B.Sc. BIOCHEMISTRY		
Course code	Course title	Course outcomes
		Semester -1
BC1141	Perspectives, Methodology and Biomolecules-I	 CO1: Elicit the concepts of science CO2: Describe the evolution and scope of biochemistry as a science discipline. CO3: List out the different experimental approaches to study biochemical processes.
		concentration and pH.
		Semester II
BC 1221	Biomolecules-II and Bioinformatics	CO1 : Elaborate the composition of proteins and their function
		CO2 : Detail the importance of genetic information carrier molecules in life
		CO3 : Recognize the scope and application of Bioinformatics
		CO4 : Perform statistical investigations related to biochemical problems
		CO5 : Identify application of information technology in biology
	1	Semester III
BC1341	Cellular Biochemistry	CO1: List out cell organelles and describe their structure and function
		CO2: Elaborate the different types of transport systems across cell membrane

		CO3: Explain types of cell divisionCO4: Outline the characteristics of cancer cells and mechanisms involved in cancer biologyCO5 Detail on the mechanism of interaction between cell and its environment
		CO6 : Classify enzymes; describe types of enzyme inhibition and regulation
		Semester IV
BC 1441	Techniques in Biochemistry	CO1 : Explain the principle, working and application of different microscopic, photometric, chromatographic,electrophoretic, centrifugation and radioactive techniques
		CO2: Select most suitable technique for the isolation and purification of biomolecules based on different criteria
BC 1442	Practical paper	
	Qualitative Analysis of Biomolecules	CO1 : Qualitatively analyse the type of biomolecule CO2 : Identify the subclass of each biomolecule by schematic analysis
		Semester V
BC1541	Physiology & Immunology	CO1: : Explain hemopoiesis and biochemical
		basis of blood group classification.
		cold base and water balance in the body
		CO3Remember structure of muscle. neuron
		and bone.
		CO4Classify hormones and explain the
		functions of hormones.

		CO5Describe various aspects in basic
		immunology
BC 1542	Bioenergetics and	CO1: Describe the bioenergetics of
	Metabolism	metabolic pathways.
		CO2: Elaborate the reactions and regulation
		involved in the metabolism of carbohydrates.
		CO3: List out the inborn errors of
		carbohydrate metabolism.
		CO4 : Enumerate the link between ETC and
		energy production in plant and animal cells.
BC1543	Food Science	CO1:Elaborate on the importance of human
D C1343	r oou Science	nutrition
		CO2 : Describe the chemical composition of
		different types of food
		CO_{2} : Explain the various food preservation
		tachniques ampleved
		CO4 identify the common adulterants in
		food
		CO5 : Coin translates shout the rate of
		COS :Gain knowledge about the role of
		microorganisms in food and nutrition
		CO6 :Explain the importance of food safety
		and management systems.
BC1544	Classical and	CO1 :Give an account of Mendelian and
	Molecular Genetics	non- Mendelian genetics.
		CO2 :Predict the type of inheritance of a
		trait/disease using pedigree analysis.
		trait/disease using pedigree analysis. CO3 :Explain the organization of
		trait/disease using pedigree analysis. CO3 :Explain the organization of chromatin and events during gene

		CO4 :Illustrate the consequences of
		different types of mutations and DNA-
		repair systems
		CO5 : Depict the concepts of gene
		regulation in prokaryotic cells
		CO6 : Describe the methods involved in rDNA
		technology
BC1545	Practical paper	CO1: to quantitatively analyze different
	Quantitative Analysis	biomolecules in a given test sample.
	of Biomolecules	
BC 1551 2	I ifectule Diseases	CO1 · Enumerate the different causes
D C 1331.2	Lifestyn Diseases	and risk factors of life style diseases
	[Open Course]	like atherosclerosis hypertension stroke
		diabetes obesity nephritis and liver
		diseases
		CO2: List out the methods to diagnose
		the diseases and gain a basic knowledge
		regarding interpretation of the test results
		CO3 : Spell out the methods of prevention.
		treatment and management of the diseases.
		CO3 : Identify healthy and unhealthy life
		habits and adopt better life style
		Semester VI

BC 1641	Clinical Biochemistry	CO1 : List out the methods of clinical
		laboratory management and laboratory safety.
		CO2 :Describe the principle & procedure for
		studying clinical parameters used for
		diagnosis.
		CO3 : Detail the basic concepts of
		microbiology and pharmacology
BC 1642	Metabolism-II	CO1 :Describe the metabolism of linids
		nucleic acids amino acids and heme
		CO2 · Explain the role of enzymes involved
		under physiological and pathophysiological
		conditions.
		CO3: List out the inhorn errors of
		metabolism of above mentioned
		biomolecules.
		CO4 : Detail the processes involved in
		biological nitrogen fixation.
		CO5 : Enumerate the important
		detoxification processes in the body.
DC1642	Practical papar	CO1 : Quantitativaly analyza naromators of
DC1045	r racucai paper -	aliniant significance in blood and wring
		CO2: Detect the presence of shormal
		constituents in the urine sample
		constituents in the urme sample.
BC1644	Practical paper	CO1 : Quantitatively estimate the specific
		biomolecule in any given food sample.
		CO2 : Detect the presence of adulterants in
		different food samples.

BC	Analytical	CO1 : Perform phytochemical
1661.1	Biochemistry	analysis.
		CO2 : Identify the importance
	[Elective]	and impact of pesticides in life
		CO3 : Detect food adulteration
		CO4 : Elaborate standards for
		respective category of water
		CO5 : Recognize the effect of
		toxic metals in foods
		CO6 : Analyze toxicants in
		biological samples

B. Sc Botany		
Course Code	Course Title	Course outcome
	Semeste	r - I
BO 1141	Angiosperm Anatomy,	CO1: Understand the complexities of cell
	Palynology	wall organization, microscopic and
		submicroscopic structures
		CO2: Distinguishes various anatomical
		features of monocots and dicots with
		respect to permanent tissues and tissue
		system
		CO3: Identifies male and female
		gametophyte development in angiosperms
		CO4: Distinguishes monocot and dicot
		embryo and features of pollen grains
	Sem	ester II
BO 1221	Methodology and Perspectives in Plant Sciences	CO1: Familiarizes the students with the
		fundamental characteristics of science
		CO2: Develops an idea about involvement
		of science in improvement of human life
		CO3: Develops skills to interpret scientific
		data using basic statistical methods
		CO4: Creates skills to prepare specimens
		for microscopic and anatomical studies
		CO5: Prepares buffers, measures pH,
		separates plant pigments and construction
		of absorption spectrum of sample
BO 1222	Practical - I	CO1: Anatomy of stem and roots of dicots
		and monocots
		CO2: Microscopic preparations of curd for
		bacterial identification
		CO3: Principle and working of different
		instruments

Semester III		
BO 1341	Microbiology, Phycology,	CO1: Micropreparation can be prepared
Mycology, Lichenolog Plant Pathology	Mycology, Lichenology and Plant Pathology	and thallus structures of lower groups
		identified
		CO2: Create awareness about various
		microbes, structure and economic
		importance
		CO3: Identification of plant diseases,
		etiology of pathogens and control measures
		CO4: Preparation of fungicides
	Semester	· IV
BO1441	Bryology, Pteridology,	CO1: Micropreparations of thallus can be
	Gymnosperms and Paleobotany	conducted and understands the thallus
		structure of bryophytes, Pteridophytes and
		Gymnosperms
		CO2: Understands economic and
		ecological importance of lower froups
		CO3: Understands the fossilization and
		importance of paleobotany
BO 1442	Practical - II	CO1: Anatomical sectioning of lower
		forms
		CO2: Thallus structure identification
		CO3: Identification of different fossils
	Semeste	r V
BO 1541	Angiosperm morphology, systematic botany, economic botany, ethnobotany and	CO1: Identify different types of
		inflorescence, flowers, fruits
Pharmacognosy	Pharmacognosy	CO2: Familiarizes different types of plant
		classification
		CO3: Preparation of herbarium
		CO4: Understands the ethnobotanical and
		pharmacological significance of plants

BO 1542	Environmental studies,	CO1: Develops awareness about the
	Disaster management,	conservation and importance of natural
	Research methodology	resources
		CO2: Identifies different types of
		ecosystems
		CO3: Understands biodiversity and its
		conservation
		CO4: Awareness about the different types
		of disasters
		CO5: Identifies the importance of
		phytogeographical sites in India
		CO6: Students are trained about the
		various steps for the conduct of a research
		project
BO 1543	Cell Biology, Genetics and	CO1: Understands cell structure and cell
	Evolutionary biology	organelles
		CO2: Identifies various stages of mitosis
		and meiosis
		CO3: Able to work out problems in
		genetics
		CO4: Understands evolutionary principles,
		theories and speciation
BO 1551.1	Horticulture – Open course	CO1: Familiarization in horticulture and
		methods of gardening
		CO2: Understanding of flower
		arrangement and cut flowers
		CO3: Understand in landscaping, fertilizers
		and plant protection
	Semester	·VI

BO 1641	Plant physiology and Biochemistry	CO1: Understands photosynthesis,
		respiration, plant growth regulators,
		nitrogen metabolism
		CO2: Understands the macromolecules and
		their role in cell metabolism
BO 1642	Molecular biology, general	CO1: Understands DNA and its types
	informatics and bioinformatics	CO2: Understands molecular aspects og
		gene expression
		CO3: Awareness of features of computer
		and system software
		CO4: Recognizes the need for internet and
		cyber law
		CO5: Familiarizes phylogeny. Biological
		databases, sequence analysis and genomics
BO 1643	Biotechnology, Nanobiotechnology, Horticuture and Plant breeding	CO1: Preparation of culture solutions,
		sterilization, inouculation of explants,
		induction of callus and morphogenesis
		CO2: Familiarization of RAPD, RFLP and
		PCR
		CO3: Applications of tools and equipments
		of biotechnology
		CO4: Understanding of IPR
		CO5: Applications of nanomaterials
		CO6: Plant propagation through grafting,
		budding and layering
		CO7: Application for betterment in
		foodcrops
BO 1644	Practical - III	CO1: Identification of different families
		CO2: Economic importance of different
		crops and fruits
		CO3: Medicinal importance of plants

		CO4: Indentification of hydrophytes,
		halophytes and xerophytes
		CO5: Steps to prevent disasters
		CO6: Phytogeographical sites in India
		CO7: Study of various stages of cell
		division
		CO8: Understand Genetics problems and
		solving
BO 1645	Practical - IV	CO1: Setting up of different physiology
		experiments
		CO2: Conduct of different types of
		biochemical tests
		CO3: Conduct of plant propagation
		techniques and emasculation

B.Sc. CHEMISTRY		
Course code	Course title	Course outcomes
		Semester -I
CH 1141	INORGANIC CHEMISTRY I	CO1: Discuss the course of development of structure of atom.
		CO2:Apply rules for filling electrons in classifying elements into s,p,d and f blocks
		CO3:Define various scales of electro negativities and their applications
		CO4:Define Effective nuclear charge and Slater's rules
		CO5: Discuss about diagonal relationship and anomalous behaviour of hydrogen and other first element in each group.
		CO6: Correlate and predict general properties of s and p block elements based on their electronic configuration.
		CO7: Realize applications of s and p block elements in sustainable and renewable energy sources.
		CO8: Define various concepts of acids and bases.
		CO9:Understand reactions in non-aqueous solvents
		CO10:Realise various causes, effects and control measures of environmental pollution
		CO11: Review national movements for environmental protection.
	1	Semester -II
CH 1221 CI	CHEMISTRY –ITS ORIGIN, METHODOLOGY	CO1:Appreciate the development of scientific theories through years with specific examples
	AND IMPACTS	CO2:Develop curiosity and scientific attitude towards the application of chemistry in daily life
		CO3:Outline a procedure for experimentation

		CO4:Appraise the current development in Chemistry
		CO5:Identify the common ingredients of house hold synthetic products
		CO6: Discriminate and classify chemicals used as drugs, explosives.
		CO7:Get motivated in visiting chemical Industries
		CO8:Adopt safety measures in handling chemicals
		CO9:Draw titration curves and explain theory of volumetric titrations
		CO10:Select suitable indicators for acid base titration knowing the theories of acid base titration and indicators
		CO11:Develop computational skills
		CO12:Discuss separation techniques of filtration and chromatographic techniques
CH 1221	COMPUTER LAB FOR FOUNDATION COURSE II	CO1: Get acquainted with Computer Lab based instruction on the use of computer and internet in learning.
		CO2: Use of educational softwares, information mining from internet and using INFLIBNET/NICNET, NPTEL and VIRTUAL LABS OF MHRD.
		CO3: Learn Word processing and document preparation. Use of Spread sheets in Data handling and presentation
		CO4: Develop skill in chemical structure drawing and visualization of molecules using chemistry softwares
	S	Semester -III
CH 1341	INORGANIC CHEMISTRY I	CO1: Understand various theories of chemical bonding and their limitations.
		CO2: Predict stability of atoms and the nature of bonding between atoms.

		CO3:Discuss various applications of intermolecular interactions
		CO4: Understand chemistry of glass, silicates and silicones.
		CO5:Discuss chemistry of Boron compounds, oxy acids and oxides of Phosphorous
		CO6:Understand refractory carbides, nitrides, borides and silicides
		CO7:Describe various types of halogen compounds
		CO8:Understand chemistry of noble gas
		CO9: Understand inorganic polymers and their applications.
		CO10:Distinguish between types of nuclear reactions
		CO11: Describe measurement of radioactivity.
		CO12: Discuss applications of radioactivity in various fields.
		CO13:Understand introductory concepts of Nano chemistry
		CO14:Suggest methods of synthesizing nano materials
		CO15: Appreciate the variety of applications of nanomaterials.
		Semester -IV
CH 1441	ORGANIC	CO1: Recall the fundamentals of organic
	CHEMISTRY – I	chemistry.
		CO2: Apply the electron displacement effects to compare acidity, basicity and stability of organic compounds/intermediates.
		CO3: Judge the reaction mechanism of substitution and elimination on the basis of the structure of alkyl halides.
		CO4: Summarise the chemistry of reaction intermediates.

