रचना में अध्याहार और पदक्रम संबंधी सामान्य नियम
- समास : अर्थ, स्वरूप तथा प्रमुख भेदों का सामान्य परिचय

- 1. भाषा विज्ञान डॉ. भोलानाथ तिवारी, किताब महल, इलाहाबाद
- 2. हिन्दी भाषा और लिपि डॉ. धीरेन्द्र वर्मा, हिंदुस्तानी एकेडेमी, प्रयाग
- 3. भाषा विज्ञान एवं भाषाशास्त्र डॉ. कपिलदेव द्विवेदी, विश्वविद्यालय प्रकाशन, वाराणसी
- 4. हिन्दी भाषा का इतिहास डॉ. भोलानाथ तिवारी, वाणी प्रकाशन, दिल्ली
- 5. भाषा विज्ञान की भूमिका देवेन्द्रनाथ शर्मा, दीप्ति शर्मा, राधाकृष्ण प्रकाशन, दिल्ली
- 6. व्यावहारिक हिन्दी व्याकरण श्यामचन्द्र कपूर, प्रभात प्रकाशन, दिल्ली
- 7. व्यावहारिक हिन्दी व्याकरण एवं रचना डॉ. संतोष चौधरी, कनक सक्सेना, आस्था प्रकाशन, जयपुर
- 8. मानक हिन्दी व्याकरण और रचना डॉ. हरिवंश तरुण, प्रकाशन संस्थान, नई दिल्ली
- 9. हिन्दी व्याकरण पं. कामता प्रसाद गुरु, नागरीप्रचारिणी सभा, काशी
- 10. आधुनिक भाषा विज्ञान के सिद्धान्त डॉ. राम किशोर शर्मा, लोकभारती प्रकाशन, नई दिल्ली
- 11. हिन्दी व्याकरण और रचना वासुदेवनंदन प्रसाद, भारती भवन पब्लिशर्स एंड डिस्ट्रीब्यूटर्स, नई दिल्ली
- 12. हिन्दी शब्दानुशासन आचार्य किशोरीदास वाजपेयी, नागरीप्रचारिणी सभा, वाराणसी
- 13. आधुनिक भाषा विज्ञान डॉ. राजमणि शर्मा, वाणी प्रकाशन, दिल्ली
- 14. हिन्दी भाषा इतिहास और संरचना डॉ. हरिश्चंद्र पाठक, तक्षशीला प्रकाशन, नई दिल्ली
- 15. मानक हिन्दी व्याकरण डॉ. पृथ्वीनाथ पाण्डेय, जयभारती प्रकाशन, इलाहाबाद
- 16. सामान्य भाषा विज्ञान डॉ. बाबूराम सक्सेना, हिन्दी साहित्य सम्मेलन, प्रयाग
- 17.हिन्दी संज्ञा सरंचना और कुछ नियम– डॉ. प्रीति सोहनी,साहित्य रत्नाकर,कानपुर
- 18.भारतीय साहित्य सिद्धान्त– डॉ. तारकनाथ बाली,किताब प्रकाशन,नई दिल्ली

Semester – VI	Course –VIII
अवधि : 03:00 घंटे	पूर्णांक : 100
सूचना : 1. सभी प्रश्न अनिवार्य हैं।	-
2. सभी प्रश्नों के लिए समान अंक हैं।	
पश्च 1) मध्यकालीन आर्य भाषाओं का मामान्य परिचय दीजिए ।	20
	20
અવવા	
आधुनिक भारतीय आये भाषाओं का सामान्य परिचय दीजि	ए ।
प्रश्न 2. हिन्दी की प्रमुख बोलियों का सामान्य परिचय दीजिए।	20
ु अथवा	
खड़ी बोली हिन्दी के प्रमुख रूपों की चर्चा कीजिए।	
प्रश्न 3. हिन्दी के शब्द समूह पर प्रकाश डालिए।	20
अथवा	
देवनागरी लिपि की विशेषताएँ लिखिए।	
प्रश्न 4. वाक्य की परिभाषा देते हुए अर्थ और रचना की दृष्टि से वाक	यों के प्रकार लिखिए। 20
अथवा	
समास का स्वरूप स्पष्ट करते हुए उसके प्रमुख भेदों का साम	ान्य परिचय दीजिए।
प्रश्न 5. निम्न मे से किन्हीं दो विषयो पर टिप्पणियाँ लिखिए।	20
क) लौकिक संस्कृत	
ख) ब्रजभाषा	
ग) अध्याहार	
घ) देवनागरी लिपि का महत्व	

