LOKNETE DR. BALASAHEB VIKHE PATIL (PADMA BHUSHAN AWARDEE) PRAVARA RURAL EDUCATION SOCIETYS ARTS, COMMERCE AND SCIENCE COLLEGE SATRAL TAL-RAHURI, DIST.-AHMEDNAGAR, MAHARASHTRA

According to Savitribai Phule Pune University, Pune

- Program Outcomes
- Program Specific Outcomes
- Course Outcomes

DEPARTMENT OF CHEMISTRY

B.Sc. Chemistry	After successful completion of three year degree program in Chemistry a
	student should be able to;
Programme	PO-1. Demonstrate, solve and an understanding of major concepts in all
Outcomes	disciplines of chemistry.
	PO-2. Solve the problem and also think methodically, independently and draw a logical conclusion.
	PO-3. Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions.
	PO-4. Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community.
	PO-5. Find out the green route for chemical reaction for sustainable development.
	PO-6. To inculcate the scientific temperament in the students and outside the scientific community.
	PO-7. Use modern techniques, decent equipment's and Chemistry softwares
Programme	PSO-1. Gain the knowledge of Chemistry through theory and practicals.
Specific Outcomes	PSO-2. To explain nomenclature, stereochemistry, structures, reactivity,
	and mechanism of the chemical reactions.
	PSO-3. Identify chemical formulae and solve numerical problems.
	PSO-4. Use modern chemical tools, Models, Chem-draw, Charts and Equipments.
	PSO-6. Understand good laboratory practices and safety.
	PSO-7. Develop research oriented skills.
	PSO-8. make aware and handle the sophisticated instruments/equipments and chemicals

Course	Course Outcomes F.Y. B. Sc. Chemistry
	Semester-I
CH-101	CO-1. Students will be able to apply thermodynamic principles to physical
Physical Chemistry	and chemical process
	CO-2. Understand the relation between Free energy and equilibrium and
	factors affecting on equilibrium constant and exergonic and
	endergonic reaction.
	CO-3. Understand the Concept to ionization process occurred in acids, bases
	and pH scale and related concepts such as Common ion effect
	hydrolysis constant, ionic product, solubility product
	CO-4. Degree of hydrolysis and pH for different salts, buffer solutions
CH-102	CO-1.The students are expected to understand the fundamentals, principles,
Organic Chemistry	and recent developments in the subject area
	CO-2. To develop awareness of organic chemistry in day to day life.
	CO-3. To understand basic fundamental aspects of pharmaceutical and
	medicinal chemistry
	CO-4. To familiarize with current and recent developments in Chemistry.
	Semester-II
CH-201	CO-1. Understand the various theories and principles applied to revel atomic
Inorganic Chemistry	
	structure of hydrogen atom
	CO-2. Understand the rules for filling electrons in various orbitals- Aufbau's
	principle, Pauli exclusion principle, Hund's rule of maximum
	multiplicity.
	CO-3. To understand and describe Block, group, modern periodic law and periodicity.
	CO-4. Write name, symbol, electronic configuration, trends and properties.
CH-202	CO-1. Calculations of mole, molar concentrations and various units of
Analytical	concentrations which will be helpful for preparation of solution
Chemistry	CO-2. Units such as parts per million, parts per billion, parts per thousand,
	solution-dilatant volume ratio, function density and specific gravity of
	solutions
	CO-3. Basics of type determination, characteristic tests and classifications,
	reactions of different functional groups.
	CO-4. Basics of chromatography and types of chromatography
CH-103, 203 :	CO-1. Importance of chemical safety and Lab safety while performing
Chemistry Practical	experiments in laboratory
	CO-2. Determination of thermochemical parameters and related concepts and
	techniques of pH measurements
	CO-3. Preparation of buffer solutions, elemental analysis of organic
	compounds (non instrumental)
	CO-4. Chromatographic Techniques for separation of constituents of
	mixtures.
	CO-5. Inorganic Estimations using volumetric analysis

	CO-6. Synthesis of Inorganic compounds
	CO-7. Analysis of commercial products
	CO-8. Purification of organic compounds
Course	Course Outcomes S.Y. B. Sc. Chemistry
Course	Semester-III
CH-301	CO-1: Explain / discuss / derive integrated rate laws, characteristics,
Physical and	expression for half-life and examples of zero order, first order, and
Analytical Chemistry	
Anarytical Chemistry	CO-2: Derivations of collision theory and transition state theory of
	bimolecular reaction and comparison.
	CO-3: Explain adsorption, classification of given processes into physical
	and chemical adsorption.
	CO-4: Apply adsorption process to real life problem.
CH 202	CO-5: Apply statistical methods to express his / her analytical results in
CH-302	CO-1. Understand the terms related to molecular orbital theory (AO,
Inorganic &	MO, sigma bond, pi bond, bond order, magnetic property of
Organic Chemistry	molecules
	CO-2. Understand and explain and apply LCAO principle for the formation $f_{1}MO^{2}$
	of MO's fromAO's.
	CO-3. Terms related to the coordination chemistry (double salt, coordination
	compounds, coordinate bond, ligand, central metal ion, complex ion,
	coordination number, magnetic moment, crystal field stabilization
	energy, types of ligand, chelate effect,etc.)
	CO-4. Werner's theory of coordination compounds.
	CO-5. Identify, draw the structures, from structure name can be assign,
	synthesis, mechanism of reactions of aromatic hydrocarbons.
	CO-6. Identify and draw the structures alkyl / aryl halides, synthesis of
	alkyl / aryl halides, mechanism of Nucleophilic Substitution
	$(SN^1, SN^2 \text{ and } SNi)$ reactions alkyl / aryl halides.
	CO-7. Identify and draw the structures alcohols / phenols from their
	names or from structure name can beassigned, differentiate
	between alcohols and phenols.
	Semester-IV
CH-401	CO-1. Understand the the terms in phase equilibria such as-system,
Physical and	
•	phase in system, components in system, degree of freedom, one
Analytical Chemistry	
	CO-2. Apply solvent extraction to separate the components of from mixture interest
	CO-3. Apply conductometric methods of analysis toreal problem in
	analytical laboratory
	CO-4. Apply colorimetric methods of analysis to real problem in
	analytical laboratory
	CO-5. Apply column chromatographic process for real analysis in
	analytical laboratory

CH-402	CO-1. Isomerism in coordinationcomplexes different types of isomerism in
Inorganic &	coordinationcomplexes.
-	CO-2. Apply principles of VBT to explain bonding in coordination
organie chemistry	compound of different geometries. Correlate no of unpaired
	electrons and orbitals used forbonding, Identify / explain /
	discuss inner and outer orbitalcomplexes.
	CO-3. Principle of CF, Apply crystal field theory to different type of
	complexes (Td, Oh, Sq. Plcomplexes), strong field and weak
	field ligand approach in Oh complexes.
	CO-4. Identify and draw the structures aldehydes and ketones from their
	names or from structure name can beassigned, synthesis, the
	mechanism reactions aldehydes and ketones.
	CO -5. structures carboxylic acids and their derivatives from their names
	or from structure name can beassigned, synthesis of carboxylic
	acids and their derivatives,
	CO -6. Identify and draw the structures amines from their names or from
	structure name can be assigne, synthesis of carboxylicamines,
	mechanism reactions carboxylic amines, diazonium salt from
	amines and reactions of diazonium salt.
CH-303, 403	CO-1. Verify theoretical principles experimentally
	CO-2. Interpret the experimental data on the basis of theoretical principles
-	CO-3. Correlate the theory to the experiments. Understand / verify theoretical
111, 1 V	principles by experiment or explain practical output with the help of
	theory and perform organic and inorganic synthesis and able to follow
	the progress of the chemical reaction.
	CO-4. Set up the apparatus properly for the designed experiments.
	CO-5. Systematic working skill in laboratory will be imparted in student.
	Course Outcomes T.Y.B. Sc. Chemistry
	Semester-III
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Course	Outcomes
B.Sc. Chemistry	After completion of these courses students should be able to;
CH-331	CO-1. To understand and write an expression for rate constant K for
Physical	third order reaction CO-2. Solve the numerical problems
Chemistry	based on Rate constant
	CO-3 Understand the term specific volume, molar volume and molar
	refraction
	CO-4. Know the meaning of phase, component and degree of freedom
	CO-5. Derive the expression for rotational spectra for the transition from
	J to J+1
CH-332	J to J+1 CO-1. Know the meaning of various terms involved in co-ordination
CH-332 Inorganic	
	CO-1. Know the meaning of various terms involved in co-ordination

	CO-3. Know the limitations of VBT
	CO-4. Know the shapes of d-orbitals and degeneracy of d-orbitals
	CO-5. Draw the geometrical and optical isomerism of complexes
CH-333	CO-1. Define organic acids and bases.
Organic	CO-2. Distinguish between geometrical and optical isomerism.
Chemistry	CO-3. Discuss kinetics, mechanism and stereochemistry of SN^1 and SN^2
	reactions.
	CO-4. Compare between E_1 and E_2 reactions.
	CO-5. Understand the evidences, reactivity and mechanism of various
	elimination and substitution reactions.
CH-334	CO-1. Know the principles of common ion effect and solubility product.
Analytical	CO-2. Study the methods of thermo-gravimetric analysis.
Chemistry	CO-3. Understand the principles of Spectro-photometric analysis and
	properties of electromagnetic radiations.
	CO-4. Study the Voltammetry and Polarography as an analytical tool.
	CO-5. Measure the absorbance of atoms by AAS.
СН-335	CO-1. Know the importance of chemical industry.
Industrial	CO-2. Classify various insecticides.
Chemistry	CO-3. Study the nutritive aspects of food constituents.
	CO-4. Understand the characteristics of some food starches. CO-5. Study
	the manufacture of cement, dyes, Glass, Soap and Detergents by
	modern methods.
СН-336-D	CO-1. Know the importance and conservation of environment
Environmental and	CO-2. Understand the segments of atmosphere, hazards of flue gasses
Green Chemistry	ozone depletion and ecological changes due to the hazardous gases.
cheen chemistry	CO-3. Know the different water resourses, quality of potable water and
	quality measures.
	CO-4. Understand the need of green technology, principles of green
	chemistry and its advantages.
	CO-5. Know the importance of catalytic route for sustainable
	development using green chemistry approach.
	Course Outcomes B. Sc. Chemistry
	Semester-IV
CH-341	CO-1. Understand Mechanics of system particles.
Physical	CO-2. Know the Redox reaction.
Chemistry	CO-3 Study the Crystal Field Theory.
Chemistry	CO-4. Solve the cell reaction and calculate EMF.
	CO-5. Calculate interplanar distance.
	CO-6. Understand De-Broglie hypothesis and Uncertainty principle
	CO-7. Derive Schrodinger"s time dependent and independent equations
	CO-8. Know the nuclear reaction and its application
CH-342	CO-1 Study the electronic configuration of lanthanides and actinides.
Inorganic	CO-2. Get knowledge of Crystalline solid.
Chemistry	CO-3. Understand different operation in stoichiometric molecule.
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	CO-4. Study the Bio-inorganic chemistry.

CH-343	CO-1. To study UV, IR and NMR spectroscopy.
Organic	CO-2. Discuss different types of rearrangement reactions.
Chemistry	CO-3. Determine structure of compound by spectroscopic methods.
Chemistry	CO-4. Understand the difference between carbocation and carbanion.
	CO-5.To study alkaloids, Ephedrine, citral molecule with their properties
	and application.
CH-344	CO-1. Know the different analytical techniques.
Analytical	CO-2. To understand different types of separation techniques.
Chemistry	CO-3. To study principle, construction and working of GC and HPLC.
j	CO-4. To give an extended knowledge about chromatographic
	techniques used for separation of amino acids.
	CO-5. Discuss the problem based on distribution coefficient
	and extraction techniques
CH-345	CO-1. Know the various pharmaceutical drugs, their application and
Industrial	synthesis.
Chemistry	CO-2. To study the waste management.
-	CO-3. To understand the function of dyes, paints and pigments.
	CO-4. To study the various type of surfactants.
	CO-5. To know about molasses and bagasse.
	CO-6. To study the different types of polymer.
CH-346-D	CO-1. Know methods of water purification, waste water treatment process
Environmental	and its advantages
and Green Chemistry	CO-2. Study of types of soil its components and types of solid waste and
	their disposal.
	CO-3. Study the techniques used to monitored hazardous materials present
	in the environment.
	CO-4. Understand the global warming climate change and green house
	gasses and their effects.
	CO-5. Study of importance of water as green solvent, natural resourses of
	energy, conventional and non convential source and utilization of
	solar and wind energy.
CH-347	CO-1. Calculate molar and normal solution of various concentrations.
Physical Chemistry	CO-2. Determine specific rotations and percentage of to optically active
Practical	substances by polorimetrically.
	CO-3. Study the energy of activation and second order reaction.
	CO-4. Study the stability of complex ion and stranded free energy
	change and equilibrium constant by potentiometry.
CHI 2 10	CO-5. Find out the acidity, Basicity and PKa Value on pH meter.
CH-348	CO-1. Study the gravimetric and volumetric analysis of ores and alloy.
Inorganic Chemistry	CO-2. Prepare a various inorganic complexes and determine its % purity.
Practical	CO-3. To study binary mixture with removal of borate and phosphate.
CII 240	CO-4. To understand the chromatographic techniques
CH-349	CO-1. Perform the Binary mixtures.
Organic Chemistry Practical	CO-2. Preparation of organic compounds, their purifications and runTLC.
Chemisu y i factical	CO-3. Determination of physical constant: Melting point, Boiling point.
	CO-4. Different separation techniques.

Programme Outcomes: M. Sc. Analytical Chemistry

	After successful completion of two year degree programme
M. Sc. Analytical	in chemistry a student should be able to
Chemistry	
Programme	PO-1. Demonstrate, solve and an understanding of major concepts in all
Outcomes	disciplines of Chemistry.
	PO-2. Solve the problem and also think methodically, independently and
	draw a logical conclusion.
	PO-3. Create an awareness of the impact of chemistry on the society, and
	development outside the scientific community.
	PO-4. Become professionally trained in the area of Industry, material
	science, lasers and Nano-Technology.
	PO-5. Employ critical thinking and the scientific knowledge to design, carry
	out, record and analyze the results of Chemistry experiments.
	PO-6. To inculcate the scientific temperament in the students and outside the
	scientific community.
	PO-7. Apply modern methods of analysis to chemical systems in
	a laboratory setting.
Programme Specific	PSO-1. Learn about the potential uses of analytical industrial chemistry.
Outcomes	PSO-2. Carry out experiments in the area of organic analysis, estimation,
	separation, derivation process, conduct metric and potentiometri
	analysis.
	PSO-3. Learn the classical status of thermodynamics.
	PSO-4. Gathers attention about the physical aspects of atomic structure,
	various energy transformation, molecular assembly in nano level
	and significance of electrochemistry.
	PSO-5. Understand good laboratory practices and safety.
	PSO-6. Introduce advanced techniques and ideas required in developing
	area of Chemistry.
	PSO-7. Make aware and handle the sophisticated instruments/equipments.
	PSO-8. Enhance students" ability to develop mathematical models for
	physical systems.

	Course Outcomes M. Sc. Analytical Chemistry
	Semester-I
Course	Outcomes
M. Sc. Analytical	After completion of these courses students should be able to;
Chemistry	
CCTP-1	CO-1. Realize the terms State function, path function, exact differential
	and inexact differential, internal energy and enthalpy,
CHP-110- Physical Chemistry-I	CO-2. Know the Helmholtz and Gibbs function, Entropy and entropy
r nysicai Chennisu y-i	change in an ideal gas with temperature and pressure
CCTP-Core	CO-3. Learn Partial molar quantities, methods for determination of
Compulsory	

Theory Paper	molar quantities, ideal solutions
Theory Taper	CO-4. Understand the Raoult's, Henery's law, Gibbs function,
	colligative properties, Elevation in boiling point, depression
	CO-5. Recognized the Chemical Kinetics and Reaction Dynamics,
	CO-6. Learn Valence bond theory, molecular orbital theory for di
~~~	and tri atomic molecule,
CCTP-2	CO-1.To understand the concept of symmetry and able to pass various
CHI-130-	symmetry elements through the molecule.
