

COURSE OUTCOMES

Model I – B.A./B.Sc./B. Com: Common Course: English

SEMESTER 1			
Course Code	Course Title	Course Outcomes (CO)	
EN1CCT01	Fine-tune Your English	CO1	To introduce the students to the basics of grammar, usage and effective communication
		CO2	To confidently use English in both written and spoken forms
		CO3	To use English for formal communication effectively
EN1CCT02	Pearls from the Deep	CO1	To introduce students to the different genres of literature and to the niceties of literary expression
		CO2	To appreciate and enjoy works of literature
		CO3	To appreciate the aesthetic and structural elements of literature
SEMESTER 2			
EN2CCT03	Issues that Matter	CO1	To sensitize the learners to contemporary issues of concern
		CO2	To identify the major issues of contemporary significance
		CO3	To respond rationally and positively to the issues raised
		CO4	To internalize the values imparted through the selections
EN2CCT04	Savouring the Classics	CO1	To introduce the students to the taste of time-tested world classics
		CO2	To become familiar with the classics from various lands
		CO3	To understand the features that go into the making of a classic
SEMESTER 3			
EN3CCT05	Literature and / as Identity	CO1	To sensitize students to the various ways in which literature serves as a platform for forming, consolidating, critiquing and re-working the issue of 'identity' at various levels
		CO2	To recognize the subtle negotiations of Indigenous and Diasporic identities with-in Literature
		CO3	To realise the fissures, the tensions and the interstices present in South Asian regional identities
		CO4	To understand the emergence of Life Writing and alternate/alternative/marginal identities
SEMESTER 4			
EN4CCT06	Illuminations	CO1	To acquaint the learners with different forms of inspiring and motivating literature

		CO2	To realise the need to maintain a positive attitude to life
		CO3	To evaluate and overcome setbacks based on the insights that these texts provide
		CO4	To understand the emergence of Life Writing and alternate/alternative/marginal identities
EN4CCT08	Revisiting the Classics	CO1	To introduce the students to the taste of time-tested world classics
		CO2	To familiarize the students with the classics from various lands
		CO3	To understand the features that go into the making of a classic

Model I – B.A/B.Sc. – Second Language – Malayalam

SEMESTER 1			
Course Code	Course Title	Course Outcomes (CO)	
ML1CCT01	KadhaSahithyam	CO1	Students get knowledge and ideas from different story styles
		CO2	Gain knowledge about the distinction between traditional and modern stories.
		CO3	Get exposed to various forms of narration an representation in literature
		CO4	Understand specificity and universality of fiction.
SEMESTER 2			
ML1CCT02	Kavitha	CO1	To understand the various aspects of society through literary texts representing different periods and culture.
		CO2	To introduce students about genres and trends of Malayalam poetry
		CO3	Students learn the various stages of developments of Malayalam poems.
SEMESTER 3			
ML1CCT03	DrishyakalaSahithyam	CO1	Ability to appreciate and evaluates various types of plays and other visual arts.
		CO2	Students should be familiar with the plays of master dramatist.
		CO3	Students will have an awareness of different art forms and depth of literature.
SEMESTER 4			
ML1CCT04	MalayalaGadhyar achanakal	CO1	To acquire knowledge about Malayalam literature its cultural themes, literary periods and key artistic features.

		CO2	Students should be able to identify, analyse, interpret and describe the critical ideas, values and themes that appear in literary and cultural texts.
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Model I – B.Com. Second Language - Malayalam

SEMESTER 1			
Course Code	Course Title	Course Outcomes (CO)	
ML1CCT05	KadhayumKavithayum	CO1	Students learn about the various types of poems and short stories.
		CO2	Students gain an awareness of the location of literature within the humanities.
		CO3	Familiarity with divers' kinds of themes, plot and narrative styles
SEMESTER 2			
ML1CCT06	Aathmakadha, Lekhanam,Poetry, Commercial Correspondence	CO1	Students should be familiar with the different types of autobiography.
		CO2	To provide an overview of the various forms of the Malayalam prose and poetry
		CO3	To know and appreciate the location of literature within humanities.

Model I – B.A/B.Sc. Second Language - Hindi

SEMESTER 1			
Course Code	Course Title	Course Outcomes (CO)	
HN1CCT01	Prose and One Act Plays	CO1	Increase interest in Prose
		CO2	Get introduced with Minor genres like One Act Plays
		CO3	Develop knowledge in Literary forms
SEMESTER 2			
HN2CCT02	Short Stories and Novel	CO1	Obtain knowledge about history of Hindi Literature
		CO2	Generate interest in Hindi Literature.
		CO3	Develop Story and novel Reading Skills
SEMESTER 3			
HN3CCT03	Poetry, Grammar and	CO1	To be able to understand the introductory concepts of Hindi Grammar
		CO2	Know the famous Hindi Poets and poems in Ancient and Modern era

	Translation	CO3	Develop translation skills from English to Hindi and Hindi to English
SEMESTER 4			
HN4CCT04	Drama and Long Poem	CO1	Develop creative thinking in students
		CO2	Get information about the well-known poets and Poems in Hindi
		CO3	Make aware about the social issues through literature

B.A. History

Programme Specific Outcomes (PSO)

PSO1	Integral development of individuals through historical scholarship.
PSO2	To inculcate sense of history and heritage in the young minds and society.
PSO3	Able to offer reasonable predictions of what will happen next in today's world.
PSO4	To understand why some rules exist in the modern world.
PSO5	Understand the world, cultures, changes and world events.
PSO6	Overall awareness about our own identities, gives us insight into present day problems and solutions, builds better citizenships.

Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
HY1CRT01	Methodology & Perspectives of Social Sciences	CO1	Identify broad areas of Social Science subjects
		CO2	Understand the techniques of writing history
		CO3	Learn various schools of thought in history
HY2CRT02	Understanding Early India: From Hunting Gathers to Land Grants	CO1	Understand the pre-historic cultures in ancient India
		CO2	Learn various social formations in ancient India
		CO3	Study about the socio-economic evolution of Indian culture.
EC2CMT02	Basic Economic Studies	CO1	Provides an opportunity to learn the relationships and concepts in the measurement of national income.
		CO2	Creates awareness on public finance.
		CO3	Provides an insight on issues of Indian economy
SEMESTER 3			
HY3CRT03	Polity Society and Economy in Pre-colonial India	CO1	Study various sources for the reconstruction of the Indian past
		CO2	Learn the nature and character of medieval Indian society and culture
		CO3	Understand the production relations and social structures in Medieval India
HY3CRT04	Cultural Trends in Pre - Colonial Kerala	CO1	Learn the physiographic features of Kerala and its impacts on society and culture
		CO2	Understand the features of economy and society in pre-colonial Kerala
		CO3	Learn the development of a caste structured society in Kerala.
SEMESTER 4			
HY4CRT05	Making of	CO1	Learn the socio-economic making of modern Kerala

	Modern Kerala	CO2	Understand the colonial background of modern Kerala
		CO3	Study colonial and anti-colonial struggles in Kerala
HY4CRT06	Researching the Past	CO1	Study the basic concepts in Historical research.
		CO2	Study various sources of history writing.
		CO3	Learn the methods and techniques of research.
PS4CMT05	Indian Constitution: Social Issues in India	CO1	Learn the basic features of Indian constitution.
		CO2	Study the fundamental rights of Indian citizens.
		CO3	Understand various challenges to Indian governance system.
SEMESTER 5			
HY5CRT07	Inheritance and Departures in Historiography	CO1	Learn the early notions of History
		CO2	Learn and identify the different schools of thought in History
		CO3	Study recent trends in historical writing.
HY5CRT08	India: Nation in the Making	CO1	Study the nature and character of colonization in India.
		CO2	Identify the various schools of thought emerged in modern Indian historical writing.
		CO3	Learn the various facets of Indian nationalism
HY5CRT09	State and Society in Ancient and Medieval World	CO1	Basic understanding of the pre-historic cultures of the ancient and medieval world
		CO2	Learn about the technological advancement of ancient civilizations.
		CO3	Study the social formation and material culture of ancient civilizations
HY5CRT10	Environmental Studies & Human Rights in Historical Outline	CO1	Learn the significance, need, and value of environmental studies and human rights issues.
		CO2	Develop a basic understanding of environmental issues and sustainable development.
		CO3	Become aware of various environmental and human rights struggles all over the world.
HY5OCT01	Open Course Introducing Environmental History	CO1	Acquire basic knowledge about environmental history.
		CO2	Develop awareness about environmental issues
		CO3	Learn about the environmental movements and protests in India
SEMESTER 6			
HY6CRT11	Making of Cotemporary India	CO1	Learn the major problems of independent India
		CO2	Study the growth of Indian economy in the post-colonial era

		CO3	Learn how India tackled the socio-economic problems in the independent era.
HY6CRT12	Understanding Modern World	CO1	Study the world in the early decades of the twentieth century.
		CO2	Learn various socio-political developments in the interwar period.
		CO3	Understand power politics and development of third world countries.
HY6CRT13	Capitalism and Colonialism	CO1	Study various theories and debates on the transition from feudalism to capitalism
		CO2	Learn the expansion of capitalism as a world system.
		CO3	Study the making of colonies and colonial relations and the impact thereof.
HY6CRT14	Gender in Indian Perspectives	CO1	Learn an alternative method of Historical writing from women's perspective.
		CO2	Understand the social construction of gender.
		CO3	Study gender history of India and the modern construction of gender in India
HY6CBT01	Archaeology in India	CO1	Learn archaeology as a supplement to historical writing
		CO2	Study methods and techniques of archaeological explorations and excavations.
		CO3	Learn important archaeological sites in India.
	Dissertation	CO1	Practice in doing research in history
		CO2	Learn the skill to write history

B.A. Economics

Programme Specific Outcomes (PSO)

PSO1	To provide students a well-founded education in Economics
PSO2	To provide structured curricula which support the academic development of students
PSO3	To provide and adapt curricula that prepare our graduates for employment and further study as economists
PSO4	To provide the students with the opportunity to pursue courses that emphasizes quantitative and theoretical aspects of Economics.
PSO5	To provide students with the opportunity to focus on applied and policy issues in Economics
PSO6	To provide programmers that allow the students to choose from a wide range of economic specialization
PSO7	To provide a well-resourced learning environment for Economics.

SEMESTER 1

Course Code	Course Title	Course Outcomes (CO)	
EC1CRT01	Perspectives and Methodology of Economics	CO1	It identifies the main concerns of social science disciplines
		CO2	It articulates the basic terminology and theories prevalent across various disciplines.
		CO3	It helps to understand qualitative and quantitative models within the social sciences, especially Economics

SEMESTER 2

EC2CRT02	Micro Economic Analysis 1	CO1	It gives the foundation for economic analysis and problem solving.
		CO2	It introduces a framework for learning about consumer behaviour and analyzing consumer decisions.
		CO3	The course also attends to firms and their decisions about optimal production.
		CO4	This course provides an introduction to supply and demand and the basic forces that determine equilibrium in a market economy.

SEMESTER 3

EC3CRT03	Micro Economic Analysis- II	CO1	This course is designed to provide basic understanding of micro economic concepts.
		CO2	Students are provided with the working and performance of firms in the market.
		CO3	It deals with behavior of economic agents – consumer, producer, factor owner – price fluctuations in the market.
EC3CRT04	Economics of	CO1	This courser enables the students to understand the theories and strategies of growth and development.

	Growth & Development	CO2	It imparts knowledge about the issues relating to sustainable development, environmental protection and pollution control measures.
		CO3	IT makes the students more insightful about modern approaches to development.
SEMESTER 4			
EC4CRT05	Macro Economics 1	CO1	This paper provides the students the information regarding the theory of cost, market performance and welfare economics.
		CO2	This course also makes a picture regarding the cost analysis which seems to be integral to their life.
		CO3	It also aids the students to know more about the theoretical background of market structure
EC4CRT06	Public Economics	CO1	The purpose of this course is to give an understanding of the role of state in fostering the economic activities via budget and fiscal policies.
		CO2	Students get a chance to know about the financial position of the country.
		CO3	This course enables the students to understand the various issues between Central and State Governments.
SEMESTER 5			
EC5CRT08	Macro Economics II	CO1	This course is designed to make the students aware of the theoretical aspects of Macroeconomics.
		CO2	It helps the students to think issues which are a nature of economy as a whole.
		CO3	It presents macroeconomic trends of various variables and the theory behind it.
EC5CRT09	Environmental Economics	CO1	This course imparts an awareness regarding the issues like environment conservation and climate change
		CO2	It also emphasizes the need of environmental protection and its role in economic development.
		CO3	It gives an account on the role of human beings in preserving nature and nurture human values
EC5CRT10	Introductory Econometrics	CO1	IT introduces various concepts and application of econometrics.
		CO2	It helps the students to know the interrelationship between econometric variables.
		CO3	It also provides an access to mathematical and econometric methods which are employed for economic measurement.
SEMESTER 6			
EC6CRT12	International Economics	CO1	The objective of this course is to arrive at an understanding of theories of international trade
		CO2	It examines the impact of the trade policies on the world economy.
		CO3	It helps the students to know about the recent trade relations of the country.
EC6CRT13	Money & Financial markets	CO1	The present course is designed to acquaint the students with the changing role of the financial sector of the economy.

		CO2	It introduces the students the functioning of stock markets in India
		CO3	The stake-holders are to familiarize with the basic concepts, the financial institutions and markets.
EC6CRT14	Indian Economy	CO1	The objective of the course is to equip the students with the theoretical, empirical
		CO2	This course discusses the policy issues relating to the society, polity and economy of India.
		CO3	It also highlights the recent economic problems which are crucial for the growth of economy.

B.A. English

Programme Specific Outcomes (PSO)

PSO1	Students should be familiar with representative literary and cultural texts within a significant number of historical, geographical, and cultural contexts.
PSO2	Students should be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres.
PSO3	Students should be able to identify, analyze, interpret and describe the critical ideas, values, and themes that appear in literary and cultural texts and understand the way these ideas, values, and themes inform and impact culture and society, both now and in the past.
PSO4	Students should be able to write analytically in a variety of formats, including essays, research papers, reflective writing, and critical reviews of secondary sources.
PSO5	Students should be able to ethically gather, understand, evaluate and synthesize information from a variety of written and electronic sources
PSO6	Students should be able to understand the process of communicating and interpreting human experiences through literary representation using historical contexts and disciplinary methodologies.

