

**UG PROGRAMMES
COURSE OUTCOME (CO)**

COMMON COURSES



ENGLISH MODEL I

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	EN1CCT01	Fine Tune Your English	CO1	Use English accurately in both written and spoken forms.
			CO2	Identify the common errors in English usage.
			CO3	Practice English for formal communication effectively.
Semester I	EN1CCT02	Pearls from the Deep	CO1	Discover time tested fictional works.
			CO2	Critique the aesthetic and structural elements of short stories and one act plays.
			CO3	Assess the extent to which poetry mirrors life.
Semester II	EN2CCT03	Issues that matter	CO1	Identify the major issues related to war, dissention and refugeeism.
			CO2	Act rationally to concerns regarding culture and identity.
			CO3	Develop a sustainable consciousness towards environment.
Semester II	EN2CCT04	Savouring the Classics	CO1	Appreciate literature through the study of classic poems and short stories.
			CO2	Understand the features that go into the making of classic drama.
			CO3	Estimate the influence of classic novels on today's literature.
Semester III	EN3CCT05	Literature and/as identity	CO1	Distinguish the subtle negotiations of indigenous and diasporic identities within Literature.
			CO2	Examine the fissures, the tensions and interstices present in South Asian regional identities.
			CO3	Discover the emergence of life writing within alternate/ marginal identities.
Semester IV	EN4CCT06	Illuminations	CO1	Review the ability of life sketches to inspire optimism.
			CO2	Estimate the life lessons implied in motivational essays and speeches.
			CO3	Analyse the extent to which classic short stories and poems influence human minds.

ENGLISH MODEL II

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	EN1CCT01	Fine Tune Your English	CO1	Use English accurately in both written and spoken forms.
			CO2	Identify the common errors in English usage.
			CO3	Practice English for formal communication effectively.
Semester II	EN2CCT03	Issues that Matter	CO1	Identify the major issues related to war, dissention and refugeeism.
			CO2	Act rationally to concerns regarding culture and identity.
			CO3	Develop a sustainable consciousness towards environment.
Semester III	EN3CCT05	Literature and/as identity	CO1	Distinguish the subtle negotiations of indigenous and diasporic identities within Literature.
			CO2	Examine the fissures, the tensions and interstices present in South Asian regional identities.
			CO3	Discover the emergence of life writing within alternate/ marginal identities.
Semester IV	EN4CCT06	Illuminations	CO1	Review the ability of life sketches to inspire optimism.
			CO2	Estimate the life lessons implied in motivational essays and speeches.
			CO3	Analyse the extent to which classic short stories and poems influence human minds.

ENGLISH B. Com.

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	EN1CCT01	Fine Tune Your English	CO1	Use English accurately in both written and spoken forms.
			CO2	Identify the common errors in English usage.
			CO3	Practice English for formal communication effectively.

Semester II	EN2CCT03	Issues that matter	CO1	Identify the major issues related to war, dissention and refugeeism.
			CO2	Act rationally to concerns regarding culture and identity.
			CO3	Develop a sustainable consciousness towards environment.
Semester III	EN3CCT07	Gems of imagination	CO1	Discover time tested fictional works.
			CO2	Critique the aesthetic and structural elements of short stories and one act plays.
			CO3	Assess the extent to which poetry mirrors life.
Semester IV	EN4CCT08	Revising the classics	CO1	Develop love for literature through the study of classic poems and short stories.
			CO2	Understand the features that go into the making of classic drama.
			CO3	Estimate the influence of classic novels on today's literature.

MALAYALAM MODEL I

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	ML1CCT01	Kadhasahithyam	CO1	Understand the post-modern Malayalam Short stories and their portrayal of social issues.
			CO2	Analyze the evolving of Malayalam story and novel through the ages.
			CO3	Develop reading and writing skills.
			CO4	Appreciate the unique writing styles of popular Malayalam writers.
			CO5	Critically analyze Malayalam Short stories
Semester II	ML2CCT02	Kavitha	CO1	Analyze the impact of culture and different eras in the poetry
			CO2	Appraise popular poets and their works based on cultural background.
			CO3	Appreciate the aesthetics of Malayalam poems.
			CO4	Identify varied poetic styles and expressions
			CO5	Understand the use of language in poetic expressions

Semester III	ML3CCT03	Dridhyakala Sahithyam	CO1	Appreciate the varied visual arts existing in Kerala.
			CO2	Assess the features of cinema and varied aspects of this art.
			CO3	Critically analyze of the Classical and Popular art forms
			CO4	Familiarize with the varied trends in theatre and its social relevance
			CO5	Understand the history and features of varied folk dances in Kerala
Semester IV	ML4CCT04	Malayala Gadhayrach anakal	CO1	Appreciate contemporary Malayalam prose literature
			CO2	Use the Malayalam language expressively
			CO3	Fine tune reading and writing skills
			CO4	Familiarize with popular Malayalam writers and their literary works
			CO5	Realize the history of Malayalam short story

MALAYALAM MODEL II

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	ML1CCT09	Katha Kavitha	CO1	Understand the basic aspects of Malayalam short stories and poems.
			CO2	Familiarize with contemporary poets, their poetic style and vision about the society, culture & nation.
			CO3	Realize the impact of time and space in Malayalam literature
			CO4	Understand the social and political reality behind modernity that exists today.
			CO1	Understand the basic aspects of Malayalam short stories and poems.
Semester II	ML2CCT10	Gadhyapari chayam	CO1	Appreciate the aesthetics in Malayalam prose.
			CO2	Develop language skills to express ideas effectively.
			CO3	Express reading and writing skills in Malayalam.
			CO4	Appraise writers and their literary contributions.