Inorganic Chemistry-I	CO-2. Understand the concept and point group and apply it to molecules
Chemistry-1	CO-3. Known the Projection operators and their use of construct SALC
	CO-4.To understand the Application of Group theory to Infrared
	Spectroscopy.
	CO-5. understand the detail chemistry of S and P block
	elements w.r.t. their compounds, their reactions
	CO-6. To learn the advance chemistry of boranes,
	fullerene, zeolites, polymers etc.
	CO-7. Learn Organometallic chemistry of some important elements from the
	main groups and their applications
CCTP-3	CO-1. To understand some fundamental aspects of organic chemistry, to learn
CHO-150-	the concept aromaticity, to understand the various types of aromaticity
Organic Chemistry-I	CO-2. To study heterocyclic compound containing one and two hetero atoms
	with their structure, synthesis and reactions
	CO-3. Learn the concept stereochemistry and its importance; their rules and
	the concept of chirality
	CO-4. Understand the role of various reaction intermediates like carbocation,
	carbanion, carbenes, radicals, and nitrenes in organic reactions;
	CO-5. Able to describe mechanism of different rearrangement reactions.
	CO-6. Understand the chemistry of Ylides.
	CO-7. To understands the basis of redox reaction; acquire knowledge about
	the reagents which causes selective oxidation / reduction in various
	learn the basic mechanism of oxidation / reduction in organic comp
CBOP-1	CO-1. Students will be able to explore new areas of research in both chemistry
	and allied fields of science and technology.
CHG-190 -	CO-2. Understand the Students will be able to function as a
GeneralChemistry-I	member of an interdisciplinary problem solving team.
	CO-3. Understand to impart the students thorough idea in
<b>CBOP-Choice</b>	the chemistry of carbohydrates, amino acids, proteins
Based Optional	and nucleic acids etc.
Paper	CO-4. Develop skills to critically read the literature and
-	effectively communicate research in a peer setting
	CO-5. Understand thePractical of Inorganic Material
	Analysis, Synthesis and Applications.

	Course Outcomes M. Sc. Analytical Chemistry	
Semester-II		
	CO-1. Understand of the principle of Microwave, IR, Raman,	
CCTP-4	Electronic, NMR, ESR and Mossbauer spectroscopy	
	CO-2. Draw of the schematic Microwave, IR and Raman spectrum	
CHP-210- Physical Chemistry-II	of di and triatomic molecules based on the selection rules.	
r nysicai Chennisu y-11	CO-3: Understand of decay kinetics and measurement of	
	radioactivity CO-4: Get knowledge of types of nuclear react	
	CO-5: Study the applications of radioactivity, Understand	
	Radiolysis and radicals	
	CO-1. Understand to find out the no of microstates and meaningful term	
CCTP-5	symbols, construction of microstate table for various configuration	
	CO-2. Understand to draw correlations diagram for various configurations in	
CHI-230-	Tdh Oh ligand field.	
Inorganic Chemistry-II	CO-3. Study the basic d-d transition, d-p mixing, charge transfer spectra	
	CO-4. Understand the various terms involved in magneto chemistry.	
	Co-5. Understand the various Quenching of orbital angular momentum	
	CO-6. Understand the importance of bioinorganic chemistry.	
	CO-7. Understand the importance and transport of metal ions and Mechanism	
	for active transport of Na ⁺ and K ⁺	
	CO-8. Understand the importance and function of Ca, Fe and Mg in	
	metalloprotein and Catalytic role of Mn in photosynthesis.	
	CO-1. MOT and will be able to extend this in predicting reaction mechanism	
CCTP-6	and stereochemistry of electrocyclic reactions.	
CHO 250	CO-2. The concepts in free radical reactions, mechanism and the stereo	
CHO-250- Organic Chemistry -II	chemical outcomes	
Organic Chemistry -II	CO-3. The basic principle of spectroscopic methods and their applications	
	in structure elucidation of organic compounds using given	
	spectroscopic data or spectra.	
	CO-4. Understand the factors affecting UV-absorption spectra, Interpret IR-	
	spectra on basic values of IR-frequencies.	
CBOP-2	CO-1. To impart the students thorough idea in the chemistry of carbohydrates,	
	amino acids, proteins and nucleic acids etc	
СНG-290-	CO-2. Students will be able to function as a member of an interdisciplinary	
GeneralChemistry-II	problem solving team.	
	CO-3. Develop skills to critically read the literature and effectively	
	communicate research in a peer setting.	
	CO-4. Understand the importance of chemical biology research and	
	Interdisciplinary work.	
	CO-5.Understand the Practical of potentiometry and polorography	
	co stonderstand the r ractical of potentionnelly and polotography	

CCPP-1	CO-1. Calculate molar and normal solution of various concentrations.
СНР-107-	CO-2. Determine specific rotations and percentage of to optically active
Practical Course –I	substances by polorimetrically.
CCPP -Core	CO-3. Study the energy of activation and second order reaction.
Compulsory	CO-4. Understand the colorometry and spectrophotometric technique
Practical Paper	CO-5. Study of Laboratory Safety, MSDS sheet, Handling of glassware's and
Ĩ	care to be taken, handling of organic flammable as well as toxic
	solvents in laboratory
	CO-6- Understand the purification techniques and perform the green synthesis
	of organic compounds
CCPP-2	CO-1. Study of synthesis of coordination complexes
CHP-227-Practical	CO-2. Understand the structural determination of metal complexes by
Course-II	conductometric measurement.
	CO-3. Understand the inorganic characterization techniques, Inorganic
	Kinetics and Ion – Exchange Chromatography,
	CO-4. Students are trained to different purification techniques in organic
	chemistry like recrystallization, distillation, steam distillation
	CO-5. Students are made aware of carrying out different types of reactions and
	their workup methods.
	CO-6. Make student aware of green chemistry and role of green chemistry in
	pollution reduction.
	Semester-III
СНА-390	CO-1. Study of colorimeter, Faraday 1 st law, Faraday 2 nd law.
Electro analytical and	CO-2. Study of voltametry and paleographic method of analysis
radio analytical	CO-3. Study of ampherometry and their applications
methods of analysis CHA-391	CO-4. Learn radio analytical methods of analysis, activation analysis, CO-1. Study of apparatus for test and assay, cleaning of glassware, role of
Pharmaceutical analysis.	FDA in pharmaceutical industry.
Filamaceutical allarysis.	1 5
	CO-2. Learn biological test and assay, microbiological test and assay, physical test, determination, limit test sterilization.
	novsical lest determination limit lest steruization
	CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical
	CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.
	<ul><li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li><li>CO-4. Learn standardization and quality control of different row materials.</li></ul>
СНА-392	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase</li> </ul>
Advanced analytical	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase extraction, micro extraction and SFE.</li> </ul>
	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase extraction, micro extraction and SFE.</li> <li>CO-2. Learn: AAS, FES, ICPAES, and DCP.</li> </ul>
Advanced analytical	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase extraction, micro extraction and SFE.</li> <li>CO-2. Learn: AAS, FES, ICPAES, and DCP.</li> <li>CO-3. Study atomic fluorescence, resonant ionization and LASER based</li> </ul>
Advanced analytical	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase extraction, micro extraction and SFE.</li> <li>CO-2. Learn: AAS, FES, ICPAES, and DCP.</li> <li>CO-3. Study atomic fluorescence, resonant ionization and LASER based enhanced ionization.</li> </ul>
Advanced analytical techniques	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase extraction, micro extraction and SFE.</li> <li>CO-2. Learn: AAS, FES, ICPAES, and DCP.</li> <li>CO-3. Study atomic fluorescence, resonant ionization and LASER based enhanced ionization.</li> <li>CO-4. Study of different detectors and their applications.</li> </ul>
Advanced analytical techniques CHA-380	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase extraction, micro extraction and SFE.</li> <li>CO-2. Learn: AAS, FES, ICPAES, and DCP.</li> <li>CO-3. Study atomic fluorescence, resonant ionization and LASER based enhanced ionization.</li> <li>CO-4. Study of different detectors and their applications.</li> <li>CO-1. To understand assay validation and inter laboratory transfer.</li> </ul>
Advanced analytical techniques CHA-380 Geochemical and alloy	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase extraction, micro extraction and SFE.</li> <li>CO-2. Learn: AAS, FES, ICPAES, and DCP.</li> <li>CO-3. Study atomic fluorescence, resonant ionization and LASER based enhanced ionization.</li> <li>CO-4. Study of different detectors and their applications.</li> <li>CO-1. To understand assay validation and inter laboratory transfer.</li> <li>CO-2. Study the statistical analysis and analytical figure.</li> </ul>
Advanced analytical techniques CHA-380	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase extraction, micro extraction and SFE.</li> <li>CO-2. Learn: AAS, FES, ICPAES, and DCP.</li> <li>CO-3. Study atomic fluorescence, resonant ionization and LASER based enhanced ionization.</li> <li>CO-4. Study of different detectors and their applications.</li> <li>CO-1. To understand assay validation and inter laboratory transfer.</li> </ul>
Advanced analytical techniques CHA-380 Geochemical and alloy	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase extraction, micro extraction and SFE.</li> <li>CO-2. Learn: AAS, FES, ICPAES, and DCP.</li> <li>CO-3. Study atomic fluorescence, resonant ionization and LASER based enhanced ionization.</li> <li>CO-4. Study of different detectors and their applications.</li> <li>CO-1. To understand assay validation and inter laboratory transfer.</li> <li>CO-2. Study the statistical analysis and analytical figure.</li> </ul>
Advanced analytical techniques CHA-380 Geochemical and alloy analysis and analytical	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase extraction, micro extraction and SFE.</li> <li>CO-2. Learn: AAS, FES, ICPAES, and DCP.</li> <li>CO-3. Study atomic fluorescence, resonant ionization and LASER based enhanced ionization.</li> <li>CO-4. Study of different detectors and their applications.</li> <li>CO-1. To understand assay validation and inter laboratory transfer.</li> <li>CO-2. Study the statistical analysis and analytical figure.</li> <li>CO-3. Learn the analysis of geological materials and alloys.</li> </ul>
Advanced analytical techniques CHA-380 Geochemical and alloy analysis and analytical method development	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase extraction, micro extraction and SFE.</li> <li>CO-2. Learn: AAS, FES, ICPAES, and DCP.</li> <li>CO-3. Study atomic fluorescence, resonant ionization and LASER based enhanced ionization.</li> <li>CO-4. Study of different detectors and their applications.</li> <li>CO-1. To understand assay validation and inter laboratory transfer.</li> <li>CO-2. Study the statistical analysis and analytical figure.</li> <li>CO-3. Learn the analysis of geological materials and alloys.</li> <li>CO-4. Study the analysis of soil, sampling, chemical analysis as a measure of</li> </ul>
Advanced analytical techniques CHA-380 Geochemical and alloy analysis and analytical method development	<ul> <li>CO-3. Analysis of vegetable drug, sources of impurities in pharmaceutical row materials and finished products.</li> <li>CO-4. Learn standardization and quality control of different row materials.</li> <li>CO-1. Study the classical approach for aqueous extraction, solid phase extraction, micro extraction and SFE.</li> <li>CO-2. Learn: AAS, FES, ICPAES, and DCP.</li> <li>CO-3. Study atomic fluorescence, resonant ionization and LASER based enhanced ionization.</li> <li>CO-4. Study of different detectors and their applications.</li> <li>CO-1. To understand assay validation and inter laboratory transfer.</li> <li>CO-2. Study the statistical analysis and analytical figure.</li> <li>CO-3. Learn the analysis of geological materials and alloys.</li> <li>CO-4. Study the analysis of soil, sampling, chemical analysis as a measure of</li> </ul>

	Semester-IV
СНА-490	CO-1. Study of ESCA, Detectors and their applications.
Analytical spectroscopy	CO-2. Learn X-ray method of analysis, numerical problems.
	CO-3. Understand an introduction to microscopy, its applications.
	CO-4. Study of chemiluminescences, Fluorescence and phosphorescence.
	CO-5. Study of NMR spectroscopy.
CHA-491	CO-1. Study of analysis of fertilizer, sampling and sample preparation, kjeldal''s method.
Analytical methods for	CO-2. Understand the analysis of soap and detergents, UV-spectroscopic
analysis of fertilizer	analysis of detergent.
detergent, water and	
polymer,	CO-3. Study of water pollution and analysis of polluted water.
	CO-4. Learn the polymer chemistry, analysis and testing of polymer,
	measurement of molecular weight and size.
	CO-5. Understand paint and pigment
CHA-492	CO-1. Study of pollution monitoring, removal of heavy toxic metals Cr, Hg,
Pollution monitoring	CO-2. Learn the removal of particulate matters, SO ₂ And NOx.
and control and	CO-3. Study the collection of specimen blood, urine, faeces.
analysis of body fluid.	CO-4. Learn the analysis of blood and urine, Vitamin in body fluid.
	CO-5. Study the liver function and kidney function test.
CHA-481	CO-1. Study of acute poisoning, clinical toxicology.
Analytical toxicology	CO-2. Learn the isolation, identification and determination of narcotics,
and food analysis	CO-3. Study the classification function, analysis of carbohydrate, Protein,
······	CO-4. Study the food preservatives, identification determination, and
	composition.
CHA-387	CO-1. Study the gravimetric and volumetric analysis of ores and alloy.
Analysis of	CO-2. Prepare a various inorganic complexes and determine its % purity.
materials	CO-3. Preparation of nonmaterial.
materials	CO-4. To understand the chromatographic techniques.
	CO-5. Estimation of Iron By Various methods.
CHA-487	CO-1. Spectral analysis best on instrumental techniques
Instrumentel	CO-2. Photometric determination.
Instrumental	CO-3. Study of Conductometer, FES, Polarography.
Analysis.	CO-4. Analysis of riboflavin byphotoflurometry.
	CO-5. To Study the spectroscopic techniques
	CO-6. To study the terbidometry and Neflometry.
CHA-488	CO-1. Study the dissolution of tablet.
Dusquia Charrister	CO-2. Learn the spectroscopic techniques.
Organic Chemistry	CO-3. Study Volumetric and gravimetric estimation.
Practical	CO-4. Analysis of Quinine sulphate by photoflurometry.

# **DEPARTMENT OF BOTANY**

### Programme Outcomes: B. Sc. Botany

B.Sc. Baotany	After successful completion of three year degree program in Botany a		
<b>D.Sc. Daotany</b>	student is able to;		
Programme	PO-1. Students know about different types of lower & higher plants their		
Outcomes	evolution in from algae to angiosperm &also their economic and		
	ecological importance.		
	PO-2. Cell biology gives knowledge about cell organelles & their		
	functions		
	PO-3. Molecular biology gives knowledge about chemical properties of		
	nucleic acid and their role in living systems.		
	PO-4. Genetics provides knowledge about laws of inheritance, various		
	genetic interactions, chromosomal abrasions & multiple alleles.		
	PO-5. Structural changes in chromosomes.		
	PO-6. Student can describe morphological & reproductive characters of		
	plant and also identified different plant families and classification.		
	PO-7. Understand the economic importance of various plant products &		
	artificial methods of plant propagation		
	PO-8. Use modern Botanical techniques and decent equipments.		
	PO-9.To inculcates the scientific temperament in the students and outside		
	the scientific community.		
Programme	PSO-1. Students acquire fundamental Botanical knowledge through		
Specific Outcomes	theory and practicals.		
	PSO-2. To explain basis plant of life, reproduction and their survival in		
	nature.		
	PSO-3. Helped to understand role of living and fossil plants in our life.		
	PSO-4. Understand good laboratory practices and safety. PSO-5. To create awareness about cultivation, conservation and		
	sustainable utilization of biodiversity		
	PSO-6. To know advance techniques in plant sciences like tissue culture,		
	Phytoremediation, plant disease management, formulation of new		
	herbal drugs etc.		