Course Code

Course Title

Course Outcomes (CO)

SEMESTER 1

EN1CR01	Methodology of Literary Studies	CO1	To introduce the student to the major signposts in the historical evolution of literary studies from its inception to the current postcolonial realm.
		CO2	Introducing the emergence of literature as a specific discipline within the humanities.
		CO3	Introducing the tenets of what is now known as traditional approaches and also that of formalism.

SEMESTER 2

EN2CR02	Introducing Language and Literature	CO1	To introduce the student to the basics of English language and literature.
		CO2	To introduce the evolution and the differential traits of the English language till the present time.
		CO3	To introduce the evolution of literature from antiquity to postmodern times.

SEMESTER 3

EN3CR03	Harmony of Prose	CO1	The student is given space to mature in the presence of glorious essays, both Western and Non-Western.
		CO2	To make the students familiar with varied prose styles of expression.
		CO3	To create awareness of eloquent expressions, brevity and aptness of voicing ideas in stylish language.
EN3CR04	Symphony of Verse	CO1	To acquaint the student with the rich texture of poetry in English.
		CO2	To create an understanding of the representation of poetry in various periods of the English tradition.

		CO3	To make an awareness of the emerging cultural and aesthetic expressions that poetry makes Possible
		SEMESTER 4	
EN4CR05	Modes of Fiction	CO1	To acquaint students with various modes of fiction.
		CO2	The students will have comprehended the categories of British and non- British short fiction, and also the novel as a form of literary expression.
		CO3	To encourage the students to explore the realm of fiction.
EN4CR06	Language and Linguistics	CO1	Introduction to the science of linguistics. It seeks to give an overview of the basic concepts of linguistics and linguistic analysis to the students.
		CO2	To show the various organs and processes involved in the production of speech, the types and typology of speech sounds, segmental & supra-segmental features of the English language, and transcription using IPA.
		CO3	To describe and explain morphological processes and phenomena.
		SEMESTER 5	
EN5CR07	Acts on the Stage	CO1	The course seeks to introduce the student to select theatre texts that form the canon of English drama.
		CO2	On completion of the course, the student shall be familiar with the works of the playwrights.
		CO3	Enables the student to appreciate and critique drama as an art form.
EN5CR08	Literary Criticism and Theory	CO1	The course seeks to introduce students to the major signposts in Literary Criticism, Literary Theory and Indian Aesthetics.
		CO2	On completion of the course, the student will have awareness about the major developments in literary criticism from the ancient times to the twentieth century.
		CO3	The student will be initiated to the realm of literary theory and major theoretical schools.
EN5CR09	Indian Writing in English	CO1	The course is intended to sensitize students to the various ways in which literature written in English, in the Indian sub-continent serves as a platform for forming, consolidating, critiquing and re-working the issue of national identity' at various levels.
		CO2	On completion of the course, the student should be aware of the subtle flavours that distinguish the Indian quotient in English writings from India.
		CO3	Teaching the different concerns that Indian English writers share, cutting across sub-nationalities and regionalities.
EN5CREN01	Environmental Science and Human Rights	CO1	Environmental Education encourages students to research, investigate how and why things happen, and make their own decisions about complex environmental issues by developing and enhancing critical and creative thinking skills. It encourages character building, and develops positive attitudes and values.

		CO2	It helps to foster a new generation of informed consumers, workers, as well as policy or decision makers.
		CO3	Environmental Education helps students to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future.
		SEMESTER 6	
EN6CR10	Postcolonial Literatures	CO1	To familiarize the students the varied dimensions of postcolonial subjectivity through theory and literature.
		CO2	To make the students aware of the social, political, cultural aspects of postcolonial societies.
		CO3	To make the students realise the impact of colonialism and imperialism on native cultural identities.
EN6CR11	Women Writing	CO1	To introduce the theoretical and literary responses by women and the concerns that governs feminist literature.
		CO2	To critically respond to literature from a feminist perspective.
		CO3	To make the students realize how the patriarchal notions pervade in the social and cultural scenario and how feminism exposes these notions.
EN6CR12	American Literature	CO1	To enable the students to have a holistic understanding of the heterogeneity of American culture and to study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts.
		CO2	To make the students familiar with the evolution of various literary movements in American literature.
		CO3	To get them acquainted with the major authors in American Literary History.
EN6CR13	Modern World Literature	CO1	To make the students aware of the stupendous variety that resides in Literatures the world over.
		CO2	To discern that literatures the world over engage in very deep ways with the vicissitudes of life.
		CO3	To discern that World literatures often defy genres/ regionalities and canonical assumptions to emerge as a platform where poetics and politics fuse.

B.Sc. Mathematics

Programme Specific Outcomes (PSO)

PSO1	Be able to explain the core ideas and the techniques of mathematics at the college level.
PSO2	Be able to recognize the power of abstraction and generalization, and to carry out investigative mathematical work with independent judgment.
PSO3	Be able to setup mathematical models of real world problems and obtain solutions in structured and analytical approaches with independent judgment.
PSO4	Be able to carry out objective analysis and prediction of quantitative information with independent judgment.
PSO5	Be able to communicate effectively about mathematics to both lay and expert audiences utilizing appropriate information and communication technology.
PSO6	Be able to work independently, and to collaborate effectively in team work and teambuilding.
PSO7	Be able to conduct self-evaluation, and continuously enrich themselves through lifelong learning.
PSO8	Be able to communicate to lay audiences and arouse their interest in the beauty and precision of mathematical arguments and science.
PSO9	Be able to recognize the importance of compliance with the ethics of science and being a responsible citizen towards their community and a sustainable environment.
PSO10	Be able to cultivate a mathematical attitude and nurture the interests.

Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
MM1CRT01	Foundations of Mathematics	CO1	Familiarize mathematical terminologies and symbols, notations, propositional logic, equivalences etc.
		CO2	Develop standard methods of proofs.
		CO3	Learn methods to solve equations, transformed equations, cubic, bi-quadratic and reciprocal equations.
		CO4	Relate factor theorem and remainder theorem.
SEMESTER 2			
MM2CRT01	Analytic Geometry, Trigonometry and Differential Calculus	CO1	Find the equation to tangent, normal at a point on a conic.
		CO2	Find the polar equation of a line, circle, tangent and normal to conics.
		CO3	Familiarize real and imaginary parts of a circular and hyperbolic functions of a complex variable.
		CO4	Familiarize successive differentiation and indeterminate forms.
SEMESTER 3			
MM3CRT01	Calculus	CO1	Find the higher order derivative of the product of two functions.
		CO2	Expand a function using Taylor's and Maclaurin's series.
		CO3	Conceive the concepts of convexity, envelopes, asymptotes.
		CO4	Learn about partial derivatives and its applications.

SEMESTER 4			
MM4CRT01	Vector Calculus, Theory of Numbers and Laplace Transform	CO1	Acquaint with the concept of vector valued functions and its curvature, torsion, directional derivatives.
		CO2	Extend the tools of integral calculus to vector valued functions.
		CO3	Apply Greens Theorem, Stokes Theorem, Gauss divergence theorem for evaluation of line, surface and volume integrals.
		CO4	Get familiar with the Number system and related concepts.
SEMESTER 5			
MM5CRT01	Mathematical Analysis	CO1	The learner understands the structure and properties of the real number system.
		CO2	Study the basic topological properties of the real numbers.
		CO3	Have the knowledge of the sequence of real numbers and convergence.
		CO4	The student will be able to construct rigorous mathematical proofs of basic results in real analysis.
MM5CRT02	Differential Equations	CO1	Recognize and solve separable, exact, homogeneous and non-homogeneous ordinary differential equations.
		CO2	Convert certain types of differential equations to exact form by using integrating factors.
		CO3	Solve second order ordinary differential equations.
		CO4	Use power series method to solve differential equations.
MM5CRT03	Abstract Algebra	CO1	Understand basic algebraic concepts like binary operations, groups, cosets, rings, ideals etc.
		CO2	Know how to construct new groups by taking quotients and direct products
		CO3	Prove classical theorems like Lagrange's theorem and Cayley's theorem.
		CO4	Learn how to relate different algebraic objects by homomorphisms and isomorphisms
MM5CRT08	Human Rights and Mathematics for Environmental Studies	CO1	Address complex environmental issues, and take necessary steps to keep our environment healthy and sustainable for the future
		CO2	Have a brief idea of Fibonacci numbers and Golden ratio
		CO3	Learn the idea of Human Rights and study its importance
SEMESTER 6			
MM6CRT01	Real Analysis	CO1	Have the knowledge of the series of real numbers and convergence.
		CO2	Determine the Riemann integrability of a bounded function and establish properties of integrable functions.
		CO3	Recognize the difference between point-wise and uniform convergence of sequences and series of functions.
		CO4	Develop a higher level of mathematical maturity combined with the ability to think analytically.

MM6CRT02	Graph Theory and Metric Spaces	CO1	Write precise and accurate mathematical definitions of objects in Graph theory
		CO2	Analyze different properties that depend on the connectivity of a graph
		CO3	Understand Euclidean distance and generalize that idea to arbitrary sets.
		CO4	Extend the concepts like convergence and limits of analysis to Metric spaces
MM6CRT03	Complex Analysis	CO1	Learn about Complex valued functions and determine whether a given function is differentiable
		CO2	Comprehend what an analytic function
		CO3	Understand Complex integration
		CO4	Identify and classify Singular points to use in Complex integrals
MM6CRT04	Linear Algebra	CO1	To Solve systems of linear equations.
		CO2	Comprehend the concept of Vector spaces.
		CO3	Learn deeply about linear transformations and represent them in matrix form.
		CO4	Determine eigenvalues of a given matrix and use it to diagonalize the given matrix.

B.Sc. Physics Model I and Model II-Physics

Programme Specific Outcomes (PSO)

PSO1	Develop deep understanding of the various subjects of physics.
PSO2	Enhance practical and mathematical skills and competencies to conduct scientific experiments.
PSO3	Create analytical thinking and interpret the inferences from verbal, mathematical and graphical data.
PSO4	Develop problem solving skills and invent questions from theoretical understanding of the subject.
PSO5	Skill to organize events and transfer knowledge through fruitful communications and interact effectively with people from diverse backgrounds.
PSO6	Equip the students with the usage of modern ICT /soft skills

Course Code	Course Title	Course Outcomes (CO)
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SEMESTER 1

PH1CRT01	Methodology and Perspectives of Physics	CO1	To examine the evolution of Physics and hence open up their minds to new ideas and ways of thinking
		CO2	To make use of measuring and instrumental tools for practicing Physics
		CO3	To realise the necessity of measurements in physics, estimation of errors and uncertainty
		CO4	To estimate error and check the accuracy of measurement while performing a laboratory experiment

SEMESTER 2

PH2CRT02	Mechanics and Properties of Matter	CO 1	Acquire a basic knowledge of the core physics principles in mechanics
		CO 2	Differentiate between translational and rotational motion, find the moment of inertia of different shapes and objects
		CO 3	Understand the principles of elasticity and solve practice problems through evaluating the relationship between stress and strain
		CO 4	Develop basic skills to perform experiments for understanding different concepts in properties of matter
		CO 5	To understand the concept of conservation of energy and angular momentum and should be able to solve problems related to it
		CO 6	To understand the principles that govern the flow of fluids

		CO 7	understand the physical concepts behind SHM and should be able to reproduce the theory to physical systems that execute SHM
SEMESTER 3			
PH3CRT03	Optics, Laser and Fiber Optics	CO 1	Realize the physics behind different optical phenomena in everyday life
		CO 2	Explain different properties of light like interference, diffraction and polarization in the context of wave nature of light, compare diffraction pattern observed with single, double and n-slits, describe different types of polarized light
		CO 3	Explain why thin films like oil, soap bubble form colourful patterns
		CO4	Understand the characteristics of laser, explain working principle of different types of lasers, and summarize applications of laser in diverse fields
		CO5	Gain knowledge about the physical structure of optic fibers, distinguish between different types of optical fibers, demonstrate its application in communication systems
SEMESTER 4			
PH4CRT04	Semiconductor Physics	CO1	Illustrate the internal mechanism of a semiconductor and semiconductor devices
		CO2	solve numerical problems relating to various semiconductor parameters
		CO3	design circuits containing semiconductor devices and their combinations
		CO4	Analyse different circuits containing semiconductor devices
		CO5	Explain basics of semiconductor diodes its characteristics, application to rectifiers and voltage regulators
SEMESTER 5			
PH5CRT05	Electricity and Electrodynamics	CO1	Investigate different AC circuits containing inductance, capacitance and resistance
		CO2	Evaluate divergence and curl in various electrostatic and magnetostatic problems
		CO3	Compute electric field and electric potential of discrete and continuous charge distribution
		CO4	Aanalysing alternating emf and alternating current (AC)
		CO5	Distinguish ideal voltage and current sources and apply network theorems on various networks
		CO6	Infer that Maxwell's four equations explain all of electromagnetic theory
		CO7	Examine generation and nature of thermo electricity

PH5CRT06	Classical and Quantum Mechanics	CO1	Relate the quantum mechanics concepts to diverse fields in physics
		CO2	Solve classical systems like linear harmonic oscillator, atwoods machine etc. using Lagrangian and Hamiltonian methods
		CO3	Develop mathematical insights to advanced quantum theories
		CO4	Understand the terms operators, eigen values, expectation value
		CO5	Realise the concept behind wave– particle duality, uncertainty principle
		CO6	Understand the development of time dependent and time independent Schrodinger equation
PH5CRT07	Digital Electronics and Programming	CO1	Analyse the use of digital electronics in mathematical computation
		CO2	Examine the logical background of functioning of various electronic circuits
		CO3	Simplify boolean expressions using boolean rules and laws
		CO4	Apply De-Morgan’s theorem to solve various logic circuits
		CO5	Develop logic to write C++ programs to solve quadratic equations, generation of Fibonacci series etc.
		CO6	Understanding circuit elements using flip-flops, registers and A/D converters
PH5CRT08	Environmental Physics and Human Rights	CO1	Identify various types of natural resources, human impact on these resources, and common resource management practices
		CO2	Develop skills and a commitment to act independently and collectively to sustain and enrich the environment.
		CO3	Understand the multidisciplinary nature, important theories and concepts of environmental science, ecosystems, natural resources and conservation
		CO4	Describe environmental hazards and risks and the social and economic ramifications
		CO5	Familiarize with the major environmental problems its causes and potential solutions
		CO6	Explain Non-renewable energy sources:-Coal, Oil, Natural gas; Nuclear fission energy; Merits and demerits of non-renewable energy and different Renewable energy sources
		CO7	Identify the environmental aspects of solar energy resources. In Comparison with various conventional energy systems, their prospects and limitations.
		CO8	Identify issues and problems relating to the human rights