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SEMESTER	V
PAPER NAME	IDEOLOGICAL BACKGROUND OF
	MODERN HINDI LITERATURE
	आधुनिक हिन्दी साहित्य की वैचारिक पृष्ठभूमि
PAPER NO.	IX
COURSE CODE	UAHIN–606
LACTURE	45
CREDITS & MARKS	CREDITS - 4 & MARKS - 80

आधुनिक हिंदी साहित्य की वैचारिक पृष्ठभूमि

इकाई– I	 भारतीय नवजागरण आंदोलन और हिंदी साहित्य पर उसका प्रभाव
	(सामाजिक दृष्टि से होने वाले वैचारिक एवं व्यावहारिक बदलाव के विशेष संदर्भ में)

- भारतीय नवजागरण आंदोलन (ब्रह्म समाज, प्रार्थना समाज, रामकृष्ण मिशन, थियोसोफ़िकल सोसाइटी, सत्यशोधक समाज का सामान्य परिचय एवं मान्यताएँ)
- आर्य समाज के सामाजिक-दार्शनिक सिद्धांतों का हिंदी कविता एवं उपन्यास पर प्रभाव

इकाई– II

- गांधीवाद : सामान्य परिचय एवं प्रमुख सिद्धान्त
- गांधीवादी चिंतन का हिंदी कविता पर प्रभाव
- गांधीवादी चिंतन का हिंदी कथा साहित्य पर प्रभाव
- इकाई– III
- मार्क्सवाद : सामान्य परिचय एवं प्रमुख सिद्धान्त
- मार्क्सवाद : हिंदी कविता और हिंदी कथा साहित्य पर प्रभाव
- मनोविश्लेषणवाद और हिन्दी कथा साहित्य
- इकाई– IV
- राष्ट्रीय चेतना के विकास में हिंदी पत्र–पत्रिकाओं का योगदान (कविवचन सुधा, हरिश्चंद्र चन्द्रिका, भारतमित्र, आनंद कादंबिनी, सरस्वती, प्रभा,चांद, माधुरी और मतवाला के विशेष संदर्भ में)
- सूचना: प्रकल्प 20 अंक

(पाठ्यक्रम से संबंधित किसी भी विषय पर 15 से 20 पृष्ठों का प्रकल्प तैयार करना अपेक्षित है।)