	PSO-7. Students able to start nursery, mushroom cultivation, biofertilizer		
	production, fruit preservation and horticultural practices.		

#### Course Outcomes: F. Y. B. Sc. Botany

Course	Outcomes
F. Y. B. Sc. Botany	After completion of these courses students should be able to;
Paper-I. SemI:	Students get awareness about Algal Fungal, Licens, Brayophytes,
Plant Life and	Pteridophytes diversity, systematic position and morphology.
Utilization -I	Students know about their life cycle pattern as well as botanical
	sources, characteristics and utilities of Plants/ plant products.
Domon II. Com I.	Students know about Pteridophytes, Gymnosperms and Angiosperms
Paper-II, Sem-I: Plant Life and	with reference to vascular plants. Utilization and economic
Utilization-II	importance of Pteridophytes, Gymnosperms and Angiosperms
	Students will been about Life Cuele of Spinsoune Agenious Dissis
Paper-III, Sem-I: Practical Course based	Students will learn about Life Cycle of Spirogyra, Agaricus. Riccia,
	Lichens, Mushroom Cultivation, Inflorescence, Flowers and Fruits
on Paper I & Paper II	
Paper-I, Sem-II:	Students will understand about the habit of the angiosperm plant
Plant Morphology and	body. They will know the vegetative characteristics of the plant.
Anatomy	Learn about the reproductive characteristics of the plant as well as
	they understand the plant morphology. Understand the scope &
	importance of Anatomy. They get knowledge about various tissue
	systems.
Paper-II, Sem-II:	Students will learn about scope of plant physiology and different
-	concepts in plant physiology ie. Diffusion, Imbibitions, Osmosis
Principles of	Plasmolysis, Plant growth, Plant cell and Cell cycle as well as they
lant Science	aware about introduction and scope of molecular biology, central
	dogma, Structure of DNA, Types of chromosomes. Structure and
	types of RNA, DNA replication and types.
Paper-III, Sem-II:	To make aware the students about the study of life cycle of
Practical Course based	Nephrolepis, Cycas, Bentham and Hooker's system of classification,
on Paper I & Paper II	Comparative account of Dicotyledonous and Monocotyledonous
	plants, Utilization and economic importance of Angiosperms, Plant
	cell, Staining of suitable nuclear material by Basic Fuchsin ,Study of
	mitosis, meiosis preparation of slides using onion root tips
	,Estimation of chlorophyll-a and chlorophyll-b, Osmosis- curling
~	experiment and DPD
Cours	e Outcomes: S. Y. B. Sc. Botany
Course	Outcomes
S. Y. B. Sc. Botany	After completion of these courses students should be able to;
Sem-I	Students will learn about the scope, importance, classification and
BO 231: Paper I-	nomenclature of plant taxonomy.
Taxonomy of	Learn about artificial, natural and phyllogenetic system of
Angiosperm and Plant	Understand the taxonomic literature.
community	Students will learn about sources of data for systematic
	The students know about botanical nomenclature and different
	plant families. They learn use of computer in plant classification.
	The student know about ecology and ecological grouping.

Sem-I	Understand scope and application of plant physiology.
BO 232: Paper II-	Students will able to know the movement of sap and absorption of
Plant Physiology	water.Understand the plant cell in relation to water
	Understand the process of transpiration.
	Students will learn about the nitrogen metabolism and its
	Importance.Learn about the seed dormancy and germination.
	Students know about the physiology of flowering and different
	concept related to it.
Sem-II	Student will able to know about scope of plant anatomy and types of
BO 241: Paper I-	tissue.
Plant Anatomy and	Student will learn Epidermal, Machanial and Vascular tissue. System.
Embryology	Learn about Normal and Anamolous secondary.
	Learn about scope of Plant Embryology.
	Understand the Microsprangium, Megasprangium, Male and Female
	gametophyte.
	Understand the fertilization process in plants as well as about
	endosperm and embryo.
BO 242: Paper II-	Understand scope and importance of plant biotechnology
Plant Biotechnology	Understand the principle, basic technique, types and application of
	pant tissue culture.
	Students will learn about concept, production and importance of single
	cell protein. Learn about the Genetic engineering
	Understand the genes, genome as well as recombinant
	D.N.A.technology
Practical course	Student will able to demonstrate proficiency in experimental
	techniques and methods of analysis.
	Students learn to carry out practical work in the field and in the
	Laboratory.

Course Outcomes: T. Y. B. Sc. Botany Semester-III		
Course	<b>Outcomes</b> After completion of these courses students should be able to;	
BO-331 Cryptogamic Botany	<ul> <li>CO-1. Study of cryptogams to understand their Diversity.</li> <li>CO-2. Know the systematics, morphology and structure of algae, fungi, bryophytes, and Pteredophytes.</li> <li>CO-3. Know life cycle pattern of cryptogams.</li> <li>CO-4. Know economic importance of cryptogams.</li> <li>CO-5.Know evolution of algae, fungi, bryophytes and Pteredophytes.</li> </ul>	
BO-332 Cell and molecular biology	<ul> <li>CO-1. Gain knowledge about cell and its function.</li> <li>CO-2. Learn the scope and importance of molecular biology.</li> <li>CO-3. Understand ultra-structure of cell wall, plasma membrane and cell Organelles</li> <li>CO-4. Understand the biochemistry of cell.</li> <li>CO-5. Understand the biochemical nature of nucleic acid and their role in living systems.</li> </ul>	
BO-333 Genetics and evolution	<ul> <li>CO-1. Understand the Mendelian and neo Mendelian genetics.</li> <li>CO-2 Know about interaction of genes, multiple alleles and linkage and crossing over.</li> <li>CO-3. Know about sex linked inheritance, chromosomal aberrations.</li> <li>CO-4. Know the evolutionary sequence of various groups of plants.</li> </ul>	
BO-334 Spermatophytic and palaeobotany	<ul> <li>CO-1. Systematic study of gymnosperms and angiosperms.</li> <li>CO-2. Understand the morphological and reproductive character of spermatophytic plants.</li> <li>CO-3. Understand economic importance of gymnosperms and angiosperms.</li> <li>CO-4. Understand the diversity among spermatophyte.</li> <li>CO-5. To bring investigation of palaeobotanical study in India.</li> <li>CO-6. Know, scope and application of Palaeobotany.</li> <li>CO-5.Know types of fossils, geological time scale.</li> </ul>	
BO-335 Horticulture & floriculture	<ul> <li>CO-1. Understand economic importance of plant and plant product</li> <li>CO-2. Know the methods of plant propagation.</li> <li>CO-3. Understand the fruit &amp; vegetables production technology.</li> <li>CO-4. Understand the scope &amp; importance of floriculture.</li> <li>CO-5. Understand the methods of cultivation of different</li> <li>flowering plants.</li> </ul>	
BO-336 Computational botany	<ul> <li>CO-1. Understand the scope &amp; importance of biostatistics.</li> <li>CO-2. Understand the scope and some basic commonly used terms like sampling, data, dispersion, population, central tendency etc.</li> <li>CO-3. Knowledge to apply statistical analysis to biological data for testing different hypothesis.</li> </ul>	

Course Outcomes B. Sc. Botany Semester-IV		
BO-341 Plant physiology & biochemistry	<ul> <li>CO-1. Know scope and importance of plant physiology.</li> <li>CO-2. Understand plant &amp; water relation.</li> <li>CO-3. Understand process of photosynthesis, C₃, C4, CAM pathways.</li> <li>CO-4. Understand the process of respiration, growth and developmental process in plant.</li> <li>CO-5. Understand the biochemistry of cell.</li> <li>CO-6.Understand the different biochemical reaction of biomolecules in plant cell.</li> </ul>	
BO-342 Plant ecology and biodiversity	<ul> <li>CO-1. Know the biotic and abiotic components of ecosystem.</li> <li>CO-2. Food chain &amp; food web in ecosystem.</li> <li>CO-3. Understand diversity among various groups of plant kingdom.</li> <li>CO-4. Understand plant community &amp; ecological adaptation in plants. CO-5. Scope , importance and management of biodiversity.</li> </ul>	
BO- 343 Plant pathology	<ul> <li>CO-1. Understand scope and importance of plant pathology.</li> <li>CO-2. Know disease cycle and disease development.</li> <li>CO-3. Know the effect of plant diseases on economy of crops.</li> <li>CO-4. Know the methods of studying plant diseases.</li> <li>CO-5. They can identify the plant diseases like bacterial, nematodal, and fungal.</li> <li>CO-6. Know the disease forecasting.</li> <li>CO-7.Know the prevention and control measures of plant diseases.</li> </ul>	
BO- 344 Medical and economic botany	<ul> <li>CO-1. Understand scope and importance of pharmacognosy.</li> <li>CO-2. Know the cultivation, collection, processing &amp; importance of various herbal drugs.</li> <li>CO-3. Understand the scope of economic botany.</li> <li>CO-4. Know the botanical resources like non wood forest products.</li> <li>CO-5.Understand the concept of Ayurvedic pharmacy.</li> </ul>	
BO-345 Plant biotechnology	<ul> <li>CO-1. Understand the fundamental of recombinant DNA technology.</li> <li>CO-2. Understand tissue culture techniques.</li> <li>CO-3. Role of microbes in agriculture, medicine &amp; industry.</li> <li>CO-4. Know the fermentation technology.</li> <li>CO-5. Understand the concept of bioinformatics, genomics</li> <li>&amp; proteomics.</li> <li>CO-6.Understand technical germplasm &amp; cryopreservation.</li> </ul>	
BO. 346 Plant breeding & seed technology.	<ul> <li>CO-1. Understand the scope &amp; importance of plant breeding.</li> <li>CO-2. Know the technique of production of new superior crop varieties.</li> <li>CO-3. Know the about heterosis, hybrid vigor etc.</li> <li>CO-4. Know the process of hybrid variety, development &amp; their release.</li> <li>CO-5.Know about seed germination, processing , production etc.</li> </ul>	

## **DEPARTMENT OF ZOOLOGY**

Zoology	F.Y.B.Sc. and S.Y. B.Sc. Zoology programme
Program specific outcomes	<ul> <li>PSO-1. Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology</li> <li>PSO-2. Analyze the relationships among animals with their ecosystems</li> <li>PSO-3. Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Sericulture.</li> <li>PSO-4. Understand the applications of Zoology in Agriculture, Medicine and daily life</li> <li>PSO-5. Gains knowledge about research methodologies, effective communication and skills of problem solving methods</li> <li>PSO-6 - Contributes the knowledge for Nation building.</li> </ul>

F. Y. B.Sc. Course	Outcomes
ZO-111,121:	CO1: To understand the Animal diversity around us.
Animal diversity I and II	CO2: To understand the underlying principles of classification
	of animals.
	CO3: To understand the terminology needed in classification.
	CO4: To understand the differences and similarities in the
	various aspects of classification.
	CO5: To classify invertebrates and to be able to understand the
	possible group of the invertebrate observed in nature.
ZO- 112:	CO1: The learners will be able to identify and critically evaluate
Animal Ecology:	is in relation to professional and societal standards of ethics and
	ere due to the dynamics in population.
	CO2: To understand anticipate, analyze and evaluate natural
	resource issues and act on a lifestyle that conserves nature.
	CO3: The Learner understands and appreciates the diversity of
	ecosystems and applies beyond the syllabi to understand the
	local lifestyle and problems of the community.
	CO4: The working in nature to save environment will help
	development of leadership skills to promote betterment of
	environment.
ZO – 122:	CO1: Student will come to know the scope of cell biology.
Cell Biology	CO2: Identifications of the different structures of Prokaryotic,
	Eukaryotic.
	CO3: Knowledge of the structure of unit membranes and its
	different models.
	CO4: Understanding the different cell organelles.
	CO5: Comparison between meiosis and mitosis cell division

	CO6: Explanation of the cell cycle, cell ageing and cell death.
Practical Zoology -I	<ul> <li>CO1: Recognize the live forms of vertebrates and invertebrates.</li> <li>CO2: Analyze and describe zoological concepts, including morphology and anatomy.</li> <li>CO3: Explain conservation and sustainable use of animals;</li> <li>CO5: Explain and demonstrate the impact that animals have on human society.</li> </ul>
S. Y. B.Sc. Course	Outcomes
<b>ZO 211, 221:</b> Animal Systematic and Diversity	<ul> <li>CO1- Knowledge of classification of Non-chordates along with studies on various physiological functions and interactions of non-chordate organisms with type specimens.</li> <li>CO2- Knowledge of classification of chordates along with studies on various physiological functions and comparative anatomy of organs of chordate with example.</li> </ul>
<b>ZO 212, 222:</b> Applied Zoology I & II	<ul> <li>CO1-Understands processes of fisheries, sericulture, along with crop pest management techniques.</li> <li>CO2-Students gain knowledge about various disease related vectors and their impact on human.</li> <li>CO3-Understands concepts of apiculture, poultry, dairy along with tissue and cell culture. techniques.</li> </ul>
ZO 223: Practical course	<ul> <li>CO1-First-hand knowledge about identification of non- chordate and chordate specimens (fresh and preserved) along with larval forms and study of endoskeleton of vertebrates.</li> <li>CO2: Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology.</li> <li>CO3: Analyze the relationships among animals, plants and microbes</li> </ul>

## **DEPARTMENT OF PHYSICS**

<b>D</b> So Dhysios	After successful completion of three year degree program in Physics a		
<b>B.Sc. Physics</b>			
	student should be able to;		
Programme	PO-1. Students got the basic knowledge of the scientific and		
Outcomes	technological aspects of Physics.		
	<b>PO-2.</b> Students are able to explain what is happening around them and		
	different phenomena in nature.		
	PO-3. The research project and practical skills enhance the scientific		
	approach of students.		
	PO-4. Students are able to implement basic electronics knowledge in		
	home appliances and able to identify the basic troubleshooting.		
	<b>PO-5.</b> Students are able to deal scientifically with real world problems.		
Programme	<b>PSO-1.</b> Students can independently think and able to solve		
Specific Outcomes	problems with the help of scientific knowledge.		
	<b>PSO-2.</b> Students are able to pursue a progressive and successful		
	career in Physics.		

Class	Course	Outcomes
<b>F.Y. B.</b>	PHY-111	CO-1. Demonstrate an understanding of Newton's laws and
Sc.	Mechanics and	applying them in calculations of the motion of simple
	Properties of	systems.
	Matter	<b>CO-2.</b> Use the free body diagrams to analyse the forces on the
		object.
		<b>CO-3.</b> Understand the concepts of energy, work, power, the concepts of conservation of energy and be able to perform calculations using them.
		<b>CO-4.</b> Understand the concepts of elasticity and be able to perform calculations using them.
		<b>CO-5.</b> Understand the concepts of surface tension and viscosity and be able to perform calculations using them.
		<b>CO-6.</b> Use of Bernoulli's theorem in real life problems.
		<b>CO-7.</b> Demonstrate quantitative problem-solving skills in all the topics covered.
F.Y.B. Sc.	PHY-112	<b>CO-1.</b> To understand the general structure of atom, spectrum
	Physics	of hydrogen atom.
	Principles and	CO-2. To understand the atomic excitation and LASER
	Applications	principles.
		<b>CO-3.</b> To understand the bonding mechanism and its different types.
		<b>CO-4.</b> To demonstrate an understanding of electromagnetic waves and its spectrum.

		CO-5.Understand the types and sources of electromagnetic
		waves and applications.
		<b>CO-6.</b> To demonstrate quantitative problem-solving skills in
		all the topics covered.
F.Y.B. Sc.	PHY-113	<b>CO-1.</b> Acquire technical and manipulative skills in using
<b>F</b> . <b>I</b> . <b>D</b> . <b>SC</b> .	Physics	laboratory equipment, tools, and materials.
	Laboratory 1A	<b>CO-2.</b> Demonstrate an ability to collect data through
		observation and/or experimentation and interpreting
		data.
		<b>CO-3.</b> Demonstrate an understanding of laboratory procedures
		including safety, and scientific methods.