		CO9	Analyse country's situation or international situation in terms of human rights.
		CO10	Create awareness on various environmental acts in India
PH5OPT02	Physics in Daily Life	CO1	Investigate how and why things happen, and make their own decisions about complex environmental issues
		CO2	Examine how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future. It encourages character building, and develops positive attitudes and values
		CO3	Develop the sense of awareness among the students about the environment and its various problems and to help the students in realizing the inter-relationship between man and environment and helps to protect the nature and natural resources
		CO4	Develop basic knowledge about environment acts and the social norms that provide unity with environmental characteristics and create positive attitude about the environment.
		CO5	Examine the physical principles behind various physical phenomena and the scientific issues in daily life
		CO6	Criticize and express views in logical and effective ways
		CO7	Appraise the significance of knowing 'physics' in everyday phenomena.
SEMESTER 6			
PH6CRT09	Thermal and Statistical Physics	CO1	Develop a basic knowledge required to design devices involving the interchange between heat and work or the conversion of material to produce heat
		CO2	Analyse various thermodynamic processes and work done in each of these processes
		CO3	Distinguish reversible and irreversible processes.
		CO4	Analyse the working of a Carnot engine
		CO5	Calculate the change in entropy in various reversible and irreversible processes Upon completion of the course, the learners will be able
		CO6	Discuss the various statistical distributions followed by different particles
PH6CRT10	Relativity and Spectroscopy	CO1	Develop a conceptual understanding of special and general theories of relativity
		CO2	Distinguish atomic and molecular behaviors that gives rise to various spectroscopic methods
		CO3	Develop a working knowledge of spectroscopic methods currently used in research fields

		CO4	Develop a basic knowledge of principles behind NMR and ESR spectroscopy and its applications in diverse fields
PH6CRT11	Nuclear, Particle Physics and Astrophysics	CO1	Categorize various elementary particles and their impact on physical processes
		CO2	Investigate various nuclear and subatomic phenomena
		CO3	Relate the interaction of subatomic particles, cosmological processes and stellar evolution processes.
		CO4	Discuss various nuclear models like shell model and liquid drop model
		CO5	Basic knowledge of different nuclear reactors
PH6CRT12	Solid State Physics	CO1	Analyse different concepts in solid state physics
		CO2	Examine the effect of electric and magnetic fields on materials
		CO3	Develop a conceptual understanding of internal mechanism of semiconducting materials and their fabrication
		CO4	Sketch the crystal structure and assess the working of superconducting materials
		CO5	Grasp basic ideas of ionic, hydrogen, metallic and van der Waals bonding
		CO6	Distinguish between metals, insulators and semiconductors
		CO7	Define intrinsic and extrinsic semiconductors understand the principles behind LED and photodiodes

B.Sc. Chemistry

Programme Specific Outcomes (PSO)

PSO1	Students have a firm foundation in the fundamentals and application of current chemical and scientific theories including those in Analytical, Inorganic, Organic and Physical branches of chemistry.
PSO2	Acquired the knowledge of terms, facts, concepts, processes techniques and principles of the subject.
PSO3	Acquired the knowledge of terms, facts, concepts, processes techniques and principles of the subject.
PSO4	Developed the ability to apply the principles of Chemistry.
PSO5	Are inquisitive towards advanced chemistry and developments therein.
PSO6	Are able to appreciate the achievements in Chemistry and to know the role of Chemistry in nature and in society.
PSO7	Developed problem solving skills.
PSO8	Familiarized with the emerging areas of Chemistry and their applications in various spheres of Chemical sciences and to apprise the students of its relevance in future studies.
PSO9	Developed skills in the proper handling of apparatus and chemicals.
PSO10	Are exposed to the different processes used in industries and their applications.

Course Code	Course Title	Course Outcomes (CO)
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SEMESTER 1

CH1CRT01	General and Analytical Chemistry	CO1	This part of the syllabus will impart an interest in studying chemistry
		CO2	students are getting more ideas about theoretical and experimental Chemistry
		CO3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.

SEMESTER 2

CH2CRT02	Theoretical and Inorganic Chemistry	CO1	By studying this part of the syllabus students are getting basic ideas of chemistry, which enables them to build a better foundation
		CO2	The course aims to inculcate an atomic/molecular level thinking in the minds of the students
		CO3	It also develops an interest in various branches of inorganic chemistry.

SEMESTER 3

CH2CRT03	Organic Chemistry-1	CO1	For a thorough understanding in Organic Chemistry an undergraduate student need to be exposed to three fundamental aspects: structure, reaction dynamics and synthesis
		CO2	The curriculum is so designed as to fulfil these objectives

CH4CRT04	Organic Chemistry-II	CO3	The philosophy adapted in choosing the topics is to provide sufficient Chemistry for the reactions and also to minimize the unnecessary repetition of materials found in higher secondary classes.
		SEMESTER 4	
CH5CR T05	Environment, Ecology and Human rights	CO1	After studying basic ideas in SEMESTER III students are getting thorough knowledge about the chemistry of some selected functional groups with a view to develop proper aptitude towards the study of organic compounds and their reactions.
		SEMESTER 5	
CH5CR T06	Organic Chemistry-III	CO1	Students will possess the intellectual flexibility necessary to view environmental questions from multiple perspectives, prepared to alter their understanding as they learn new ways of understanding.
		CO2	Students will solve problems systematically, creatively, and reflexively, ready to assemble knowledge and formulate strategy
		CO3	When encountering environmental problems students will assess necessary scientific concepts and data, consider likely social dynamics, and establish integral cultural contexts.
CH5CR T07	Physical Chemistry-I	CO1	This part of the syllabus gives the idea of prediction of mechanisms for organic reactions
		CO2	How to use their understanding of organic mechanisms to predict the outcome of reactions
		CO3	How to design syntheses of organic molecules and how to determine the structure of organic molecules using IR and NMR spectroscopic techniques
CH5CR T08	Physical Chemistry-II	CO1	The objective of this academic plan is to make the concepts and methods of physical chemistry clear and interesting to students, who have basic ideas in mathematics and physics
		CO2	The underlying theory of chemical phenomena is completed, and so it is a challenge to make the most important concepts and methods understandable to undergraduate students.
CH6CRT09	Inorganic Chemistry	CO1	The objective of this academic plan is to make the concepts and methods of physical chemistry clear and interesting to students, who have basic ideas in mathematics and physics
		CO2	The underlying theory of chemical phenomena is completed, and so it is a challenge to make the most important concepts and methods understandable to undergraduate students.
		SEMESTER 6	
		CO1	By considering the rapid development in the field of inorganic chemistry since the late 1950's it has become necessary that an undergraduate chemistry student should gain perspective on the past, without compromising the modern developments.

CH6CRT10	Organic Chemistry-IV	CO2	An inorganic chemistry student is expected to be conversant with the chemistry of all the elements and has been closely allied with analytical chemistry, with physical chemistry and even with organic chemistry
		CO1	This part of the curriculum deals with biological aspects of chemistry, which help students to understand medicinal chemistry, useful in daily life
		CO2	By studying the details of Natural products students can get the job of chemist in medicinal companies
CH6CRT11	Physical Chemistry-III	CO1	This part of the syllabus covers Thermodynamics, Equilibrium and Kinetics, three important topics in chemistry, which will help students to get foundation for further studies
		CO2	The main advantage of the syllabus is that students are getting enough information about the speed and energy requirements for chemical reactions
CH6CRT12	Physical Chemistry -IV	CO1	Physical chemistry is one of interesting area for many students, in this part of the syllabus students are gathering information
		CO2	What makes it interesting is that students have an idea about the reactions that takes place in solutions, which are beyond their imagination.

B.Sc. Botany

Programme Specific Outcomes (PSO)

PSO1	Know the importance and scope of the discipline
PSO2	Acquire a firm foundation in every aspect of Botany
PSO3	Have an understanding of the broad spectrum of modern trends in Botany
PSO4	Do lifelong learning due to attention drawn to the world of plants and introduction to the methodology of systematic academic enquiry
PSO5	Scientifically identify and list out plants in their locality
PSO6	Identify the role of different plants and their mode of survival in the environment
PSO7	Develop skills to cultivate the economically beneficial plants and thus open opportunity for self employment
PSO8	Develop love and respect for nature
PSO9	Analyze the impact of deforestation on environment
PSO10	Explain the role and impact of different environmental conservation programme
PSO11	Become an ambassador of sustainable development of our country
PSO12	Understand the importance of modern branches of science like Biotechnology for the economical benefits of agriculture
PSO13	Use tools of information technology for all activities related to Botany
PSO1	Know the importance and scope of the discipline

Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
BO1CRT01	Methodology of science and introduction to Botany	CO1	To acquire fundamental knowledge in plant science and diversity of plants.
		CO2	To understand the universal nature of science.
		CO3	To demonstrate the use of scientific method.
		CO4	To develop basic skills to study Botany in detail.
SEMESTER 2			
BO2CRT02	Microbiology, Mycology and Plant Pathology	CO1	To understand the world of microbes, fungi and lichens.
		CO2	To understand mechanism of various physiological processes related to plant life.
		CO3	To study the pathological importance of microorganisms.
		CO4	To enable the students to identify and culture different types of microbes.
SEMESTER 3			
BO3CRT03	Phycology and Bryology	CO1	To make the students understand objectives and components of taxonomy.
		CO2	To study the evolutionary importance of algae.

		CO3	To understand the unique features of algae and bryophytes.
		CO4	To realize the applications of Phycology in different fields.
SEMESTER 4			
BO4CRT04	Pteridology, Gymnosperms and Paleobotany	CO1	To understand the different plant organs with their functions.
		CO2	To enhance the botanical knowledge on Paleobotany.
		CO3	To study the anatomical variations in vascular plants.
		CO4	To understand the significance of paleobotany and its applications.
SEMESTER 5			
BO5CRT05	Anatomy, Rep. Botany and Micro- technique	CO1	To study the internal structure of evolved group of plants.
		CO2	To understand the individual cells and also tissues.
		CO3	To understand the morphology and development of reproductive parts.
		CO4	To get an insight into the fruit and seed development.
BO5CRT06	Research Methodology, Biophysics and Biostatistics	CO1	Equip the students to conduct research and prepare research report.
		CO2	To make the students understand the different tools and techniques used in research.
		CO3	To equip the students with basic computer skills.
		CO4	To enable the students numerical skills necessary to carry out research.
BO5CRT07	Plant Physiology and Biochemistry	CO1	To acquire the basic knowledge of plant functioning.
		CO2	To understand the basic skills and techniques related to plant physiology.
		CO3	To understand the role of biomolecules in plant life.
		CO4	To understand structure and importance of biomolecules associated with plant life.
BO5CRT08	Environmental science and Human rights	CO1	To understand the significance of environmental science.
		CO2	To make the students aware about the extent of the total biodiversity.
		CO3	To enable the students to understand the structure and function of ecosystem.
		CO4	To make the students aware about various environment. laws in India.
SEMESTER 6			
BO6CRT09	Genetics, Plant Breeding and Horticulture	CO1	To understand the principles of heredity.
		CO2	To understand the patterns of inheritance in different organisms.
		CO3	Understand the methods of crop improvement.
		CO4	To develop skills in gardening techniques in students.
BO6CRT10	Cell and molecular Biology	CO1	To understand the ultrastructure and functioning of cells.
		CO2	Familiarization of life processes.
		CO3	To understand the basic and scientific aspects of diversity.
		CO4	To understand DNA as the basis of heredity and variation.

BO6CRT11	Ang.morphology, Taxonomy and Eco.Botany	CO1	To understand the aims, objectives and significance of Taxonomy.
		CO2	To identify the common species of plants growing in Kerala.
		CO3	To understand the basic techniques in the preparation of herbarium.
		CO4	Familiarize the plants having immense economic importance.
BO6CRT12	Bio-technology and Bio-informatics	CO1	Understand the current developments in the field of Biotechnology.
		CO2	Equip the students to carry out plant tissue culture.
		CO3	Introduce the vast repositories of Biological data knowledge.
		CO4	To equip the students to access and analyze data available in databases.