Semester – V	Course – IX
अवधि : 02:30 घंटे	पूर्णांक : 80
सूचना : 1. अंतिम प्रश्न अनिवार्य हैं।	
2. शेष 4 प्रश्नों में से किन्हीं 3 प्रश्नों के उत्तर लिखें।	
3. सभी प्रश्नों के लिए समान अंक हैं।	
प्रश्न 1. ब्रह्म समाज तथा प्रार्थना समाज का सामान्य परिचय देते हुए उनकी म	ान्यताओं पर
प्रकाश डालिए।	20
आय समाज क सामाजिक एव दाशानक सिद्धान्त का हिन्दा कावता प को रेखांकित कीजिए।	ાર હું પ્રમાવ
प्रश्न 2. गांधीवादी चिंतन के हिन्दी कविता पर हुए प्रभाव को सोदाहरण समझ	ाइए। 20
ਅਖਕ। ਸਾਂਦੀ ਸ ਹੈ ਦਿੱਤਰ ਦੀ ਉਹ ਹੈ ਤਸ ਸਾਸ ਨੇ ਦਿਤਾ ਸਤਰਾ ਨਾਇਤ ਤਰੀ ਭੈ	
गांधावादी चितन का हिन्दी उपन्यास में किस प्रकार आमव्याक्त हुइ ह	? चचा का।जए।
प्रश्न 3. मार्क्सवाद के हिन्दी कविता पर हुए प्रभाव को सोदाहरण लिखिए।	20
अथवा	
मनोविश्लेषणवाद से प्रभावित हिन्दी कथा साहित्य पर प्रकाश डालिए	1
प्रश्न 4. राष्ट्रीय चेतना के विकास में 'सरस्वती' और 'मतवाला' पत्रिकाओं वे रेखांकित कीजिए।	ह योगदान को 20
अथवा	
'हरिश्चंद्र चन्द्रिका' और 'चाँद' पत्रिकाओं ने राष्ट्रीय चेतना के विकास	र में अपना
महत्त्वपूर्ण योगदान दिया हैं, स्पष्ट कीजिए।	
प्रश्न 5. किन्हीं दो विषयों पर टिप्पणियाँ लिखिए।	20
क) सत्यशोधक समाज	
ख) गांधीवादी चिंतन का स्वरूप	
ग) मार्क्सवाद का स्वरूप	
घ) प्रभा पत्रिका	

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आधुनिक हिंदी साहित्य की वैचारिक पृष्ठभूमि

इकाई– I

- स्त्री विमर्श : स्वरूप एवं मान्यताएं
- स्त्री चेतना का हिंदी कविता पर प्रभाव
- स्त्री चेतना का हिन्दी कथा साहित्य पर प्रभाव
- इकाई– II
- दलित विमर्श : स्वरूप एवं मान्यताएं
- दलित चेतना का हिंदी कविता पर प्रभाव
- दलित चेतना का हिन्दी कथा साहित्य पर प्रभाव

इकाई– III

- आदिवासी विमर्श : हिन्दी कविता एवं कथा-साहित्य पर प्रभाव
- पर्यावरण विमर्श : हिन्दी कविता पर प्रभाव
- किन्नर विमर्श और हिन्दी कथा साहित्य

इकाई– IV

 स्वातंत्र्योत्तर जन चेतना और हिन्दी पत्र-पत्रिकाएँ (नवभारत, नईदुनिया, साप्ताहिक हिन्दुस्तान, इंडियाटुडे, हंस,सारिका, दिनमान, साहित्य कुंज (ई-पत्रिका), समालोचन (ई-पत्रिका) के विशेष संदर्भ में)

सूचना: प्रकल्प – 20 अंक

(पाठ्यक्रम से संबंधित किसी भी विषय पर 15 से 20 पृष्ठों का प्रकल्प तैयार करना अपेक्षित है।)