		 CO5: Discuss optical, geometrical and conformational isomerism of organic compounds. CO6: Use CIP rules to predict the configuration of organic compounds CO7: Differentiate photochemical and thermal reactions. CO8: Discuss theory of color and constitution and the method of synthesis of dyes CO9: Explain aromaticity, orientation effect and mechanism of aromatic electrophilic substitution. CO10: Demonstrate the method of determination of reaction mechanism.
CH1442	LAB COURSE I INORGANIC QUALITATVE ANALYSIS	 CO1: Obey Lab safety instructions, develop qualities of punctuality, regularity and scientific attitude, outlook and scientific temper (GOOD LAB PRACTICES) CO2: Develop skill in safe handling of chemicals, take precaution against accidents and follow safety measures CO3: Use glass wares ,electric oven, burners and weighing balance CO4: Develop skill in observation , prediction and interpretation of reactions CO5: Detect solubility, and classify compounds according to their solubility CO6: Apply the principle of common ion effect and solubility product in the identification and separation of ions CO7: Develop skill in preparing and purifying inorganic complex compounds
		Semester V

CH 1541	PHYSICAL CHEMISTRY I	CO1: Identify, compare and explain the properties
		kinetic theory of gases and different types of molecular velocities and collision properties.
		CO2: Perform numerical problems of gases under a set of conditions
		CO3: Differentiate between amorphous and crystalline solids, understand anisotropy, symmetry and types of crystals, Xray diffraction methods of study of crystal structure, identify the imperfections in crystals understand the physical aspects of surface tension and viscosity of liquids and the basics of liquid crystals and their applications
		CO4: representation of lattice planes and calculation of interplanar spacing, draw the crystal structures of NaCl and CsCl
		CO5: Recalling the basic concepts of solutions, concentration terms, Raoult's law and colligative properties
		CO6: Determination of colligative properties and molecular mass of solute
		CO7: Understand the working principle Electro- Chemical cells
		CO8: Design and determine the potentials of electrochemical systems
		CO9: Assess the nature of electrolytes in terms of dissociation and ionic conductance of electrolytes in terms of mobility of ions
		CO10: Integrate the theory into practical applications of conductometric titrations
	NIOD G ANUG	
CH 1542	INORGANIC CHEMISTRY III	CO1: Discuss the electronic configuration and related properties of transition elements and inner transition elements
		CO2: Understand preparation of selected transition metal compounds, lanthanides and actinides

	CO3: Compare lanthanide and actinide contraction
	and their consequences.
	CO4: Name coordination complexes, organometallics, discuss their properties and bonding
	CO5: Understand stability of complexes and factors affecting stability
	CO6: Describe isomerism in coordination compounds
	CO7: Discuss spectrochemical series, CFSE and their consequences
	CO8: Correlate geometry, stability and Jahn Teller effect and its causes
	CO9: Discuss reaction mechanisms and applications of coordination compounds
	CO10: Name and classify organometallic compounds
	CO11: Discuss preparation and properties and bonding of carbonyls
	CO12: Identify the role of organometallic compounds in organic synthesis
	CO13: Discuss the role of inorganic ions in biological systems and biochemistry of hemoglobin, myoglobin, cytochromes, iron Sulphur proteins
	CO14: Discuss various bioinorganic processes like photosynthesis, working of sodium potassium pump, etc.

		CO15: Describe various aspects of metallurgy, and instrumental methods of analyses viz., spectrophotometric methods, thermal methods and tools available to measure nanomaterials
CH 1543	ORGANIC CHEMISTRY II	CO1: Describe the preparation of hydroxy, carbonyl & amino compounds, carboxylic acids and organo Mg, Li & Zn compounds.
		CO2: Distinguish primary, secondary & tertiary alcohols and amines
		CO3: Write reaction steps in ascending & descending of alcohol and aliphatic acid series, interconversion of aldose and ketose, chain lengthening and shortening of aldoses
		CO4: Explain the structure of glucose, fructose, sucrose, starch and cellulose.
		CO5: Predict the outcome and mechanism of simple organic reactions, using a basic understanding of the reactivity of functional groups
		CO6: Illustrate the use of organic reagents in synthesis.
		CO7: Discuss fundamental principles of supramolecular and green chemistry
CH 1544	LAB COURSE II	CO1: Develop skill in selecting, primary and secondary standards
	INORGANIC VOLUMETRIC ANALYSIS	CO2:Develop skill in weight calculation of primary standards weighing by electronic balance, making of solutions of definite strength (standard solutions)
		CO3: Use sophisticated glass wares, calibrate apparatus and develop skill in keen observation , prediction and interpretation of results
		CO4: Perform volumetric titrations under acidimetry, alkalimetry, permanganometry, dichrometry, iodimetryiodometry,cerimetry, argentometry and c

		CO5: Compare the advantages and disadvantages of different volumetric techniques
		CO6: Practice Punctuality and regularity in doing experiments and submitting Lab records
CH 1545	LAB COURSE III PHYSICAL CHEMISTRY	CO1: Develop Scientific outlook and approach in applying principles of physical chemistry in chemical systems/reactions
	EXPERIMENTS	CO2: Use computational methods for plotting graph
		CO3: Describe systematic procedures for physical experiments
		CO4: Acquire Instrumentation skill in using conductometer, potentiometer, refractometer, stalagmometer and Ostwald's viscometer.
		CO5: Compare theory with experimental findings
		CO6: Practice Punctuality and regularity in doing experiments and submitting Lab records
CH 1551.2	OPEN COURSE FOR OTHER MAJORS	CO1: Appreciate the evolution of Science and Chemistry and the early form of chemistry
	FUNDAMENTALS OF	CO2: Understand the development of Chemistry as a discipline and the role of chemistry as a central science
CHEMISTRY AND ITS APPLICATION TO EVERYDAY LIFE	CO3: Discuss the fundamental properties of atom, structure of atom, classification of elements in to a periodic table	
		CO4: Differentiate between simple molecules and giant molecules and the bonding nature
		CO5: Explain different types of bonding and predict stability
		CO6: Compare properties of graphite and diamond and their structural differences
		CO7: Identify household chemicals, their advantages and disadvantages

		CO8: Become aware of chemical hazards and the precautions in handling chemicals
		CO9: Beware of food adulterants
		CO10: Critically select chemical fertilizers, artificial sweeteners, beverages, and food preservatives
	\$	Semester -VI
CH 1641	PHYSICAL CHEMISTRY II	CO1: Understand basic concepts of thermodynamics, spectroscopy and group theory
		CO2: Apply laws of thermodynamics in physical and chemical processes and real system
		CO3: Classify processes, properties and systems on a thermodynamic basis
		CO4: Discuss the second law of thermodynamics and Assess thermodynamic applications using the second law of thermodynamics.
		CO5: Discuss basic concepts of statistical thermodynamics
		CO6: Solve numerical problems based on thermodynamics and thermochemistry
		CO7: Understand the basics of spectroscopic techniques Rotational, Vibrational and Raman Spectroscopy
		CO8: Compare NMR and ESR spectroscopy and their applications
		CO9: Evaluate physical and chemical quantities using Non spectroscopic techniques.

		CO10: Identify the elements of symmetry and determine the point groups of simple molecules
		CO11: Differentiate diamagnetism and Paramagnetism, measurement of magnetic susceptibility
		CO12: Correlate dipole moment with geometry of molecules
CH 1642	ORGANIC CHEMISTRY III	CO1: Outline the chemistry of simple heterocyclic compounds
		CO2: Classify amino acids, proteins, nucleic acids, drugs, terpenes, vitamins, lipids and polymers.
		CO3: Classify amino acids, proteins, nucleic acids, drugs, terpenes, vitamins, lipids and polymers.
		CO4: Describe the isolation and structure of terpenes and alkaloids.
		CO5: Explain the mechanism and techniques of polymerization
		CO6: Discuss the principle of UV, IR, NMR and Mass spectroscopy.
		CO7: Interpret spectroscopic data to elucidate the structure of simple organic compounds.
		CO8: Use the simple organic reactions to elucidate the structure of quinoline, piperine and conine
CH 1643	PHYSICAL CHEMISTRY II	CO1: Recall the basic physical concepts in quantum mechanics, colloids, adsorption, Chemical Kinetics, catalysis, chemical and ionic equilibria, phase equilibria, binary liquid systems and photochemistry
		CO2: Understand the basic concepts involved in quantum mechanics, colloids, adsorption,

		Chemical Kinetics, catalysis, chemical and ionic
		equilibria, phase equilibria, binary liquid systems
		CO3: Derive and Interpret important theories and
		equations involved in physical chemistry
		CO4: Demonstrate the origin of quantum numbers by correlating the Cartesian and spherical polar
		coordinates of hydrogen atom.
		CO5: Identify and recognize the applications of various principles equations and physical
		processes
		CO6: Perform calculations involving physical
		concepts and equations
		CO7: Analyze` graphical representations (phase
		diagrams, two and three components, vapor
		composition, temperature-composition) present in
		physical chemistry
		COQ. Un denotor d termin ele ex
		CO8. Understand terminology
		CO9: Understand the effects of external influence
		on various chemical processes
		CO10: Understand different laws and principles of physical chemistry
СН	LAB COURSE IV	CO1: Develop curiosity in systematically analyzing
1644	ORGANIC	organic compounds
CH EX	CHEMISTRY EXPERIMENTS	CO2: Differentiate and identify organic compounds
		by their characteristic reactions towards standard reagents
		CO3: Confirm their findings by preparing solid derivatives, and thus understand reliability of
		experimental results
		CO4: Determine physical constants of organic
		compounds

		 CO5: Separate organic compounds by TLC/paper/column chromatographic techniques CO6: Prepare soaps CO7: Apply the principles and techniques in organic chemistry, thereby developing skill in designing an experiment to synthesize and purify organic compounds CO8: Practice systematic scientific procedure and prepare adequate report of them CO9: Understand the chemistry behind organic reactions
CH 1645	LAB COURSE- V GRAVIMETRIC EXPERIMENTS	reactionsCO1: Understand precipitation techniques in quantitative contextCO2: Appreciate the application of silica crucible and sintered crucible in gravimetryCO3: Practice technique of making, diluting solutions on quantitative basisCO4: Realize the factors affecting precipitation/crystallizationCO5: Take precautionary measures in filtration , drying and incineration of precipitatesCO6: Understand the principle of colorimetry to estimate Fe3+ and ammoniaCO7: Practice Punctuality and regularity in doing experiments and submitting Lab records
CH 1646	PROJECT COURSE	CO1: Develop an aptitude for research in chemistry
		CO2: Practice research methodology and literature searchCO3: Critically choose appropriate research topic and presentation
CH1651.1	ELECTIVE COURSE	CO1: Become aware of pollution caused by industries
	SUPRAMOLECULAR, NANOPARTICLES AND GREEN CHEMISTRY	CO2: Become aware of pollution caused by industries

		CO3: Discuss about sustainable development and logical use of natural resources
		CO4: Motivated to more eco-friendly lifestyle
		CO5: Realizes the importance of microscale approaches and nano material research
CH1661.3	ELECTIVE COURSE	CO1: Understand the relevance of organic chemistry in chemical industry.
	NTRODUCTION TO PHARMACEUTICALS & COSMETICS	CO2: Get knowledge to apply organic reactions in pharmaceutical production
		CO3: Explain the various catalytic processes in industry.
		CO4: Describe the preparation of important drugs
		CO5: Familiarize with the pharmaceutical formulation.
		CO6: Understand the formulation of various cosmetics.

B.Com Finance and Tax		
Course code	Course title	Course outcomes
	Se	mester -1
CO 1121	METHODOLOGY ANDPERSPECTIVES OF BUSINESS EDUCATION	 Course outcome: Understand business and its role in society. Identify the significance of entrepreneurship and its heuristics Comprehend the business environment Initiate the students to undertake business activities Ensure a holistic, comprehensive and integrated perspective to business education
CO 1141	ENVIRONMENTAL STUDIES	 Course outcome: 1. Enable the students to acquire basic ideas about environment and emerging issuesabout environmental problems. 2. Aware about the need and importance of environmental protection
CO 1131	MANAGERIAL ECONOMICS	 Course outcome: 1. Familiarize the students with the economic principles and theories underlyingvarious business decisions. 2. Equip the students to apply the economic theories in different businesssituations. 3. Acquaint the students with the application of economics in the context of managerial

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		decision making.
CO	Functional Application	Course outcome:
1142	of Management	 Familiarise the students with various aspects of organizational management. Give an understanding on the functional application of management
	Se	mester II
СО	INFORMATICS AND	Course outcome:
1221	INFORMATICS AND CYBER LAWS	 Review the basic concepts and fundamental knowledge in the field of informatics. Aware about the nature of the emerging digital knowledge society and the impact of informatics on business decisions. Awareness about the cyber world and cyber regulations. Update and expand informatics skills and attitudes relevant to the emerging knowledge society and to equip the students to effectively utilise the digital knowledge resources for business studies
СО	BUSINESS	Course Outcome:
1241	COMMUNIC	1. Develop communication skills among
	ATION AND	students relevant to various business situations
	OFFICE	2. Impart knowledge on the management of Modern Offices.
	MANAGEME	
	NT	3. Explore the talents in business communication and enable the students to understand the appointment and role of a Company Secretary in business.

CO 1242	FINANCIAL ACCOUNTING	 Course Objectives Familiarize the students with Accounting Standards. Equip the students to prepare the accounts of special business areas. Impart knowledge and understanding of the principles and concepts of financial accounting and develop the skill required for the preparation of financial statements and accounts of various business areas.
CO 1231	BUSINESS REGULATORY FRAMEWORK Course outcome: Ser	 Course outcome: Provide a brief idea about the framework of Indian business Laws Enable the students to apply the provisions of business laws in businessactivities Motivate the students to take up higher studies in business Laws
<u> </u>		Commente
1341	P DEVELOPMENT	 Familiarize the students Familiarize the students with the latest programs of the governmentauthorities in promoting small and medium industries. Impart knowledge regarding how to start new ventures. Equip the students to have a practical insight for becoming an entrepreneur.

CO 1342 CO 1343	COMPANY ADMINISTRATION ADVANCED FINANCIAL ACCOUNTING	 Course Outcome: Familiarize the students about the salient provisions of Indian Companies Act2013. Acquaint the students about Management and Administration of Companies, Compliance requirements, investigation into the affairs of the company and Winding up procedure Course Outcome: Create awareness of accounts related to dissolution of partnership firms. Acquaint students with the system of accounting for different branches and departments. Enable students to prepare accounting of consignments and joint venture. Equip the students with the preparation of accounts of various business areas.
CO 1331	INFORMATION TECHNOLOGY IN BUSINESS	 Course Outcome: 1. Review the basic concepts and functional knowledge in the field of IT. 2. Expose the students to computer application in the field of Business. 3. Expose the students to the innovations in information technology and itspotential application in business.