B.Sc. Zoology

Programme Specific Outcomes (PSO)

PSO1	Scientifically identify and list out common animals. Identify the role of different animals in the environment.
PSO2	Develop skills to culture the economically beneficial animals and thus open opportunity for self employment
PSO3	Develop respect for nature.
PSO4	Analyze the impact of anthropogenic activities on environment.
PSO5	Explain the role and impact of different environmental conservation programmes.
PSO6	Understand various physiological processes in living organisms.
PSO7	Identify various potential risk factors to health of humans.
PSO8	Understand various genetic abnormalities and their reasons.
PSO9	Understand the importance of modern branches of science like genetic engineering for the improvement of human race
PSO10	Use tools of information technology for all activities related to zoology

Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
ZY1CRT01	General Perspectives In Science & Protistan Diversity	CO1	To create an awareness on the basic philosophy of science, concepts and scope.
		CO2	To understand different levels of biological diversity through the systematic classification.
		CO3	To familiarize taxa level identification of animals.
		CO4	To make interest in Protistan diversity.
		CO5	To impart knowledge on parasitic forms of lower invertebrates.
SEMESTER 2			
ZY1CRT02	Animal Diversity - Non Chordata	CO1	To create appreciation on diversity of life on earth.
		CO2	To understand different levels of biological diversity through the systematic classification of invertebrate fauna.
		CO3	To familiarize taxa level identification of animals.
		CO4	To understand the evolutionary significance of invertebrate fauna.
		CO5	To instill curiosity on invertebrates around us.
		CO6	To impart knowledge on parasitic forms of lower invertebrates.
SEMESTER 3			
ZY1CRT03	Animal Diversity – Chordata	CO1	To acquire in depth knowledge on the diversity of chordates and their systematic position
		CO2	To make them aware of the economic importance of some classes

		CO3	To understand the evolutionary importance of selected chordate groups
SEMESTER 4			
ZY1CRT04	Research Methodology, Biophysics and Biostatistics	CO1	To familiarise the learner the basic concept of scientific method in research process.
		CO2	To have knowledge on various research designs.
		CO3	To develop skill in research communication and scientific documentation.
		CO4	To create awareness about the laws and ethical values in biology.
		CO5	To equip the students with the basic techniques of animal rearing collection and preservation.
		CO6	To help the student to apply statistical methods in biological studies.
SEMESTER 5			
ZY1CRT05	Environmental Biology and Human Rights	CO1	To instill the basic concepts of Environmental Sciences, Ecosystems, Natural Resources, Population, Environment and Society.
		CO2	To make the students aware of natural resources, their protection, conservation, the factors polluting the environment, their impacts and control measures
		CO3	To teach the basic concepts of toxicology, their impact on human health and remedial measures
		CO4	To create a consciousness regarding Biodiversity, environmental issues & conservation strategies.
		CO5	To develop the real sense of Human rights – its concepts & manifestations.
ZY1CRT06	Cell Biology and Genetics	CO1	To understand the structure and function of the cell as the fundamentals for understanding the functioning of all living organisms.
		CO2	To make aware of different cell organelles, their structure and role in living organisms.
		CO3	To develop critical thinking, skill and research aptitudes in basic and applied biology.
		CO4	To emphasize the central role of genes and their inheritance in the life of all organisms.
ZY1CRT07	Evolution, Ethology & Zoo-geography	CO1	To acquire knowledge about the evolutionary history of earth - living and non-living.
		CO2	To acquire basic understanding about evolutionary concepts and theories.
		CO3	To study the distribution of animals on earth, its pattern, evolution and causative factors.
		CO4	To impart basic knowledge on animal behavioural patterns and their role.
ZY1CRT08	Human Physiology, Biochemistry and Endocrinology	CO1	This course will provide students with a deep knowledge in biochemistry, physiology and endocrinology.
		CO2	Defining and explaining the basic principles of biochemistry useful for biological studies for illustrating

			different kinds of food, their structure, function and metabolism.
		CO3	Explaining various aspects of physiological activities of animals with special reference to humans.
		CO4	Students will acquire a broad understanding of the hormonal regulation of physiological processes in invertebrates and vertebrates.
		CO5	By the end of the course, students should be familiar with hormonal regulation of physiological systems in several invertebrate and vertebrate systems.
		CO6	This also will provide a basic understanding of the experimental methods and designs that can be used for further study and research.
		CO7	The achievement of above objectives along with periodic class discussions of current events in science, will benefit students in their further studies in the biological/physiological sciences and health-related fields, and will contribute to the critical societal goal of a scientifically literate citizenry.
SEMESTER 6			
ZY1CRT09	Developmental Biology	CO1	To achieve a basic understanding of the experimental methods and designs that can be used for future studies and research
		CO2	To provide the students with the periodic class discussions of current events in science which will benefit them in their future studies in the biological/ physiological sciences and health-related fields
		CO3	To contribute to critical societal goal of a scientifically literate citizenry.
ZY1CRT10	Microbiology and Immunology	CO1	To make the students aware of microbial pathogens.
		CO2	To provide students with knowledge of methods for prevention and treatment of microbial diseases.
		CO3	To make students aware of the immune system of human body
		CO4	To give precise knowledge of methods involved in solving various immunological problems.
		CO5	To give practical knowledge of basic techniques.
ZY1CRT11	Bio-technology, Bio-informatics and Molecular Biology	CO1	To introduce students about Tools and Techniques in Biotechnology
		CO2	To make students aware of the scope and application of biotechnology in daily life
		CO3	To introduce a taste for biotechnological research in students
		CO4	To impart students with knowledge and to make them aware of the potential of Bioinformatics and Molecular Biology for shaping the future of society.
ZY1CRT12	Occupational Zoology (Apiculture,	CO1	To equip the students with self-employment capabilities
		CO2	To provide scientific knowledge of profitable farming

	Vermiculture, Quail Farming & Aquaculture)	CO3	To make the students aware of cottage industries
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B.Sc CLINICAL NUTRITION AND DIETETICS			
Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
CN1CRT01	Basic Nutrition	CO1	To understand the relation between nutrition and health.
		CO2	To acquire knowledge about the main nutrients and its functions in the body
		CO3	To understand the modifications in nutrient and dietary requirement for various diseases.
CN1CRT02	Basic Dietetics	CO1	To impart basic knowledge in the field of dietetics.
		CO2	To develop capacity and aptitude for taking up dietetics as a profession.
CN1CRT03	Family Meal Management I	CO1	Learn the principles of meal planning
		CO2	Acquire knowledge on planning meals for different age groups.
CN1CMT01	Fundamentals Of Biochemistry	CO1	Understand knowledge about biomolecules which are the basics of life
		CO2	Study about energy currency of the cell and chemical messengers
CN1CMT02	Human Anatomy and Physiology I	CO1	Understand the general structure and functions of various systems and organs of the body.
		CO2	Understand the abnormal changes in the tissue and organs on several disease states.
SEMESTER 2			
CN2CRT04	Advanced Nutrition	CO1	To understand the relation between nutrition and health.
		CO2	To acquire knowledge about the main nutrients and its functions in the body.
CN2CRT05	Clinical Nutrition	CO1	Study the aetiology, symptoms and medical nutrition therapy in various diseases
		CO2	Learn how to plan and prepare diet for various diseases
CN2CRT06	Family Meal Management II	CO1	Learn the principles of meal planning.
		CO2	Acquire knowledge on planning meals for different age groups.
CN2CMT03	General Biochemistry	CO1	Acquire knowledge about the importance of environmental biochemistry.
		CO2	Understand the basis of genetic engineering.
CN2CP01	Biochemistry Practical - I	CO3	To enable the students to get practical experience in lab and clinical nutrition.

CN2CMT04	Human Anatomy and Physiology II	CO1	Understand the general structure and functions of various systems and organs of the body.
		CO2	Understand the abnormal changes in tissue and organs on several disease states.
CN2CMP02	Human Physiology Practical I	CO1	Identify and analyses body cells and fluids.
		CO2	To gain technical skill in physical examination of body.
SEMESTER 3			
CN3CRT07	Therapeutic Nutrition	CO1	To understand skills and techniques in the planning of therapeutic diet for various diseases and nutritional deficiencies.
		CO2	To gain knowledge in diet counseling and educating patients.
CN3CRT08	Food Commodities I	CO1	To understand the raw and processed food commodities used in daily life.
		CO2	To discuss the qualities of available commodities and their suitability for different purposes.
CN3CRT09	Community Nutrition	CO1	To understand the importance of nutrition in national progress and the significance of the assessment of nutritional status.
		CO2	To find solutions to overcome problems of malnutrition in the community.
CN3CRP01	Therapeutic Nutrition Practical - I	CO1	To emphasis skill development in planning therapeutic diets using food exchange lists
		CO2	To provide greater exposure to dietetic practices followed in Indian hospital.
CN3CRP02	Community Nutrition Practical	CO1	Develop skills in field application of the techniques of assessing nutritional status.
		CO2	Acquire skills in organizing and implementing community nutrition projects.
CN3CRT05	Nutritional Biochemistry	CO1	Gain an understanding of the application of biochemistry in foods, nutrition and diet therapy.
		CO2	Know the different metabolic pathways of macronutrients in human body
CN3CRT06	Human Anatomy and Physiology III	CO1	Understand the general structure and functions of various systems and organs of the body.
		CO2	Understand the abnormal changes in the tissue and organs on several disease state
SEMESTER 4			
CN4CRT10	General Microbiology	CO1	To acquire an elementary knowledge about microorganisms
		CO2	To understand basics of microbial culture
CN4CRT11	Food Commodities II	CO1	To understand the basic commodities, both raw and processed used in catering and various aspects of their production and distribution.
		CO2	To discuss the qualities and standard of available commodities and their suitability for different purposes.

CN4CRP03	Therapeutic Nutrition Practical- II	CO1	To emphasis skill development in the planning and preparation of therapeutic diet
		CO2	To provide greater exposure to modification in normal diet
CN4CRP04	Quantity Food Production	CO1	To enable students to organize, prepare and serve food for three different meals
CN4CMT07	Biochemical Aspects Of Nutrition	CO1	To acquire knowledge about the micro nutrients and its functions in the body.
		CO2	To understand the metabolism of micro nutrients in human body
CN4CMP03	Biochemistry Practical II	CO1	To enable the students to get practical experience in lab and clinical nutrition.
		CO2	To make the students aware of the constituents of blood.
CN4CMT08	Human Anatomy and Physiology IV	CO1	Understand the general structure and functions of various systems and organs of the body.
		CO2	Understand the abnormal changes in the tissue and organs on several disease states.
CN4CMP04	Human Physiology Practical- II	CO1	To enable the students to identify and analyses body cells and fluids.
		CO2	To gain technical skill in physical examination of body
SEMESTER 5			
CN5CRT12	Food Microbiology, Sanitation & Hygiene	CO1	Understand the role of microorganisms in food spoilage
		CO2	Know the need for implementing sanitary procedures and attitudes.
CN5CRT13	Personnel Management	CO1	Understand the management of human resources in food service establishment.
		CO2	Understand the management of material resources in food service establishment
CN5CRT14	Research Methodology and Statistics	CO1	The fundamentals of research and statistics
		CO2	Practical application of statistics in research
CN5OPT16	Food Fortification	CO1	To understand the role of fortication in national nutritional development.
		CO2	To acquire knowledge about advantages, techniques and limitations of food fortification.
CN5CRP05	Food Science Practical	CO1	Understand the effect of various cooking methods on different food groups
		CO2	Understand the various methods of sensory analysis
SEMESTER 6			
CN6CRT17	Food Safety	CO1	Food safety, hygiene and food hazards
		CO2	Food regulations (national as well as international)
		CO3	Design and implementation of food safety management systems such as ISO series, HACCP and its prerequisites such as GMP, GHP etc.
CN6CRT18	Food Adulteration	CO1	To study different food adulterants and its impacts
		CO2	To identify the hazards from adulterants

CN6CRT19	Preventive Nutrition	CO1	To understand the importance of preventive nutrition in the current scenario
		CO2	To understand the role of Food security in National Development
CN6CRT20	Food Service Management	CO1	To develop skills in menu planning for quantity preparation.
		CO2	To understand the different styles of food service in volume feedings.
CN6OCT21	Food Preservation	CO1	To study the principles and methods of food preservation
		CO2	To understand about the various preservatives and their use in food
CN6OCT22	Epidemiology	CO1	To understand the role of epidemiological approach in disease prevention.
		CO2	To acquire knowledge about the water and waste management.
CN6OCT23	Information Technology	CO1	To understand the fundamentals of computer applications.
		CO2	To understand the practical applications of computer in nutrition science.
CN6CRP06	Meal Management Practical	CO1	Learn the principles of meal planning
		CO2	Plan and prepare meals for the family members at different income levels and different physiological status
CN6OJP08	On Job Training	CO1	Understand clinical and pathological conditions of various diseases, planning diet, prescription and dietary intervention for the same
		CO2	Observe and study the food service management practices
CN6PRP07	Project	CO1	To initiate research work among students

B.Com Taxation

Programme Specific Outcomes (PSO)

PSO1	To build a strong foundation of knowledge in different areas of Commerce
PSO2	To develop the skill of applying concepts and techniques used in Commerce
PSO3	To develop an attitude for working effectively and efficiently in a business environment
PSO4	To integrate knowledge, skill and attitude that will sustain an environment of learning and creativity among the students
PSO5	To expose students about entrepreneurship
PSO6	To enable a student to be capable of making decisions at personal and professional level
PSO7	To have an understanding of determination of Total Income and tax payable
PSO8	To get an overview regarding returns to be filed by an individual and also assessment procedure

Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
CO1CRT 01	Dimensions and Methodology of Business Studies	CO1	To create understanding on the role of business in society
		CO2	To familiarize the technology integration in business
		CO3	To inculcate the fundamentals of business research in the life of students
CO1CRT 02	Financial Accounting I	CO1	To equip the students with the skill of preparing financial accounts
		CO2	To enable students to develop financial reports from incomplete accounts
		CO3	To enable the students to prepare financial reports for different types of business
CO1CRT 03	Corporate Regulations and Administration	CO1	To familiarize the students with the management of companies in India
		CO2	To create an understanding among the students on administration of joint stock companies in India
		CO3	To help the students to understand the implications of business laws in India with special focus to Companies Act, 2013
SEMESTER 2			
CO2CRT 04	Financial Accounting II	CO1	To equip the students with the skill of preparing financial accounts with advanced techniques
		CO2	To enable students to account for dissolution of partnership firms
		CO3	To familiarize the application of important accounting standards

CO2CRT 05	Business Regulatory Framework	CO1	To familiarize the students with the legal framework influencing business decisions
		CO2	To make an understanding among students about principal – agency relationship in business
		CO3	To equip the students with practical implications of Sale of Goods Act, 1930
CO2CRT 06	Business Management	CO1	To familiarize the students with concepts and principles of management
		CO2	To introduce various management techniques
		CO3	To introduce various management practices
SEMESTER 3			
CO3CRT 07	Corporate Accounts I	CO1	Familiarize with corporate accounting procedures and to understand the provisions of Companies Act 2013 in accounting.
		CO2	Equip the students to use new accounting schedules for the preparation of final statements.
		CO3	Develop the students to handle the accounting procedures in the corporate for buy back, redemption, right issue and underwriting.
		CO4	Students are able to handle the accounting procedure of the insurance company and its clients while raising claims.
CO3CRT 08	Quantitative Techniques for Business-1	CO1	Students are getting clarity about the statistical theory in real life situation.
		CO2	Equip the students to handle business issues by using proper statistical tools.
		CO3	Students are able to identify the appropriate statistical tool for the specific issues of the business firms.
CO3CRT 09	Financial Markets and Operations	CO1	Familiarize the student about the financial markets rules and laws in India.
		CO2	Students are able to understand the technical explanation about the financial market operations.
		CO3	Develop the skill to help others on the different market situations in a specific manner.
		CO4	Equip the students to get a job in securities trading firms and other market related institutions.
CO3CRT 10	Marketing Management	CO1	Students are equipped to identify the different marketing strategies used by the business firms.
		CO2	Understand the pricing strategies adopted in the marketing process.
		CO3	Develop the skill of sales.
		CO4	Make the students to be suitable for profession in Marketing field.
SEMESTER 4			
CO4CRT 11	Corporate Accounts II	CO1	Equip the students to prepare the final accounts of Investment Company as per Companies Act 2013.