1. सृजन का अंतर्पाठ उत्तर आधुनिक विमर्श – कृष्णदत्त पालीवाल, सामायिक प्रकाशन, नई दिल्ली 2. अम्बेडकर संचयन (२खंड) संकलन \सम्पादन रामजी यादव – सामायिक प्रकाशन, नई दिल्ली 3. ज्योतिबा फुले संचयन संकलन\सम्पादन रामजी यादव – सामायिक प्रकाशन, नई दिल्ली 4. आदिवासी लेखन : एक उभरती चेतना, रमणिका गुप्ता – सामायिक प्रकाशन, नई दिल्ली 5. आदिवासी समाज और साहित्य – रमणिका गुप्ता, सामायिक प्रकाशन, नई दिल्ली 6. हिंदी दलित साहित्य : एक मूल्यांकन – प्रमोद कोवप्रत, वाणी प्रकाशन, नई दिल्ली 7. दलित दर्शन की वैचारिकी – बी. आर. विप्लवी, वाणी प्रकाशन, नई दिल्ली 8. समकालीन आलोचना विमर्श – अवधेश सिंह, वाणी प्रकाशन, नई दिल्ली 9. मार्क्सवाद और साहित्य – शिवकुमार मिश्र, वाणी प्रकाशन, नई दिल्ली 10. मार्क्सवादी साहित्य चिंतन – शिवकुमार मिश्र, वाणी प्रकाशन, नई दिल्ली 11. समकालीन हिंदी साहित्य : विविध विमर्श – प्रो. श्रीराम शर्मा, वाणी प्रकाशन, नई दिल्ली 12. सत्य के साथ मेरे प्रयोग – महात्मा गाँधी, प्रकाशन नई दिल्ली 13. गाँधी जी की देन – डॉ. राजेंद्र प्रसाद, प्रभात प्रकाशन नई दिल्ली 14. महिला सशक्तिकरण : दशा और दिशा – योगेंद्र शर्मा, राजकमल प्रकाशन, नई दिल्ली 15. स्त्री अलक्षित – श्रीकांत यादव, राजकमल प्रकाशन समूह, नई दिल्ली 16. नारी चेतना के आयाम – अलका प्रसाद, राजकमल प्रकाशन समूह, नई दिल्ली 17. स्वाधीनता का स्त्री पक्ष – अनामिका, राजकमल प्रकाशन समूह, नई दिल्ली 18. स्त्री चिंतन की चुनौतियाँ – रेखा कस्तवार, राजकमल प्रकाशन समूह, नई दिल्ली 19. आधुनिक हिंदी कथा साहित्य और मनोविज्ञान – डॉ. देवराज उपाध्याय 20. प्रगतिवादी समीक्षक और डॉ. रामविलस शर्मा – डॉ. मोहसिन ख़ान, लेखनी प्रकाशन, दिल्ली 23. थर्ड जेंडर विमर्श – शरद सिंह (संपा), विकास प्रकाशन, कानपुर 24. थर्ड जेंडर : कथा आलोचना – डॉ. फ़ीरोज़ (संपा.), विकास प्रकाशन, कानपुर 25. किन्नर विमर्श : दशा और दिशा – डॉ. विनय कुमार पाठक विकास प्रकाशन, कानपुर 26. भारतीय समाज में किन्नरों का यथार्थ – आशीष कुमार (संपा.), विकास प्रकाशन, कानपुर 27. किन्नर विमर्श : साहित्य के आईने में – डॉ. इक़रार अहमद, विकास प्रकाशन, कानपुर 28. थर्ड जेंडर : अतीत और वर्तमान – डॉ. फ़ीरोज़ (संपा.), विकास प्रकाशन, कानपुर 29. थर्ड जेंडर और साहित्य – डॉ. फ़ीरोज़ (संपा.), विकास प्रकाशन, कानपुर 30. सिनेमा की निगाह में थर्ड जेंडर – डॉ. फ़ीरोज़ (संपा.), विकास प्रकाशन, कानपुर 31.सत्य के प्रयोग –मोहनदास करमचंद गांधी, प्रकाशन संस्थान,नई दिल्ली 32. गांधी की भूमि से – राजकिशोर, प्रकाशन संस्थान,नई दिल्ली 33. आदिवासी संगर्ष गाथा –विनोद कुमार, प्रकाशन संस्थान,नई दिल्ली 34. स्त्रीवादी विमर्श-क्षमा शर्मा,राजकमल प्रकाशन,दिल्ली 35. गांधीवाद और हिन्दी काव्य – भक्त राम शर्मा,किताबघर प्रकाशन, नई दिल्ली