CO	FINANCIAL	Course Outcome:
1361.1	MANAGEMENT	1. Familiarise the students
		with the
		conceptual framework of
		financialmanagement
		2 Enable the students to
		understand the practical
		application of financial
		application of infancial
		2 Provide concentual and
		5. Flovide conceptual and
		financial decision askilfully
		linancial decisionsskillully.
	Ser	nester IV
CO	Capital Market	Course Outcome:
1441	_	1. Provide the students with a
		clear-cut idea about the
		functioning of IndianCapital
		Market
		2. Provide an in-depth knowledge
		on Capital Market
CO	DANKING THEODY	Course Outcome:
	AND DACTICE	1. Provide basic knowledge of the
1442	ANDFRACTICE	theory and practices of banking.
		2. Familiarize the students with the
		changing scenario of Indian
		Banking
		3. Expose the students to the
		changing scenario of Indian
	CODDODATE	banking
	- CORPORATE	Course Outcome:
1443	ACCOUNTING	1. Enable the students to
		develop awareness about
		corporate accounting in
		conformity with the
		provisions of Companies Act,
		IAS and IFRS.
		2. Enable the students to prepare
		and interpret financial
		statements of joint stock
		companies in different

		situations
		3 Expose the students to the
		5. Expose the students to the
		in the comparate
		in the corporate.
CO	BUSINESS	Course Outcome:
1431	STATISTICS	 Enable the students to gain understanding of statistical techniques as areapplicable to business. Enable the students to apply statistical techniques for quantification of data in business. Develop the skill for applying appropriate
		statistical tools and techniques indifferent business situations.
CO	BUSINESS	Course Outcome:
1431	STATISTICS	 Enable the students to gain understanding of statistical techniques as areapplicable to business. Enable the students to apply statistical techniques for quantification of data in business
		2 Develop the skill for
		annlying annropriate
		apprying appropriate
		taubuiquas indifferent
		hyperingues indifferent
		dusiness situations.
1461 1	PROJECT FINANCE	Course Outcome:
1401.1	INVIELITINANCE	1. Provide knowledge on the
		concent of project finance
		2 Highlight the sources and
		annlication of finance
		3 Enable the students to learn

		relating to preparation, appraisal, review and monitoring of projects.
CO – 1541	Semester V FUNDAMENTALS OF INCOME TAX	 Course Outcome: Familiarize the students about the fundamental concepts of Income Tax Enable the students to acquire the skills required to compute Gross Total Income with more emphasis on income from salary and income from house
		 property. 3. Impart the basic knowledge and understanding of the concepts and practices of Income Tax Law in India.
CO 1542	COST ACCOUNTING	 Course Outcome: Familiarize the students with cost concepts. To make the students learn cost accounting as a separate system of accounting Impart knowledge of cost accounting system and acquaint the students withthe measures of cost control.
CO 1543	ACCOUNTING FOR SPECIALISED INSTITUTIONS	 Course Outcome: 1. Familiarise the students with the accounting practices prevailing in various specialised institutions. 2. Acquaint the students with the preparation of final accounts of the specialized 3. Develop the skill for the

		preparation of final accounts of specialised institutions and enable the students to acquire professional competence in accounting.
CO 1551.3	CAPITAL MARKET OPERATIONS	 Course Outcome: 1. Create an interest among students towards stock market investment 2. Familiarize the students with capital market operations
CO 1561.1	Financial Markets and Services	C o u rs e O u tc o m e: 1. Provide a general awareness about the financial markets and services 2. Familiarize the students with the structure and functioning of the financialmarkets and financial service sector in India
	Semester VI	
CO 1641	AUDITING	Course Outcome: 1. Understand the principles and practice of auditing 2. Familiarise the students with the principles and procedure of

		auditing. 3. Enable the students to understand the duties and responsibilities of auditors.
CO 1643	MANAGEMENT ACCOUNTING	 Course Outcome: Develop professional competence and skill in applying accounting information for decision making. Equip the students to interpret financial statements with specific tools of management accounting. Enable the students to have a thorough knowledge on the managementaccounting techniques in business decision making.
CO 1661.6	MARKETING MANAGEMENT	 Course Outcome: Provide knowledge of the concepts, principles, tools and techniques ofmarketing. Help the students to understand marketing concepts and its applications Make the students aware of modern methods and techniques of marketing.
CO 1661.1	INCOME TAX LAW AND ACCOUNTS	Course Outcome: 1. Equip the students with the practical skill and knowledge of Income TaxLaw and Accounts. 2. Enable the students to understand the provisions of

	assessment.		Income Tax for computing Total Income and Tax Liability of various persons.3. Familiarize the students with the procedure of income tax assessment.
assessment.			3. Familiarize the students with the
3. Familiarize the students with the procedure of income tax assessment.	3. Familiarize the students with the		Liability of various persons.
Liability of various persons. 3. Familiarize the students with the procedure of income tax assessment.	Liability of various persons. 3. Familiarize the students with the		Total Income and Tax
Total Income and Tax Liability of various persons. 3. Familiarize the students with the procedure of income tax assessment.	Total Income and Tax Liability of various persons. 3. Familiarize the students with the		Income Tax for computing

PG DEPARTMENT OF ECONOMICS

BA ECONOMICS COURSE OUTCOME

SEMESTER 1

Course Code	Course Name	Course outcome
EC1141	INTRODUCTORY MICROECONOMICS	 CO1: To develop a conceptual foundation and analytical methods used in microeconomics. CO2: Students can understand the basic methodology of analyzing individual economic behavior. CO3: It also helps the students to evaluate different market structures and welfare economics.
EC 1131	FOUNDATIONS OF ECONOMIC THEORY	CO1: To provide a basic understanding of economic concepts and theories.CO2: Understand the concept of utility and consumer behavior.CO3: It also gives an idea about different market structures.

SEMESTER 2

Course Code	Course Name	Course outcome
EC 1241	INTERMEDIATE MICROECONOMICS	CO1: To give the students a basic understanding of the principles of microeconomics CO2: Apply economic principles to evaluate real-world problems and to provide solutions. CO3: It also gives an idea about game theory and behavioral economics.
EC 1231	MONEY AND BANKING	CO1: To Provide a basic understanding of the nature and significance of money CO2: Understand the role of the central bank and banking system in India. CO3: Analyse the role and significance of digital banking and e-commerce.

SEMESTER 3

Course Code	Course Name	Course outcome
EC1321	INFORMATICS FOR APPLIED ECONOMETRICS	CO1: Familiarise the students with a plethora of online resources that will help students improve their teaching-learning experience. CO2: The students will also be able to utilize these web resources to enhance their careers and
		academics. CO3: The course also provides an exposition of econometric concepts and techniques. CO4: Enable the students to conduct and criticize empirical studies in economics and related fields. models using computer software
EC 1341	INTRODUCTORY MACROECONOMICS	CO1: Enable the students to get an idea about the basic concepts used in Macroeconomics.CO2: To enable the students to understand the theoretical framework and the workings of an economy as a whole.CO3: Students get an in-depth introduction to classical & Keynesian economics.
EC 1131	INTRODUCTION TO INTERNATIONAL TRADE AND PUBLIC ECONOMICS	 CO1: Students get an idea about the significance of public finance in the context of the increasing role of Government. CO2: It also provides the basic theoretical framework of budgetary mechanisms in India and State activities. CO3: Enable the students to understand various aspects of International Trade.

SEMESTER 4

Course Code	Course Name			Course outcome
EC1441	MATHEMATICAL ECONOMICS	METHODS	FOR	CO1: To provide the students an insight into the importance of mathematical methods in Economics CO2: Familiarize them with the basic mathematical techniques used in economic analysis. CO3: To understand economic concepts with the aid of mathematical tools and enable them to quantify the variables.
EC 1442	INTERMEDIA	TE MACROECON	OMICS	CO1: To introduce students to the micro-
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				foundations of macroeconomics
				CO2: It gives students an idea about inflation,
				unemployment, and economic growth.
				CO3: It also discusses the fiscal and monetary
				policies in an open economy
EC 1431	INDIAN	ECONOMY	SINCE	CO1: To provide a basic understanding of the
	INDEPENDEN	NCE		Indian economy
				CO2: Familiarise the students with the various
				concepts of National Income.
				CO3: It also creates awareness about the
				significance of agriculture, industry, and service
				sector in the Economy

SEMESTER 5

Course	Course Name	Course Outcome
Code		
EC 1541	METHODOLOGY AND PERSPECTIVES OF	CO1: Familiarizes the students with the broad
	SOCIAL SCIENCE	contours of Social Sciences, specifically
		Economics and its methodologies.
		CO2: It creates enthusiasm among students,
		incorporating various concepts and issues in
		economics.
		CO3: It also discusses the various aspects of
		social science research methodology, tools, and
		analysis procedures
EC 1542	STATISTICAL METHODS FOR ECONOMICS	CO1: Familiarize the students with statistical
		tools and techniques
		CO2: Enable them to apply these tools in
		Economics theories and policy analysis.
		CO3: Provide a strong foundation in exploratory
		data analysis, probability theory, statistical
		inferences, etc.
EC 1543	READINGS IN POLITICAL ECONOMY	CO1: Introduces different perspectives of
		political economy.
		CO2: Understand the contributions of different
		economists in political economy.
		CO3: Critique the issues of the political economy
EG 1544		of India.
EC 1544	ECONOMIC GROWTH AND	COI: Proves the basic concepts of Economic
	DEVELOPMENT	Growth and Development and enables them to

		acquire multi-dimensional aspects of
		developmental issues
		CO2: Inculcates knowledge about the theoretical
		framework of Growth and Development under
		different Schools of economic thought.
		CO3: To raise awareness about Political
		institutions, the role of the state in Economic
		Development, and problems that affect state
		Governance
EC 1545	INTERNATIONAL ECONOMICS	CO1: To give the students basic concepts and
		theories of international trade
		CO2: Enable students to have a basic
		understanding of the emerging trends, issues, and
		policies in the field of the international economic
		system.
		CO3: Understand the consequences of global
		interdependence.
EC	HUMAN RESOURCE MANAGEMENT	CO1: Provide the basis for life enrichment and
1551.2		career orientation.
		CO2: Provide the basis for understanding the
		significance of human resources in the growth of
		our economy and society
		CO3: It helps the students to learn the ways to
		integrate HRM strategies in organizations

SEMESTER 6

Course	Course Name	Course Outcome
Code		
EC 1641	INDIAN ECONOMY	CO1: Provide an understanding of the growth process in
		the Indian economy.
		CO2: Analyse the sectoral composition and performance
		of the economy by focusing on agriculture, industry, and
		service sectors.
		CO3: It also examines the external sector and economic
		reforms in India.
EC 1642	BANKING AND FINANCE	CO1: Familiarize the students with the basic concepts of
		Banking and Finance.
		CO2: To develop a comprehensive knowledge of the
		role of banks in the operation of an economy.
		CO3: Enables them to know the operation of the Indian
		Financial System and activities in the financial markets.

EC 1643	PUBLIC ECONOMICS	CO1: Introducing the subject matter and scope of public
		economics, the role of government, types of market
		failures, and the concept of public good.
		CO2: Providing a general understanding of the basic
		fiscal policy instruments
		CO3: Generating awareness of public economics in
		India, with a special focus on budgetary system and
		fiscal federalism
EC 1644	ENVIRONMENT ECONOMICS AND	CO1: To create environmental awareness among
	DISASTER MANAGEMENT	students.
		CO2: Familiarises the students about the interlinkages
		between environment, ecology, and economy.
		CO3: Provide exposure to disaster management.
EC	KERALA ECONOMY	CO1: To understand the structural changes, sector-wise
1661.1		contribution, and features of Kerala's Economy since the
		formation of the state.
		CO2: Enable the students to have a basic understanding
		of the emerging trends and issues of Kerala's Economy.
		CO3: To understand the problems of the local economy.
EC1645	PROJECT WORK	CO1: Equip the student to identify an issue or topic and
		conduct the study systematically and scientifically.
		CO2: Students will get the opportunity to apply various
		tools they have learned and present the report in a
		structured manner.
		CO3: Develops research aptitude and skills among
		students.

B.A. English				
Course	Course title	Course outcomes		
code		Somestor 1		
EN1141	Introduction to Literary Studies I	CO 1: Introduce varied literary representations. CO 2: Familiarize students with the nature and characteristics of literature. CO 3: Discuss the nature and characteristics of literature CO 4: Introduce two key genres of literature, poetry and drama. CO 5: Possess a foundational understanding of		
EN 1131	Popular Literature and Culture	CO 1: Encourage the student to think critically about popular literature. CO 2: Understand the categories of the —popular and the —canonical CO 3: Identify the conventions, formulas, themes and styles of popular genres such as detective fiction, the science fiction and fantasy, and children's literature. CO 4: An assessment of the literary and cultural value of popular texts C O 5: Sensitize students to the ways in which popular fiction reflects and engages with questions of gender, identity, ethics and education.		
		Semester 2		
EN 1241	Introduction to Literary Studies II	 CO 1: Cherish a taste for the literary among students CO 2: Comprehend the nature and characteristics of different genres of literature. CO 3: Detailed awareness of the two key genres of literature- fiction and non-fiction. CO 4: Imbibe the representational possibilities of the respective genres. CO 5: Instill a creative and critical aptitude 		
EN 1231	Art and Literary Aesthetics	CO 1: The student will be able to engage with literature in a broader, educated perspective. CO 2: The student will be able to think with greater originality and independence about the complex interrelationship between different art forms.		

		CO 3: The student will be trained to engage sensitively and intelligently in new readings of literature.CO 4:The course develops an understanding of the
		co-relation between literature, film, music and painting and encourages ways of reading and seeing which deliver insights into literary texts. CO 5: Initiate students to implement the multidisciplinary scope of art and literary studies.
		Semester 3
EN 1341	British Literature I	 CO 1: Comprehend the origins of English literature CO 2: Understand the specific features of the particular periods CO 3: Understand themes, structure and style adopted by early British writers CO 4: Gain knowledge of growth and development of British Literature in relation to the historical developments CO 5: Understand how writers use language and
		creativity to capture human experience through different literary forms
EN 1321	Evolution of the English Language	 CO 1: Knowledge of the paradigm shifts in the development of English. CO 2: Well aware of the historical paradigm shifts in the history of English Language CO 3: Imbibe the plural socio cultural factors that went in to the shaping of the English Language. CO 4: Place English language in a global context. CO 5: Recognize the politics of many _Englishes'.
EN 1331	Narratives of Resistance	 CO 1: Be able to identify themes of resistance in different forms and genres of literature. CO 2: Have a sense of the various kinds of injustice related to race, ethnicity, gender etc. prevalent in society. CO 3: Develop an idea of literature as a form of resistance to all forms of totalitarian authority. CO 4: Understand the inter connection between various genres in manifesting resistance CO 5: How resistance is an undeniable presence in the everyday narratives of literary and other artistic expressions.
EN 1441	British Literature II	CO 1: Sensitize students to the changing trends in
		English literature in the 18th and 19th centuries and connect it with the sociocultural and political

		 developments. CO 2: Develop the critical thinking necessary to discern literary merit CO 3: Be able to recognize paradigm shifts in literature CO 4: Be able to identify techniques, themes and concerns CO 5: Connect literature to the historical developments that shaped the English history
EN 1442	Literature of the 20 th Century	CO 1: Understand social, political, aesthetic and cultural transformations of early twentieth century in relation to literary texts with their specific formal features. CO 2: Know the stylistic features of Modernism and its various literary and aesthetic movements CO 3: Critically engage the ideas that characterise the period, especially the crisis of modernity CO 4: Understand contemporary responses to the historical incidents that mark the period CO 5: Understand and use critical strategies that emerged in the early twentieth century.
EN1431	Philosophy for Literature	 CO 1: Have a diachronic understanding of the evolution of philosophy from the time of Greek masters to 20th century CO 2: Have an awareness of the major schools of thought in western philosophy. CO 3: Have a healthy epistemological foundation at undergraduate level that ensures scholarship at advanced levels of learning. CO 4: Talk about some of the key figures in Philosophy. CO 5: Analyze and appreciate texts critically, from different philosophical perspectives
		Semester 5
EN 1541	Literature of Late 20th Century and 21st Century	CO 1:Identify the various socio-cultural changes that evolved in the late modernist period CO 2: Relate to the diverse currents of postmodern literature and its reflections in the contemporary ethos CO 3: Assimilate the inherent multiplicities and fluidity of societal perspectives CO 4: Develop an innate sympathy for the tragedies of Holocaust and an awareness regarding