CO4CRT 12	Quantitative Techniques for Business- II	CO2	Familiarizes the students on the different accounting procedures and Provisions of Banking companies, Investment Companies and insurance companies.
		CO3	Students are equipped to get job in financial organization.
		CO4	Students are developed to handle different financial issues related to the companies in an effective way as per companies Act 2013.
		CO1	Students are able to select statistical model for the different issues related with business.
		CO2	Students are equipped to analyze primary data by using appropriate statistical models.
		CO3	Developed skill to do descriptive analysis on primary and secondary data.
CO4CRT 13	Entrepreneurship Development and Project Management	CO1	Developed the attitude of Entrepreneurship.
		CO2	Students are familiarized with different technical and financial facilities availed at present.
		CO3	Students are able to start micro or tiny type business firm.
		CO4	Equipped the students to engage various activates in the business activities.
SEMESTER 5			
CO5CRT 14	Cost Accounting - 1	CO1	Familiarize the students with cost concepts and to make the students learn the Fundamentals of cost accounting as a separate system of accounting.
		CO2	Familiarize the students with latest inventory control techniques.
		CO3	Make students aware of accounting of Labour and overhead costs
		CO4	Equip students to prepare cost sheets.
CO5CRT 15	Environment and Human Rights	CO1	Familiarise Multidisciplinary nature of environmental studies, Natural resources, eco-systems, pollution, issues, and human rights
		CO2	Acquaint students with biodiversity of India and its conservation
		CO3	Invite student's attention on the serious environmental pollutions and social issues related with environment.
		CO4	Enable students to be aware of human rights related with environment.
CO5CRT 16	Financial Management	CO1	Familiarise the students with the functional areas and principles of financial management
		CO2	Equip students to take financial decisions based on the analysis of financial statements.
		CO3	Familiarise students with the various techniques of investment decisions.
		CO4	Equip students to estimate the working requirements of an organisation.
SEMESTER 6			

CO6CRT 17	Cost Accounting - 2	CO1	Acquaint the students with different methods and techniques of costing. and to enable the students to identify the methods and techniques applicable for different types of industries.
		CO2	Make students aware of operating and process costing techniques of different industries.
		CO3	Familiarise students with decision making based on marginal costing mechanism.
CO6CRT 18	Advertisement and Sales Management	CO1	Make the students aware of the strategy, concept and methods of advertising and sales promotion.
		CO2	Make students aware of ad agencies and regulations of advertisement in India
		CO3	Equip students to personal selling skills
CO6CRT 19	Auditing and Assurance	CO1	Familiarize the students with the principles and procedure of auditing.
		CO2	Enable the students to understand the duties and responsibilities of auditors and to undertake the work of auditing.
		CO3	Make students aware of special audits and investigation procedures.
		CO4	Familiarise the students with preparation of audit documents, and internal control systems in organisations.
CO6CRT 20	Management Accounting	CO1	Explain the three primary purposes of management accounting namely, inventory valuation, decision support and cost control.
		CO2	Develop and apply standards and budgets for planning and controlling purposes.
		CO3	Apply and analyze different types of activity-based management tools through the preparation of estimates.

Complementary Course

B.A English Language & Literature			
Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
PS1CMT01	An Introduction to Political Science	CO 1	It will help the student to understand the relevance of the discipline and also to acquire the practical knowledge of the subject
		CO 2	Inculcate awareness about the principles of Political Science in general and political process in particular. For that, various approaches, ideologies and related theories are dealt in an interdisciplinary manner.
SEMESTER 2			
PS2CMT03	Indian Constitution: Social Issues in India	CO 1	The course helps to develop among students the ability to comprehend contemporary politics as a relationship between institutional structures and historically constituted political processes.
		CO 2	Integral to the course is the understanding that ideas of democracy, freedom and corresponding social, political and institutional practices shaped the discipline in a more meaningful way.
SEMESTER 3			
EN3CM03	The Evolution of Literary Movements: The Shapers of Destiny	CO 1	To make the learner aware of the way in which history shapes the life and literature of a people.
		CO 2	To give the learner a comprehensive overview of the history of Britain and its impact upon the rest of the world.
		CO 3	To enable him to understand English literature in the light of historical events.
SEMESTER 4			
EN4CM04	The Evolution of Literary Movements: The Cross Currents of Change	CO 1	To enable students to have an notion of the evolution of literature and to help them perceive the interplay of social processes and literature
		CO 2	Students will be competent to understand literature against the backdrop of history.
		CO 3	Students will be inspired to contribute dynamically to historical and literary processes.

B.A Economics			
Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
HY1CMT02	Social Formation in pre modern India.	CO 1	Students will be able to examine institutional basis of Ancient India.

		CO 2	Students will be able to illustrate the development of empire.
		CO 3	Understand the salient features of Indus valley civilization
SEMESTER 2			
HY2CMT0 4	History of Freedom movement in India	CO 1	
		CO 2	
SEMESTER 3			
PS3CMT01	An Introduction to Political Science	CO 1	It will help the student to understand the relevance of the discipline and also to acquire the practical knowledge of the subject
		CO 2	Inculcate awareness about the principles of Political Science in general and political process in particular. For that, various approaches, ideologies and related theories are dealt in an interdisciplinary manner.
SEMESTER 4			
PS4CMT05	Indian Constitution: Social Issues in India	CO 1	The course helps to develop among students the ability to comprehend contemporary politics as a relationship between institutional structures and historically constituted political processes.
		CO 2	Integral to the course is the understanding that ideas of democracy, freedom and corresponding social, political and institutional practices shaped the discipline in a more meaningful way.

B.A History			
Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
EC1CMT0 1	Principles of Economics	CO1	It helps the students to learn to apply the basic principles and concepts of economics to everyday issues.
		CO2	It enriches the students with rational thinking.
		CO3	It also helps the students to imbibe the relationship among the members of the society.
SEMESTER 2			
EC2CMT0 2	Basic Economic Studies	CO1	It intends to make the students equipped with essential understanding the basic economic issues.
		CO2	This Course Addresses Issues Like in public finance, international economic issues, and Kerala economy so that they shall be capable of realizing and solving common economic issues in the society.
		CO3	Students also get acquainted with policy requirements.
SEMESTER 3			
PS3CMT01	An Introduction	CO1	It will help the student to understand the relevance of the discipline and also to acquire the practical knowledge of the subject

	to Political Science	CO2	Inculcate awareness about the principles of Political Science in general and political process in particular. For that, various approaches, ideologies and related theories are dealt in an interdisciplinary manner.
SEMESTER 4			
PS4CMT05	Indian Constitution: Social Issues in India	CO1	The course helps to develop among students the Ability to comprehend contemporary politics and historically constituted political processes.
		CO2	Integral to the course is the understanding that ideas of democracy, freedom and corresponding social, political and institutional practices shaped the discipline in a more meaningful way.

B.Sc. Physics			
Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
MM1C MT01	Partial Differentiation, Matrices, Trigonometry and Numerical Methods	CO1	Understand the concept of partial differentiation of functions of several variables.
		CO2	Solve systems of linear equations using different methods.
		CO3	Understand trigonometric and hyperbolic functions in detail.
		CO4	Learn how to solve equations using numerical methods.
CH1CM T01	Basic Theoretical and Analytical Chemistry	CO1	This part of the syllabus will impart an interest in studying chemistry.
		CO2	Students are getting more ideas about theoretical and experimental Chemistry.
		CO3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.
SEMESTER 2			
MM2C MT01	Integral Calculus and Differential Equations	CO1	Use integral calculus to find area and volume of various geometrical objects.
		CO2	Master the concepts of double integrals and triple integrals
		CO3	Recognize and solve separable, exact, homogeneous and non-homogeneous ordinary differential equations
		CO4	Solve partial differential equations.
CH2CM T02	Basic Organic Chemistry	CO1	By studying this part of the syllabus students are getting basic ideas of organic chemistry, which enables them to build a better foundation
		CO2	The course aims to study the mechanism of organic reactions
		CO3	It also develops an interest in various branches of organic chemistry.
CH2CM P01	Volumetric Analysis- Practical	CO1	Plan and Conduct different estimation technique.
		CO2	To study the effect of various indicators
		CO3	To estimate and check the accuracy of the given sample
SEMESTER 3			
MM3CMT01	Vector Calculus, Analytic Geometry and	CO1	Acquaint with the concept of vector valued functions and its curvature, directional derivatives
		CO2	Extend the tools of integral calculus to vector valued functions

	Abstract Algebra	CO3	Understand various properties of conic sections in Cartesian and polar coordinates
		CO4	Understand basic algebraic concepts like binary operations, groups, cosets, rings, ideals
CH4CMT03	Physical Chemistry-1	CO1	The objective of this academic plan is to make the concepts and methods of physical chemistry clear and interesting to students, who have basic ideas in mathematics and physics
		CO2	The underlying theory of chemical phenomena is completed, and so it is a challenge to make the most important concepts and methods understandable to undergraduate students
SEMESTER 4			
MM4CMT01	Fourier Series, Laplace Transforms and Complex Analysis	CO1	Learn Fourier series and Legendre Polynomials
		CO2	Solve differential equations using power series method
		CO3	Understand Laplace transforms
		CO4	Learn about Complex valued functions and determine whether a given function is differentiable
CH4CMT05	Physical Chemistry-II	CO1	The objective of this academic plan is to make the concepts and methods of physical chemistry clear and interesting to students, who have basic ideas in mathematics and physics
		CO2	The understand theory of modern branches like spectroscopy
CH4CMP02	Physical Chemistry Practical	CO1	Explain the principle behind the experiments performed in the laboratory
		CO2	Plan and Perform experiments and Interpret experimental results.

B. Sc Chemistry			
Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
PH1CMT02	Properties of matter and thermodynamics	CO1	Explore the fundamental concepts of mechanical properties of solids and fluids.
		CO2	Understand the central concepts and basic formalisms of specific heat, entropy, quantum theory of radiation.
		CO3	Acquire knowledge on heat transfer, entropy and quantum theory of radiation.
SEMESTER 2			
PH2CMT02	Mechanics and superconductivity	CO1	Learn Relative motion, Inertial and non-inertial reference frames and Centre of mass of mechanical systems.

		CO2	Study the interaction of forces between solids in mechanical systems and parameters defining the motion of mechanical systems.
		CO3	Understanding the basic principles of superconducting transitions.
SEMESTER 3			
PH3CMT02	Modern physics and magnetism	CO1	Study the basics of dual properties of matter and radiation.
		CO2	Introduce the modern branch of Physics 'Quantum Mechanics'
		CO3	Define the concepts of magnetic field, magnetic flux etc. and solve technical problems.
SEMESTER 4			
PH4CMT02	Optics and solid state physics	CO1	Understand the central concepts and basic formalisms of interference, diffraction and polarization based on wave theory.
		CO2	Gain Fundamental knowledge in lasers and applications.
		CO3	Understand the basic properties of solids, their structure, properties and various technological applications.

B.Sc. Botony			
Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
ZY1CMT01	Non Chordate Diversity	CO1	To study the scientific classification of invertebrate fauna.
		CO2	To learn the physiological and anatomical peculiarities of some invertebrate phyla through type study.
		CO3	To learn the unity of life with rich diversity of organisms & evolutionary significance of certain invertebrate fauna
		CO4	To stimulate the curiosity of students' in the biota living around them.
CH1CMT01	Basic theoretical and analytical chemistry	CO1	This part of the syllabus will impart an interest in studying chemistry
		CO2	students are getting more ideas about theoretical and experimental Chemistry
		CO3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.
SEMESTER 2			
ZY2CMT02	Chordate Diversity	CO1	To make the student observe the diversity in chordates and their systematic position.