- 36.आदिवासी केन्द्रित हिन्दी साहित्य– डॉ. उषा किर्ती राणावत,शैलजा प्रकाशन,कानपुर
- 37. समकालीन हिन्दी साहित्य में पर्यावरण विमर्श—डॉ. सुमेश,अमन प्रकाशन,कानपुर
- 38. हिन्दी साहित्य में आदिवासी विमर्श—डॉ. पं. बन्ने,अमन प्रकाशन,कानपुर
- 39. भारतीय साहित्य में पर्यावरण संरक्षण–डॉ. सुमन सिंह,रोशनी पब्लिकेशन,कानपुर
- 40. आधुनिक हिन्दी साहित्य की वैचारिक पृष्टभूमि–सं. प्रवीण चंद्र बिस्ट
- 41. दलित साहित्य की दशा –दिशा–कार्तिक चौधरी,अप्रअधिकरण प्रकाशन,दिल्ली
- 42. बीसवीं सदी की अंतिम द्विदशक की हिंदी कहानी में दलित जीवन -डॉ. गौतम सोनकांबळे, साहित्य संस्थान,दिल्ली
- 43. ऊर्जा संकट और हमारा भविष्य–गुणाकर मुले, राजकमल प्रकाशन, दिल्ली
- 44. पर्यावरण शिक्षा– सुधा सिंह,राजकमल प्रकाशन, दिल्ली
- 45. वायुमंडलीय प्रदूषण–हरिनारायण श्रीवास्तव,राजकमल प्रकाशन, दिल्ली
- 46. लोक आस्था और पर्यावरण–पंकज चतुर्वेदी,परिकल्पना प्रकाशन, दिल्ली
- 47. स्त्री अस्मिता और समकालीन साहित्य-डॉ. अनिल सिंह,न्यूमैन,पब्लिकेन,परभणी
- 48. हिन्दी साहित्य में आदिवासी एवं स्त्री विमर्श डॉ.सविता चौधरी,साहित्य रत्नाकर,कानपुर
- 49. हिन्दी साहित्य में नारी अस्मिता के विविध रूप –डॉ. सुमन सिंह, साहित्य रत्नाकर,कानपुर
- 50. हिन्दी दलित कहानी : विविध आयाम–डॉ. नारायण,साहित्य रत्नाकर,कानपुर

Semester – VI	Course – IX
अवधि : 02:30 घंटे	पूर्णांक : 80
सूचना : 1. अंतिम प्रश्न अनिवार्य हैं।	
2. शेष 4 प्रश्नों में से किन्हीं 3 प्रश्नों के उत्तर लिखें।	
3. सभी प्रश्नों के लिए समान अंक हैं।	
प्रश्न 1. स्त्री चेतना ने हिन्दी कथा साहित्य को किस प्रकार प्रभावित किया है, स्प	ষ্
कीजिए।	20
अथवा	
स्त्री चेतना से हिन्दी कविता किस प्रकार प्रभावित हुई है, स्पष्ट कीजिए।	
	•
प्रश्न 2. दालत चतना के हिन्दी कविता पर हुए प्रभाव का सादाहरण समझाइए।	20
अथवा	
दालत चतना क हिन्दा कथा साहित्य 'पर हुए प्रभाव का दशाइए।	
एश 3 समकालीन हिन्दी उपन्यामों में आदिवामी विमर्श की अधिव्यक्ति किस	प्रकार हर्द है
म्पष्ठ कीजिम।	297 gy 0, 20
েন্দ্র ন্যালন্। মগ্রমা	20
्यपत्रा गणकालीन किन्म केन्टित कथा गाहिला में किन्म जीवन पर एकाश द	गन्निम
समयग्रेशान विग्नर पगन्त्रत प्रत्या साहित्य में विग्नर-जायन पर प्रयगरा उ	neigi
प्रश्न 4. 'हंस' में स्वातंत्र्योत्तर जन-चेतना को किस प्रकार वाणी मिली है. स्पष्ट व	नेजिए। 20
अथवा	
'समालोचन' (ई-पत्रिका) तथा 'साहित्य कंज'(ई-पत्रिका) ने स्वातंत्र्योत्त	र जन-चेतना
को अभिव्यक्त करने में अपनी महत्त्वपर्ण भमिका निभाई है. स्पष्ट कीजिए	ĺ
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प्रश्न 5. किन्हीं दो विषयों पर टिप्पणियाँ लिखिए।	20
क) स्त्री विमर्श के संदर्भ	
ख) दलित चेतना का स्वरूप	
ग) पर्यावरण विमर्श और हिन्दी कविता	
घ) नवभारत	
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NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) IX
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	V
PAPER NAME	MASS MEDIA, संचार माध्यम
PAPER NO.	IX
COURSE CODE	UAHIN–506
LACTURE	45
CREDITS & MARKS	CREDITS - 4 & MARKS - 80