EN 1540		the environmental impasses threatening the modern world CO 5: Empathise with the marginalised and comprehend their predicament status of natural
EN 1542	Postcolonial Literatures	CO 1: Ability to critique colonial instory CO 2: Awareness of the socio-political contexts of colonialism and postcolonialism CO 3: Understanding of the effects of colonialism in various nations CO 4: Knowledge of the key terms in post-colonial thought CO 5: Study of the race and gender dynamics in postcolonial literature
EN 1543	20th Century Malayalam Literature in Translation	 CO 1: Generate knowledge about the varied milieu of the development and growth of Malayalam literature and be sensitive to its socio cultural and political implications. CO 2: Get a basic knowledge of the literary and the non-literary works produced inMalayalam CO 3: Discern the vibrancy of Malayalam literature CO 4: Sense the distinctness of the socio-cultural arena in which Malayalam literature isproduced CO 5: Know the value of literature produced in regional languages and key role oftranslation in the growth of language and literature.
EN 1544	Linguistics and Structure of the English Language	 CO 1: Understand the phonological and grammatical structure of English Language CO 2: Be able to analyse actual speech in terms of the principle of linguistics CO 3: Improve the accent and pronunciation of the language CO 4: Introduce the students to internationally accepted forms of speech and writing in English. CO 5: Explore the ancient linguistic tradition of India
EN 1545	Criticism and Theory	 CO 1: Analyze and appreciate texts critically, from different perspectives. CO 2: Appreciate Indian Aesthetics and find linkages between Western thought and Indian critical tradition. CO 3: Show an appreciation of the relevance and value of multidisciplinary theoretical models in literary study. CO 4: Demonstrate an understanding of important theoretical methodologies and develop an aptitude for critical analysis of literary works.

		CO 5: Gain a critical and pluralistic understanding and perspective of life
EN 1551.3	Film Appreciation	 CO 1: Decipher the meaning of a movie CO 2: Watch, understand and analyze films from a critical perspective CO 3: Connect movies to its multidisciplinary scope of appreciation and learning. CO 4: Equip them to write critically about film. CO 5: Equip them to be resourceful to find a career in areas related to film
		Semester v
EN 1641	Gender Studies	CO 1: Recognize the patriarchal bias in the formation of history and knowledge. CO 2: Analyse the ways in which gender, race, ethnicity class, caste and sexuality construct the social, cultural and biological experience of both men and women in all societies. CO 3: Recognize and use the major theoretical frames of analysis in gender studies CO 4: CO 5: Interrogate the social constructions of gender and the limiting of the same in to the male- female binary in its intersections with culture, power, sexualities and nationalities CO 5: Examine gender issues in relation to the
EN 1642	Indian Writing in English	 CO 1: Make students aware of different aspects of colonization like cultural colonization. CO 2: Trace the historical and literary genesis and development of Indian Writing in English CO 3: Acquaint them with the major movements in Indian Writing in English across varied period and genres CO 4: Address the plurality of literary and socio-cultural representations within Indian life as well as letters. CO 5:Enhance the literary and linguistic competence of students by making them aware of how language works through literature written in the subcontinent.
EN 1643	Film Studies	CO 1: Recognize the language of films and use it creatively. CO 2: Analyze films from both technical and non- technical perspectives

		 CO 3: Engage questions of social justice and gender justice by critiquing representations of culture. CO 4: Use film as a medium of communication CO 5: Derive an interest in various careers related to film
EN1644	World Classics	 CO 1: Understand the study of Classics as a means of discovery and enquiry into the formations of great literary works and how the rich imagery of these classical works continues beyond the twentieth century. CO 2: Recognize the diversity of cultures and the commonalities of human experience reflected in the literature of the world. CO 3: Imbibe a fair knowledge in the various Classical works from different parts of the world, at different time periods, across cultures. CO 4: Examine oneself and one's culture through multiple frames of reference, including the perception of others from around the world. CO 5: Develop and aesthetic sense to appreciate and understand the various literary works with a strong foundation in the World Classics.
GG 1661.5	20th Century Regional Literatures in English Translation	CO 1: Think creatively and critically within and beyond the singularity of regional literature CO 2: Overcome language barrier in the appreciation of literature CO 3: Equip to identify the uniqueness as well as the shared history of the regional literatures CO 4: Engage in translating regional texts into English CO 5: Be able to evaluate their own competences in translation and will be capable of selecting specialized translation courses for higher studies and also as profession.

B.Sc. Geography				
Course code	Course title	Course outcomes		
		Semester -1		
GG 1141	Fundamentals of Geomorphology	CO1: Understand origin and evolution of Universe/Solar System		
		CO2: Critically analyse Continental Drift and Plate Tectonics CO3: Identify major earthquake and volcanic zones of the Earth		
		CO4: Appreciate and evaluate various endogenic processes CO5: Critical understanding of exogenic processes and soil Formation		
GG 1142	Practical Paper :	CO1: Understand Latitudes and Longitudes		
	Physical Geography	CO2: Identifies the various erosional and depositional landform features		
		CO3: Analyses and interprets weather station models CO4: Illustrates the relief of the ocean floor and ocean currents CO5: Explore the uses advantages of online maps daily life		
		Semester II		
GG 1221	Climatology & oceanography	CO1 : Understand the global atmospheric circulation		
		CO2 : Critically examine the distribution of pressure		
		systems and winds		
		CO3 : Identify different forms of condensation, precipitation and tropical weather systems		
		CO4 : Appreciate the bottom topography of oceans		

		CO5 : Critically analyse the environmental issues
		associated with Oceans
GG 1142	Practical Paper :	CO1: Understand Latitudes and Longitudes
	Physical Geography	
		CO2: Identifies the various erosional and
		depositional landform features
		CO3: Analyses and interprets weather station
		models
		COA Illustration the million of the second floor and
		CO4: Illustrates the relief of the ocean floor and
		ocean currents COS: Explore the uses advantages of
		Somester III
		Semester III
GG 1341	Cartography	CO1: Appreciates the historical evolution of maps
001011	e mite Bruhuj	
		CO2: Acquires skills in enlargement and reduction
		of maps
		CO3: Understanding the principles of Map Design
		CO4: Evaluates the maps prepared for various
		users/purposes CO5: Familiarizes the latest
		technologies used in Cartography
GG 1242	Practical papar	CO1 : Understanding the concept of scales
001542	cartographic techniques	COT. Understanding the concept of scales
	cartographic teeninques	
		CO2 · Acquiring skills in using magnetic compass
		CO2 . Mequiling skins in using mughete compuss
		CO3 : Differentiate between Projected and
		Geographic coordinate Systems
		CO4 : Acquire skills in geometrical construction of
		map projections
		Semester IV
GG 1441	Human geography	CO1 · Critical understanding of the nature and scope
00 1441	riuman geography	of Human Geography through a thorough
		appreciation of the various approaches and
		contributions made by renowned

		Geographers
		CO2: Familiarize with basic concepts and models of spatial interaction and thereby analyse the factors controlling spatial interaction and how it modifies the earth's surface
		CO3: Evaluate how culture and its components diffuse, modify and restructure the earth's surface
		CO4: Holistic understanding of the major languages and religions CO5: Enhance the understanding of human settlements through a critical appraisal of its types, patterns, functions and problems
GG 1342	Practical paper cartographic techniques	CO1 : Understanding the concept of scales
		CO2 : Acquiring skills in using magnetic compass
		CO3 : Differentiate between Projected and Geographic coordinate Systems
		CO4 : Acquire skills in geometrical construction of map projections
	Semester V	
GG 1541	Physical geography of india	CO1: Understanding the physical characteristics of India CO2: Acquiring knowledge regarding the drainage systems Of India CO3: Examines the concept of Monsoon and its causes CO4: Understanding the importance and status of natural resources in India CO5: Acquiring comprehensive knowledge about the environmental issues
GG 1542	Economic and social geography of india	CO1: Understanding the history of economic development in India CO2: Developing a cognitive understanding of the distribution of resource potentials in the country CO3: Developing skills in mapping the spatial distribution of

		various resources CO4: Critically analyses the demographic profile of India
GG 1543	Fundamentals of remote sensing and GIS	 CO1 : Understand the principles of Remote Sensing system CO2 : Apply GIS and remote sensing data in various areas of Geographical and Environmental Studies CO3 : Interpret satellite images and aerial photos with the help of elements of visual image interpretation CO4 : Conduct Field surveys using GPS system CO5 : Integrate data from various sources for GIS analysis
GG 1544	Practical II techniques of data collection	 CO1 : Shall become aware of various primary data collection techniques CO2 : Will have acquired the skill of collecting data and organising them using various methods CO3 : Will be able to prepare an effective questionnaire CO4 : Will enhance the skill to find directions and make rough estimate of distances during field survey CO5 : Will develop the skill to use GPS for finding location and altitude of places.
GG 1545	Practical – III Map reading and spatial information techniques	CO1: Will acquire skills in representing relief using contoursCO2: Identify Grid references, conventional signs and symbols used in topographical maps

		CO3 : Interpret physical and cultural features represented in topographical maps
		CO4 : Comprehend techniques of estimating slope from maps
		CO5: Will acquire knowledge on Georeferencing and Digitizing
GG 1551.1	Geography of tourism	CO1: Analyses various types of tourism and their geo-backup
		CO2: Examine the elements of tourism and its significance in the growth and development of tourism
		CO3: Evaluate the significance of tourism in the cultural, social and economic milieu of geographic spaces
		CO4: Recognize the role of various travel agencies in tourism
		CO5: Understand the spatial dimensions of tourism attractions at state and local level
	Semester V	
GG 1641	Geography of Kerala	CO1: An in-depth knowledge on evolution and physical settings
		CO2: Appreciate Agricultural development of Kerala CO3: Evaluate Mineral and Power Resources of Kerala CO4: Analyse Industrial Development of the state
		CO5: Understanding Population composition and transportation networks of Kerala

GG 1642	World regional and economic geography	CO1: Understand the concept of a Region and classify methods of delineation of regions
		CO2: Identify major Natural Regions and differentiate their physical and economic Characteristics
		CO3: Classify Natural Resources and understands the concept of Sustainable Development
		CO4: Analyze the role of MNC's and TNC's in globalizing world trade
GG 1643	Practical paper IV- representation and interpretation of	CO1: Ability to represent socio-economic data through graphs and diagrams
	geographic data	CO2: Acquire skills to represent climatic data
		CO3 : Develop skills to analyse and interpret Weather maps
		CO4: Acquire basic awareness on Computers and MS Office applications
GG 1644	Practical paper V	CO1: Understand various land surveying
	foundation to surveying and levelling	techniques CO2: Sketch a field plan during ground-based
		survey CO3: Carry out survey based on principles and
		CO4: Estimate the area and relative height of field
		objects CO5: Assess the pros and cons of various surveying techniques CO6: Prepare tour report with critical analysis on field experience
GG	Environmental	CO1: Gains knowledge about concept, scope of
1661.1	geography & disaster management	Environmental Geography and components of environment
		CO2: Develop an idea about human- environment relationships
		CO3: Acquiring knowledge on environmental programme and policies

	CO4: Understanding the definition, classification of Hazards and disasters
	CO5: Acquires an idea about Disaster management cycle

B.A. HINDI			
Course	Course Title	Course Outcomes	
Code	SE	MESTED I	
UNI 1111 1	SE Common Course	NESTER -I	
HN IIII.I	Common Course (BA/Bs.c)-Hindi Katha Sahitya	 Recollect the main works of the representative fiction writers. Understand the craft of the fiction writers. Analyses and evaluate the works of the fiction writers they studied. Understand how the resource language is used as a medium in creative writing. 	
HN1111.2	- Hindi Vyavasayik Lekhan	 Appreciates prose writing in Hindi. Critically evaluates the contribution of prescribed writers of prose to Hindi Literature. Differentiates various types of letters based on their styles and components. Writes personal, official and business letters in Hindi. 	
HN 1131	Complementary Course1- Samakaleen Sahityik Vimarsh	1.To students understand the latest trends in literature critically evaluate different discourses in modern Hindi literature	
HN 1132	Complementary Course2- Pracheen Tatha Madhyakaleen Bharatiya Sanskriti	1.Students understand Ancient and medieval culture of India.2.Evaluate contribution of various dynasties to the cultural heritage of India	
HN1141	CORE COURSE 1- Hindi Kathetar Gadya Sahitya	 1.Understands the different forms of prose other than fiction. 2.Critically evaluates and appreciates the different prose forms. 3.Enriches the aesthetic sense of students 	

HN1211.1	Common Course(BA/Bs.c)-	1. Recollect the main works of the
	Hindi Nibandh Aur anya	prescribed writers.
	Gadya Vidhayem	2. Understand the forms of various
		Prose writing in Hindi.
		3. Analyse and evaluate the prose forms
		prescribed with respect of the craft and
UN 1221	COMDI EMENITA DV III	1 The students attain comprehensive
1110 1231	Kathakar Premchand	knowledge of Premchand as fiction
		2 Appreciates & critically evaluates
		prescribed short stories and novel of
		Premchand
		3. Evaluates the contribution made by
		Premchand in the field of Hindi fiction
		writing.
		_
HN1232	COMPLEMENTARY IV -	1. The students get a comprehensive
	Paristhithik Paat Aur Hindi	knowledge of how environmental issues
	Sahitya	are depicted in literature.
		2. Critically evaluates short stories &
		poems in the light of the enviormental
		Students are motivated to interfere in
		the enviornmental: issues around them
AaHN	CORE COURSE II- Hindi	1. The students gain
1241	Sahitya ka Ithihas(Ritikal	comprehensive
	tak)	knowledge of the
		classification of Hindi
		literature from the
		beginning to 1800 AD.
		2. Critically evaluate the
		contributions of poet to
		Hindi literature during
		the various periods.
	SEMEST	TER III
HN1311.1	Common Course	1. Critically appreciates play
	(BA/B.SC)– Hindi Natak	2. Understands difference

	vyakaran tatha Anuvad	 between spoken Hindi and written Hindi. 3. Writes grammatically correct sentences in Hindi. 4. Defines different parts of speech and identifies them in a given sentence. 5. Translates simple passages from English to Hindi.
HN 1331	Complementary Course V- Tulanatmak Adhyayan	 Understand the basic techniques of comparison of Hindi and Malayalam fiction and poetry. Compares fiction and poem of Hindi &English.
HN 1332	Complementary Course VI- Rajbhasha Prabandhan	 Attains comprehensive knowledge of official language Hindi. Does noting & drafting in Hindi. Understands official language Hindi management. Opens a career option that of translator/Hindi officer in Central Govt. Officers/PSUS/Banks.
HN 1321	Foundation Course- Soochana Praudyogiki aur Aadhunik Patrakarita	 Understands possibilities of computing in Hindi. Updates and expands Basic informatics skills. Understands modern trends in Journalism.
HN 1341	Core Course III- Hindi Sahitya ka Itihas.	 To give the students a detailed account of the trends in Hindi Literature since 1800. To familiarize the students with the Socio, economic, political situation since 1800 and its influence on Hindi Literature. To give comprehensive knowledge

		about the contribution of main litterateurs of the modern period.
	SEM	IESTER IV
HN 11.1	CommonCourse(BA/B.SC)- Hindi Kavitha Evam Ekanki	 To understand development of Hindi poetry through selected poems. To develop the faculty of appreciation of Hindi poems. To familiarize the students with the development of one act plays in Hindi Learn to appreciate Hindi one act plays.
HN1431	Complementary Course VII- Bharatiya Sahitya	 To familiarize the students with the concept of one Indian Literature To familiarize the students with renowned Indian writers through their representative works.
HN 1432	Complementary Course VII- Patkatha Lekhanva Vigyapan	 To know the technique and process of script Writing. To understand the form and procedure of Advertisment. To understand the importance of advertisement.
HN1441	Core Course IV- Hindi Natak aur Rangmanch	 To understand the development of plays in Hindi Literature. To understand the development of theatre in Hindi. To understand the district features of Hindi play through two representive plays. To understand the trends in Hindi plays upto 1980 through a representative play. To understand the changes in Hindi play since 1980 through a representative play.