		CO2	To make the student aware of the economic importance of some chordates.
		CO3	To learn the physiological and anatomical peculiarities of some vertebrate species through type study.
		CO4	To stimulate the students' curiosity in vertebrates living associated with them.
CH2CMT02	Basic Organic Chemistry	CO1	By studying this part of the syllabus students are getting basic ideas of organic chemistry, which enables them to build a better foundation
		CO2	The course aims to study the mechanism of organic reactions
		CO3	It also develops an interest in various branches of organic chemistry.
CH2CMP01	Volumetric Analysis- Practical	CO1	Plan and Conduct different estimation technique.
		CO2	To study the effect of various indicators
		CO3	To estimate and check the accuracy of the given sample
SEMESTER 3			
ZY3CMT03	Physiology and Immunology	CO1	To appreciate the correlation between structure and function of organisms
		CO2	To make the student aware of the health related problems, their origin and treatment.
		CO3	To understand how efficiently your immune system works in our body.
		CO4	To acquire knowledge about preventing common diseases rather than curing.
CH4CMT04	Inorganic and Organic Chemistry	CO1	Develops an interest in various branches of organic chemistry.
		CO2	An inorganic chemistry student is expected to be conversant with the chemistry of all the elements and has been closely allied with analytical chemistry, with physical chemistry and even with organic chemistry.
SEMESTER 4			
ZY4CMT04 CH4CMT06	Applied Zoology Advanced Bioorganic Chemistry	CO1	To acquire basic knowledge and skills in applied branches of zoology.
		CO2	To understand the technology for utilising eco-friendly organisms around them for beneficial purpose.
		CO3	To equip the students for self employment opportunities with scientific knowledge to perform profitably & confidently.
		CO1	This part of the curriculum deals with biological aspects of chemistry, which help students to understand medicinal chemistry, useful in daily life
		CO2	To study the details of Natural products
CH4CMP03	Organic Chemistry Practical	CO1	To analyse the functional group

		CO 2	To determine the physical constants of solids and liquids
		CO 3	To prepare solid derivatives of the detected organic compounds

B.Sc. Zoology			
Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
BO1CMT01	Cryptogams, gymnosperms and plant pathology	CO 1	To acquire the knowledge in plant science.
		CO 2	To encourage the aptitude of curiosity, appreciation and enquiry of various forms of plants.
		CO 3	To understand the identifying characters of various groups of plants.
		CO 4	To understand the diversity of plants.
CH1CM T01	Basic theoretical and analytical chemistry	CO 1	This part of the syllabus will impart an interest in studying chemistry
		CO 2	students are getting more ideas about theoretical and experimental Chemistry
		CO 3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.
SEMESTER 2			
BO2CMT02	Plant physiology	CO1	To make the students realize the importance of physiological process.
		CO2	To understand the mechanisms of various physiological processes related to plant life.
		CO3	Understand the mechanism of physiological functioning of plant cells.
		CO4	To equip the students to conduct experiments in plant physiology.
CH2CMP01	Volumetric Analysis- Practical	CO1	Plan and Conduct different estimation technique.
		CO2	To study the effect of various indicators
		CO3	To estimate and check the accuracy of the given sample
CH2CMT02	Basic Organic Chemistry	CO1	By studying this part of the syllabus students are getting basic ideas of organic chemistry, which enables them to build a better foundation

		CO2	The course aims to study the mechanism of organic reactions
		CO3	It also develops an interest in various branches of organic chemistry
SEMESTER 3			
BO3CMT03	Ang. Taxonomy & Eco. Botany	CO1	To understand the objectives and components of Taxonomy.
		CO2	To help the students to understand the systems of classification.
		CO3	To help the students to identify the common angiosperms in Kerala.
		CO4	To familiarize the students with plants of eco. importance of plants.
CH4CMT04	Inorganic and Organic Chemistry	CO1	Develops an interest in various branches of organic chemistry.
		CO2	An inorganic chemistry student is expected to be conversant with the chemistry of all the elements and has been closely allied with analytical chemistry, with physical chemistry and even with organic chemistry.
SEMESTER 4			
BO4CMT04	Anatomy and applied Botany	CO1	Understand the different types of plant tissues.
		CO2	To understand the internal structure of different plant organs.
		CO3	To know the morphological and anatomical adaptations of plants.
		CO4	To understand how botanical knowledge applied for crop improvement.
CH4CMT06	Advanced Bioorganic Chemistry	CO1	This part of the curriculum deals with biological aspects of chemistry, which help students to understand medicinal chemistry, useful in daily life
		CO2	To study the details of Natural products
CH4CMP03	Organic Chemistry Practical	CO1	To analyze the functional group
		CO2	To determine the physical constants of solids and liquids
		CO3	To prepare solid derivatives of the detected organic compounds

Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
CO1CMT01	Banking and Insurance	CO 1	To introduce to students the basic concepts of banking and insurance
		CO 2	To equip the students with knowledge in practical banking
		CO 3	To familiarize the students with knowledge on different types of insurance and various insurance schemes
SEMESTER 2			
CO2CMT02	Principles of Business Decisions	CO 1	To familiarize the students with the economic concepts and principles underlying business decision making
		CO 2	To enable the students to conduct cost analysis of business firms
		CO 3	To equip the students with knowledge on business decision making

Open Courses (Offered During Semester V)

Name of the Department	Course Code	Course Title	Course Outcomes (CO)	
English	EN5CROP03	English for Careers	CO1	On completion of the course, the students should be able to develop communicative skills, which will enable them to prepare for a career and function effectively in it.
			CO2	To make the students competent in their job-seeking, job-getting and job-holding needs. The course shall cater to equipping the students in Comprehensive Language Enhancement.
			CO3	To equip them in oral and written communication and to enhance their and professional use of language.
Economics	EC5OPT01	Fundamentals of Economics	CO1	This course is designed to make the undergraduate students of other disciplines aware of the basic ideas and concepts in economics.
			CO2	Students get the basic idea regarding national income, production, distribution etc.
			CO3	This course also inculcates some reasoning ability in students from other disciplines.

Mathematics	MM5OPT02	Applicable Mathematics	CO1	To prepare students of all streams particularly those with arts and commerce background for their higher studies and to approach competitive examinations
			CO2	To acquire better understanding in basic concepts of mathematics
			CO3	To introduce shortcut methods for developing problem solving skills
Physics	PH5OPT02	Physics in Daily Life	CO1	Recognize the importance of applied Physics in describing natural phenomena
			CO2	Realize the significance of units and measurements, optical phenomena, electricity and its applications, matter and energy etc.
			CO3	Obtain a fundamental understanding about our universe, including galaxies, solar system, artificial satellites and their use in global positioning system.
Chemistry	CH5OPT01	Chemistry in Everyday Life	CO1	To know the importance of Chemistry in everyday life, because it provides medicine
			CO2	To understand the chemical processes involved in the digestion of food we eat.
Commerce (Finance & Taxation)	ECO5PT01	Fundamentals of Economics	CO1	This course is designed to make the undergraduate students of other disciplines aware of the basic ideas and concepts in economics.
			CO2	Students get the basic idea regarding national income, production, distribution etc.
				This course also inculcates some reasoning ability in students from other disciplines.

Elective Papers

EM 800401	Financial Econometrics1	CO1	Analyse critically the empirical issues in financial economics and financial markets with the application of various econometric models
		CO2	Critically comprehend and test empirically the efficient markets hypothesis, the predictability of asset returns and volatility models
		CO3	Apply the various theoretical models to the financial data with a view to estimating and predicting the parameters

		CO4	Use the open source econometric software packages such as Gretl, R to estimate various limited dependent variable models using real world data
		CO5	Analyse the results and interpret the estimates of the financial econometric models both in theoretical and plain language
EM 800402	Panel Data Econometrics	CO1	Critically understand the econometric techniques to deal with various types of panel data sets
		CO2	Apply critically the various panel data techniques to deal with the error component regression models, serial correlation, heteroscedasticity, seemingly unrelated regressions, simultaneous equations, dynamic models, incomplete panels, limited dependent variables and nonstationary panels.
		CO3	Apply the various theoretical models to the panel data sets with a view to estimating the parameters
		CO4	Use the open source econometric software packages such as Gretl, R to estimate various limited dependent variable models using real world data
		CO5	Analyse the results and interpret the estimates of the limited dependent variable models both in theoretical and plain language.
EM 800403	Experimental Design and Cliometrics	CO1	Critically understand the econometric techniques to explore the problem of causality in economics
		CO2	Evaluate the applications of Cliometrics methods to comprehend the problems of economic history
		CO3	Apply critically the various econometric techniques involved in randomised control trials, natural experiments and regression discontinuity designs
		CO4	Use the open source econometric software package R to estimate the parameters with casual models by using the real world data
		CO5	Analyse the results and interpret the estimates of the casual models both in theoretical and plain language.
EM 810401	Microeconomic	CO1	Develop competence in using standard tools of Microeconometrics including ordinary least squares (OLS), instrumental variables (IV), probits and logits
		CO2	Critically understand economic problems by using information on what economic agents actually do, then use economic theory with econometric techniques to predict what they would do.
		CO3	Apply the microeconomic models to the empirical data with a view to estimating the parameters
		CO4	Use the open source econometric software package R to estimate the models using real world data and interpret the estimates both in theoretical and plain language.
EM 810402	Macroeconometrics	CO1	Appreciate critically the theoretical underpinnings of macroeconomic policy making

		CO2	Critically discuss the different theoretical approaches in macro econometric modelling
		CO3	Appraise the intertemporal optimization methods in Macroeconometrics.
EM 810403	Econometrics of Policy Evaluation	CO1	Provide the set of both theoretical and applied tools in order to illustrate the correct implementation of modern micro-econometric techniques for program evaluation in economics
		CO2	Develop competencies to appraise the impact of economic and social programs through evidence-based econometric evaluations
		CO3	Design rigorous and effective ex post program evaluation using the statistical software package R

Postgraduate Programmes-M.Sc./M.A

M.Sc. Chemistry			
Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
CH500101	Organometallics and Nuclear Chemistry	CO1	Identify the structure and bonding aspects of simple organometallic compounds
		CO2	Apply different electron counting rules to predict the shape/geometry of low and high nuclearity metal carbonyl clusters
		CO3	Identify the different types of organometallic reactions and apply the above concepts to explain different catalytic reactions
CH500102	Structural & Molecular Organic Chemistry	CO1	Comprehend and Predict the role of temperature, solvents, and catalysts in organic reactions
		CO2	Elucidate reaction mechanisms using isotope effects
		CO3	Identify and differentiate prochirality and chirality at centers, axis, planes and helices and determine the absolute configuration
		CO4	Evaluate the stability of various conformers of acyclic and cyclic systems using steric, electronic and stereo-electronic effects and correlate them to reactivity.
		CO5	Use various models for determining stereo-selectivity of various organic transformations
CH500103	Quantum Chemistry & Group Theory	CO1	Use mathematical techniques in linear algebra for eigenvalues and eigenvectors and first and second order differential equations not only in quantum chemistry but in

			other areas of physical and theoretical chemistry that will be offered during the whole programme.
		CO2	Solve all the model problems in quantum mechanics for which exact analytical methods and solutions are available and will apply them to analyze the basis behind the postulatory method of quantum mechanics and which forms the foundations for advanced study of the subject.
		CO3	Relate concepts that were originally introduced purely as modern atomic physics to molecular systems through harmonic oscillator, spin and rigid rotator.
		CO4	Determine the symmetry operations of any small and medium-sized molecule and apply point group theory to the study of electrical, optical and magnetic properties and selection rules for absorption
CH500104	Classical and Statistical Thermodynamics	CO1	Calculate change in thermodynamic properties, equilibrium constants, partial molar quantities, chemical potential. Identify factors affecting equilibrium constant.
		CO2	Apply phase rule and, draw phase diagrams for one, and two component systems, identify the dependency of temperature and pressure on phase transitions, and identify first/second order phase transitions.
		CO3	Solve problems based on Debye-Huckel limiting law. Calculate excess thermodynamic properties.
		CO4	Calculate the absolute value of thermodynamic quantities (U, H, S, A, G) and equilibrium constant (K) from spectroscopic data.
		CO5	Predict heat capacity (C _v , C _p) of an ideal gas of linear and non-linear molecules from the number of degrees of freedom, rotational and vibrational wave numbers.
		CO6	Derive the temperature dependence of the second Virial coefficient (real gases) from interatomic potentials.
SEMESTER 2			
CH500201	Coordination Chemistry	CO 1	Identify the principles, structure and reactivity of selected coordination complexes. Interpret their electronic spectra and magnetic properties.
		CO 2	Utilize the principles of transition metal coordination complexes in understanding functions of biological system
CH500202	Organic Reaction Mechanism	CO 1	Comprehend the structure-reactivity pattern of reactive intermediates involved in organic reactions
		CO 2	Comprehend the orbital interactions and orbital symmetry correlations of various pericyclic reactions
		CO 3	Write mechanism of organic reactions involving reactive intermediates and concerted processes
		CO4	Apply these reactions in organic synthesis
CH500203	Chemical Bonding and Computational Chemistry	CO1	Apply time independent perturbation theory to complex problems of molecular energy levels in the presence of external electric and magnetic fields
		CO2	Distinguish different types of hybridization based on geometries of the complex and to calculate for a one-

			electron and two electron system, all the necessary integrals due to coulombic forces.
		CO3	Write short simple programs in FORTRAN and be able to compile and execute them in a host of machines.
		CO4	Use standard software tools such as MATLAB and Mathematica to perform algebraic and numerical calculations often required in elementary physical chemistry in the areas of quantum chemistry, spectroscopy, kinetics and thermodynamics
CH500204	Molecular Spectroscopy	CO1	Apply NMR, IR, MS, UV-Vis spectroscopic techniques in solving structure of organic molecules and in determination of their stereochemistry.
		CO2	Interpret the above spectroscopic data of unknown compounds.
		CO3	Use these spectroscopic techniques in their research
CH500205	Inorganic Chemistry Practical-1	CO1	Plan and Conduct experiments for identifying and characterizing inorganic compounds
CH500206	Organic Chemistry Practical-1	CO1	Separate and purify products in organic reactions
		CO2	Characterize organic compounds using spectroscopic and spectrometric techniques
		CO3	Apply the concepts of nanotechnology and polymer chemistry in to research
CH500207	Physical Chemistry Practical-1	CO1	Explain the principle behind the experiments performed in the laboratory
		CO2	Plan and Perform experiments and Interpret experimental results.
SEMESTER 3			
CH500301	Structural Inorganic Chemistry	CO1	Arrive at the chemical compositions based on unit cell contents and fractional coordinates.
		CO2	Calculate densities from powder XRD data
		CO3	Identify and apply a suitable strategy for synthesizing inorganic crystalline solids in polycrystalline and single crystal forms
		CO4	Correlate and Predict structure-composition-properties (magnetic, electrical and optical) in inorganic crystalline solids
CH500302	Organic Synthesis	CO1	Use various reagents and organic reactions in organic synthesis
		CO2	Use retrosynthetic method for the logical dissection of complex organic molecules and devise synthetic methods
CH500303	Chemical Kinetics, Surface Chemistry and Crystallography	CO1	Calculate transport properties of gases, liquids and solids
		CO2	Solve problems on rate/rate constants/efficiency for (i) complex reactions (ii) unimolecular and bimolecular reactions, and (iii) electronically excited state dynamics.