संचार माध्यम

इकाई– I जनसंचार माध्यम–

- जनसंचार : अर्थ, परिभाषा, अवधारणा एवं स्वरूप
- जनसंचार : तत्त्व एवं विशेषताएँ
- जनसंचार : प्रक्रिया, उपयोगिता, महत्व एवं बदलता स्वरूप

इकाई– II मुद्रण कला सामान्य परिचय–

- मुद्रण कला का अर्थ एवं स्वरूप एवं विशेषताएँ
- मुद्रण कला का इतिहास एवं विकास
- प्रूफ़ शोधन : अर्थ, स्वरूप, प्रूफ़ शोधक के गुण एवं कर्तव्य

इकाई– III इलेक्ट्रॉनिक दृश्य, श्रव्य जनसंचार माध्यम-

- रेडियो : अवधारणा, विकास, कार्यक्रम एवं उद्घोषक के गुण–कर्तव्य
- सिनेमा : स्वरूप, विकास एवं पटकथा लेखन
- टेलीविज़न : स्वरूप, विकास एवं धारावाहिक लेखन

इकाई– IV अत्याधुनिक जनसंचार माध्यम : उपयोग एवं दिशाएँ–

- वेब पत्रकारिता अवधारणा एवं विशेषताएँ
- वेब पत्रकारिता तकनीक, उपयोगिता एवं भविष्य
- प्रमुख वेब संस्करण : समाचार पत्र, पत्रिकाएँ, रेडियो एवं समाचार चैनल

सूचना: प्रकल्प – 20 अंक

(पाठ्यक्रम से संबंधित किसी भी विषय पर 15 से 20 पृष्ठों का प्रकल्प तैयार करना अपेक्षित है।)

Semester – VI	Course – IX
अवधि : 02:30 घंटे	पूर्णांक : 80
सूचना : 1. अंतिम प्रश्न अनिवार्य हैं। 2. शेष 4 प्रश्नों में से किन्हीं 3 प्रश्नों के उत्तर लिखें। 3. सभी प्रश्नों के लिए समान अंक हैं।	
प्रश्न 1. जनसंचार की अवधारणा एवं स्वरूप पर प्रकाश डालिए।	20
अथवा	
जनसंचार की प्रक्रिया को स्पष्ट कीजिए।	
प्रश्न 2.मुद्रण कला का अर्थ एवं स्वरूप एवं विशेषताएँ स्पष्ट करें। अथवा प्रूफ़ शोधक के गुण एवं कर्तव्य स्पष्ट करें।	20
प्रश्न 3. सिनेमा का स्वरूप और विकास दर्शाएँ। अथवा	20
रेडियो उद्घोषक के गुण–कर्तव्य स्पष्ट करें।	
प्रश्न 4. वेब पत्रकारिता अवधारणा एवं विशेषताएँ लिखिए। अथवा	20
वेब पत्रकारिता तकनीक, उपयोगिता दर्शाइए।	
प्रश्न 5. किन्हीं दो विषयों पर टिप्पणियाँ लिखिए। क) जनसंचार के तत्त्व ख) मुद्रण कला की विशेषताएँ ग) धारावाहिक लेखन घ) वेब संस्करण समाचार पत्र	20

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) IX
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	VI
PAPER NAME	MASS MEDIA, संचार माध्यम
PAPER NO.	IX
COURSE CODE	UAHIN–606
LACTURE	45
CREDITS & MARKS	CREDITS - 4 & MARKS - 80

संचार माध्यम

इकाई– I जनसम्पर्क–

- जनसम्पर्क : अर्थ, परिभाषा, उद्देश्य और महत्व
- जनसम्पर्क : उद्भव, विकास, क्षेत्र एवं साधन
- जनसम्पर्क : संभावनाएँ और चुनौतियाँ