HN1442	Core Course V- Vishesh Lekhak Agney	 1.Appreciates Agney as a poet & fiction writer. 2.Critically evaluates the contribution of ancient & modern poets to the development of Hindi poetry. 3.Elucidates key lines of poetry with reference to context. 4.Appreciates and evaluates one act play with respect to craft and subject.
	SEMES	FER -V
HN 1541	Core Course VI- Pracheen evam Madhya Kaleen Hindi Kavya	 Appreciates ancient & medieval poetry. Critically evaluates the poetry of representative ancient & medieval poets. Critically evaluates the contribution of these poets to Hindi literature. Elucidates key lines of the poems of ancient & medieval poets.
HN 1542	Core Course VII- Adhunik Hindi Kavya	 Understands and evaluates development of modern Hindi poetry. Appreciates modern poetry. Critically evaluates prescribed poets and their poems with repect to theme, style& craft.
HN 1543	Core Course VIII - Aadhunik Hindi Katha Sahitya	 Appreciates modern Hindi fiction. Critically evaluates modern Hindi fiction upto 1980 Inspires creativity in students. Understands and evaluates development of fiction in Hindi (upto 1980)
HN 15544	Core Course IX- Hindi Vyakaran	1.EnumeratesonVarnaanditsclassification2.Enumerates4Vikarisabd

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SEMESTER VI			
HN 1641	Core Course XI- Samakaleen Hindi Katha Sahitya	 1.Kindles creativity in students. 2.Students critically evaluate contemporary fiction. 3.Appreciates contemporary fiction. 	

HN 1642	Core Course XII- Bharatiya evam Paschatya Kvya Sasthr	Course Outcome: 1) understands various Indian and western literary theories. 2) Identifies prescribed chands and Alankars 3) understands the power of words. 4) Applies the knowledge gained in their creative writing.
HN 1643	Core Course XIII Anuvad: Sidhant tatha Prayog	Course outcome: (1) understands theories of Translation and limitations of Translation (2) Translates simple passages from English to Hindi and Vice Versa (3) opens career option that of Translator.
HN1644	Core Course XIV Hindi Vyangya Sahitya	Course outcome: (1) understands and evaluates satirical literature (2) understands use of satire as a tool while discussing socio- economic-political issues in literature
HN 1661	Elective Course -Jan Sanchar aur Hindi	Course outcome: (1) understands history of

	Cinema	world cinema (2) understands development of Hindi cinema (3) understands mass communication and cinema as medium of mass communication (4) critically evaluates film
HN 1645	Dissertation	Outcome: (1) Develops skill of enumeration (2) Develops critical evaluation

B.A. HISTORY			
Course code	Course title	Course outcomes	
	Sem	ester -1	
HY 1141	Discipline of History and Social Sciences: Methodology and Perspectives	 CO1: To understand the myriad disciplines of Social Sciences with particular reference to History and its methodology CO2: To understand the autonomy of the discipline of history and the pluri- multi character of the discipline CO3: To apply different theories in understanding past CO 4: To analyze and evaluate the historical process in relation to power relations of the society CO 5: To Evaluate the methodology and objectivity of the discipline of history CO 6: To create critical history introspecting power relations. 	
HY 1131.1 (Complementary for Economics)	History of National Movement in India Part I	 CO1: To understand the theoretical perceptions of colonialism to imperialism CO 2: To evaluate the socio-cultural roots of colonialism CO 3: To analyze the ideological and historical backdrop of the social reform movements and its reactions to the process of making of a nation CO 4: To account a theoretical insight of the national movement 	
HY 1131.2 (Complementary for Political Science)	History of Modern World Part I	 CO 1: To understand the theoretical and ideological background of revolution and its impact CO 2: To understand the political, socio-economic, changes of the 19th century world CO 3: To analyze the process of economic revolutions CO 4: To evaluate the new trends and ideas 	
Semester II			
HY1241	Global History: Socio- Cultural Formations in the Early Period	CO1 : To understand the theoretical and ideological background evolution of the world and human origin	

		CO2 : To understand the social evolutions of the early world
		the early world
		CO 3 : To analyze the process cultural formations of the early world
		Tormations of the early world
		CO 4 To evaluate the genesis and growth of
		state and society early world
UV 1221 2	History of National	CO1. To understand the theoretical
ПІ 1231.3	Movement in India Part	perceptions of nation and nationalism
(Complementary	II	CO 2: To evaluate the economic impacts of the
for Economics)		British Raj
		CO3: To analyze the ideological
		underpinnings behind the construction of nation in India on the milieu of theoretical insights
		lisights
		CO 4: To account a historiographical insight on Gandhian ideology
HY 1231.4	History of Modern	CO 1: To understand stages of colonialism and
	World Part II	colonial expansions CO 2: To understand the political outcome of world war I
(Complementary		
for Political Science)		CO 3: To analyze the process of socialist revolution in Russia
		CO 4: To critically evaluate the socialist policies after the revolution
	Seme	ester III
HV 1321	Reconstructing the Past	CO 1 To learn the theory and practice of
111 1321	Reconstructing the Tast	historical research as practiced by professionals
		CO 2: To understand the method of writing history.
		CO 3: To analyse the various tools pertaining
		to the writing of history
		CO 4: To construct original historical

		arguments based on primary source material research
HY1341	Understanding State and Society in Early India	CO 1 : Locate major pre-historic settlements and evolution of early farming communities CO 2 : Examine the evolution of Varna and Jati based social structure in Early India.
		CO 3 : Critique the social base of heterodox religions of 6th Century BC and its influence in power relations. CO 4 : Appraise the cultural achievements of the Guptas
		CO 5: Differentiate Tamil literary traditions and locate Tinai's across time and region.
HY 1331.5 (Complementary for Economics)	History of National Movement in India Part III	CO1 : To understand the historical roots of national movement CO2 : To evaluate the various social class role in the national movement CO 3 :. To analyze the theoretical perceptions on national movement CO 4 : To account the making process of nation in India
HY 1331.6 (Complementary for Political science)	History of Modern World Part III	CO1 : To understand the theoretical and ideological background of dictatorships CO 2 : To understand the process of World War II CO 3 :. To analyze the post war
		developments in the world CO 4 : To critically evaluate the role of India in the post war world
	Seme	ester IV
HY1441	State and Society in Pre-Colonial India	CO1 : To get an overview of the political, cultural, social and economic life in Medieval India
		CO 2: To focus on the regional cultures during the period.

		 CO 3: To appraise the linkage effect of the Medieval Period in subsequent centuries CO 4: Interpret the social cultural and administrative features during the Medieval Period CO 5: Develop practical skills helpful in the study and understanding of historical events
HY1442	Social Formations in Early South India	 CO1 : Understand the socio, economic and cultural condition of the pre modern South India CO 2 : To identify the sources for the history of South India CO 3 : Discuss the contribution of Pallavas and Cholas to South Indian art and
HY 1431.7	Contemporary India	CO 4 : To examine features of social formation in early South India CO 5: To appraise the transformation from Argo-pastoral to agrarian social formation by exploring areas like economy, society and historical process of state formation
(Complementary for Economics)		 CO 1 : To understand the process of hational integration CO 2 : To understand making process of the constitution CO 3 : To analyze the political and economic changes in the post-independent India CO 4 : To account the problems and issues in post independent India
HY 1431.8 (Complementary for Political Science)	Contemporary World	 CO 1 : To understand the theoretical and ideological concepts of neo colonialism CO 2 : To understand the growth and role of third worlds CO 3 : To analyze the process and functions of post-world war organizations CO 4 : To critically evaluate and debate on the contemporary issues of the world
	Semester V	

HY 1541	Core Major Trends in Historical Thoughts and Writings - Part I	 CO 1: To understand the myriad forms of representing past and differentiating history from the other forms of representation of past. CO 2: To analyse the genesis and development of historical thought and writing in different times and spaces or societies. CO3: To analyse the philosophical foundations of the discipline of history and its changing nature in accordance with time and space. CO 4: To evaluate the types of historical literature. CO 5: To create scientific and analytical history.
HY 1542 HY 1543	Capitalism and Colonialism: Forms of Resistance in India	CO 1: To understand the theoretical and ideological background of colonialism and capitalism CO 2: To understand the socio-economic and cultural impingement of colonial intervention CO 3: To analyze the process of colonizing India against the backdrop of theoretical insights CO 4: To evaluate the genesis and growth of critical intervention of the colonial subjects towards the British Raj CO 1 To understand the historical and cultural evolution through the sources of Kerala history CO 2 : To understand geographical feature and unique ness of Kerala
HY 1544	Making of a Nation in	and society of Kerala CO 4 : To understand and evaluate the significance of the social reform movements in Kerala
пт 1544	India	perceptions of nation and nationalism

		 CO 2 : To evaluate the making process of the nation in India CO 3 : To analyze the ideological underpinnings behind the construction of nation in India on the backdrop of theoretical insight CO 4 : To account a sound knowledge about changes that took place among the historians regarding the notion of national movement in India
HY1545	Transition to Modern World	CO 1: To understand the theoretical and ideological background of transformation towards the modern world CO 2: To understand the socio-economic, cultural and political intrusions of the process of modern world CO 3 : To analyze the process and global impacts of revolutions CO 4 : To evaluate the genesis and growth of new nationalism and its aftermath
	Historical Method: Mechanics of Project Writing	 CO 1: To understand the method of writing history CO 2: To understand the various tools pertaining to the writing of history an it's application in history writing CO 3: To understand the new theories and concepts in historical methodology and its application in analysing and interpreting the past
HY 1551.2 (Open Course)	Principles and Methods of Archeology	 CO1: Explain the evolution and growth of Archaeology in India CO 2: Define Archaeology and its relation with other disciplines CO 3: Examine the techniques of Exploration and Excavation.

		CO 4: Discuss different dating methods in Archaeology
		CO 5: Distinguish the nature, development and value of Archaeology as a discipline.
	Semester VI	
HY 1641	Major Trends in Historical Thought and Writing -PartII	CO 1: To understand the myriad developments in the historical thought and writing in the Modern West and Modern India
		CO 2: To analyse the colonial roots of Indian Historiography and evaluate the multiple Indian responses to it.
		CO 3: To evaluate the critical responses from the subaltern and Women's history approaches. CO 4: To evaluate the Total History approach and post-modern turn in historical thinking and writing.
		CO 5: To create critical history.
HY 1642	Modern Kerala	CO 1: To analyse the changing nature of Socio, political and economic structure of Kerala against the backdrop of Colonial Modernity.
		CO 2: To evaluate the process of socio- cultural symbiosis and the negotiations and contestations of myriad social categories
		CO 3: To evaluate the process of democratization of Kerala society and polity
		CO 4: To critically understand the Kerala Model Experience
HY 1643	Contemporary India	CO 1: To understand the process of national integration
		CO 2: To understand making process of the constitution

		CO 3 : To analyze the political and economic changes in the post-independent India CO 4: To account the internal contradictions in the post- independent India
HY 1644	Twentieth Century World	 CO 1 : To understand the theoretical and ideological background of socialist revolutions and its impact on the twentieth century world CO 2: To understand the political, socio-economic, cultural outcomes of two world wars CO 3: To analyze the process of authoritarian and totalitarian concepts CO 4: To critically evaluate the exertion of world peace organization CO 5: To understand the theoretical and ideological background of global politics and the world wars
HY 1661.4 (Elective)	Introduction to Museology: Methods and Conservation Practice	 CO1: To identify theoretical and practical knowledge of the collection, and preservation of museum objects CO 2: To differentiate types of preservation techniques CO 3: To demonstrate the aspects of artefacts collection and techniques of Display CO 4: Able to select museum collections and implement the knowledge of museum designing

B. A MALAYALAM

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SEMESTER I		
Course Code	Course Tittle	Course Outcomes
ML 1141	Novel Literature in Malayalam	 Analyze Malayalam novels' literary and cultural significance Interpret social and historical contexts influencing Malayalam novel writing
ML 1111.1	Malayala kavitha	 Demonstrate critical thinking and writing skills in Malayalam poetry. Appreciate diverse Malayalam poem traditions.
ML 1131.1	Kerala Culture Study	1.Students will gain a deeper understanding of kerala culture, traditions, historic events which enhance critical thinking on oriental life.
SEMESTER II		
Course Code	Course Tittle	Course Outcomes
ML 1241	Drama Literature	 Understand the historical and cultural context of Kerala's drama Identify key elements of Malayalam drama and theatre
ML 1211.1	Prose Literature	1.Demonstrate knowledge and critical evaluation of prose literature in Malayalam
		2 understand Kerala's cultural heritage and its representation in prose.
ML 1231.1	Kerala Culture study	1.Students will gain a deeper understanding of Kerala's unique traditions, cultural heritage, and literary significance.
SEMESTER III		
Course Code	Course Tittle	Course Outcomes
ML 1321	Information technology and	1. Enhance the ability to build a strong foundation in Informatics in connection with Malayalam literature.