		CO3	Plot equations and functions representing kinetic behaviour of chemical systems in ground and electronically excited states.
CH500304	Spectroscopic Methods in Chemistry	CO1	Apply NMR, IR, MS, UV-Vis spectroscopic techniques in solving structure of organic molecules and in determination of their stereochemistry.
		CO2	Interpret the above spectroscopic data of unknown compounds.
		CO3	Use these spectroscopic techniques in their research.
SEMESTER 4			
CH500401	Advanced Inorganic chemistry	CO1	Solve problems based on various analytical concepts
		CO2	Design experiments with improved sample preparation, new measurement procedures and tools
		CO3	Quantify analytes with proper data handling and analysis
CH500402	Advanced Organic Chemistry	CO1	Comprehend the structure-reactivity pattern of supramolecules involved in organic reactions
		CO2	Comprehend Green alternative to organic synthesis
		CO3	Apply the concepts of nanotechnology and polymer chemistry in to research
CH500403	Advanced Physical Chemistry	CO1	Write equations representing electrochemical cell, explain various over potential involved during the operation of the cell.
		CO2	Calculate electrochemical cell parameters, electro chemical active surface area, current and over potential under given condition, amount of corrosion and its rate.
		CO3	Plot potential vs current, surface coverage vs. potential, potential vs. pH, concentration profile vs. distance from the electrode
CH500405	Inorganic Chemistry Practical-2	CO1	Plan and Conduct experiments for identifying and characterizing inorganic compounds.
CH500406	Organic Chemistry Practical-2	CO1	Separate and purify products in organic reactions.
		CO2	Characterize organic compounds using spectroscopic and spectrometric techniques.
		CO3	Apply the concepts of nanotechnology and polymer chemistry in to research.
CH500407	Physical Chemistry Practical-2	CO1	Explain the principle behind the experiments performed in the laboratory.
		CO2	Plan and Perform experiments and Interpret experimental results.

Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
ZL010101	Animal Diversity: Phylogenetic and Taxonomic Approaches	CO1	Understanding of the principles and practice of Taxonomy
		CO2	Acquire an in-depth knowledge on the diversity and relationships in animal world
		CO3	Develop an holistic appreciation on the phylogeny and adaptations in animals
ZL010102	Evolutionary Biology and Ethology	CO1	Understanding on the process and theories in evolutionary biology
		CO2	Develops an interest in the debates and discussion taking place in the field of evolutionary biology
		CO3	Critically evaluate the debates and take a stand based on science and reason
		CO4	Familiarizes the basics and advances in ethology
		CO5	Generate an interest to understand the complexities of both animal and human behavior
ZL010103 ZL010104	Biochemistry Biostatistics and Research Methodology	CO1	Understands the chemical nature of life and life process
		CO2	Generates an interest to explore the new developments in biochemistry
		CO3	Acquires an idea on structure and functioning of biologically important molecules
		CO4	Impart concepts, generate enthusiasm and gives awareness about the tools/gadgets and accessories of biological research .
		CO5	Hands on training in the use of various tools and techniques in research.
		CO6	Equips with basic idea to carry out original research in biology .
SEMESTER 2			
ZL010201	Field Ecology	CO1	Understands the basic theories and principles of ecology
		CO2	Gains critical understanding on human influence on environment
		CO3	Learns about current environmental issues based on ecological principles
		CO4	Acquires knowledge about various disciplines in ecology
ZL010203	Genetics and Bioinformatics	CO1	Gives an in-depth understanding on the principles and mechanisms of inheritance
		CO2	Gets an awareness about emerging field of bioinformatics and equip them to take up bioinformatics studies
		CO3	Acquires knowledge about the importance of inheritance in Man
		CO4	Learns about the fine structure and molecular aspects of genetic material
ZL010204	Microbiology and Biotechnology	CO1	Provides an over view of the microbial world, its structure and function
		CO2	Familiarize the students with public policy, biosafety, and intellectual property rights issues related to biotechnology

		CO3	Gives an intensive and in-depth learning in the field of biotechnology
		CO4	Familiarizes the learner with the applied aspects of microbiology
		CO5	Understands the modern biotechnology practices and approaches with an emphasis in technology application, medical, industrial, environmental and agricultural areas
SEMESTER 3			
ZL010301	Animal Physiology	CO1	Compares the functioning of organ systems across the animal world
		CO2	Learns to design experimental projects in physiology
		CO3	Develop a basic understanding of the experimental methods and designs that can be used for further study and research
		CO4	Acquire a broad understanding of the hormonal regulation of physiological processes in invertebrates and vertebrates.
		CO5	Gets thorough knowledge about human physiology
		CO6	Understanding of the various disorders in animals and their causes
ZL010302	Cell and Molecular Biology	CO1	Gains knowledge on the structural and functional details of the basic unit of life at the molecular level
		CO2	Introduce the new developments in molecular biology and its implications in human welfare
		CO3	Motivate the learner to refresh and delve into the basics of cell biology
ZL010303	Biophysics, Instrumentation and Biological Techniques	CO1	Learns the biophysical properties and functioning of life processes
		CO2	Hands on training on the use of tools and techniques for project work/ research in biology
		CO3	Awareness about tools and techniques available for studying biochemical and biophysical nature of life
ZL010304	Immunology	CO1	Provides an intensive and in-depth knowledge to the students in immunology
		CO2	Familiarizes the students the new developments in immunology
		CO3	Helps the learner to understand the role of immunology in human health and well-being
SEMESTER 4			
ZL810401	Environmental Science: Concepts and Approaches	CO1	Gives a clear understanding on the basic concepts of environmental biology
		CO2	Gives an understanding of the International and national level programme related to environment protection
		CO3	Prepares the learner to participate in environment conservation programmes
ZL810402	Environmental Pollution and Toxicology	CO1	Acquires knowledge about the environmental issues
		CO2	Motivates the learner to participate in environment protection programmes
		CO3	Provides an opportunity to participate in field activities and get first hand information about environmental issues

ZL810403	Environmental Management and Development	CO1	Acquires knowledge about the steps in environment management.
		CO2	Gains information about the tools and techniques related to environment management
		CO3	Helps the learner to participate in environmental managements programmes
		CO4	Provides information about various environment management programmes

M.Sc. Clinical Nutrition			
Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
HS030101	Applied Human Physiology	CO1	To learn the different physiological systems in our body and its functions.
		CO2	To gain knowledge about nutritional physiology
HS030102	Clinical Biochemistry	CO1	To understand the biochemical and pathological changes in diseases.
		CO2	To acquire skills to estimate selected body metabolites.
HS030103	Therapeutic Nutrition	CO1	To impart advanced knowledge in the field of dietetics.
		CO2	To develop capacity and aptitude for taking up dietetics as a profession
HS030104	Advanced Food Science	CO1	Gain knowledge on sources and properties of food
		CO2	Develop skills to judge the quality of cooking food
HS030105	Advanced Food Science Practical	CO1	Apply the theoretical knowledge of food chemistry in practice.
		CO2	Develop insight on the practical aspects of experimental cookery
SEMESTER 2			
HS030201	Nutrigenomics & Pharmacogenomics	CO1	To help the students to understand the concepts in the field of nutrigenomics.
		CO2	To enable the students to understand nutraceuticals, phytochemicals and functional foods.
HS030202	Public Health Nutrition	CO1	Assess the health status of the community and relate nutrition and health in the community.
		CO2	Keep abreast to the changes in health care administration and policies
HS030203	Nutrition Through Life Cycle	CO1	To impart knowledge on the importance of nutrition during life span.
		CO2	To enlighten on the dietary modification.

HS030204	Macro Nutrients	CO1	To understand advances in the study of major nutrients..
		CO2	To enable them to translate the knowledge into practical guidelines for dietary needs of human at different stages of life.
HS030205	Micro Nutrients	CO1	Understand the functions and role of micro nutrients.
		CO2	Impart knowledge about various deficiency diseases.
SEMESTER 3			
HS030301	Nutrition In Critical Care	CO1	Understand different disease condition that need special care
		CO2	Impart knowledge about medical nutrition therapy in critically ill patients
HS030302	Research Methodology and Statistics	CO1	To enable the students to understand the principles & techniques of research and writing research report
		CO2	To enable the students to learn the fundamentals of statistics and practical application of statistics in research
HS830301	Organization and Management Of Dietary	CO1	Understand the processes and details related to effective patient care and to further increase the satisfaction levels of patients.
		CO2	Gain insight of both clinical and non clinical services in a hospital and understand the process of organization and management of dietary.
HS830302	Food Microbiology	CO1	Acquire an elementary knowledge about microorganisms
		CO2	Understand the role of microbes in contamination and spoilage of different foods and measures of controlling microbial growth.
HS840301	Advanced Techniques in Food Preservation	CO1	To understand the different techniques of food preservation.
		CO2	To acquire knowledge about the emerging trends in food preservation.
HS840302	Food Safety and Quality Assurance	CO1	Gain an insight on the importance of food safety in the present scenario
		CO2	Understand the legal procedures adopted in food industry to prevent food borne illnesses
HS030303	Therapeutic Nutrition Practical	CO1	Learn and apply the principles of dietary modifications.
		CO2	Plan and prepare diet for different disease conditions.
SEMESTER 4			
HS030401	Community Nutrition Practicals	CO1	To develop skill in field level application of the techniques of assessing nutritional status.
		CO2	To acquire skill in organizing and implementing community nutrition projects.
HS830403	Hospital Internship	CO1	Understand clinical and pathological conditions of various diseases, planning diet, prescription and dietary intervention for the same
		CO2	Observe and study the food service management practices
HS840403	Industrial Training	CO1	Understand the technology of food processing.
		CO2	Observe and study the food processing practices
HS030402	Project	CO1	To inculcate ability in the area of research

M.A. Politics			
Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
PS010101	Political Theory	CO1	To familiarise them with important approaches, theories, ideologies and concepts that will facilitate an understanding of political issues.
		CO2	To instil in students an appreciation of the significance of theories and concepts in understanding contemporary politics.
PS010102	Western Political Thought: Ancient & Medieval Traditions	CO1	It introduces students to the epistemological foundations of ancient and medieval western philosophy with a view to generating interest in classical texts.
		CO2	To familiarise students with the classics of Western political thought in a spatial and temporal framework.
PS010103	Indian Constitution & Policy	CO1	To familiarise students with the philosophical underpinnings of the Constitution of India and its historical antecedents.
		CO2	It facilitates a critical understanding of the structure, institutions and processes of the Indian political system
PS010104	Theories & concepts of Public Administration	CO1	To offer a theoretical and conceptual understanding of Public Administration.
		CO2	Focusing on the structures and processes of systems of governance, it strives to promote an understanding of the prerequisites for effective and just administration at different levels.
PS010105	Research Methodology in Political Science	CO1	To explore various theories and concepts that are part of research methodology, besides dealing with the practical realm of research.
		CO2	To know the trends in research in Political Science which enables a move away from structured top down views to views from the lower rungs of society.
SEMESTER 2			
PS010201	Political Sociology	CO1	To provide critical insights into the underlying forces that have their impact on political and social change.
		CO2	Aacquainted with the different approaches to the study of political sociology, the social basis of political power and the nature of state and civil society.
PS010202	Western Political Thought: Modern Traditions	CO1	To provide insights into the different traditions of Western political philosophy with a view to understanding various categories of philosophies, theories and ideologies in the modern world

		CO2	To develop their own notions of socio-political issues.
		CO3	The conceptual development of the State and numerous philosophical formulations are an integral part of the study, so as to provide a basic philosophical foundation
PS010203	Issues In Indian Politics	CO1	To provide an understanding of contemporary social and political forces and practices, and their historical underpinnings in India.
		CO2	By providing insights into the institutions, structures and social forces, placed within the broader framework of democratic processes in the country, the paper instills a wider understanding of state-society dynamics.
PS010204	Indian Administration	CO1	To offer insights into various aspects of public administration in India.
		CO2	To familiarizes the different methods of administration and basic administrative structures in India, as well as the various models of grievance redressal mechanisms in the administrative process.
PS010205	Theoretical Foundations of International Relations	CO1	To familiarise the various theoretical traditions in International Relations as they have evolved over the years, providing a brief profile of the state of the art of the discipline.
		CO2	To provide an understanding of some of the key concepts in the realm of International Relations.
		CO3	To develop an appreciation of the significance of theorising international relations and the importance of theories and concepts in understanding the international system.
SEMESTER 3			
PS010301	Human Rights	CO1	To facilitate a critical understanding of the concept of human rights and the different approaches to it
		CO2	To know the international initiatives to protect and promote human rights
		CO3	It focuses on the major issues as well as the institutions and initiatives for the protection of human rights in the specific context of India with the objective of sensitising students to human rights concerns and the mechanisms available for the protection of the same
PS010302	Political Thought: Indian Tradition	CO1	To introduce students to the rudiments of Indian political thought, a tradition that spreads across the colonial context as well as postcolonial conditions in India.
		CO2	To acquire insights useful for understanding contemporary Indian society and politics
		CO3	To comprehend the wide spectrum of Indian traditions in political thought from ancient times.
PS010303	State, Society and Polity in Kerala	CO1	To provide a detailed account of the evolution of socio-political processes, social and political movements, governmental actions, etc. that led to the formation of present day Kerala.

		CO2	It give a comprehensive analysis of Kerala economy, its contemporary challenges and the problems faced by some of the important sections of the state.
PS010304	Comparative Politics	CO1	To introduce the fundamental concepts and principles of comparative politics and also to recognize/appreciate its relevance in the field of political inquiry.
		CO2	It focuses the approaches and theories in comparative politics which in turn highlight the worth of comparison/comparative logic in political studies.
		CO3	To familiarise wide range of existing and emerging issues and processes in comparative politics.
PS010305	Issues in International Politics	CO1	To demonstrate knowledge and understanding of contemporary international politics and will be able to analyse and explain contemporary international phenomena.
		CO2	To think critically and communicate effectively on international politics.
		CO3	To recognize issues of social justice in global contexts and appreciate the rights and responsibilities of global citizenship
SEMESTER 4			
PS010401	Politics of Social Justice in India	CO1	To familiarise the theory and practice of social justice focusing on the case of India
		CO2	To know the issues of social justice of marginalised groups in India.
		CO3	To address the notion of social justice as stipulated in the Constitution of India
		CO4	To inculcate a sense of justice and humane values among students
PS010402	India's Foreign Policy	CO1	To provide insights into the fundamentals of India's foreign policy – the theoretical, institutional and practical underpinnings of foreign policy within the broader historical, regional and international setting.
		CO2	To familiarise the basic principles, objectives, structures and processes of India's foreign policy, together with its engagements with international institutions, regions and nations, as well as some of the major issues and challenges of foreign policy.
PS800401	Environment & Politics	CO1	To provide various theoretical and conceptual insights into issues relating to environment and politics.
		CO2	To familiarise various structures, processes and policies both at national and international levels for the protection of the environment
PS800402	Political Thought: Gandhian Tradition	CO1	To offer insights into Mahatma Gandhi's philosophy dealing with a variety of socio-political questions.
		CO2	To generate interest in understanding the importance of Gandhian thought in contemporary times, focusing on themes such as power, democracy, development, peace and conflict resolution.