		<b>CO-4.</b> Demonstrate a deeper understanding of abstract
		concepts and theories gained by experiencing and
		visualizing them as authentic phenomena.
		<b>CO-5.</b> Acquire the complementary skills of collaborative
		learning and teamwork in laboratory settings.
F.Y.B. Sc.	PHY-121 Heat	<b>CO-1.</b> Describe the properties of and relationships between the
	and	thermodynamic properties of a pure substance.
	Thermodynamic	<b>CO-2.</b> Describe the ideal gas equation and its limitations.
	S	<b>CO-3.</b> Describe the real gas equation.
		CO-4. Apply the laws of thermodynamics to formulate the
		relations necessary to analyze a thermodynamic process.
		CO-5. Analyze the heat engines and calculate thermal
		efficiency.
		CO-6. Analyze the refrigerators, heat pumps and calculate
		coefficient of performance.
		CO-7.Understand property 'entropy' and derive some thermo
		dynamical relations using entropy concept.
		<b>CO-8.</b> Understand the types of thermometers and their usage.
F.Y.B. Sc.	PHY-122	<b>CO-1.</b> To understand the concept of the electric force, electric
	Electricity and	field and electric potential for stationary charges.
	Magnetism	CO-2. Able to calculate electrostatic field and potential of
		charge distributions using Coulomb's law and Gauss's
		law.
		<b>CO-3.</b> To understand the dielectric phenomenon and effect of
		electric field on dielectric.
		<b>CO-4.</b> To Study magnetic field for steady currents using Biot-
		Savart and Ampere's Circuital laws.
		<b>CO-5.</b> To study magnetic materials and its properties.
		<b>CO-6.</b> Demonstrate quantitative problem-solving skills in all the topics covered.
F.Y.B. Sc.	PHY-123	<b>CO-1.</b> Acquire technical and manipulative skills in using
г.1. <b>D.</b> 5С.	Physics	laboratory equipment, tools, and materials.
	1 1195105	ומטטומוטו צ בקעוףווכות, נטטוג, מוני וומופוומוג.

	Laboratory 1B	<b>CO-2.</b> Demonstrate an ability to collect data through
		observation and/or experimentation and interpreting
		data.
		<b>CO-3.</b> Demonstrate an understanding of laboratory procedures
		including safety, and scientific methods.
		<b>CO-4.</b> Demonstrate a deeper understanding of abstract
		concepts and theories gained by experiencing and
		visualizing them as authentic phenomena.
		CO-5. Acquire the complementary skills of collaborative
		learning and teamwork in laboratory settings.
S.Y.B. Sc.	PHY-231:	<b>CO-1.</b> Understand the complex algebra useful in physics co
	Mathematical	<b>CO-2.</b> Understand the concept of partial differentiation.
	Methods in	CO-3.Understand the role of partial differential equations in
	Physics-I	phy
		CO-4.Understand vector algebra useful in mathematics and
		phy. <b>CO-5.</b> Understand the concept of singular points of differential
		equations.
S.Y.B. Sc.	PHY-232:	•
5. I .B. 5C.	Electronics	<b>CO-1.</b> Apply different theorems and laws to electrical circuits.
		<b>CO-2.</b> Understand the relations in electricity.
	(Optional I)	<b>CO-3.</b> Understand the parameters, characteristics and working
		of transistors.
		<b>CO-4.</b> Understand the functions of operational amplifiers.
		<b>CO-5.</b> Design circuits using transistors and applications of
		operational amplifiers.
		<b>CO-6.</b> Understand the Boolean algebra and logic circuits.
S.Y.B. Sc.	PHY-232:	<b>CO-1.</b> Understand the concept of measurement.
	Instrumentation	<b>CO-2.</b> Understand the performance of measuring instruments.
~ ~ ~ ~ ~	(Optional II)	<b>CO-3.</b> Design experiments using sensors.
S.Y.B. Sc.	PHY-233:	<b>CO-1.</b> Use various instruments and equipment.
	Practical Course	CO-2.Design experiments to test a hypothesis and/or
	(Laboratory 2A)	determine the value of an unknown quantity. $\bullet$
		Investigate the theoretical background of an experiment.
		CO-3.Setup experimental equipment to implement an
		experimental approach.
		CO-4. Analyze the data, plot appropriate graphs and reach
		conclusions from data analysis.
		CO-5.Work in a group to plan, implement and report on a
		project/experiment.
		CO-6.Keep a well-maintained and instructive laboratory
		logbook.
S.Y.B. Sc.	PHY-241:	CO-1. To study underlying principles of oscillations and it's
	Oscillations,	scope in development.
	Waves, and	CO-2. To understand and solve the equations / graphical
I	,	

	Sound	representations of motion for simple harmonic, damped,
	Sound	forced oscillators and waves.
		<b>CO-3.</b> To explain oscillations in terms of energy exchange
		with various practical applications.
		CO-4. To solve numerical problems related to undamped,
		damped, forced oscillations and superposition of
		oscillations.
		CO-5.To study characteristics of sound, decibel scales and
		applications.
S.Y.B. Sc.	PHY-242: Optics	<b>CO-1.</b> Acquire the basic concept of wave optics.
		<b>CO-2.</b> Describe how light can constructively and destructively
		interfere.
		CO-3.Explain why a light beam spread out after passing
		through an aperture
		CO-4.Summarize the polarization characteristics of
		electromagnetic wave
		CO-5.Understand the operation of many modern optical
		devices that utilize wave optics
		CO-6. Understand optical phenomenon such polarization,
		diffraction and interference in terms of the wave model
		<b>CO-7.</b> Analyze simple example of interference and diffraction.
S.Y.B. Sc.	PHY-243:	<b>CO-1.</b> Use various instruments and equipment.
	Practical Course	<b>CO-2.</b> Design experiments to test a hypothesis and/or
	(Laboratory 2B)	determine the value of an unknown quantity.
	•	Investigate the theoretical background of an experiment.
		<b>CO-3.</b> Setup experimental equipment to implement an
		experimental approach.
		<b>CO-4.</b> Analyze the data, plot appropriate graphs and reach
		conclusions from data analysis.
		<b>CO-5.</b> Work in a group to plan, implement and report on a
		project/experiment.
		<b>CO-6.</b> Keep a well-maintained and instructive laboratory
		logbook.
		105000K.

## **DEPARTMENT OF MATHEMATICS**

Course	Outcomes	
F. Y. B.Sc.		
Algebra and	CO-1. Solve various problems on properties of integers and use	
Geometry	thebasic concepts of divisibility, congruence and their	
	applications in basic algebra.	
	CO-2. Apply factor theorem, remainder theorem to solve problems on	
	polynomials and by using given relations between roots he will find the roots of polynomials	
	CO-3solve the system of homogeneous and non homogeneous	
	linearofmequationsinnvariablesby usingconceptof	
	CO-4. Solve the problems of lines in three dimension, planes, spheres,	
	and cylinders and how geometry is related to algebra by using their	
	algebraic equations	
Calculus and	CO-1. Identify algebraic and order properties of real numbers.	
Differential	CO-2. Identify and apply the function properties of real	
Equations	number system such as the completeness property	
	CO-3. Verify the values of limit of a function at a point using	
	the definition of alimit	
	CO-4. Students will be familiar with the techniques of	
	integration and differentiation of function with real variables	
Course	Outcomes S. Y. B.Sc.	
Multivariable	CO-1. Students learn analysis of multivariable functions,	
Calculus I	mcontinuity, and differentiability.	
	CO-2. learn theconceptsof multiple integrals and their Application	
	to area andvolumes	
Laplace	CO-1. Learn the methods and properties of Laplace transform	
Transformsand	and Inverse Laplace Transform, apply them to solve	
FourierSeries	CO-2. Apply the fundamental concepts of Fourierseries,	
	CO-3. Fourier Sine series, Fourier Cosine series to find	
	series representation of irrational numbers.	
Linear	CO-1. Use the concept of inner products paces to find norm of vectors,	
Algebra	distance between vectors, check the orthogonality of vectors,	
	CO-2. Apply the properties of linear transformations to linearity of	
	transformations.	
Numerical	transformations, CO-1. Studentsdevelopknowledgeintheerror and solution of	
Numerical differention	CO-1. Studentsdevelopknowledgeintheerror and solution of	
differention	CO-1. Studentsdevelopknowledgeintheerror and solution of differential equation.	
	CO-1. Studentsdevelopknowledgeintheerror and solution of	

### **DEPARTMENT OF COMMERCE**

B.Com	After successful completion of three year degree program in B.com a		
	student should be able to;		
Program	1. Developed management skills.		
Outcomes	2. Developed Entrepreneurial ability.		
(POs)	3. Developed numerical ability.		
	4. Well familiar with business regulatory framework.		
	5. Having basic knowledge of important business laws, financial accounting and MangmentAccouting		
Program	1. Students will demonstrate progressive affective domain		
Specific	development of values, the role of accounting in society and		
Outcomes	business.		
(PSOs)	2. Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.		
	3. Students will learn relevant managerial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.		
	4. Leaners will gain thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, finance, auditing and marketing.		

Class	Course	Outcomes	
Marketing Created awareness about market		Created awareness about market andmarketing.	
	and Salesmanship	Established link between commerce/Business	
		andmarketing.	
		Understood the basic concept ofmarketing.	
		To understand marketingphilosophy.	
	Computer	To make the students familiar with Computer environment.	
	Concepts	To make the students familiar with the basics of Operating	
	and Application	System and business communication tools.	
		To make the students familiar with basics of Network,	
		Internet and related concepts.	
	Banking	To provide knowledge of fundamentals of Banking	
	and Finannce	To create awareness about various banking concepts	
		To conceptualize banking operations.	
F.Y.B.	Business	To impart knowledge of business economics	
СОМ	Economics	To clarify micro economic concepts	
		To analyze and interpret charts and graphs	

		To understand basic theories, concepts of micro economics
		and their application
	Financial	To impart knowledge of basic accountingconcepts
	Accouting	To create awareness about application of these concepts in
	necouring	business world
		To impart skills regarding Computerised Accounting
		To impart knowledge regarding finalization of accounts of
		various establishments
C V D		
S.Y.B.	Corporate	To acquaint the student with knowledge about various
Com	Accounting	Concepts, Objectives and applicability of some important
		accounting standards associated with to corporate
		accounting.
		To develop understanding among the students on the
		difference between commencement and incorporation of a
		company and the accounting treatment for transactions
		during the two phases.
		To update the students with knowledge for preparation of
		final accounts of a company as per Schedule III of the
		Companies Act 2013
		To empower to students with skills to interpret the
		financial statements in simple and summarized manner for
		effective decision making process.
		To acquaint the student with knowledge about various
		Concepts, Objectives and applicability of some important
		accounting standards associated with to corporate
		accounting.
		To develop understanding among the students on the
		difference between commencement and incorporation of a
		company and the accounting treatment for transactions
		during the two phases.
	Business	To understand the concept, process and importance of
	Communication	communication.
		To acquire and develop good communication skills
		requisite for business correspondence.
		To develop awareness regarding new trends in business
		communication.
		To provide knowledge of various media of communication.
		To develop business communication skills through the
		application and exercises.
	Componeto I err	
	Corporate Law	To develop general awareness of Elements of Company
		Law among the students.
		To understand the Companies, Act 2013 and its provisions.
		To have a comprehensive understanding about the existing

<b>[</b>		low on formation of new company in India
		law on formation of new company in India.
		To create awareness among the students about legal
		environment relating to the company law.
		To acquaint the students on e-commerce, E governance
		and e-filling mechanism relating to Companies.
		To enhance capacity of learners to seek the career
		opportunity in corporate sector
	Business	To familiarize the students to the basic theories and
	Economics	concepts of Macro Economics and their application.
		To study the relationship amongst broad aggregates.
		To impart knowledge of business economics.
		To understand macroeconomic concepts.
		To introduce the various concepts of National Income.
	Business	To provide basic knowledge and understanding about
	Management	various concepts of Business Management.
		To help the students to develop cognizance of the
		importance of management principles.
		To provide an understanding about various functions of
		management.
		To provide them tools and techniques to be used in the
		performance of the managerial job.
	Business	To provide basic knowledge about various forms of
	Administration -	business organizations
	Ι	To acquaint the students about business environment and
		its implications thereon.
		To make them aware about the recent trends in business.
		To understand the concept of Business To understand the
		various perspectives to business
		To know the various functions of Business Administration
	Marketing	To orient the student's recent trends in marketing
	Management - I	management
		To create awareness about marketing of eco-friendly
		products in the society through students
		To inculcate knowledge of various aspects of marketing
		management through practical approach
		To acquaint the students with the use of E-Commerce in
		competitive environment.
ТҮВ	Auditing	To acquaint themselves about the concept and principles of
COM	and Taxation	Auditing, Audit process, Assurance Standards, Tax Audit,
		and Audit of computerized Systems.
		To get knowledge about preparation of Audit report.
		To understand the basic concepts and to acquire knowledge
		about Computation of Income, Submission of Income Tax
		about Computation of medine, Submission of medine Tax

	Return, Advance Tax, and Tax deducted at Source, Tax
	Collection Authorities under the Income Tax Act, 1961.
Business	
	To acquaint students with the basic concepts, terms &
Regulatory	provisions of Mercantile and Business Laws.
Framwork	To develop the awareness among the students regarding
	these laws affecting business, trade and commerce.
Advance	To impart the knowledge of various accounting concepts
Accouting	To instill the knowledge about accounting procedures,
	methods and techniques.
	To acquaint them with practical approach to accounts
	writing by using software package
Indian	To expose students to a new approach to the study of the
<b>Global Economics</b>	Indian Economy.
	To help the students in analyzing the present status of the
	Indian Economy.
	To enable students to understand the process of integration
	of the Indian Economy with other economics of the world.
	To acquaint students with the emerging issues in policies
	of India's foreign trade.
Business	To acquaint the students with basic concepts & functions
Administration -	of HRD and nature of Marketing functions of a business
II	enterprise. Concept and Importance.
	Performance Appraisal Process.
	Methods and Techniques.
	Merits and limitations of performance appraisal
Business	To acquaint the students with the basic concepts in finance
Administration -	and production functions of a business enterprise.
III	Shares, Debentures, Public Deposits, Ploughing back of
	profits, Loans from Bank and Financial Institutions, Trade
	creditors, Installment credit etc.
Marketing	To understand the concept and functioning of marketing
Management - II	planning and sales management
	To know marketing strategies and organization
	To inform various facets of marketing with regulatory
	aspects
	To understand marketing in globalize scenario
Marketing	To know detailing of Marketing Research
Management - III	To understand the role Brand and Distribution
	Management in marketing
	To inform about Marketing and Economic Development
	To Know of the importance of control on marketing
	activities

M.com	After successful completion of Two year degree program in M.com a student should be able to;	
Program Outcomes ( Pos )	<ul> <li>Students after completion of M. com. Programme is expected to achieve following outcomes: <ol> <li>To equip and train Post Graduate students to accept the challenges of business world by providing opportunities for study and analysis of advanced commercial and business methods and processes.</li> <li>To develop independent logical thinking and facilitate personality development.</li> <li>To equip the students to seek suitable careers in management and entrepreneurship.</li> <li>To acquaint students with significance of research in business.</li> <li>To impart skills regarding methods of data collection and their interpretations.</li> <li>To develop communication and analytical skills among students.</li> </ol> </li> </ul>	
Program Specific Outcomes (PSOs)	This point of view University of Pune has introduced Choice Base Credit System of course structure. This system shall offer a flexible user friendly, opportunity to the learner, will broader the horizon of Commerce education and will give a fair chance to every single learner to exhibit his talent, acquired skills and enhance his personality. It will further enhance his opportunity of global mobility, to acquire different knowledge inputs from different global institutes.	

#### Course Outcomes: - (Semester-I)

### (Specialization in Business Administration and Advance Marketing)

Class	Course	Outcomes
	Management	The objective of the course is to enable students to
	Account	acquire sound Knowledge of concepts, methods
	(Course Code -: 101)	and techniques of management accounting and to
		make the students develop competence with their
		usage in managerial decision making and control.