	Malayalam	
ML 1331.1	Environmental study	 Analyze the intersection of Environmentalism and literature Understand philosophical perspectives on human-nature relationships.
ML 1341	literature philosophy :Eastern &Western.	 Identify critical themes and motifs in literature philosophy Interpret literary works through philosophical lenses.
ML 1311.1	Language Sense and Creativity	1.Demonstrate critical thinking on aesthetics , ethics, and social responsibility in literature
SEMESTER IV		
ML 1441	Modern Malayalam Poetry	 Analyze the relationship between visual art and literature Understand how art influences literary themes and vice versa
ML 1441	Modern malayalam poetry	1.Demonstrate critical &aesthetic thinking on the intersection of art and literature based on poetry
ML 1442	Literature criticism.	1.Students will gain a deeper understanding of comparative study on social art and literature, enhancing their creative and critical thinking skills
ML 1431	Subaltern studies &feminist literature	1.Attains deep know how in gender issues of society and paves the way of right understanding of feminine perspective.
SEMESTER V		
ML 1542	Short Story Study	1.Analyze short story structures, themes, and narrative techniques.2.Interpret character development, plot, and symbolism
ML 1543	Translation: Theory & Practice	 Understand translation theories and principles. Apply translation skills to literary texts.

ML 1544	Biography, Autobiography & Travaloge	 Analyze life writings and travel narratives. Identify themes, motifs, and literary devices.
ML 1545	History of Malayalam Language	1.Trace the evolution of Malayalam language.2.Understand its literary, cultural, and social contexts
ML 1551.2	Gender Justice Literature & Differently Abled Studies	1.Analyze literary representations of gender and disability.
ML 1551.4	Popular Literature Studies	 Examine popular literary genres and their cultural significance. Analyze themes, motifs, and narrative techniques in popular literature
SEMESTER VI		
ML 1641	History of Malayalam Literature:-part 2	 Understand the evolution of Malayalam literature from ancient to modern times. Analyze key literary movements, authors, and works
ML 1643	Pre-Modern Malayalam Poetry	1.Study the development of Malayalam poetry before the modern era.2.Analyze poetic forms, themes, and literary devices.
ML 1644	Folklore Study	 Explore Malayalam folklore and its cultural significance. Analyze folktales, myths, and legends, and their literary representations.
ML 1651	Oriental Aesthetics	 Understand the principles of Eastern aesthetics and literary theory. Analyze the application of Oriental aesthetics in Malayalam literature.

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Course Outcomes (CO) for First Degree Programme in Mathematics (Core)

Course Code	Course Name	Course Outcomes		
Semester 1				
MM 1141	Methods of Mathem- atics	CO1	Define, maxima, minima, critical points and points of inflection.	
		CO2	Apply the concept of differentiation in real life situation.	
		CO3	Explain logic and various proof techniques.	
		CO4	Illustrate decomposition of an integer into prime factors	
Semester 2				
Found ons MM 1241 Math atio		CO1	Describe the integration of a function and learn its physical interpretation through various examples	
	Foundati-	CO2	Demonstrate various applications of integration.	
	ons of Mathem atics	CO3	Compute tangent lines to polar curves, arc length and area.	
		CO4	Sketch conic sections such as parabola, ellipse and Hyperbola.	
		CO5	Distinguish the cylindrical and spherical coordinate systems.	
Semester 3				
MM 1341	-	CO1	Explain the concept of congruence	
	Number	CO2	Analyse linear system of congruence equations	
	Theory and Multivariable Calculus	CO3	Define the concept of limit, continuity, derivative of vectorvalued functions	
		CO4	Illustrate various applications of multivariable calculus.	
Semester 4				
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	Theory of Matrices and	CO1	Define the concepts of Matrix operations their algebraic properties, System of linear operations and their Matrix representation, Gauss - Jordan Elimination	
		CO2	Describe the concepts of Multiple integrals.	
WIWI 1441	Multivariable Calculus	CO3	Apply double and triple integrals to solve real life problems.	
		CO4	Describe the concepts potential functions, line integrals and surface integrals.	
Semester	· 5			
MM 1541	Real Analysis -I	C01	Understand the fundamental properties of Real Numbers that corroborate the formal development of Real Analysis.	
		CO2	Demonstrate and understand the theory of real sequences and series.	
		CO3	Ability to check the convergence or divergence of different sequences and series.	
		CO4	Understand and perform simple proofs.	
		CO5	Understand the concepts related to limit of functions.	
	Complex Analysis -I	CO1	Understand the algebraic operations of complex numbers, complex functions.	
MM 1542		CO2	Understand the limits, continuity and differentiablilty of complex functions.	
1111111342		CO3	Analyze analytic functions and other elementary functions.	
		CO4	Apply contour integration, Cauchy's theorem and Cauchy's integral formula.	
	Abstract	CO1	Apply algebraic ways of thinking.	
MM 1543	Algebra - Group	CO2	Examine abstractly about algebraic structures.	
Т	Theory	CO3	Analyse a given structure in detail.	

		CO4	Compare structures	
MM 1544	MM 1544 Differential Equations		Solve linear-first order ordinary differential equations.	
		CO2	differential equations with constant coeffcients.	
MM 1545	Linear	CO1	Understand elementary concepts in vectorspace, subspace, linear transformation, eigenvalues and eigenvectors.	
	Algebra	CO2	Find the bases and dimension of a vector space.	
		CO3	Diagonalize various types of matrices.	
MM M 1551.3 (C	Pasia	CO1	Getting acquainted with various number systems and learning the basic operations on these numbers.	
	Mathem atics (Open Course)	CO2	Learning to perform basic tasks related to ratio and proportions.	
		CO3	Getting exposed to basic statistical tools.	
		CO4	To be able to mathematically formulate real life problems and thus solve them.	
	Typesetting		Know the basics of typesetting an article for a scientific publication	
-	Scientific Documents with LATEX	CO2	Typeset mathematical expressions in a LATEX document	
	(Lab)	CO3	Understand the basics of making a slide-show presentation using Beamer.	
Semester 6				
		CO1	Understand the concepts of continuity, differentiability and integrability, more rigorously than what we done in the previous calculus course.	
MM 1641	Real Analysis	CO2	Understand the fundamental properties of continuous functions on intervals.	
	-11	CO3	Understand the basic theory of derivatives.	
		CO4	Get an exposure to the theory behind the integration basic theory of derivatives	

		CO1	Understand Sequence, Series and Power Series Representation of Complex Function	
		CO2	Understand Singular Points, Zeros and Residue of Complex Functions	
MM 1642	Complex	CO3	Apply Tayor's Series, Laurent Series and Residue Theorem	
	-II	CO4	Understand Conformal Mapping, Linear Fractional Transformation and Cross-ratio.	
		CO1	Upon Completion of this Course, students will be able to construct sub structures	
MM 1643	Abstract Algebra-	CO2	Understand and prove fundamental results and solve algebraic problems using appropriate techniques	
	Theory	CO3	Demonstrate insight into abstract algebra with focus on algebraic theories.	
		CO4	Develop new structures based on given structures.	
		CO1	Categorise and solve different integral equations using various techniques.	
MM 1644	Integral Equations	CO2	Enable to apply LaplaceTransforms to various industry related and applied problems.	
		CO3	Analyse the properties of certain functions using Fourier series	
MM 1645 Programmi ng with Python		CO1	Aquainted with writing and executing programmes in Python.	
		CO2	Able to use Python for basic math computing and visualizing data.	
		CO1	To define and understand the fundamental concepts of graph theory	
MM	Graph Theory (Elective Course)	CO2	To apply the concepts and theorems that are treate in the course for problem-solving and proofs	
1661.1		CO3	To write combinatorial proofs, including those using basic graph theory proof techniques such as minimal counter examples, double counting, and Mathematical induction	
Course Outcome(CO) for Complementary Course in Mathematics for First Degree Programme in Chemistry				

Semester 1			
Course Code	Course Name		Course outcomes
		CO1	Learn various techniques of Differentiation
	Differential Calculus	CO2	Learn applications of Differentiation
MM 1131.2	and sequences	CO3	Learn to find maxima and minima of functions of two variables
	and series	CO4	Introduce sequences, their limits, convergence and some related theorems.
Semester 2			
		CO1	Learn various techniques of integration
	Integral calculus	CO2	Understand applications of integration
MM 1231.2	and vector differentiat ion	CO3	Evaluate double and triple integrals
		CO4	Find dot and cross products, directional derivatives and gradient of vector valued functions
Semester 3			
	Linear Algebra, Probablity Theory & Numerical Solutions	CO1	Learn basic Linear Algebra
MM 1331.2		CO2	Understand probability and standard distributions
		CO3	Learn to solve algebraic and transcendental equations by numerical methods.
Semester 4			
MM 1431.2	Differential Equations.	CO1	Learn to solve ordinary differential equations.
	Vector Calculus,	CO2	Learn vector integration – line, surface and volume integrals.
	and Abstract Algebra	CO3	Introduce Groups, Rings and Fields
Course Outcome (CO) for Complementary Course in Mathematics for First Degree Programme in Physics			

Semester 1				
MM 1131.1		CO1	Learn various techniques of Differentiation	
	Calculus and sequences and series	CO2	Learn various techniques of Integration	
		CO3	Learn to find maxima and minima of functions of two variables	
		CO4	Introduce sequences, their limits, convergence and some related theorems.	
Semester 2				
	Application	CO1	Learn applications of derivatives	
	Application s of calculus and vector differentiat ion	CO2	Learn applications of integration	
MM 1231.1		CO3	Learn to find maxima and minima of functions of two variables	
		CO4	Introduce sequences, their limits, convergence and some related theorems	
Semester 3				
	Linear Algebra, Special Functions and Calculus	CO1	Find solution of Linear equations and eigen values	
MM 1331 1		CO2	Learn to solve ordinary differential equations	
WIWI 1351.1		CO3	Understand vector fields and vector integration	
		CO4	Familiar with special functions.	
Semester 4				
MM 1431.1	Fourier Series,	CO1	Learn Fourier series and Fourier Transforms	
	Complex Analysis	CO2	Introduce calculus of Complex functions	
	anu Probability Theory	CO3	Understand probability and standard distributions	

B.Sc. Physics						
Course code	Course title	Course outcomes				
	Semester I					
PY1141	Basic Mechanics and Properties of Matter	CO1: Correlate the knowledge gathered to the immediate experimental curriculum.				
		CO2: Distinguish the dynamics of rigid bodies of different shapes.				
		CO3: Explain the implications of conservation laws.				
		CO4: Interpret the flavor of classical fields from oscillations and waves.				
		CO5: Handle the known problems in elasticity, surface tension and viscosity in a more mathematically rigorous way.				
	Sei	mester II				
PY 1241	Heat and	CO1: Compare thermal conductivity of various types				
	Thermodynamics	of conductors and explain the radiation of heat.				
		CO2: Differentiate between various thermodynamic processes.				
		CO3: Judge the efficiency of engines by comparing the performance of various vehicles.				
		CO4: Distinguish entropy and available energy in various thermodynamic processes.				
		CO5: Differentiate between various phase transitions.				
	Sen	nester III				
PY1341.3	Electronic & Electrical	CO1: Distinguish between the passive and active				
	Instrumentation and Circuit Design	electrical components.				

		CO2: Identify electronic components.
		CO3: Recognize electrical and electronic circuits.
		CO4: Design and construct simple electrical and electronic circuits.
	Ser	nester IV
PY 1441	Electrodynamic s	CO1: Identify the principles of electrostatics and apply it to the solutions of problems relating to electric field and electric potential, boundary conditions and electric energy density.
		CO2: Identify the principles of magnetostatics and apply it to the solutions of problems relating to magnetic field and magnetic potential, boundary conditions and magnetic energy density.
		CO3: Recognize the concepts related to Faraday 's law, induced emf and Maxwell's equations.
		CO4: Compare the properties of electromagnetic waves in vacuum, and matter.
		CO5: Analyse the growth and decay of transient currents in different electrical circuits.
		CO6: Compare the properties of different ac circuits.
PY1442	Basic Physics Lab	CO1: Familiarize with the precautions and steps of systematic recording of an experiment.
		CO2: Understand multiple experimental techniques for determining physical quantities.
		CO3: Develop skill in setting up of apparatus for accurate measurement of physical quantities.
		CO4: Apply and illustrate the concepts of mechanics, heat and acoustic experiments.

PY 1442.1	Industry Based Lab :	CO1: Design and construct variable dc power
	Electronic & Electrical	supply.
	instrumentation and	
	circuit design	CO 2: Design and construct electrical circuits.
		CO 2. Understand different transistor configurations
		and their Characteristics
		and then characteristics.
		CO 4: Understand the working of clamper circuits.
	Sei	mester V
PY1541	Classical, Statistical	CO1: Recognize the mechanics of a single and a
	and Relativistic	system of particles under different force fields.
	Mechanics	CO2 Salar different markenial markland in
		CO2: Solve different mechanical problems in classical mechanics using Lagrangian formalism
		classical incentances using Eaglangian formalism.
		CO3: Generalize Hamiltonian mechanics to solve
		various problems in classical mechanics.
		CO4: Able to define phase space, microstate,
		macrostate and ensemble.
		CO5: Learn to distinguish different statistical
		distributions and judge which distribution applies to a
		given system.
		COG. Distinguish in articland non-inarticl frames of
		references
		CO7: Understand the concept of Galilean and
		Lorentz Transformations and their applications.
DV1542	Classical and Made	CO1. Explain the different basis shares of the lite
PY1542	Classical and Modern	COI: Explain the different basic phenomena of light
	Opties	Polarization.
		CO2: Differentiate between the two types of
		diffraction, viz., Fresnel and Fraunhofer diffraction.
		CO3: Apply diffraction theory in Rayleigh's
		criterion for resolution and in finding resolving power
		of diffraction grating.

		CO4: Distinguish between normal and anomalous types of dispersion and to derive region-specific dispersion formulae from the general dispersion relation.
		CO5: Understand the different methods for the production of plane polarized light and also the different rules governing polarization.
		CO6: Have a good knowledge about the different types of polarizations, its theory and the production/analysis methods.
		CO7: Apply the concept of polarization in studying Nicol prism, quarter wave and half wave plates.
		CO8: Explain the basic constituents of a laser, different types and working.
		CO9: Obtain an idea about non-linear optical processes especially the different harmonic generations.
		CO10: Gain knowledge about the principle and different types of optical fibers.
		CO11: Understand the applications of optical fibers in different fields of science.
		CO12: Have knowledge on the principles of holography, its production and different types.
PY1543	Semiconductor Devices	CO1: Recognize the network theorems.
	and Circuits	CO2: Describe diode characteristics.
		CO3: Design power supply circuits by applying junction diodes.
		CO4: Design single stage transistor amplifiers, oscillators and operational amplifiers.
		CO5: Understand the concept of modulation.