इकाई– II विज्ञापन–

- विज्ञापन : अर्थ परिभाषा, स्वरूप, महत्व और विशेषताएँ
- विज्ञापन : उद्देश्य, प्रकार और सामाजिक उपयोगिता
- विज्ञापन : उपभोक्ता, एजेंसियाँ, नैतिकता और क़ानून

इकाई– III) वृत्तचित्र और लघुफ़िल्म–

- वृत्तचित्र : अर्थ एवं स्वरूप, सामान्य परिचय, महत्व एवं उपयोगिता
- लघुफ़िल्म : अर्थ एवं स्वरूप, सामान्य परिचय, महत्व एवं उपयोगिता
- वृत्तचित्र एवं लघुफ़िल्म के उद्देश्य और प्रकार
- इकाई– IV मीडिया : सरोकार एवं अंतर्संबंध–
 - मीडिया : सामाजिक मुद्दे और समस्याएँ
 - मीडिया : उत्तरदायित्व और राष्ट्रीय विकास
 - मीडिया : आचार संहिता और बाज़ारवाद

सूचना: प्रकल्प – 20 अंक

(पाठ्यक्रम से संबंधित किसी भी विषय पर 15 से 20 पृष्ठों का प्रकल्प तैयार करना अपेक्षित है।)

- 1. सूचना प्रौद्योगिकी और समाचार पत्र रवीन्द्र शुक्ल, राधाकृष्ण प्रकाशन, नई दिल्ली
- 2. सूचना प्रौद्योगिकी और जन-माध्यम प्रो. हरिमोहन, तक्षशिला प्रकाशन, नई दिल्ली
- सोशल मीडिया में साहित्य का बदलता स्वरूप –आरती सिंह, डॉ. विभा ठाकुर (सं.), स्वराज प्रकाशन, नई दिल्ली
- 4. मीडिया लेखन सुमित मोहन, वाणी प्रकाशन, नई दिल्ली
- 5. मीडिया लेखन कला निशांत सिंह, ओमेगा पब्लिकेशन, नई दिल्ली
- 6. आधुनिक जन-संचार और हिन्दी प्रो. हरिमोहन, तक्षशिला प्रकाशन, नई दिल्ली
- 7. मीडिया और हिन्दी भाषा का स्वरूप डॉ. मनीष गोहिल, साधना प्रकाशन, कानपुर
- मीडिया कालीन हिन्दी स्वरूप एवं संभावनाएँ डॉ. अर्जुन चव्हाण, राधाकृष्ण प्रकाशन, नई दिल्ली
- 9. कंप्यूटर और हिन्दी प्रो. हरिमोहन, तक्षशीला प्रकाशन, नई दिल्ली
- 10. दूरसंचार और सूचना प्रौद्योगिकी डी. डी. ओझा, सत्यप्रकाश, ज्ञान गंगा प्रकाशन, दिल्ली
- 11. जनसंचार का समाजशास्त्र लक्ष्मेंद्र चोपड़ा, आधार प्रकाशन, पंचकुला
- 12. जनसंचार एवं समाज डॉ. मोनिका नागोरी, अंकुर प्रकाशन, उदयपुर
- 13. संचार से जनसंचार और जनसम्पर्क तक बलवीर कुंदरा, के. के. पब्लिकेशन, नई दिल्ली
- 14. इलेक्ट्रॉनिक मीडिया एवं सायबर पत्रकारिता राकेश कुमार, श्री. नटराज प्रकाशन, दिल्ली
- 15. नए जनसंचार माध्यम और हिन्दी सं. सुधीश पचौरी, अचला शर्मा, राजकमल प्रकाशन, नई दिल्ली
- 16. समकालीन भारत एवं जनसंचार माध्यम डॉ. सुधीर सोनी, युनिवर्सिटी पब्लिकेशन, जयपुर
- 17. जनसंचार माध्यम भाषा और साहित्य सुधीश पचौरी, श्री. नटराज प्रकाशन, नई दिल्ली
- 18. इंटरनेट पत्रकारिता सुदेश कुमार, तक्षशीला प्रकाशन, नई दिल्ली
- 19. इलेक्ट्रॉनिक मीडिया लेखन डॉ. हरीश अरोड़ा, के. के. पब्लिकेशन, नई दिल्ली
- 20. मीडिया और साहित्य डॉ. योगेंद्र प्रताप सिंह, साहित्य रत्नाकर, कानपुर
- 21. मीडिया के बदलते तेवर अनामीशरण बबल, नटराज प्रकाशन, दिल्ली
- 22. वेब पत्रकारिता श्याम माथुर, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर
- 23. जनसंचार माध्यमों में हिन्दी चन्द्र कुमार, क्लासिकल पब्लिशिंग कंपनी, नई दिल्ली
- 24. इलेक्ट्रॉनिक मीडिया डॉ. सुधीर सोनी, युनिवर्सिटी पब्लिकेशन, जयपुर
- 25. विकास संचार एवं नयी सूचना प्रौद्योगिकी डॉ. सुधीर सोनी, युनिवर्सिटी पब्लिकेशन, जयपुर
- 26.रेडियो और दूरदर्शन पत्रकारिता डॉ. हरिमोहन, तक्षशीला प्रकाशन, दरियागंज, नई दिल्ली
- 27.हिन्दी ब्लॉगिंग स्वरूप,व्याप्ति और संभावनाएं–सं. डॉ.मनीष कुमार,युवा साहित्य चेतना मण्डल, नई दिल्ली
- 28.भूमंडलीकरण के परिप्रेक्ष्य में साहित्य,सम्माज,संस्कृति और भाषा–सं.डॉ. प्रदीपकुमार सिंह
- 29.वेब पत्रकारिता– सं.हंसराज सुमन, नटराज प्रकाशन, दिल्ली
- 30.जनसंचार,जनसम्पर्क एवं विज्ञापन—डॉ. सुजाता वर्मा,साहित्य रत्नाकर,कानपुर