PS800403	United Nations:Peace & Global Governance	CO1	To introduce students to the study of global governance by examining the important theories and concepts relating to global governance, and the role of the United Nations in peace and global governance
		CO2	To provide a conceptual framework for an understanding of the United Nations - its historical foundations, politics and processes in the different areas of policy and governance.

M.A. Econometrics			
Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
EM010101	Micro Economic Theory-1	CO1	Have a good conceptual understanding of the key concepts and practical applications of microeconomic principles and theories
		CO2	Develop a critical thinking and synthesis on the various theories related with consumers' behaviour, producers' behaviour and economic behaviour of firms.
		CO3	Apply theoretical frameworks in interpreting micro economic behaviour of various economic agents.
EM010102	Macro Economic Theory-1	CO1	Have a critical understanding of the different macro economic approaches such as Classical, Keynesian, Monetarism, New Classical Macroeconomics, New Keynesian School and the New Classical New Keynesian Synthesis
		CO2	Critically evaluate the usefulness and implications of macroeconomic theories with a view to examining the functioning of the macro economy
		CO3	Apprise the scope and limitations of modelling approach for macroeconomic policy making
EM010103	Statistical Methods for Econometric Analysis	CO1	Examine the behaviour of random variables by analysing the underlying probability distribution in a theoretical manner
		CO2	Evaluate the sampling methods with a view to apply it for analysing the empirical phenomenon and to apply the principles of statistical inference
		CO3	Implement statistical techniques using software packages such as Gretl and R and intuitively interpret the results in plain language
EM010104	Mathematical Methods for Econometric Analysis-1	CO1	Evaluate the underlying mathematical principles, terminology, methods, techniques and conventions used in econometric analysis
		CO2	Provide a firm comprehension upon the essential mathematical tools required for econometric analysis

		CO3	Apply the appropriate techniques to solve problems with differential calculus, matrices and linear algebra and apply them in static and comparative frame work to solve important economic problems.
EM010105	Basic Econometrics	CO1	Represent the theoretical relationships in economics in econometric terms
		CO2	Estimating simple and multiple linear regressions with qualitative and quantitative data
		CO3	Explore with the open source econometric software packages such as Gretl, R to estimate cross section econometric models using real world data
		CO4	Explain and intuitively interpret the econometric results in theoretical and plain language.
SEMESTER 2			
EM010201	Micro Economic Theory-2	CO1	Critically appraise the important theories that analytically explain the behaviour of firms
		CO2	Analytically evaluate the microeconomic aspects of public choice, behavioural economics, general equilibrium and welfare economics.
EM010202	Micro Economic Theory-2	CO1	Examine alternative approaches to modelling consumption behaviour and investment decisions
		CO2	Critically dissect the approaches to the demand for money, the supply of money and the role of financial institutions in the economy.
		CO3	Appraise the various aspects of policy making especially with respect to the fiscal and monetary issues
EM010203	Indian Economy and Fiscal Federalism	CO1	Appraise the strategy of economic planning and to evaluate the growth process and structural changes of Indian economy
		CO2	Formulate applied economic policies for solving economic problems
		CO3	Analyse the economic problems by using various databases and interpret the trend and issues objectively
EM010204	Mathematical Methods for Econometric Analysis-2	CO1	Appreciate the essential concepts and techniques of advanced calculus, difference and differential equations and apply them in comparative static and dynamic frame work to solve important economic problems
		CO2	Develop a clear understanding with respect to the optimization techniques used in economic theory.
EM010205	Univariate Time series Econometrics	CO1	Learn the various theoretical models to critically evaluate the behaviour of univariate time series
		CO2	Learn the various theoretical models to critically evaluate the behaviour of univariate time series
		CO3	Critically comprehend the various methods of estimation of growth rates
		CO4	Use the open source econometric software packages such as Gretl, R to estimate time series econometric models using real world data

		CO5	Interpret the estimates of the time series models and to analyse the results.
EM010206	Term Paper on Econometric Methods		
SEMESTER 3			
EM010301	International Finance and Economics	CO1	Have a thorough understanding of the key concepts, theories and their practical applications on issues of international trade and international finance
		CO2	Understand critically the various trade theories and the results of their empirical testing
		CO3	Analyse the links between trade, international finance, economic growth and globalisation.
		CO4	Critically comment on and participate in current debates on international economic policy.
EM010302	Economics of Growth and Development	CO1	Evaluate critically the theories of economic growth and discuss its implications upon economic development
		CO2	Appraise the recent literature, both analytical and empirical, on theories of underdevelopment and growth in developing countries
		CO3	Understand the conceptual routes, theoretical dynamics and practical strategies of growth and development
EM010303	Public Finance and Public Choice	CO1	Discuss critically the theoretical issues of provision of public goods
		CO2	Evaluate the theoretical developments with respect to collective choice with a view to appreciate the process of decision making by the public sector
		CO3	Appraise the theories of public expenditure and taxation to critically comprehend the role of public sector in a market economy
		CO4	Critically discuss the theoretical contributions in fiscal federalism and to examine its practice in the context of Indian economy
EM010304	Multivariate Time Series Econometrics	CO1	Learn the various theoretical models to critically evaluate the behavior of multivariate time series
		CO2	Apply the theoretical models to the empirical data with a view to estimating the parameters
		CO3	Use the open source econometric software packages such as Gretl, R to estimate time series econometric models using real world data
		CO4	Interpret the estimates of the time series models and to analyse the results.
EM010305	Econometrics of Limited Dependent Variable	CO1	Critically understand the various econometric models in which the dependent variables are either qualitative or limited in their range
		CO2	Apply the theoretical models to the empirical data with a view to estimating the parameters

		CO3	Use the open source econometric software packages such as Gretl, R to estimate various limited dependent variable models using real world data
		CO4	Analyse the results and interpret the estimates of the limited dependent variable models both in theoretical and plain language.
EM010306	Internship Report on Econometric Issues		
SEMESTER 4			
EM010401	Environmental and Ecological Economics	CO1	Critically comprehend the economic problems and ecological considerations with respect to the utilisation of resources, climate change, environmental policies
		CO2	Provide more insights about environmental valuation and environment protection movements
		CO3	Familiarize with the practices of global environmental governance and treaties
		CO4	Address the environmental problems and issues with a view to finding practical solutions with a firm grounding in the theoretical developments in environmental and ecological economics.
EM010402	Kerala Economy with Database	CO1	Dissect the Kerala's development experiences from a historical perspective.
		CO2	Critically understand the problems, performance, prospects and of the Kerala economy.
		CO3	Evaluate the structural changes and sectoral issues of Kerala economy.
		CO4	Comprehend critically the fiscal and decentralisation issues of Kerala Economy
		CO5	Familiarise the various databases on Kerala economy and use them for analysing the problems of the state economy

Course Code	Course Title	Course Outcomes (CO)	
SEMESTER 1			
EN010101	Up Until Chaucer: Early Literatures in English	CO1	To provide knowledge of the growth of English Language and Literature upto the age of Chaucer.
		CO2	To know about the Literature of Anglo- Saxons written over a thousand years ago.
		CO3	To standardise the creative consolidation initiated by Chaucer and his peers.
EN010102	Literature of the English Renaissance	CO1	Provides an introduction to the literature of the English Renaissance studied in a variety of historical context.
		CO2	Discusses how the confluence of social, political and economic forces culminated in conditions conducive to the creation of an impressive volume of literature.
		CO3	Highlights how literary luminaries like William Shakespeare and Christopher Marlowe emerged and influenced each other leaving their mark on their own time and the time to come.
		CO4	Enables the students to imbibe the true spirit of Renaissance and Humanism making them capable of identifying the relationship between Renaissance writings and its socio-political context.
EN010103	Literature of the English Revolution/ Enlightenment	CO1	Familiarises the learner with the English literary texts which reflects the austere Puritan ideals of the late seventeenth century.
		CO2	The Neoclassical vigour of the eighteenth century considerably influenced by the philosophy of Enlightenment.
		CO3	The learners are familiarised with Ian Watt's perspective on the inception of the new genre, novel in England.
EN010104	Nineteenth Century English Literatures	CO1	It aims to familiarise the students with the fundamental premises of the Romantic Movement and Victorian literature, their theoretical and ideological frameworks and the major trends and offshoots across various genres.
		CO2	It marks the shift to the Victorian Sensibility with increased attention being paid to the decline of Romantic sensibility.
EN010105	Literary Criticism	CO1	To familiarise the students with the key concepts and texts of literary criticism ever since its emergence and to provide theoretical familiarity with the range, approaches and mechanic of critique.
		CO2	Helps the students to recognise the historical, political and aesthetic dimensions of the growth of literary criticism.
		CO3	Concepts being discussed include classical western criticism from Plato, Aristotle, Horace and Longinus, English Renaissance and Neoclassical Criticism, the 18 th century trends, the romantic revolt, Psychoanalysis,

			Archetypal Criticism, Russian Formalism and Reader Response Theories.
		SEMESTER 2	
EN010201	Modernity and Modernisms	CO1	To familiarise the students with the literary trends of the early twentieth century in the context of the sensibility of literary modernism in the wake of the World War.
		CO2	Introduces the changed literary perspectives in the twentieth century along with the social, economical and political background.
		CO3	The discussion includes movements like the AvandeGarde, The Pink Decade and the soforth.
EN010202	Postmodernism and Beyond	CO1	Aims to acquaint the learners with the postmodern works of literature which defy categorisation and prove to be experimental in nature, subverting what is conventionally revered as the norm.
		CO1	The learners are to be familiarised with the eclectic dimensions of the postmodern thought as reflected in the literary works where the boundaries that demarcate the different genres are often blurred.
		CO3	The emphasis is given on acknowledging the heterogeneity of thought and articulation.
EN010203	American Literatures	CO1	Introduces the students to the most important branch of English Literature belonging to the non-British Tradition.
		CO2	To acquaint the students with some of the major conflicts, struggles and movements that are closely connected with the experiences of a group of people struggling to establish themselves as a nation.
EN010204	English Language History and Contemporary Linguistics	CO1	To inculcate in the students awareness about the basic concepts of linguistics, the scientific study of language after initiating them into the history of English Language.
		CO2	The students are updated on the most recent advances in the theory of language study.
		CO3	Introduces the historical perspectives of English Language and prepares the students with modern notions and concerns in the field of linguistics. .
EN010205	Thinking Theory	CO1	Aims at introducing students to certain core aspects of literary theory.
		CO2	Provide exposure to select current developments in this domain.
		SEMESTER 3	
EN010301	Reading India	CO1	The course is intended to provide an insight to the historical, cultural and literary heritage of India by acquainting the students with major movements and figures of Indian literature in English.
		CO2	Explores the origin and growth of Indian writing in English especially in the postcolonial context.

		CO3	A close study of select literary text including translations of regional literatures is expected to acquaint the students with the cultural diversity of the country as well as the Indian philosophy reflected in these writings.
EN010302	Postcolonial Fiction	CO1	Introduce the students with the discursive nature of colonialism and the counter –discursive impulses of postcolonial theory, narratives and texts.
		CO2	The course also addresses internal colonisations of diverse colonisations.
EN010303	Body, Text and Performance	CO1	Facilitating an understanding of the basic structural, thematic and theoretical patterns which govern the poetic process, especially in its relation to the performative or the theoretical.
		CO2	Drama, Theatre, Body, Performance, and Performativity are analysed in detail.
		CO3	Cinematic medium as well as performance patterns like dance, performance in the form of gender/transgender/autobiography are seriously considered within the gamut of this paper.
EN010304	Literature and Gender	CO1	Seeks to highlight the historic, thematic and cultural concerns that literature attempts against the backdrop of gender issues.
		CO2	A theoretical framework is provided whereby gender issues are examined, paying special attention to the fundamental political, religious and social issues that shape gender relations.
		CO3	Views gender as fluid rather than a mere fixed hetero-normative Male-Female Concept.
EN010305	Ethics in/as Literature	CO1	Familiarises students with certain ‘ethics’ that narrative fiction has adopted across centuries, continents and languages.
		CO2	Introduces the various ethical, formal choices that schools, influences and narrative devices are shaped so as to shape narrative fiction into its present expressive plurality.
SEMESTER 4			
EN010401	Cultural Studies	CO1	To introduce students to certain interpretive strategies commonly employed in Cultural Studies.
		CO2	Emphasis is on overt interdisciplinary approaches to exploring how cultural processes and artifacts are produced, shaped, distributed, consumed and responded to in diverse ways.
EN010402	Postcolonial Poetry	CO1	To introduce the students to the diversity of poetry coming from the erstwhile colonies of European Colonial Empires.
		CO2	To clear the ground from where the student can see how, beyond the general discursive constellation, there are regional specifics that ‘in a hybrid mode’ negotiate the

EN820401	Modern European Fiction (Elective Course)		issues of sovereignty, language,race,gender,identity and place.
		CO1	To familiarise the students with the evolution of European Fiction over the latter half of the nineteenth century and early twentieth century.
EN820402	Modern European Drama (Elective Course)	CO2	To acquaint the students with some of the major movements that shaped the growth of the European Novel and the makers of European Fiction and to familiarise them with the writings of major novelists belonging to France, Germany, Russia, Greece and Italy.
		CO1	To familiarise the students with modern European Drama in terms of topics, perspectives and dramatic literature.
EN820403	Indian Poetics: Theories and Texts (Elective Course)	CO2	The student is acquainted with how the diversified movements in post-modernist theatre are informed by the theatre’s increasing propensity to selfconsciousness.
		CO1	To familiarise the students with the major texts of the Indian tradition in the light of Indian poetic principles.
		CO2	The eight major schools of Indian aesthetics and the two cardinal schools viz. Rasa and Dhvani are discussed in detail.
		CO3	The students are made familiar with the strong geopolitics behind Tamil Poetics.