	Strategic	The objective of the course is to enable students to
	Management	understand the nature and Scope of Strategic
	(Course Code -: 102)	Management, Strategy Formulation and Strategic
		Analysis, Strategic Planning, Choices/Options,
		Strategy Implementation,Functional Strategy and
M.com I		Strategic Review.
	Production and	The objective of the course is to enable students to
	Operations Management	understand theIntroduction to Production &
Sem I	(Course Code -: 113)	Operations Management, Product Design and
		Development, Production Planning & Control,
& II		Quality Management and Productivity.
	Financial	The purpose of the course is to offer the students
	Management	relevant, systematic, efficient and actual knowledge
	(Course Code -: 114)	of financial management that can be applied in
		practice with making financial decisions and
		resolving financial problems.
		To understand the introduction of financial
		management, Investment Decisions, Financial
		Statements and Financial Analysis, management of
		Working Capital.
	Marketing Techniques	To study and critically analyze the basic concepts
	(Course Code -: 117)	& techniques of Marketing. To understand the,
		Introduction of Marketing, Marketing Organisation
		and Environment, Product Mix, Price and Place
		Mix, Promotion Mix/ Marketing Communication,
		People Process and Physical Evidence.
	Consumer	The objective of the course is to impart knowledge
	Behavior	regarding marketing management techniques and
	(Course Code -: 118)	process; to develop understanding of the marketing
		functions techniques and strategies. To study the
		Introduction to Consumer Behaviour and Market
		Segmentation, Consumer Perception: Definition of
		Perception, Elements of Perception, Consumer
		Learning and Memory, Personality and Self
		Concept, Motivation and Involvement, Attitude
		Formation and Change.
	Financial	The objective of the course is to enable students to
	Analysis & Control	acquire sound knowledge of concepts, methods and
	(Course Code -: 201)	techniques of management accounting and to make
		the students develop competence with their usage
		in managerial decision making and control.To
		study theLong Term Investment Decisions, Cost Of
		Capital, Marginal Costing, Short Run Managerial

	Decision Analysis, Budget And Budtetory Control
	And Standard Costing.
Industrial	To study the basic concepts of Industrial
Economics	Economics.
(Course Code -: 202 – A)	To study the significance and problems of
(Course Coue 202 – A)	Industrialization.
	To study the impact of Industrialization on Indian
	Economy.
	To study the Introduction of Industrial Economics,
	Industrial Location, Industrial Productivity,
	Industrial Efficiency and Profitability, Industrial
	Profile and Problems and Industrial Imbalance.
Business	The objective of the course is to enable students to
Ethics and Professional	study theIntroduction of the Business Ethics and
Values	Professional Values, Indian Ethical Practices,
(Course Code -: 213)	Dilemmatic situations in Professional Ethics, Code
	of Ethics and conduct, Indian Approach to Business
	Ethics, Gandhian Approach in Management and
	Trusteeship,Gandhi's Doctrine of Satya and Ahinsa
	, Concept, importance and relevance of trusteeship
	Principle in Modern Business, Emergence of new
	values in Indian Industries after economic reforms
	of 1991.
Elements of Knowledge	The objective of the course is to enable students to
Management	study the Introduction to Knowledge Management
(Course Code -: 214)	Process, Organizational Learning, Knowledge
	Management Tools & Change Management and
	Knowledge Management Culture.
Customer Relationship	To impart knowledge regarding customer
Management & Retailing	relationship management, & retailing techniques,
(Course Code -: 217)	process and tools and develop an understanding of
	the CRM & retailing functions techniques and
	strategies. To Study the
	CRM An Introduction, Emerging CRM, CRM and
	I.T., Latest Development in CRM, CRM
	Implementation Issues, and People factor in CRM.
Services Marketing	To impart knowledge regarding services marketing,
(Course Code -: 218)	process and tolls and develop understanding of the
	services marketing functions techniques and
	strategies.
<b>Business Finanance</b>	To enable students to acquire sound knowledge of
	concepts, nature and structure of business finance
	Characteristics of short term finance – short term

		1 0 1
		needs sources of short term financing - trade
		creditors, bank credit, bank financing of account
		receivables, working capital
	<b>Research Methodology for</b>	To acquaint the students with the areas of Business
	Business	Research Activities.
M.com		To enhance capabilities of students to conduct the
II		-
		research in the field of business and social sciences.
Semester		To enable students, in developing the most
_		appropriate methodology for their research studies.
III and		To make them familiar with the art of using
VI		different research methods and techniques.
	Human	To acquaint the students with in-depth knowledge
	Resource Management	of HRM.
	Resource management	To inculcate among students various practices
		followed by HR managers.
		To create understanding about recent trends in
		HRM
	OrganizationalBehavior	To make the students understand various concepts
		of organizationbehavior
		To provide in depth knowledge about process of
		formation of group behavior in an organization set
		up
	International Marketing	The Course participants will become more familiar
	International Warketing	with the nature and practices of international
		-
		marketing. They should feel equally confident to be
		able to distinguish international marketing
		mechanics from the domestic marketing models
		and approaches.
		They would be far more equipped to design and
		participate in designing an international marketing
		strategy.
		The spin-off benefits to the participants should be
		to develop in them a right attitude, inject
		enthusiasm and hone their interactive ability as they
		address the issues and challenges of operating in
		the international markets.
	Marketing Research	Marketing Research Department's Goals-
		Progmatic, Selective, and Evaluative, Marketing
		Decision Support System (MDSS) - Scope &
		Significance
		The Market and Sales Analysis, Sales forecasting –
		objective and subjective methods, Test marketing,
		Industrial versus consumer marketing research.

Capital Market	To enable students to acquire sound knowledge,
and Financial Services	concept and structure of capital market and
	financial services.
Industrial	To study the basic concepts of Industrial Finance.
Economic Environment	To study the effects of New Economic Policy.
	To study the impact of Labor reforms on Industries
Recent Advance in	To familiarize the students with the recent
<b>Business Administration</b>	advancements in business administration
	To develop an understanding about tools and their
	application in the business.
Project Work in Business	To develop research attitude of the students.
Administration	To enrich the ability of research work among the
	students.
Recent Advantages	Process of Creating a Marketing Strategy. Global v/
in Marketing	s Local Marketing Strategy.
	Concept, Definition and Importance. Single Brand
	Retail,
	Concept and Definition. Multi Brand Retail –
	Concept and Definition. History of FDI in Single
	Brand retail in India. History of FDI in Multi Brand
	Retail in India.
Project Work in advance	To develop research attitude of the students.
Marketing	To enrich the ability of research work among the
	students.

## **BATCHLAR OF ART**

## Programme Outcomes: B.A

<b>B.</b> A.	After completion of the graduation in the faculty of Arts, the student have	
	<ul> <li>Achieved competence in the subjects of the concerned discipline comprehended the basic concepts, fundamental principles, theories in the above mentioned subjects</li> <li>Acquired holistic development of the students with respect to aesthetic, mental, moral, intellectual aspects that will lead to a healthy society</li> <li>Understood the interdependence and interface of literature and social sciences have become able to think of the solutions to the existing social problems</li> <li>Gained the analytical ability to analyze critically the literature and social issues, raise questions and find solutions</li> <li>Learned to identify the relevance of socio-political, socio-economical changes in the context of the development of the society</li> <li>Learned to prioritize the human values to the material prosperity</li> <li>Achieved linguistic competence and skill of appreciating literature</li> <li>Understood the importance of environmental awareness in order to maintain equilibrium in nature.</li> <li>Acquired skills in fine and performing arts</li> <li>Developed creative and critical perspectives enabling them to be writers, editors, poets and literary artists.</li> <li>Integrated the values of social justice, democracy and national pride</li> <li>Created opportunities for self-employability and formed themselves as entrepreneurs</li> <li>Imbibed the soft skills like positive thinking, time management, communication skills which have made them multidimensional and responsible citizens.</li> </ul>	

### **DEPARTMENT OF MARATHI**

### PROGRAMME - SPECIFIC OUTCOMES: B.A. MARATHI

B.A. MARATHI	After completion of B.A. (Marathi) students will able to	
	<ul> <li>Develop Attitude of Literary Forms (Marathi Story, Drama, LalitGadya, Aatmkathan&amp; Novel )</li> <li>Develop Reading, Writing &amp; Communication Skills of students.</li> <li>Get Information about the history of Medieval Marathi Literature.</li> <li>Get Information about Literary Theory.</li> <li>Get Information about the history of MODERN Marathi Literature.</li> <li>Develop Attitude of Marathi Linguistics &amp; Grammar.</li> </ul>	

#### DEPARTMENT OF MARATHI

Class	Course	Outcomes (Students will be able to)
B.A. (Marathi)	एफ.वाय.बी.ए.	<ol> <li>मराठी भाषा, मराठी साहित्य आणि मराठी संस्कृती यांचे अध्ययन करणे.</li> </ol>
	(सत्र.१-	२. साहित्यविषयक आकलन, आस्वाद आणि मूल्यमापनक्षमता विकसित
	११०२१А,	करणे.
	सत्र.२-	३. साहित्यभ्यासातून जीवनविषयक समज विकसित करणे.
	११०२२ B)	४. मराठी भाषेची उपयोजनात्मक कौशल्ये विकसित करणे.
	एस.वाय.बी.ए.	१. शुध्दलेखनाची ओळख करून देणे.
	(जनरल)२०२७	२. पारिभाषिक संज्ञांची ओळख करून देणे.
		३. चरित्र-आत्मचरित्र या साहित्यप्रकारांच्या तात्त्विक घटकांचे ज्ञान करून देणे.
		४. आधुनिक मराठी साहित्यातील निवडक चरित्र–आत्मचरित्रात्मक
		वेच्यांचे आकलन, आस्वाद आणि मूल्यमापन करण्याची क्षमता
		विद्यार्थ्यांमध्ये निर्माण करणे.
	एस.वाय.बी.ए.	१. मराठी साहित्यप्रकारांच्या तात्त्विक घटकांचे ज्ञान देणे.
	(स्पेशल-	२. वेगवेगळ्या कालखंडातील मराठीतील अभिजात साहित्यकृतींचा
	१)२०२८	संस्कार घडविणे. साहित्याविषयीची अभिरूची निर्माण करणे.
		३. साहित्यकृतीला मुक्त प्रतिसाद देण्याची क्षमता विकसित करणे.
		४. साहित्यकृतीचे आकलन,आस्वाद आणि मूल्यमापन करण्याची दृष्टी निर्माण करणे.
		५. साहित्याचा सूक्ष्म पातळीवर अभ्यास करण्याची क्षमता विकसित
		करणे.
	एस.वाय.बी.ए.	<ol> <li>६. पदव्युत्तर अभ्यास करण्याची पूर्वतयारी करणे.</li> <li>१. विशेषस्तरावर अभ्यासाचा प्रारंभ होत असताना, मराठी साहित्याच्या</li> </ol>
	(स्पेशल-	ऐतिहासिक परंपरेचे स्थूल ज्ञान करून देणे.
	२)२०२९	२. विशिष्ट कालखंडाच्या पार्श्वभूमीवर साहित्यामागील प्रेरणा, प्रवृत्तीचे
		ज्ञान करून देणे.
		३. साहित्यप्रकारांच्या विकसनशील परंपरेचे स्थूल ज्ञान करून देणे.
		४. पदव्युत्तर अभ्यास करण्याची पूर्वतयारी करणे.
	टी.वाय.बी.ए.	१. आधुनिक मराठी साहित्यातील विविध साहित्याप्रकारांचा परिचय
	(जनरल)३०२७	वाढवणे.
		२. नेमलेल्या कलाकृतींच्या संदर्भात साहित्यपरंपरेचा स्थूल परिचय करून देणे.
		२२० ३.भाषेचे यथोचित आकलन करण्याची व वापर करण्याची यथायोग्य
		क्षमता विकसित करणे.
		४. निबंध व प्रवासवर्णन या साहित्यप्रकारांचे तात्त्विक विवेचन करणे.
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टी.वाय.बी.ए.	१.साहित्याचे स्वरूप समजावून घेणे.	
(स्पेशल-	२.साहित्याची प्रयोजने समजावून घेणे.	
३)३०२८	३.साहित्यनिर्मितीची प्रक्रिया समजावून घेणे.	
	४.साहित्याची भाषा समजावून घेणे.	
	५.साहित्याची आस्वाद प्रक्रिया समजावून घेणे.	
	६.साहित्यिक अभिरूची समजावून घेणे.	
	७.साहित्य आणि समाज यातील परस्परसंबंध समजावून घेणे.	
	८.साहित्यप्रकारांची संकल्पना समजावून घेणे.	
	९.वाङ्मयीन मूल्ये समजावून घेणे.	
टी.वाय.बी.ए.	१.भाषेचे स्वरूप व कार्य, भाषेच्या अभ्यासाचे महत्त्व, भाषेच्या	
(स्पेशल-	अभ्यासाची प्रमुख अंगे जाणून घेणे.	
४)३०२९	२.भाषा म्हणजे काय व तिचे मानवी जीवनातील कार्य व महत्त्व जाणून	
	घेणे.	
	३.वेगवेगळ्या भाषाभ्यासपध्दतींचे वेगळेपण व महत्त्व जाणून घेणे.	
	४.स्वननिर्मितीची प्रक्रिया समजावून घेणे.	
	५.वागिंद्रियांची रचना व कार्य समजावून घेणे.	
	६.स्वनविज्ञान, स्वनिम संकल्पना आणि मरठीची स्वनिम व्यवस्था	
	जाणून घेणे.	
	७.मराठीची रूपिमव्यवस्था समजावून घेणे.	
	८.वाक्यविन्यास व अर्थविन्यास या भाषावैज्ञानिक संकल्पनांचा	
	मराठीच्या संदर्भात स्थूल परिचय.	
	९.ऐतिहासिक भाषाभ्यासपध्दतीचे स्वरूप व महत्त्व लक्षात घेणे.	
	१०.भाषाकुलाची संकल्पना जाणून घेवून मराठी भाषेच्या उत्त्पतीचा	
	अभ्यास करणे.	
	११.मराठी भाषेचा उत्त्पतीकाळ जाणून घेवून तत्कालीन भाषिक	
	स्थित्यंतरांचा आढावा घेणे.	
	१२.टप्याटप्याने भाषा म्हणून मराठीच्या वाटचालीचा ऐतिहासिक	
	आढावा	
	घेणे.	
एफ.वाय.बी.कॉम.	१. विविध क्षेत्रातील भाषा व्यवहाराचे स्वरूप व गरज समजावून देणे.	
(सत्र.१-	२. या व्यवहार क्षेत्रातील मराठी भाषेचे स्थान स्पष्ट करणे व त्यातील	
११७ В,	मराठीच्या प्रत्यक्ष वापराचा अभ्यास करणे.	
सत्र.२-	<ol> <li>विविध क्षेत्रिय मराठी भाषेच्या वापराची कौशल्ये विकसित करणे.</li> </ol>	
	४. विविध लेखनप्रकारांचा अभ्यास व प्रत्यक्ष लेखनाची कौशल्य	
१२७ B)	वापरण्यास सक्षम करणे.	
	५. विविध क्षेत्रातील कर्तृत्वान व्यक्तींच्या कार्याची व विचारांची ओळख	
	करून देणे.	
	६. विद्यार्थ्यांनमध्ये नैतिक, व्यावसायिक व वैचारिक मूल्यांची जोपासना	
	करणे.	