		CO6: Explain the working of special devices, FET, MOSFET, UJT.
PY1544	Atomic and Molecular Physics	CO1: Recognize different atomic models, their significances, properties, merits and demerits.
		CO2: Distinguish between atomic and molecular spectra and their relevant uses.
		CO3: Understand the features of X- ray spectra
		CO4: Recognize different spectroscopic techniques.
PY 1551.2	Open Course: Astronomy and Astrophysics	CO1: Differentiate between astronomy and astrophysics and understand the different branches, scientific methods and scope of astronomy.
		CO2: Understand earlier astronomical works and the different laws involved in astronomy.
		CO3: Understand planets and solar system objects and apply the laws of physics to describe their structure and characteristics.
		CO4: Understand the evolution and properties of stars and galaxies and apply the different laws of physics to describe the structure and evolution of stars, galaxies and the universe.
	Sen	nester VI
PY 1641	Solid State Physics	CO1: Able to distinguish types of crystals according to their structure.
		CO2: Able to illustrate the concepts of unit cell and lattice of crystals.
		CO3: Able to discuss diffraction of X rays by crystals and to demonstrate its experimental techniques.
		CO4: Able to describe and evaluate mechanical, electrical and magnetic properties of metals.

		CO5: Learn to discuss and evaluate dielectric properties of materials.
		CO6: Able to discuss types of magnetic properties of materials.
		CO7: Learn to explain different physical characteristics of superconductors.
		CO8: Able to illustrate theoretical formulation of superconductors.
PY 1642	Nuclear and Particle Physics	CO1: Identify nuclear constituents and general properties of nuclei.
		CO2: Describe nuclear forces, phenomena of radioactivity & radiation Hazards.
		CO3: Distinguish different nuclear models.
		CO4: Understand different types of nuclear reactions, fission & fusion energies and applications.
		CO5: Recognize different particle detectors and accelerators.
		CO6: Classify elementary particles and relate their properties.
PY1643	Quantum Mechanics	CO1: Recognize the limitations of Classical Physics to explain certain physical phenomena.
		CO 2: Identify the quantum mechanical concepts applicable to Physical systems.
		CO3: Apply the concepts of Quantum Mechanics to solve problems.
		CO4: Derive Equations of motion of Physical systems using quantum concepts.
PY1644	Digital Circuits and Computational Physics	CO1: Explain different number systems and their mathematical operations.
		CO2: Differentiate different logic gates.

		CO3: Summarize digital circuits and their
		functions
		CO4: Develop and compile programs in Python.
		CO5: Apply numerical methods to solve physical
		problems.
PY 1661.2	Elective Course:	CO1: Understand the structure of universe.
	Research Methodology	CO2: Knowledge about evolution of stars.
		CO3: Gain knowledge about Earth's atmosphere.
		CO4: Understand research methodology, ethics in
		research, report writing and plagiarism.
PY1645	Advanced Physics Lab I	CO1: Understand how to use a spectrometer.
		CO2: Obtain a practical understanding of the refraction of light by a prism.
		CO3: Use basic laws to study the spectral and optical properties of the given prism and grating.
		CO4: Understand the working of different electrical circuits and use it to determine different physical quantities.
PY1646	Advanced Physics Lab	CO1: Understand the working of PN junction diodes
	II	Zener diodes and their applications.
		CO2: Understand the working of transistors and their
		applications.
		CO3: Understand the working of operational amplifiers and their circuits.
		CO4: Understand computational programming using Python and apply it to find the solution to different physical problems.

COURSE OUTCOME

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COURSE CODE	COURSE TITLE	COURSE OUTCOMES
SEMESTER 1	: PERSPECTIVES OF SOCIAL AND	1.Understand the nature and
	POLITICAL SCIENCES	relevance of social and political
		sciences
PS 1141		2.Basic knowledge in the
		application of scientific method
		in social sciences and its
		limitations
		3.Enable the students in placing
		political science in the wider
		domains of social sciences and
		their interrelations
		4.familiarise Students with
		emerging terrains of political
		science and its critical evaluation
COMPLEMENTARY COURSE 1	INTRODUCTION TO	1.Understand the meaning
		nature and scope of Political
		science and its relation with
		2 Analyse and compare various
		2. Analyse and compare various
		science
		3 Critically evaluate different
		ideologies in Political Science
		and its applicability.
		4.Understand the structure and
		functions of state system and
		various institutions within it
SEMESTER 2.	INTRODUCTION TO POLITICAL	1.Understand the nature and
PS 1241	THEORY	relevance of Political theory
		2.Basic knowledge about various
		approaches to the study of
		Political theory
		3.Enable the students in the
		application of various theories
		and concepts of Political Theory
		4.Critically evaluate the different
		perspectives of key concepts of
		political theory
COMPLEMENTARY COURSE 2		1.identify the prominent
	POLITICS	reatures of the Indian
		Constitution.
		z.Awareness about one s own
		ngnis and duties as well as a
		sense or respect and protection

		of other's rights
		2 Comiliarize the composition
		3.Familiarize the composition
		and functions of various organs
		of Government
		4.Critically evaluate Indian
		political system and the
		democratic processes.
SEMESTER3.	CYBER POLITICS	1.Understand and describe the
PS 1321		basic concepts and ideas related
		cyber politics
		2.familiarise the features of
		various social media platforms
		and the emergence of internet
		based public sphere.
		3.capability to explain the
		dynamics and processes
		associated with cyber politics
		both nationally and globally
		A Acquired knowledge in the
		field of cybor politics by
		angaging the critical issues
		engaging the chical issues
		affecting the rights and
		freedoms of the citizens in the
		country.
SEMESTER 3	INDIAN CONSTITUTION	1. Understand the major
PS1341		features and the essence of
		Indian constitution
		2. create awareness about one's
		own rights and duties as well as
		a sense of respect and
		protection of others rights
		3. familiarise the students about
		the composition and functions of
		various Institutions of Union and
		federal Governments.
		4. critically evaluate Indian
		iudicial system and recent
		developments
Complementary course	Dynamics of Indian Politics	1.Understand and evaluate
		various types of federalism
		2 Understand about the types of
		Party System political Parties
		and Its Dynamics
		and its Dynamics
		5. Understand and evaluate
		emerging trends in Indian

		Democracy. 4.Critically analyse the major factors which pose threat to Indian Democracy and political System
Semester 4	Dynamics of Indian Politics	1.Understand the peculiarfeatures of Indian federal systemand nature of Centre-staterelations2.Critically examine thetendency of regionalism andsecessionism in India3.Understand and evaluateemerging trends in IndianDemocracy4.Critically analyse the majorfactors which pose threat toIndian Democracy and politicalSystem.
	Introduction to Comparative Politics	 1.Understand the basic concepts and changing nature of comparative politics 2.Compare and analyse the basic features of constitutional development in major countries 3.Familiarise the students about the Federal and Unitary systems of major Political systems and evaluate the changing dimensions 4.Acquire ability to compare and analyse the political structures in different political systems in a comparative perspective.
Complementary course	International politics	 Understand the nature and the scope of International Relations. Acquire basic ideas about basic concepts and theories of International Relations Equip the students to evaluate nature of International organizations and its impact on global politics. Critically examine the nature

		c · · · · · · · · · · · · · · · · · · ·
		of major issues in global politics.
Semester 5	Public administration	1.Converse with meaning and
		nature of Public Administration
		and familiar with different
		approaches in public
		administration
		2.Understand critically various
		principles of organisations and
		the role of Chief Executive and
		independent Regulatory
		Commissions
		2 Comprehend the significance
		of Duropueropy in Dublic
		of Bureaucracy in Public
		Administration and familiarize
		the recruitment process and
		training
		4.Understand the features of
		Financial Administration in India,
		focusing on the budgetary
		process and the role of the CAG
		5.Understand the emerging
		trends in Public Administration
		in India.
	Ancient and medieval Political	1.Acquire understandi ng on the
	thought	ancient Greek ideas on state and
		society
		2.Understand and analyses the
		Roman Political ideas and
		compare it with Greek ideas
		3 Understand ancient Indian
		wisdom and compare it with
		athenidees
		other ideas
		4.Analyse and evaluate the
		Medieval political ideas critically
	International Polations	1 Understand the nature and the
		Scope of International Deletions
		Scope of International Relations
		2.Impart basic knowledge about
		basic concepts and theories of
		International Relations.
		3.Enable the students to
		evaluate foreign policy decisions
		and its implications on
		Diplomatic relations
		4.Critically evaluate the various

		issues of global politics
	Research methodology	1.Introduce the nature and
		modalities of research in social
		science in general and political
		science in particular
		2.Understand the major steps
		involved in arriving at a research
		topic and developing it further.
		3.Expose students to the
		practicalities of research in
		Political Science, particularly in
		regard to data collection
		A Facilitate students to critically
		analyse the collected data and
		croate a scientific report of their
		own
	Llumon vichto in India	Own.
	Human rights in India	1. Taminarise with Human Rights
		In the international context to
		aware about their global
		significance barring state
		borders and other limitations.
		2.Understand the role and
		functions of international human
		rights mechanisms in the
		changing international order
		3.understand the institutional
		arrangements in India at various
		levels to protect Human Rights.
		4.develop a critical
		understanding of the issues
		faced by socially excluded groups
		like Dalits, Women, Children,
		Differently Abled, Transgender
		at the national level
OPEN COURSE	HUMAN RIGHTS IN INDIA	1.familiarise with Human Rights
		in the international context to
		aware about their global
		significance barring state
		borders and other limitations
		2.understanding about the
		constitutional provisions and
		statutory institutions dealing
		with Human Rights.
		3.critical assessment of the
		human rights issues faced by
		naman ngina issues racea by

		vulnerable sessions in the state of Kerala 4.critical understanding about the new dimensions of human rights in general.
Semester 6	Modern Political thought	 Understand and evaluate social contract theories. Analyse the influence of utilitarianism and Idealism Evaluate contemporary Social realities by using Socialist theoretical tools. Analyse the concept of governmentality Critically Evaluate the theories of Gandhi and Ambedkar
	State and society in Kerala	 1.Understand the major social and political trajectories that moulded the modern state of Kerala 2.Understand the present political structure of Kerala and evaluate the deep-rooted societal identities of Kerala and relate its relevance. 3.Analyse the aspects of political economy of Kerala 4.Demonstrate the understanding of the Contemporary discourses in Kerala's society.
	Decentralisation and participatory democracy	 1.acquire knowledge on the concept of decentralisation and to be able to understand its theoretical perspectives 2.understand the concept of participatory democracy and to internalise its values 3.evaluate the emergence of decentralisation in India and to analyse the features of 73rd and 74th Constitutional Amendment Act 4.familiarise and practice the contrivances of participatory

		democracy
	New social movements	 Understand the notion of New Social Movements using major approaches and theories. Explore the gender-based New Social Movements with examples from the Western and Non- Western World. Evaluate the trajectory and impact of major New Social Movements in India. Analyse the nature of New Social Movements in Kerala and the underlying reasons for its emergence.
	Project/Dissertation	1.Understand the Preliminary part of the making of Dissertation 2.Draw an Introduction to your own topic 3.Plan your Chapters and Analyse the content 4.Produce a Research Report with Conclusion 5.Generate a List of Selected Bibliography
ELECTIVE	MEDIA AND POLITICS	 understand the crucial role of media and political communication in a democracy Acquire the ability to analyse the nature of Indian media in the background of globalisation and developmental problems. understand changes in media such as new media, Political Reporting in India, consent manufacturing g etc. attain practical knowledge and training in media related activities

BA SANSKRIT GENERAL

COURSE CODE	COURSE TITLE	COURSE OUTCOME
	SEMESTER I	
SK 1141	HISTORY OF SANSKRIT LITERATURE	CO1. To understand the different stages in the history of Sanskrit Literature. CO2. To understand the different forms of literary works in Sanskrit. CO3. To develop an aptitude towards literature. CO4. To promote creativity, imagination and innovation. CO5. To compare Sanskrit Literature with the other literary works of the world.
SK 1131	POETRY & PROSE	 CO1.To promote creativity, imagination and innovation. CO2.To inculcate the human values. CO3. To improve the elementary skills in learning Sanskrit. CO4. To make the students to understand simple literary material. CO5. To give necessary grammatical inputs.
SK 1132	FUNCTIONAL SANSKRIT	CO1. To know the various noun forms in Sanskrit.

		CO2. To create awareness of verbal forms in Sanskrit. CO3. To create the skills of communication and writing in Sanskrit.
	SEMESTER II	
SK 1241	OUTLINES OF INDIAN CULTURE	CO1.To understand the South Indian Culture. CO2. To inculcate moral values through the study of ancient educational institutions. CO3. To create awareness of the reform movements in Kerala. CO4. To understand the contributions of various Kingdoms to art and literature.
SK 1231	ANCIENT INDIAN VISION ON ETHICS	CO1. To understand the Indian Visionson ethics. CO2. To inculcate moral values through the study. CO3. To inculcate integrity in action, morality in practical life etc.
SK 1232	LYRIC & PROSODY	CO1:To understand the nature of Sandesha Kavyas. CO2:To familiarise Kalidasa's approach to nature and literature. CO3:To know the metres and their peculiarities. CO4:To practise various metres.

	SEMESTER III	
SK 1322	SANSKRIT AND COMPUTER	CO1.To understand the
		basic concepts in
		informatics.
		CO2.To impart functional
		knowledge and skills in
		using computers.
		CO3.To understand the
		language technology
		especially related to
		Sanskrit for computer
		processing.
		CO4.To review the digital
		knowledge resources in
		Sanskrit and Indology.
SK 1341	SANSKRIT GRAMMAR - I	CO1. To use the language
		freely without grammatical
		mistakes.
		CO ₂ . To know the
		practical knowledge of
		splitting in the Sanskrit
		language.
		CO3. To understand the
		technical terms in Sanskrit
		Grammar.
		CO4. To promote
		analytical knowledge of
		Karakas in Sanskrit.
		CO5. To know the
		formation of norms in
		Sanskrit.
SK 1331	SANSKRIT POETICS	CO1. To understand Indian
		literary theories in general.
		CO2. To understand the
		importance of Guna theory
		of Dandin.
		CO3. To understand the
		Dhvani theory with
		reference to Kavyaprakasa.

SK 1332	KAVYA AND ALANKARA	CO4. To evaluate the poetic excellence of Kavyas in the light of Guna and Dhvani theories. CO1.To get a general awareness of the poetic excellence of Kavyas. CO2.To understand the appreciation of literature using the best specimens provided. CO3.To understand simple literary materials. CO4.To understand the figures of speech. CO5.To differentiate each Alankaras from other Alankaras.
	CEMEC/PED IX/	
SK 1441	Research Methodology in Sanskrit	CO1:To understand the procedure of research. CO2:To get an awareness of prepaaring articles CO3:To understand transliteration
SK 1442	DRAMA AND DRAMATURGY - I	CO1.To understand the origin and development of Sanskrit drama. CO2. Appreciate Sanskrit drama using the best techniques provided. CO3.To know and to practise drama techniques.