अवधि : 02:30 घंटे पूर्णांक : 80 सूचना : 1. अंतिम प्रश्न अनिवार्य हैं। 2. शेष 4 प्रश्नों में से किन्हीं 3 प्रश्नों के उत्तर लिखें। 3. सभी प्रश्नों के लिए समान अंक हैं।	
सूचना : 1. अंतिम प्रश्न अनिवार्य हैं। 2. शेष 4 प्रश्नों में से किन्हीं 3 प्रश्नों के उत्तर लिखें। 3. सभी प्रश्नों के लिए समान अंक हैं।	
प्रश्न 1. जनसम्पर्क का अर्थ, परिभाषा और महत्व दर्शाइए। 2	.0
अथवा	
जनसम्पर्क की संभावनाएँ और चुनौतियों को समझाइए।	
प्रश्न 2. विज्ञापन की परिभाषा एवं स्वरूप पर प्रकाश डालिए। 2 अथवा विज्ञापन और क़ानून का सामान्य परिचय दीजिए।	0
प्रश्न 3. वृत्तचित्र का अर्थ स्पष्ट करते हुए उसके स्वरूप पर प्रकाश डालिए। 2 अथवा लघु फ़िल्मों की उपयोगिता एवं महत्त्व पर प्रकाश डालिए	0
प्रश्न 4. मीडिया और सामाजिक समस्याओं पर प्रकाश डालिए। 2 अथवा गीदिया के उत्तरवायित्व और प्राप्तीय विकास के विषय में साथ कीनिया।	0
माडिया फ उत्तरदायित्य आर राष्ट्राय विफास फ विषय म स्पष्ट फाणिए। प्रश्न 5. किन्हीं दो विषयों पर टिप्पणियाँ लिखिए। 2 क) जनसम्पर्क के साधन	0
ख) विज्ञापन की सामाजिक उपयोगिता ग) वृत्तचित्र के प्रकार घ) लघुफ़िल्म का उद्देश्य 	