<ul> <li>एस .वाय.बी.एस्सी</li> <li>१. विद्यार्थ्यांनमध्ये मराठी विज्ञानसाहि</li> <li>२. विद्यार्थ्यांनमध्ये वैज्ञानिक जाणिवा</li> <li>(सत्र.१-</li> <li>३. विद्यार्थ्यांना विज्ञान, उद्योगातील वि</li> <li>८३१११,</li> <li>सत्र.२-</li> <li>४. विद्यार्थ्यांमध्ये लेखन, वाचन, आ</li> <li>८३११२)</li> <li>कौशत्य अधिकाधिक विकसित करणे</li> <li>५. भाषिक कौशल्यांचे विविध आवि</li> <li>परस्परसंबंधांचे ज्ञान विद्यार्थ्यांना करून</li> <li>६. वैज्ञानिक, कार्यालयीन, व्यावसानि</li> <li>होणाऱ्या वापराची माहिती देत पारिभा करून देणे.</li> </ul>	वेविध प्रवाह, संधी यांचा परिचय ाकलन आणि संभाषण ही भाषिक ाष्कार आणि प्रसारमाध्यमे यांच्या । देणे. येक आदी कामकाजात मराठीच्या

# **DEPARTMENT OF HINDI**

	After completion of D. A. Hindi student will all to	
B.A. HINDI	After completion of B. A. Hindi student will able toPSO1. To understand various genres of literature.	
	PSO2. To develop the approach of literary forms.	
	PSO3. To develop Reading, writing and communication skills.	
	PSO4. To understand various periods of Hindi literature with	
	special characteristics.	
	PSO5. To understand and evaluate the literary works on the	
	foundation laid by authors.	
	PSO6. To get information about literary theories.	
	PSO7. To obtain linguistics and grammatical knowledge of Hindi	
	language	
Programme	बी.ए. हिंदी की पाठ्यचर्या अध्ययन के पश्चात हिंदी का छात्र	
Specific outcomes	निम्नांकित विशिष्ट परिणाम प्राप्त कर सकेगा :	
	PS01. साहित्य की विभिन्न विधाओं का परिचय प्राप्त होगा।	
	PS02. साहित्यिक रूपों का दृष्टिकोण विकसित होगा।	
	PS03. पठन, लेखन और संवाद कौशल का विकास होगा।	
	PS04. हिंदी साहित्य के विभिन्न कालों के बारे में विशेष विशेषताओं	
	के साथ जानकारी प्राप्त होगी।	
	PS05. विद्वानों द्वारा रखी गई नींव के आधार पर साहित्यिक कार्यों	
	जानकारी प्राप्त होगी।	
	PS06. साहित्यिक सिद्धांतों के बारे में जानकारी प्राप्त होगी।	
	PS07. हिंदी भाषाविज्ञान और व्याकरण की जानकारी प्राप्त होगी।	

Class	Course	Outcomes
FYBA	हिंदी वैकल्पिक	C01. छात्रों को हिंदी साहित्य का परिचय प्राप्त होगा 1
	प्रश्नपत्र	CO2. हिंदी भाषा में संप्रेषण कौशल विकसित होगा 1
		CO3. मौलिक लेखन की ओर रुझान बढेगा 1
		CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा 1
SYBA	हिंदी सामान्य	C01. गद्य-पद्य साहित्य विधाओं का परिचय होगा 1
	पेपर २	CO2. प्रयोजनमूलक हिंदी की जानकारी प्राप्त होगी1
	(२०९७)	CO3. लेखन कौशल विकसित होगा 1
	हिंदी भाषा का	CO1. भाषा कि परिभाषा और स्वरूप का संज्ञान होगा।
	विकास	CO2. हिंदी बोलयों की जानकारी प्राप्त होगी।
	(२०९८)	CO3. भाषाविज्ञान की सामान्य जानकारी प्राप्त होगी।
	उपन्यास,	CO1. मध्यकालीन साहित्य की जानकारी प्राप्त होगी।
	नाटक तथा	CO2. उपन्यास विधा की जानकारी प्राप्त होगी।
	मध्ययुगीन हिंदी	CO3. नाटक विधा की जानकारी प्राप्त होगी।
	काव्य (२०९९)	
ТҮВА	हिंदी सामान्य	CO1. आत्मकथा साहित्य का परिचय होगा।
	पेपर ३	CO2. काव्य नाटक विधा का परिचय होगा।
	(३०९७)	CO3. प्रयोजानमूलक हिंदी कि जानकारी प्राप्त होगी।
	हिंदी साहित्य	CO1. हिंदी साहित्य तथा काल विभाजन कि जानकारी प्राप्त
	का इतिहास	होगी।
	(30%)	CO2. हिंदी साहित्य के विभिन्न कालों के बारे में विशेषताओं
		के साथ जानकारी प्राप्त होगी।
		CO3. हिंदी साहित्य की गद्य-पद्य विधाओं के विकास का
		परिचय होगा।
	काव्यशास्त्र	CO1. भारतीय काव्यशास्त्र का परिचय होगा।
	(३०९९)	CO2. पाश्चात्य काव्यशास्त्र का परिचय होगा।
		CO3. काव्यशास्त्रीय नियमों का परिचत प्राप्त होगा।
FYBCOM	हिंदी ऐच्छिक	CO1. साहित्य और वाणिज्य का परस्पर संबंध प्रतिपादित
	पेपर	होगा।

		CO2. वाणिज्य और साहित्य के बीच पुल बांधा जाएगा।
		CO3. वाणिज्य हेतु संवाद कौशल विकसित होगा।
SYBSc	हिंदी ऐच्छिक	001. साहित्य और विज्ञान का परस्पर संबंध प्रतिपादित
	पेपर	होगा।
		CO2. विज्ञान और साहित्य के बीच पुल बांधा जाएगा।
		CO3. व्यवहारिक हिंदी भाषा की जानकारी प्राप्त होगी।

## **DEPARTMENT OF ENGLISH**

Class	Course	Outcomes
F.Y.B.Com	COMPULSORY	The students are able to use English Language
I'. I .D.Com	ENGLISH	efficiently
		Communicative skills are enhanced
		The verbal and non-verbal skills of communication are
		developed.
		The students learned the soft skills.
FYBA	COMPULSORY	The students gain communicative competence required
	ENGLISH	for everyday communication
		The students start vocabulary building for effective
		communication.
		The students get introduced to soft skills.
		The students could express themselves in oral and
		written communicative situations
		Students use the values learnt through literary works.
FYBA	OPTIONAL	Students use the values learnt through literary works.
	ENGLISH	The students gain linguistic & communicative
		competence
		The students get introduced to the sounds of English.
		Development of the comprehensive ability of students
		Inculcation of moral and human values among students.
		The students develop literary sensibility.
		Understanding of the basic forms of literature.
SYBA	COMPULSORY	The students learned to appreciate literature
	ENGLISH	Oral and written communication improved.
		Vocabulary is enhanced
		The students learned to make proper use of grammar
		The students learned to use English efficiently.
SYBA	General Paper -2	They understood the difference between literary and
	(Introduction to	ordinary language
	Study	They became aware of fiction and short story
	of English Language	The students were introduced to linguistics.
	and Literature)	The students can appreciate literature critically.
SYBA	ENGLISH Special	The Students learned performing arts
	Paper -I	The students became aware of the genre of drama
	(Appreciating	The students learned the moralities of human life
	Drama)	They learned value education through literature
SYBA	ENGLISH Special	The syllabus can implement the values of literature in
	Paper -II	life.
	(Appreciating	The students develop approaches to appreciate literary

	Poetry)	works.
ТҮВА	Compulsory English	The students develop interpretative ability to study poetry. The students exercise communication skills effectively. The students develop literary abilities.
		The students learn about profession-specific soft skills The students understand the basic concept of literary genre, poem, prose and stories
ТҮВА	Special English-G-III (Introduction to	The students develop analytical competence to study language & literature.
	Language & Literature)	The students develop the ability use language appropriately
ТҮВА	Special Paper-III (Appreciating Fiction)	The students are exposed to Indian writing in English and American literature. The students are exposed to social, political and cultural background. The students develop the critical understanding literature.
ТҮВА	Special Paper-IV (Literary Criticism and Theory)	The students developed interpretative abilities. The students leaned to analyze, interpret and evaluate literature. The students became aware of different critical approaches

# **DEPARTMENT OF GEOGRAPHY**

Class	Course	Outcomes
	Physical	CO-1. Students have become able to conceptualize the
	Geography	elements of physical features and basic concepts in Physical
	(110A)	geography
		CO-2. Students have become able to imagine and recognize
		the major topographical, geological, soil and natural
		vegetation regions of local and global level
		Co-3. Students have applied their subject knowledge with
		help of GIS based open source software in the day today life.
		CO-4. Students have become able to examine the various
		issues, problems and challenges associated with the physical
F.Y.B.A		regions.
		CO-5. Students have develop life-long learning skills and
		keep them engaed in updating Geography related knowledge.
	Human	CO-1. The student have understand demographic
	Geography	composition
	(110B)	CO-2. Students have imagine and recognize urbanization,
		population density and literacy
		CO-3. The students have identified and describe social,
		cultural, economic and population dynamics of society.
		CO-4. Students have able to understand patterns and
		processes of population growth and its implications
	Environmental	CO-1. Gain knowledge about concept, scope of
	Geography	environmental geography and components of environment.
	(2207)	CO-2.Develop an idea about human-environment
		relationships.
		CO-3. Build an idea about ecosystem.
		CO-4. Know about environmental programmes and policies.
	Population	CO-1. Students have understood the history of population.
	Geography	CO-2. Gain the knowledge about data collection of
	(2208)	population and interpretation.
S.Y.B.A		CO-3. Students have become able to understand population
		policy
		CO-4. Build an idea about population growth and
		distribution of population.
		CO-5. Know about population –resource relationship.
		CO-6. Gain knowledge different aspects of population
		geography.
	Fundamentals of	CO-1. Gain knowledge of different types of surveying
	Geographical	instruments like Dumpy level and Theodolite with
	Analysis (2209)	environment.

		CO- 2. Know about diagrammatic data presentation like line,
		bar and circle.
		CO-3. Develop an idea about different types of thematic
		mapping techniques
		CO-4. Learn the significance of field work in geographical
		studies.
		CO-5. Understand the meaning of field and identifying the
		case study.
	Geography of	CO-1. Student can know about their own countries land
	India (3207)	formation, climate and natural vegetation.
		CO-2. They understand the economic resources of India.
		CO-3. They understand the social distribution of population
		of their country.
		CO-4. Develop an idea about regionalization of India.
	Agricultural	CO-1. Understand the concept of economic activity, factors
	Geography	affecting location of agriculture.
	(3208)	CO-2. Gain knowledge about different types of agriculture.
		CO-3. Students have become able to apply modern technical
		Agricultural activities.
T.Y.B.A		CO-4. To enable students to apply Previously knowledge in
		Problems and Prospects in agriculture
	Techniques of	CO-1. Gain knowledge about topographical maps and apply
	Spatial Analysis	this knowledge in ground surface.
	(3209)	CO-2. Know about data presentation and interpretation
		CO-3. Learn to use tabulation of data.
		CO-4. Gain knowledge about association and correlation.
		CO-5. Learn the significance of field work in geographical
		studies.
		CO-6. Understand the meaning of field and identifying the
		case study.
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## **DEPARMENT OF ECONOMICS**

<b>B.A. Economics</b>	After successful completion of three year degree program in
	Economics a student should be able to;
Programme	PO-1.attained knowledge with facts and figures related to subjects
Outcomes	of the concerned discipline.
	PO-2.Understood the basic concepts, fundamental principles, and
	various theories in the above mentioned subjects.
	PO-3.Realized the importance literature in creating aesthetic,
	mental, moral, inteluctual development of an individual and increasing a healthy society.
	PO-4.Understood how issue in social science influence literature and how literature can provide solutions to the social issues.
	PO-5.Gained the analytical ability to analyze critically the literature
	and social issue, appreciate the strength and suggest the
	improvement for better results. PO-6.Convinced himself/herself that study of literature and
	social sciences not only help to evolve better individual and
	better society but also help to make the life of an individual
	more happy and meaningful.
	PO-7.Participated in various social and cultural activities
	voluntarily.
	PO-8.Written articles, novels, stories to spread the message of
	equality, nationality, social harmony, etc.
	PO-9.Emerged as a multifaceted personality who is self-dependent,
	earning his own bread and butter and also creating
	opportunities to do so.
	PO-10.Realized that pursuit of knowledge is a lifelong process and
	in combination with untiring efforts and positive attitude are
	necessary qualities for leading a successful life.
	PO-11.developed various communication skills such as reading, listing, and speaking etc.Which Will help in expressing ideas
	and views clearly and effectively.
Programme Specific	PSO-1. Understand basic concepts of Economics.
Outcomes	PSO-2. Analyze Economic behavior in practice.
	PSO-3.Understand the Economic way of thinking.
	PSO-4.analyze historical and content event from an economic
	perspective.
	PSO-5.Write clearly expressing an economic point of view.
	PSO-6.Find alternative approaches to economic problems
	through exposure to coursework in allied fields.
	PSO-7.Create student's ability to suggested solutions for various
	economic problems.

Class	Course	Outcomes
F.Y. A	Indian economic	CO-1. To familiarize the students with the recent
	enviournment-	developments in the Indian Economy
	11151/11152	CO-2. To provide the students with the background of the
		Indian Economy with focus on contemporary issues like
		economic environment.
		CO-3. To help the students to prepare for varied
		competitive examinations
		CO-4.To enables students to understand and comprehend
		the current business scenario, agricultural scenario and
		other sectorial growth in the Indian context. To make the
		student aware of the developments such as MSMEs, Digital
		Economy, E-Banking, BPO & KPO, etc.
S.Y.B. A	Financial	CO-1.To understands fundamentals of modern financial
	System	system.
	(G2)	CO-2 To understand the recent trends and developments in
		banking system.
		CO-3 To understand the role of the Reserve Bank of India in
		Indian financial system.
		CO-4 To provide the knowledge of various financial and
		non-financial institutions.
		CO-5 To provide the students the intricacies of Indian
		financial system for better
		Financial decision making.
S.Y.B. A	Micro	CO-1 To develop an understanding about subject matter of
	Economics	Economics.
	(S-1)	CO-2 To impart knowledge of microeconomics.
		CO-3 To clarify micro economic concepts
		CO-4 To analyze and interpret charts, graphs and figures
		CO-5 To develop an understanding of basic theories of
		micro economics and theirApplication.
		CO-6 To demonstrate that the theories discussed in class will
		usually be applied toReal-life situations.
		CO-7 To help the students to prepare for varied competitive
		examinations
<b>S.Y.B.</b> A	Macro	CO-1 To introduce students to the historical background of
	Economics	the emergence of Macroeconomics
	(S2)	CO-2 To familiarize students with the differences between
		microeconomics and macroeconomics
		CO-3 To familiarize students with various concepts of
		national income
		CO-4 To familiarize students with keynesian macroeconomic
		theoretical
		framework of consumption and investment functions
		CO-5 To introduce students to the role of money in an
		economy.
		CO-6 To introduce students to the conceptual and theoretical

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		frameworks of Inflation, deflation and stagflation, Business Cycle.
		To familiarize students with the conceptual and theoretical
		framework of business cycles
		CO-7 To introduce students to the role of monetary and fiscal policies in fulfilling the macroeconomic objectives of
		stability, full employment and growth.
		CO-8 To introduce students to the various instruments of
		monetary and fiscal policies
T.Y.B. A	G.3 Economic	CO-1The Study of Economic Development has gained
	Development &	importance because of stained interest of the developing
	Planning	countries in uplifting their economic conditions restructuring
		their economics toacquire greater diversity, efficiency and equity in Consonance with their priorities.
		CO-2.While fewsuccess stories can be counted, many have
		grappled with chronic problems of narrow economicBase,
		inefficiency and low standard of living. For this and other
		reasons, there have been manyApproaches to economic
		development. CO-3.In recent times, besides hard core economic
		prescriptions todevelopment, concern hitherto relegated to
		background, like education, health, sanitation and
		infrastructural development, have found place of pride in
		explaining the preference of various
T.Y.B. A	International Economics	CO-1.This course provides the students a thorough understanding and deep knowledge about the
	(S3)	basic principles that tend to govern the free flow of trade in
		goods and services at the global
		level.
		CO-2.The contents of the Paper spread over various
		modules, lay stress both on theory and
		Applied nature of the subject that have registered rapid changes during the last decade.