SK 1431	CHAMPU AND STOTRAKAVYA	CO1.To understand ancient Indian culture and tradition. CO2. To articulate the idea of keeping morality in life. CO3. To formulate and to develop good personality in social life. CO4. To understand Sanskrit champu style. CO5. To enjoy Sanskrit stories.
SK 1432	DHARMASASTRAS IN SANSKRIT	CO1:To know the important schools of Dharmasatra. CO2:To acquaint with Indian views on social and individual life. CO3:To comprehend the ideas of family life. CO3:To inculcate integrity in action, morality, practical life and altruistic activities.
	SEMESTER V	
SK 1541	CONTRIBUTION OF KERALA TO SANSKRIT LITERATURE	CO1:To aware of Sanskrit poetic traditions of Kerala. CO2:To understand and appreciate the poetic beauty of Sanskrit Mahakavyas from Kerala. CO3:To familiarize the students with the Sanskrit Mahakavyas from Kerala.

SK 1542	MAHAKAVYAS	CO1:To understand
		Sanskrit poetry.
		CO2:To aware of the
		Mahakavyas in Sanskrit.
		CO3:To develop esthetic
		experience.
		CO4:To aware of poetic
		beauty in Sanskrit
		Mahakavyas.
SK 1543	TECHNICAL LITERATURE	CO1:To know the
	IN SANSKRIT	technical literature in
		Sanskrit.
		CO2:To know different
		disciplines and their
		relation with Sanskrit.
		CO3: To apply the acquired
		knowledge in the day to
		day life
SK 1544	ELEMENTS OF INDIAN	COI: To understand the
	PHILOSOPHY -I	Tundamentals of Indian
		CO2:To anoble the
		cO2. To enable the
		thinking
		umking.
SK 1545	DRAMA AND	CO1:To understand the
	DRAMATURGY - II	origin and development of
		Sanskrit drama especially
		Bhasa's plays.
		CO2:To appreciate
		Sanskrit dramas using the
		best techniques provided.
		CO3:To know and to
		practise drama techniques.
SK 1551	INDIAN LITERARY	CO1:To understand the
	CRITICISM	literary thoughts in
		Sanskrit.
		CO2:To practise literary
		analysis and literary

		criticism using the best
		specimens.
		CO3:To think about the
		essence of poetry.
		CO4:To understand
		literary works of famous
		poets.
	SEMESTER VI	
SK 1641	ELEMENTS OF INDIAN	CO1:To understand the
	PHILOSOPHY II	fundamentals of Indian
		Philosophy.
		CO2:To aware of the
		concept and definition of
		yoga.
		CO3:To achieve the
		relevance of yoga in
		modern science.
SK 1642	LINGUISTICS	CO1:To know the origin
		and development of
		languages.
		CO2:To compare the
		language families with
		special reference to Indo-
		Aryan family.
		CO3:To understand the
		changes of meaning due to
		semantic change.
SK 1643	VEDIC LITERATURE	CO1:To understand the
		Vedas and Vedic hymns.
		CO2:To aware the nature
		of Upanishads.
		CO3:To understand the
		philosophy of Upanishads.
SK 1644	SANSKRIT GRAMMAR- II	CO1:To use language
		freely without any mistake.
		CO2:To formulate the
		different forms of the root
		'Bhu'.

		CO3:To know the language by compounding the words.
SK 1661	TRANSLATION - THEORY AND PRACTICE	CO1:To understand the influence of translation on literature. CO2:To practise translations. CO3:To understand the translation of Malayalam works into Sanskrit.
	ADDITIONAL LANGUAGE	
	SEMESTER I	
SK1111.1	Epics and Stotrakavyas	CO1. Understand the Epic and Stotrakavya literature. CO2: Understand the narrative methodology of epics CO3:Understandto develop good personality and philosophical thinking. CO4:Analyse the relevance of Kerala Sanskrit Poets
	SEMESTER II	
SK1211.1	Prose and Grammar	CO1:Understand the features of Prose literature in Sanskrit.

		 CO2:Understand thesimple prose style of Sanskrit literature. CO3:Understand the simplest form of language as verses and to understand the meaning. CO4:Stimulate the students humanistic outlook on life and maintain an emotional harmony in their lives
	SEMESTER III	
SK1311.1	Nataka and Alankara	CO1: Understand the classical literature in Sanskrit CO2: Familiarize the system of Sanskrit dramatic tradition 3. Understand the main features of Bhasa works CO3: Understand the significance of Alankara in poetry
	SEMESTER IV	
SK1411.1	Mahakavya and Vrita	CO1:Understand the Classical literature in Sanskrit CO2:Understand the main features of Kalidasa works CO3:Understand the significance of Vrttas in poetry

		CO4:Understand the lakshna and usages of the Vrttas CO5:Understand the determination of Guru and Laghu
	SANSKRIT COMPLEMENTARY FOR MALAYALAM SEMESTER I	
Sk.1131.2	Poetry and Grammer	CO1:Understand the basic principles of Sanskrit Grammar CO2:Make awareness about the simple style of kavya literature CO3:Recognized the literary merits of Sri Sukumara Kavi CO4:Understand the noun forms in all genders CO5:Understand the forms of root Bhu and Vandh
	SEMESTER II	
Sk.1231.2	Fables,Nataka& Subhashita	CO1:Make awareness about the dramatic literature and style of Bhasa.

		CO2:Make awareness about the Prose style in Sanskrit Literature CO3:To improve student's vocabulary for better reading and writing CO4:To understand the ideas of ancient Indian stories for the betterment of life
	SEMESTER III	
Sk.1331.2	Poetry & <u>Poetics</u>	CO1:Understand the famous poets Mahakavi Kalidasa and Acarya Dandi CO2:Make awareness about the Poetic style in Sanskrit Literature CO3:To familiarize different types of Kavyas and its definitions CO4:Understand the Sanskrit Poetics
	SEMESTER IV	
Sk.1431.2	Prose and Drama	CO1:Understand the famous poets Mahakavi Kalidasa and Acarya Dandi CO2:Make awareness about the Poetic style in Sanskrit Literature

	CO3:To familiarize
	different types of Kavyas
	and its definitions
	CO4:Understand the
	Sanskrit Poetics

P.G. AND RESEARCH DEPARTMENT OF ZOOLOGY

COURSE OUTCOMES

B.Sc. Zoology

Course	Course Title		Course outcomes
Code			
	I		Semester - I
ZO 1141	Animal Diversity I	CO 1.	Students get an in-depth knowledge of the diversity in
			form, structure and habits of invertebrates.
		CO 2.	Students understand basics of systematics and the
			hierarchy of different categories.
		CO 3.	Get an overview of economically important invertebrate
			fauna.
ZO 1131	Animal Diversity I	CO 1.	Get a concrete idea of the evolution, hierarchy and
			classification of invertebrate phyla
		CO 2.	Understanding the basics of systematics by learning the
			diagnostic and general characters of various groups
		CO 3.	Get an overview of typical examples in each phyla
		CO 4.	Understand and study the economic importance of
			invertebrates with the special reference to insect pests
	•		Semester - II
ZO 1241	Animal Diversity II	CO 1.	Learn the general characteristics and classification of
			different classes of vertebrates.
		CO 2.	Understand the vertebrate evolutionary tree.
		CO 3.	Understand general aspects of applied interest.
ZO 1231	Animal Diversity II	CO 1.	Learn the evolution, hierarchy and classification of
			different classes of chordates
		CO 2.	Get an overview of the morphology and physiology of
			typical examples.
		CO 3.	Study the adaptations and economic importance of
			specific vertebrates
			Semester III
ZO. 1341	Experimental	CO 1.	Learn the fundamental characteristics of science as a
	Zoology,		human enterprise
	Instrumentation	CO 2.	Understand how science works
	Biostatistics and	CO 3.	Apply scientific methods independently
	Bioinformatics		

ZO 1331	Functional Zoology	CO 1.	Study the structure and function of each system in the
			human body.
		CO 2.	Study the etiology of common physiological disorders,
			syndromes and diseases
			Semester IV
ZO 1441	Ecology, Habitat	CO 1.	Students get basic knowledge on ecosystem, food chain,
	Destruction &		food web and energy flow.
	Disaster	CO 2.	Students acquire general awareness on pollution and their
	Management		impacts.
		CO 3.	Imparts basic knowledge on ecosystems and their
			functioning.
		CO 4.	Students learn about various types of anthropogenic
			pressures on ecosystem, related degradation and
			management measures.
		CO 5.	Students get awareness of toxicants, their impacts on
			human health and environment and remedial measures.
		CO 6.	Create awareness about disasters, prevention and
			mitigation measures.
ZO 1431	Applied Zoology	CO 1.	Learn the basic principles involved in the culture and
			breeding of common edible and ornamental fishes of
			Kerala and the art of aquarium keeping.
		CO 2.	Get a basic understanding of human genomics and
			reproductive biology including stem cell research and
			prenatal diagnostic techniques
ZO 1442	Practical I -	CO 1.	Students learn anatomy through simple dissections and
	Instrumentation,		mountings on permitted species.
	Animal Diversity I	CO 2.	Students get familiarized with various organ systems by
	and Animal		examining approved animals.
	Diversity II	CO 3.	Emphasize the adage that 'seeing is believing' by
			observing typical examples and economically important
			specimens.
		CO 4.	Students learn the working principle of different
			scientific instruments.
		CO 5.	Students become familiar with economically important
			species.
		CO 6.	Strengthen what students studied in theory by giving
			them an opportunity to have first-hand experience in lab

			as well as outside.
ZO 1432	Practical I - Animal	CO 1.	Familiarize students with conventional organ system in
	Diversity I &II,		common, easily available animals.
	Functional Zoology	CO 2.	Emphasize the adage that 'seeing is believing' typical
	and Applied		examples and economically important specimen
	Zoology		(preserved) to be studied. \cdot
		CO 3.	Study and carry out routine clinical analysis of blood and
			urine
	I		Semester - V
ZO 1541	Cell and Molecular	CO 1.	Students acquire sufficient knowledge on the
	Biology		fundamental structure, function and biochemistry of the
			cell.
		CO 2.	They understand the principles of molecular biology and
			gene manipulation.
		CO 3.	Students learn ultra-structure of prokaryotic and
			eukaryotic cells.
		CO 4.	Students understand the fundamental differences between
			prokaryotic and eukaryotic cells.
		CO 5.	Students learn the structure, replication and modification
			of the genetic material of eukaryotes.
		CO 6.	Students understand the mechanism of gene expression
			and gene regulation.
		CO 7.	Gets an awareness of bacterial recombination.
		CO 8.	Students acquire scientific knowledge on cancer and
			ageing.
ZO. 1542	Genetics and	CO 1.	Structure of gene is to be learned.
	Biotechnology	CO 2.	Students get educated on the underlying genetic
			mechanism operating in human and state of the art of bio-
			techniques
		CO 3.	Students develop a proper understanding on the relation
			between heredity and variation.
		CO 4.	Learn the mechanism of crossing over and inheritance
			patterns in human.
		CO 5.	Students become aware of different genetic syndromes
			and the possible ways to reduce its occurrence.
		CO 6.	Students understand the principles and techniques
			involved in DNA technology and get an overview of

			modern techniques like PCR, Hybridoma technology,
			gene therapy and human cloning
ZO 1543	Immunology and	CO 1.	Students understand the scope and importance of clinical
	Microbiology		immunology.
		CO 2.	Students understand the principles and mechanisms of
			immunology.
		CO 3.	Learn the malfunctioning and disorders of the immune
			system
		CO 4.	Students acquire knowledge on immunodeficiency
			diseases.
		CO 5.	Transplantation and mechanism of Graft retention and
			rejection are learned.
		CO 6.	Students get a brief history of microbiology.
		CO 7.	Students develop a broad understanding of the positive as
			well as negative aspects of microbes.
		CO 8.	Economic importance (applied aspects) of microbes in
			industry can be studied.
ZO 1551.2	Human Health and	CO 1.	Make the student understand the importance of good
	Sex Education		health.
	(Open Course)	CO 2.	Educate the student on clean sexual habits thereby
			warding off sexually transmitted diseases
	1	I	Semester - VI
ZO 1641	Physiology and	CO 1.	Students develop a clear understanding of the correlation
	Biological		and coordination between the structure and function of
	chemistry		different organs and organ systems of the body.
		CO 2.	Proper studies on the physiology help students
			understand the physiology of different organ systems of
			the body.
		CO 3.	Students learn the correlation between diseases and the
			abnormal structure or improper functions of organs.
		CO 4.	Students understand the possible causes of abnormal
			physiology and the resultant diseases.
		CO 5.	Students understand the structure and functions of bio-
			molecules and their role in metabolism.
		CO 6.	This course opens new areas of research to students.
ZO 1642	Developmental	CO 1.	Students get a brief idea about the history of
	Biology and		developmental biology.

	Experimental	CO 2.	Provide the students a bird's eye view of sophisticated
	Embryology		embryological techniques
		CO 3.	Study the various stages involved in the development of
			organisms.
		CO 4.	Study the initial developmental procedures involved in
			Amphioxus, Frog and chick
		CO 5.	Procure information on state- of- the art experimental
			procedures in embryology.
		CO 6.	Different control mechanisms of development including
			gene action are studied.
ZO 1643	Ethology,	CO 1.	Learn the physiological basis of behaviour
	Evolution and	CO 2.	Study the different types of communication system
	Zoogeography		among animals
		CO 3.	Get a concept of organic evolution
		CO 4.	Get knowledge on the animal distribution in biosphere
ZO 1644	Practical II - Cell	CO 1.	Prepare and observe chromosomal arrangements during
	Biology, Genetics,		cell division
	Bioinformatics	CO 2.	Study chromosomal aberrations in man
	Biotechnology,	CO 3.	Gain of broad knowledge of conventional
	Immunology and		biotechnological procedures
	Microbiology	CO 4.	Perform routine blood analysis.
		CO 5.	Learn clinical procedures for blood & urine analysis
		CO 6.	Make the student skilful in simple biochemical laboratory
			procedures.
ZO 1645	Practical III -	CO 1.	Learn clinical procedures for blood and urine analysis
	Physiology and	CO 2.	Make the student skillful in simple biochemical
	Biological		laboratory procedures.
	Chemistry,		
	Molecular Biology		
	and Biostatistics		
ZO 1646	Developmental	CO 1.	Learn the various stages involved in the development of
	Biology, Ecology,		organisms.
	Ethology,	CO 2.	Acquire skills in analyzing environmental quality
	Evolution and		parameters
	Zoogeography	CO 3.	Learn the strategies in pest management
		CO 4.	Identify the major contributors in the field of
			environmental movements
ZO 1651.1	Economic Zoology	CO 1.	Students learn the basic procedure and methodology of
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	- Vermiculture and		vermiculture
	Apiculture	CO 2.	Learn the scope and methodology of apiculture.
	(Elective Subject)		
ZO 1647	Zoology Project	CO 1.	Inculcate proficiency to identify appropriate research
	and Field study		topic and presentation