		CO-3.the students to know the impact of free trade and
		tariffs on
		the different sectors of the economy as well as at the macro
		level.
		CO-4.The students would also be well trained about the rationale of recent changes in the
		export import policies of India.
T.Y.B. A	Public Finance	CO-1.Role and functions of the Government in an economy
	(S4)	has been changing with the Passas of
		Time. The term 'Public Finance' has traditionally been applied to the package of those
		policies and operations which involve the use of tax and
		expenditure measures while
		budgetary policy is an important part to understand the basic
		problems of use of resources,
1	1	Distribution of Income, etc.

CO-2. There are vast array of fiscal institutions -tax systems,
expenditure programs budgetary procedures, stabilization
instruments, debt issues, levels of
government, etc., which Raise a spectrum of issues arising
from the operation of these
institutions. Further, the existence of externalities, concern
for adjustment in the distribution
of income and wealth, etc. require political processes for
their solution in a manner which
Combines individual freedom and justice.

# **DEPARTMENT OF POLITICS**

Programme Specific Outcomes	1. Understand basic concepts of political science.
	2. Analyze political behavior in practice.
	3. Understand the political ways of thinking.
	4. Analyze historical and current events from political perspective.
	5. Write clearly expressing political point of view.

Class	Course	Course outcomes	
FYBA	Introduction to	1. Students enable to understand the philosophy of Indian	
(G-I)	Indian Constitution	constitutions.	
	(1167)	2.Students enable to understand the basic doctrine of	
		Indian Constitution.	
		3. Students enable to understand the various Government	
		of Indian acts their provision and reforms	
		4. Students enable to appreciate the fundamental rights and	
		duties and the directive principle of state policy	
		5. Students enable to evaluate the evolution, functioning	
		and consequences of political parties in India.	
		6. Students enable to identify how electoral rules and	
		procedure in India effect election outcomes.	
SYBA	Political Theory	1. Students enable to appreciate the procedure of different	
(G-2)	(2167)	theoretical ideas in political theory.	
		2. Students enable to appreciate the procedure of different	
		theoretical ideas in political theory.	
		3. Students enable to understand the various traditional and	
		modern theories of political science.	
		4. Students enable to evaluate the theories of origin of the	
		state.	
ТҮВА	Political Ideologies	1.Students enable to understand the nature of Ideology.	
(G-III)	(3167)	2. Students enable to understand the contributions of various	
		ideologies in practices in the World.	
		3. Students enable to describe the role and impact of	
		different Political Ideologies in Politics.	
		4. Students enable to describe the significance of	
		Ideologies.	

### **PROGRAMME – SPECIFIC OUTCOMES**

### DEPARTMENT OF HISTORY

#### **BACHELOR ARTS (B.A.) IN HISTORY**

- **PSO 1 :-** Unerstand the basic themes,Concepts,Chronology and the scope of Indian History.
- PSO 2 :- Acquaint with range of issues related to Indian History that span distinct eras.
- **PSO 3:-** Understand the history of countries other than India with compaerative approach.
- **PSO 4** :- Think and orgue historically and critically in writing and discussing.
- **PSO 5:-** Prepare for various types of Competitive Examinations.
- **PSO 6:-** Critically recongnise the Social,Political,Economic and Cultural aspects of History.
- PSO 7:- The study of language and culture through ancient Historical Inscriptions, Stone Carvings and Pictures.

### **COURSE OUTCOMES**

#### DEPARTMENT OF HISTORY

Class	Course	Outcomes
<u>Class</u> FYBA	Course History Gen 1 Semester – 1 Early India:From Prehistory to the Age of the Mauryas. प्रारंभिक भारत :प्रागैतिहासिक काळ ते मौर्यकाळ	Outcomes CO1:_विद्यार्थ्यांना प्रागैतिहासिक काळ ते मौर काळा पर्यंत च्या इतिहासाचे आकलन होण्याच्य इष्टीने मार्गदर्शक करविणे. CO2:_भारतीय सभ्यता आणि संस्कृती तसेच राजकीय घराणी यांच्या उदय आणि विकासाला कारणीभूत असणाऱ्या घटकांवर प्रकाश टाकणे. CO3:-विद्यार्थ्यांना राजकीय व्यवस्था,कला,साहित्य,तत्वज्ञान,धर्म,विज्ञान आणि तंत्रज्ञान या विविध महत्वाच्या बाबींसाठी प्रारंभिक काळातील भारतीयांनी दिलेल्या योगदानाचा परिचय करून देणे. CO4:-प्रारंभिक भारतीय इतिहासाच्या अभ्यासाद्वारे विध्यार्थांमधील जिज्ञासा वृत्तीला चालना देणे.
	Semister – 2 Early India:Post Mauryan Age to the Rachtrakutas. प्रारंभिक भारत:उत्तर मौर्यकाळ ते राष्ट्रकुट काळ	पतिना पुण. CO1:-मोर्योत्तर भारताचा इतिहास हा मोर्या काळानंतरच्या घडामोडी आणि त्यामुळे भारताच मध्ययुगीन काळा कडे झालेली वाटचाल समजावून घेण्यासाठी महत्वाचे आहे. CO2:-हा पेपर अभ्यासल्याने विदयार्थ्यांना मोर्य काळानंतरच्या प्रादेशिक राज्यांच्या इतिहासाची थोडक्यात ओळख होते. CO3:-परकीय आकमनामुळे भारताच्या समाज,कला,स्थापना,अर्थव्यवस्था आणि राजकीय व्यवस्थेवर कसा परिणाम होत गेला हे समजते. CO4:-या अभ्यासक्रमातून विदयार्थ्यांच्या जिज्ञासा वृतीला चालना मिळते.
SYBA	History Gen 2 Semester – 1 Modern India (1857-1950) आधुनिक भारत	CO1:-आधुनिक भारताचा इतिहास अभ्यासतान १८५७ ते १९५० पर्यंतच्या भारताच्या इतिहासाचे अवलोकन होते. CO2:-स्वातंत्र्य मिळविण्यासाठीचे प्रयत्न उठाव होण्यासाठीचे विविध कारणे व अपयशाची कारण विदयार्थ्यांना ज्ञात होतात.

गांधींचे तत्वज्ञान व तत्कालीन घटनांचे ज्ञान विद्यार्थ्यांना होते,         CO2:-जमातवादाचा उदय आणि विकास कसा होत गेला हे मुस्लीम लीग.खिलाफत चळवळ,देशाची फाळणी या मुदद्यांच्या आधाराने होत गेले.याचे आकलन विदयार्थ्यांना होते.         CO3:-भारताच्या संविधानात्मक विकास वेगवेगळ्या कायदयाच्या आधारे कसा होत गेल हे विदयार्थ्यांना कळते,         CO4:-वंचीताच्या चळवळीचा इतिहास अभ्यासताना दलित,आदिवासी,कामगार,स्त्री चळवळीची ओळख करून देण्यात आलेली आहे,CO5:-भारताला स्वातंत्र्या मिळाल्यानंतर फाळणींची परिस्थिती व हेद्राबाद काश्मीर व जुनागढ विलीनीकरणासाठी केलेले प्रयत्न विदयार्थ्यांना माहिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्थ्वभूमी कारणे परिणाम याच्याशी विदयार्थी अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परिणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात.       CO4:-दुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक मरिणाम विदयार्थ्यांना जात होतात.		1	
CO4:-मारतीय राष्ट्रवादाची ओळख विदयाध्यांना होते.           CO5:-ब्रिटीश साम्राज्यात शिक्षण, वृत्तपत्रे, कायदे, प्रशासनाची ओळख विदयाध्यांना होते.           CO1:-अभ्यासक्रमाच्या द्वितीय सत्रात महात्म गांधींचे तत्वज्ञान व तत्कालीन घटनांचे ज्ञान विदयाध्यांना होते.           CO2:-जमातवादाघा उदय आणि विकास कसा होत गेला हे मुस्लीम लीग,खिलाफत चळवळ,देशाची फाळणी या मुद्द्यांच्या आधाराने होत गेले.याचे आकलन विदयाध्यांना होते.           CO3:-भारताच्या संविधानात्मक विकास वेगवेगळ्या कायद्याच्या आधारे कसा होत गेल हे विदयाध्यांना कळते.           CO4:-वंचीताच्या चळवळीचा इतिहास अभ्यासताना दलित,आदिवासी, कामगार,म्त्री चळवळीची ओळख करून देण्यात आलेती आहे,CO5:-भारताला स्वातंच्य मिळाल्यानंतर फाळणीची परिस्थिती ह हेतावत काश्मीर व जुनागढ विलीनकरणासाठी केलेले प्रयत्न विदयाध्यांना महिती होतात.           TYBA         Semester - 1 History of the World IN 20 th Century(1914-1992)         CO1:-विविध जागतिक संकल्पनांचा परिचय विदयाध्यांना होते CO2:-पहिल्या महायुद्धाची पार्थ्वभूमी कारणे परिणाम याच्याशी विद्यार्थ्यांना होतो.           CO3:रशियन राज्य क्रांतीची कारणे व परीणा यातून रशियातील झालेले बदत विदयार्थ्यांना जात होतात.         CO4:-दुक्वमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.			CO3:-सामाजिक धार्मिक चळवळी समाज
विदयार्थ्यांना होते.       CO5:-ब्रिटीश सामाज्यात         शिक्षण,वृतपत्रे,कायदे,प्रशासनाची ओळख       विदयार्थ्यांना होते.         CO1:-अभ्यासक्रमाच्या द्वितीय सत्रात महात्म् गांधींचे तत्वजान व तत्कातीन घटनांचे जान विदयार्थ्यांना होते.       CO1:-अभ्यासक्रमाच्या द्वितीय सत्रात महात्म् गांधींचे तत्वजान व तत्कातीन घटनांचे जान विदयार्थ्यांना होते.         CO2:-जमातवादाघा उदय आणि विकास कसा होत गेता हे मुस्तीम तीग.खिताफत चळवळदेशांची फाळणी या मुद्द्यांच्या आधाराने होत गेते.यांचे आकलन विदयार्थ्यांना होते.       CO3:-भारताच्या संविधानात्मक विकास वेगवेगळ्या कायद्याच्या आधारे कसा होत गेत हे विदयार्थ्यांना कळते.         CO4:-वंचीताच्या चळवळीचा इतिहास अभ्यासताना दतित.आदिवासी,कामगार,स्त्री चळवळीची भोळख करून देण्यात आलेती आहे,CO5:-भारताता स्वातंत्र्य मिळाल्यानंतर फाळणीची परिस्थिती व हैदाबाद काश्मीर व जुनागढ वितीनीकरणासाठी केतेते प्रयत्न विदयार्थ्यांना माहिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्थ्वभूमी कारणे परिणाम याच्यां होतता.         CO3:-रशियन राज्य क्रांतीची कारणे व परिणा यातून रशियातीत झालेते बदत विदयार्थ्यांना जात होतात.       CO4:-दुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.			सुधारकांचे प्रयत्न विदयार्थ्यांना समजतात.
CO5:-बिटीश साम्राज्यात         शिक्षण,वृत्तपत्रे,कायदे,प्रशासनाची ओळख         विदयार्थ्यांना होते.         CO1:-अभ्यासक्रमाच्या द्वितीय सत्रात महात्म         गांधींचे तत्वज्ञान व तत्कालीन घटनांचे जान         विदयार्थ्यांना होते.         CO2:-जमातवादाचा उदय आणि विकास कसा         होत गेला हे मुस्लीम लीग,खिलाफत         चळवळ,देशायी फाळणी या मुद्द्यांच्या         आधाराने होत गेले.याचे आकतन विदयार्थ्यांना         होते.         CO3:-भारताच्या संविधानात्मक विकास         वेगवेगव्या कायद्याच्या आधारो कसा होत गेल         हे विदयार्थ्यांना कळते.         CO4:-वंचीताच्या चळवळीचा इतिहास         अभ्यासताना दतित,आदिवासी,कामगार,स्त्री         चळवळीची ओळख करून देण्यात आलेले         आहे,CO5:-भारताला स्वातंत्र्य मिळाल्यानंतर         पाळणीची परिस्थिती व हेत्राबाद काश्मीर व         जुनागढ वितीनीकरणासाठी केलेते प्रयत्न         विदयार्थ्यांना महिती होतात.         TYBA       Semester - 1         History of the World IN 20 th         Century(1914-1992)         CO1:-विविध जागतिक संकल्पनांचा परिचय         विदयार्थ्यांना होते         CO2:-पहिल्या महायुद्याची पार्वर्व्य भ्रेमी कारणे परिणा         यातृत् रशियत राज्य क्रांतीची कारणे व परिणा         यातृत् रशियाती क झातंने बदत विदयार्थ्यांना मासिती होतात.         CO2:-राशिक्या महायंदीची कारणे व परिणाम <th></th> <td></td> <td>CO4:-भारतीय राष्ट्रवादाची ओळख</td>			CO4:-भारतीय राष्ट्रवादाची ओळख
शिक्षण,नुतपत्रे,कायदे,प्रशासनाची ओळख विदयार्थ्यांना होते.         C01:अभ्यासक्रमाच्या द्वितीय सत्रात महात्म गांधींचे तत्वज्ञान व तत्कालीन घटनांचे जान विद्यार्थ्यांना होते,         C02:-जमातवादाचा उदय आणि विकास कसा होत गेला हे मुस्लीम लीग,खिलाफत चळवळ,देशाची फाळणी या मुद्द्यांच्या आधाराने होत गेले. याचे आकलन विदयार्थ्यांना होते.         C03:-आरताच्या संविधानात्मक विकास वेगवेगळ्या कायद्याच्या आधारे कसा होत गेल हे विदयार्थ्यांना कळते,         C04:-वंचीताच्या चळवळीचा इतिहास अभ्यासताना दलित,आदिवासी,कामगार,स्त्री चळवळीची ओळख करून देण्यात आलेली आहे,C05:-आरताला स्वातंत्र्य मिळाल्यानंतर फाळणीची परिस्थिती व हंद्राबाद काश्मीर व जुनागढ वित्रीकरणासाठी केतेले प्रयत्न विदयार्थ्यांना महिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)         C03:-रशियत गात्तिक संकल्पनांचा परिचय विदयार्थ्यांना होतो C03:-रशियत ाज्यके बदल विदयार्थ्यांना माहिती होतात.         C04:-इकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.         C04:-हकुमशाहीचा उदय व त्यांचे सकारात्मक			विदयार्थ्यांना होते.
विदयार्थ्याना होते.         C01:-अभ्यासक्रमाच्या द्वितीय सत्रात महात्म गांधीचे तत्वज्ञान व तत्कालीन घटनांचे जान विदयार्थ्यांना होते.         C02:-जमातवादाचा उदय आणि विकास कसा होत गेला हे मुस्लीम लीग.खिलाफत चळवळ,देशाची फाळणी या मुद्द्यांच्या आधाराने होत गेले.याचे आकलन विदयार्थ्यांना होते.         C03:-आरताच्या संविधानात्मक विकास वेगवेगळ्या कायद्याच्या आधारे कसा होत गेल हे विदयार्थ्यांना कळते,         C04:-वंचीताच्या चळवळीचा इतिहास अभ्यासताना दलित.आदिवासी.कामगार.स्त्री चळवळीची ओळख करून देण्यात आलेसे कासगार. कोळणीची परिस्थिती व हेदाबाद काश्मीर व जुनागढ विलीनीकरणासाठी केलेते प्रयत्न विदयार्थ्यांना महिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)       C01:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना महायुद्धाची पार्थ्वभूमी कारणे परिणाम याच्याशी विद्यार्थी अवगत होतो.         C03:-रशियन राज्य क्रांतीची कारणे व परिणा यातून रशियातील झालेते बदल विदयार्थ्यांना माहिती होतात.       C04:-बुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.			CO5:-ब्रिटीश साम्राज्यात
TYBA       Semester - 1         History of the World IN 20 th Century(1914-1992)       Co1:-अम्यासक्रमाच्या ट्वितीय संग्रत महात्म         TYBA       Semester - 1         History of the World IN 20 th Century(1914-1992)       Co1:-विविध जागतिक संकल्पनांचा परिचय         विदयार्थ्यांना होते       CO3:-आरताच्या संविधानात्मक विकास         वेगवेगळ्या कायद्याच्या आधारे कसा होत गेल       हे विदयार्थ्यांना कळते,         CO4:-वंचीताच्या चळवळीचा इतिहास       अभ्यासताना दतित,आदिवासी,कामगार,स्त्री         चळवळीची ओळख करून देण्यात आलेले       आहे,CO5:-आरताला स्वातंत्र्या मिळाल्यानंतर         पाळणीची परिस्थिती व हेद्राबाद काश्मीर व       जुनागढ वितीनीकरणासाठी केलेले प्रयत्न         विदयार्थ्यांना होते       CO2:-पहिल्या महायुद्धाची परिचय         मांstory of the World IN 20 th Century(1914-1992)       Co1:-विविध जागतिक संकल्पनांचा परिचय         विदयार्थ्यांना होते       CO2:-पहिल्या महायुद्धाची पार्थ्वभूमी कारणे परिणाम याच्याशी विद्यार्थ्यांना नात         माहिती होतात.       CO3:-पशिल्या महायुद्धाची पार्थ्वभूमी कारणे परिणाम याच्याशी विद्यार्थ्यांना नात         माहिती होतात.       CO4:-बुकुमशाहीचा उदय व त्यांचे संकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना नात			शिक्षण,वृत्तपत्रे,कायदे,प्रशासनाची ओळख
गांधींचे तत्वज्ञान व तत्कालीन घटनांचे जान विद्यार्थ्यांना होते,         CO2:-जमातवादाचा उदय आणि विकास कसा होत गेला हे मुस्लीम लीग,खिलाफत चळवळ,देशाची फाळणी या मुदद्यांच्या आधाराने होत गेले.यांचे आकलन विदयार्थ्यांना होते.         CO3:-भारताच्या संविधानात्मक विकास वेगवेगळ्या कायदयाच्या आधारे कसा होत गेल हे विदयार्थ्यांना कळते,         CO4:-वंचीताच्या चळवळीचा इतिहास अभ्यासताना दलित,आदिवासी,कामगार,स्त्री चळवळीची ओळख करून देण्यात आलेली आहे,CO5:-भारताला स्वातंत्र्या मिळाल्यानंतर फाळणींची परिस्थिती व हेद्राबाद काश्मीर व जुनागढ विलीनिकरणासाठी केलेले प्रयत्न विदयार्थ्यांना माहिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्थ्वभूमी कारणे परिणाम याच्याशी विदयार्थी अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परेणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात.       CO4:-दुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक मरिणाम विदयार्थ्यांना जात होतात.			विदयार्थ्यांना होते.
Image: semigrave set of the set of			CO1:-अभ्यासक्रमाच्या द्वितीय सत्रात महात्मा
TYBA       Semester - 1         History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक सहामंदीघी कारणे व परिणाम या त्व्र को बे ब्रायार्थ्या चा प्राई के बार प्राधारां के देव्यार्थ्यां न कळते,         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यां न होतो CO3:-प्राधित झाते कारणे व परिणाम या त्व्र को विदयार्थ्यां न होतो टायां च्या का कारणे व परिणाम विदयार्थ्यां न होतो CO3:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विद्यार्थ्यां अवगत होतो. CO3:-रिश्विम राज्य क्रांतीची कारणे व परिणाम यातून रशियातील झालेले बदल विदयार्थ्यां न नात होतात. CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यां ना नात होतात.			गांधींचे तत्वज्ञान व तत्कालीन घटनांचे ज्ञान
TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)			विद्यार्थ्यांना होते,
पळवळ,देशाची फाळणी या मुद्दयांच्या आधाराने होत गेले.याचे आकलन विदयार्थ्यांना होते.         CO3:-भारताच्या संविधानात्मक विकास वेगवेगळ्या कायद्याच्या आधारे कसा होत गेल हे विदयार्थ्यांना कळते,         CO4:-वंचीताच्या चळवळीचा इतिहास अभ्यासताना दलित,आदिवासी,कामगार,स्त्री चळवळीची ओळख करून देप्यात आलेली आहे,CO5:-भारताला स्वातंत्र्य मिळाल्यानंतर फाळणीची परिस्थिती व हैद्राबाद काश्मीर व जुनागढ विलेगिकरणासाठी केलेले प्रयत्न विदयार्थ्यांना माहिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)         CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विद्यार्थी अवगत होतो.         CO3:-राशियन राज्य क्रांतीची कारणे व परीणा यातून रशियातील झालेले बदता विदयार्थ्यांना माहिती होतात.         CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.         CO5:-जागतिक महामंदीची कारणे व परिणाम			CO2:-जमातवादाचा उदय आणि विकास कसा
पळवळ,देशाची फाळणी या मुद्दयांच्या आधाराने होत गेले.याचे आकलन विदयार्थ्यांना होते.         CO3:-भारताच्या संविधानात्मक विकास वेगवेगळ्या कायद्याच्या आधारे कसा होत गेल हे विदयार्थ्यांना कळते,         CO4:-वंचीताच्या चळवळीचा इतिहास अभ्यासताना दलित,आदिवासी,कामगार,स्त्री चळवळीची ओळख करून देप्यात आलेली आहे,CO5:-भारताला स्वातंत्र्य मिळाल्यानंतर फाळणीची परिस्थिती व हैद्राबाद काश्मीर व जुनागढ विलेगिकरणासाठी केलेले प्रयत्न विदयार्थ्यांना माहिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)         CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विद्यार्थी अवगत होतो.         CO3:-राशियन राज्य क्रांतीची कारणे व परीणा यातून रशियातील झालेले बदता विदयार्थ्यांना माहिती होतात.         CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.         CO5:-जागतिक महामंदीची कारणे व परिणाम			होत गेला हे मुस्लीम लीग,खिलाफत
होते.       CO3:-भारताच्या संविधानात्मक विकास वेगवेगळ्या कायद्याच्या आधारे कसा होत गेल हे विदयार्थ्यांना कळते,         CO4:-वंचीताच्या चळवळीचा इतिहास अभ्यासताना दलित,आदिवासी,कामगार,स्त्री चळवळीची ओळख करून देण्यात आलेली आहे,CO5:-भारताला स्वातंत्र्य मिळाल्यानंतर फाळणीची परिस्थिती व हैद्राबाद काश्मीर व जुनागढ विलीनीकरणासाठी केलेले प्रयत्न विदयार्थ्यांना माहिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विद्यार्थी अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परीणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात.       CO4:-दुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.			
TYBA       Semester - 1         History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना महाते CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना महिती होतात.         TVBA       Semester - 1 History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विद्यार्थ्यां अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परिणाम यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात.       CO3:-रशियन राज्य क्रांतीची कारणे व परिणाम यातून रशियातील झालेले बदल विदयार्थ्यांना नात होतात.			आधाराने होत गेले.याचे आकलन विदयार्थ्यांना
वेगवेगळ्या कायद्याच्या आधारे कसा होत गेल हे विदयार्थ्यांना कळते,         CO4:-वंचीताच्या चळवळीचा इतिहास अभ्यासताना दलित,आदिवासी,कामगार,स्त्री चळवळीची ओळख करून देण्यात आलेली आहे,CO5:-भारताला स्वातंत्र्य मिळाल्यानंतर फाळणीची परिस्थिती व हैद्राबाद काश्मीर व जुनागढ विलीनिकरणासाठी केलेले प्रयत्न विदयार्थ्यांना माहिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)         CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विदयार्थी अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परिणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात.         CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.         CO5:-जागतिक महामंदीची कारणे व परिणाम			होते.
हे विदयार्थ्यांना कळते,         CO4:-वंचीताच्या चळवळीचा इतिहास         अभ्यासताना दलित,आदिवासी,कामगार,स्त्री         चळवळीची ओळख करून देण्यात आलेली         आहे,CO5:-भारताला स्वातंत्र्य मिळाल्यानंतर         फाळणीची परिस्थिती व हैद्राबाद काश्मीर व         जुनागढ विलीनीकरणासाठी केलेले प्रयत्न         विदयार्थ्यांना माहिती होतात.         TYBA         Semester - 1         History of the World IN 20 th         Century(1914-1992)         CO1:-विविध जागतिक संकल्पनांचा परिचय         विदयार्थ्यांना होतो         CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे         परिणाम याच्याशी विद्यार्थी अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परीणा         यातून रशियातील झालेले बदल विदयार्थ्यांना         माहिती होतात.         CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक         व नकारात्मक परिणाम विदयार्थ्यांना जात         होतात.         CO5:-जागतिक महामंदीची कारणे व परिणाम			CO3:-भारताच्या संविधानात्मक विकास
CO4:-बंचीताच्या चळवळीचा इतिहास अभ्यासताना दलित,आदिवासी,कामगार,स्त्री चळवळीची ओळख करून देण्यात आलेली आहे,CO5:-भारताला स्वातंत्र्य मिळाल्यानंतर फाळणीची परिस्थिती व हेदाबाद काश्मीर व जुनागढ विलीनीकरणासाठी केलेले प्रयत्न विदयार्थ्यांना माहिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विद्यार्थी अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परिणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात.       CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.			वेगवेगळ्या कायद्याच्या आधारे कसा होत गेला
अभ्यासताना दलित,आदिवासी,कामगार,म्त्री चळवळीची ओळख करून देण्यात आलेली आहे,CO5:-आराताला स्वातंत्र्य मिळाल्यानंतर फाळणीची परिस्थिती व हैद्राबाद काश्मीर व जुनागढ विलीनीकरणासाठी केलेले प्रयत्न विदयार्थ्यांना माहिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विद्यार्थी अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परिणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात.       CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.			हे विदयार्थ्यांना कळते,
चळवळीची ओळख करून देण्यात आलेली आहे,CO5:-भारताला स्वातंत्र्य मिळाल्यानंतर फाळणीची परिस्थिती व हैदाबाद काश्मीर व जुनागढ विलीनीकरणासाठी केलेले प्रयत्न विदयार्थ्यांना माहिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विद्यार्थी अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परीणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात.       CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.			CO4:-वंचीताच्या चळवळीचा इतिहास
आहे,CO5:-आरताला स्वातंत्र्य मिळाल्यानंतर फाळणीची परिस्थिती व हैद्राबाद काश्मीर व जुनागढ विलीनीकरणासाठी केलेले प्रयत्न विदयार्थ्यांना माहिती होतात.         TYBA       Semester – 1 History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विद्यार्थी अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परिणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात.       CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.			अभ्यासताना दलित,आदिवासी,कामगार,स्त्री
TYBA       Semester - 1         History of the World IN 20 th       CO1:-विविध जागतिक संकल्पनांचा परिचय         विदयार्थ्यांना सोती       CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे         VTVBA       Co2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे         Co1:-विविध जागतिक संकल्पनांचा परिचय       विदयार्थ्यांना होतो         CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे       परिणाम याच्याशी विद्यार्थी अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परीणा       यातून रशियातील झालेले बदल विदयार्थ्यांना         माहिती होतात.       CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक         व नकारात्मक परिणाम विदयार्थ्यांना जात       होतात.         CO5:-जागतिक महामंदीची कारणे व परिणाम			चळवळीची ओळख करून देण्यात आलेली
जुनागढ विलीनीकरणासाठी केलेले प्रयत्न विदयार्थ्यांना माहिती होतात.         TYBA       Semester - 1 History of the World IN 20 th Century(1914-1992)       CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विद्यार्थी अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परीणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात.       CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.			आहे,CO5:-भारताला स्वातंत्र्य मिळाल्यानंतर
विदयार्थ्यांना माहिती होतात.         TYBA       Semester - 1         History of the World IN 20 th       CO1:-विविध जागतिक संकल्पनांचा परिचय         विदयार्थ्यांना होतो       CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे         CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे       परिणाम याच्याशी विदयार्थी अवगत होतो.         CO3:-रशियन राज्य क्रांतीची कारणे व परिणा       यातून रशियातील झालेले बदल विदयार्थ्यांना         माहिती होतात.       CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक         व नकारात्मक परिणाम विदयार्थ्यांना जात       होतात.         CO5:-जागतिक महामंदीची कारणे व परिणाम			फाळणीची परिस्थिती व हैद्राबाद काश्मीर व
TYBA         Semester - 1 History of the World IN 20 th Century(1914-1992)         CO1:-विविध जागतिक संकल्पनांचा परिचय विदयार्थ्यांना होतो CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विद्यार्थी अवगत होतो.           CO3:-रशियन राज्य क्रांतीची कारणे व परिणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात.         CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात.			जुनागढ विलीनीकरणासाठी केलेले प्रयत्न
History of the World IN 20 th       विदयार्थ्यांना होतो         Century(1914-1992)       CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे         परिणाम याच्याशी विद्यार्थी अवगत होतो.       CO3:-रशियन राज्य क्रांतीची कारणे व परीणा         यातून रशियातील झालेले बदल विदयार्थ्यांना       माहिती होतात.         CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक       व नकारात्मक परिणाम विदयार्थ्यांना जात         होतात.       CO5:-जागतिक महामंदीची कारणे व परिणाम			विदयार्थ्यांना माहिती होतात.
Century(1914-1992) Century(1914-1992) CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे परिणाम याच्याशी विद्यार्थी अवगत होतो. CO3:-रशियन राज्य क्रांतीची कारणे व परीणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात. CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात. CO5:-जागतिक महामंदीची कारणे व परिणाम	TYBA		CO1:-विविध जागतिक संकल्पनांचा परिचय
CO2:-पहिल्या महायुद्धाची पश्विभूमी कारण परिणाम याच्याशी विद्यार्थी अवगत होतो. CO3:-रशियन राज्य क्रांतीची कारणे व परीणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात. CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात. CO5:-जागतिक महामंदीची कारणे व परिणाम			विदयार्थ्यांना होतो
CO3:-रशियन राज्य क्रांतीची कारणे व परीणा यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात. CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात. CO5:-जागतिक महामंदीची कारणे व परिणाम		Century(1914-1992)	CO2:-पहिल्या महायुद्धाची पार्श्वभूमी कारणे व
यातून रशियातील झालेले बदल विदयार्थ्यांना माहिती होतात. CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना ज्ञात होतात. CO5:-जागतिक महामंदीची कारणे व परिणाम			परिणाम याच्याशी विद्यार्थी अवगत होतो.
माहिती होतात. CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात. CO5:-जागतिक महामंदीची कारणे व परिणाम			CO3:-रशियन राज्य क्रांतीची कारणे व परीणाम
CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक व नकारात्मक परिणाम विदयार्थ्यांना जात होतात. CO5:-जागतिक महामंदीची कारणे व परिणाम			यातून रशियातील झालेले बदल विदयार्थ्यांना
व नकारात्मक परिणाम विदयार्थ्यांना जात होतात. CO5:-जागतिक महामंदीची कारणे व परिणाम			माहिती होतात.
होतात. CO5:-जागतिक महामंदीची कारणे व परिणाम			CO4:-हुकुमशाहीचा उदय व त्यांचे सकारात्मक
CO5:-जागतिक महामंदीची कारणे व परिणाम			व नकारात्मक परिणाम विदयार्थ्यांना जात
			होतात.
विदयार्थ्यांचा साहिती होतान			CO5:-जागतिक महामंदीची कारणे व परिणाम
			विदयार्थ्यांना माहिती होतात.

Semister – 2	CO1:-दुसऱ्या महायुद्धाची पार्श्वभूमी कारणे व
	परिणाम विदयार्थ्यांना ज्ञात होतात.
	CO2:-दुसऱ्या महायुद्धानंतर जगात ज्या
	महासत्तांचा विजय झाला त्याचे ज्ञान होते.
	CO3:-सार्क,ओपेक,अलिप्ततावाद या संकल्पना
	विदयार्थ्यांना आकलन होते.
	CO4:-जागतिकीकरणाची संकल्पना
	विदयार्थ्यांना ज्ञात होते.