MALAYALAM B. Com.

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	ML1CCT05	Kathayaum Kavithayum	CO1	Understand the post-modern Malayalam Short stories and their portrayal of social issues.
			CO2	Analyze the evolving of Malayalam story and novel through the ages.
			CO3	Develop reading and writing skills.
			CO4	Appreciate the unique writing styles of popular Malayalam writers.
			CO5	Critically analyze Malayalam Short stories
Semester II	ML2CCT06	Athmakadh, Lekhanam	CO1	Appreciate the aesthetics in Malayalam prose.
			CO2	Develop language skills to express ideas effectively.
			CO3	Express reading and writing skills in Malayalam.
			CO4	Appraise writers and their literary contributions.

HINDI MODEL I

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	HN1CCT01	Prose and One act plays	CO1	Identify various forms of Hindi literature.
			CO2	Understand the culture diversity and social responsibility.
			CO3	Appreciate the art of drama.
			CO4	Develop human values through character study
Semester II	HN2CCT01	Short stories and novels	CO1	Compare prose forms of Hindi literature.
			CO2	Analyse the literary aspects of short stories and novel.
			CO3	Identify the moral values in modern literature.
			CO4	Develop communication skills in Hindi Language.
Semester III	HN3CCT01	Poetry, Grammar	CO1	Understand various kinds of poetry.
			CO2	Apply grammar in practical situations.

		and Translation	CO3	Develop communicative skills.
			CO4	Practice the skill of translation.
Semester IV	HN4CCT01	Drama and long poem	CO1	Understand the features of drama and long poem.
			CO2	Examine the historical importance of the play.
			CO3	Identify the rural culture and customs in the poem.
			CO4	Develop language skills.

HINDI MODEL II

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	HN1CCT04	Poetry and One act play	CO1	Recall/ Identify poetry and one act play
			CO2	Develop creative skills in Poetry writing
			CO3	Create awareness regarding culture and social responsibility
			CO4	Recognise great writers and their outlook
Semester II	HN2CCT02	Prose and Short stories	CO1	Understand various prose forms.
			CO2	Develop creativity in article writing
			CO3	Understand society in various aspects
			CO4	Recognise eminent writers in the field of short stories.

HINDI B.Com.

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	HN1CCT02	Prose and Mass Media	CO1	Understand various forms of literature.
			CO2	Develop social and cultural consciousness.
			CO3	Relevance of mass media in society.
			CO4	Understanding relationship of mass media in literature
Semester II	HN2CCT04	Poetry, Commercial Correspondence and Translation	CO1	Familiarize with poetry.
			CO2	Relevance of translation in modern period.
			CO3	Introducing with official correspondence in Hindi.
			CO4	Develop language skills.



OPEN COURSES

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester V	EC5OPT01	Fundamentals of economics	CO1	Understand basic ideas and concepts in economics.
			CO2	Interpret basic concepts of public economics.
			CO3	Understand financial system in international trade.
			CO4	Study the Indian economic development in various perspectives.
Semester V	PHYOPT02	Physics in Daily life	CO1	Understand the concept of errors, fundamental and derived quantities.
			CO2	Explain the different phenomenon of light and its application
			CO3	Enumerate the concepts and laws of linear and rotational motion
			CO4	Illustrate the concepts of matter, energy, waves and power generation technologies
			CO5	Outline the general features of universe and satellites
Semester V	PE5OPT01	Physical Health and Life Skill Education	CO1	Recognize the importance of Physical fitness and create awareness about the scientific principles of physical education
			CO2	Understand the basic concepts of health and wellness, nutrition and effects of exercise on body systems
			CO3	Identify healthy lifestyle, common injuries, first aid measures, and yoga
			CO4	Understand the various International and national level sports events and Impart knowledge about various sports and games activities and their influence in the society
Semester V	ZY5OPT01	Vocational Zoology	CO1	Understand the importance of balanced ecosystem
			CO2	Emphasize the scope of ornamental fish culture and successful entrepreneurship in ornamental fish trade
			CO3	To acquire basic knowledge and skills in commercial Quail farming and to analyse the role of Quail in health sector
			CO4	Awareness about need for waste management and organic farming

			CO5	Illustrate maintenance and management of an apiary and to understand their role in nutritional security and environmental sustainability.
Semester V	CO5OP03	Fundamentals of Accounting	CO1	Explain the theory base of accounting.
			CO2	Prepare journal and record transactions in the books of original entry.
			CO3	Compute the various ledger accounts.
			CO4	Calculate arithmetical accuracy by preparation of trial balance.
			CO5	Prepare the financial statement.
Semester V	CH5OPT01	Chemistry in everyday life	CO1	Analyse the formulation and health effects of food additives
			CO2	Compare soaps and detergents
			CO3	Realize the uses and toxicology of cosmetics
			CO4	Explain the concepts related to the structure, applications and environmental impact of plastics, paper and dyes
			CO5	Discuss the classification of drugs, and propose prevention and treatment of drug addiction
			CO6	Familiarize the importance of Chemistry in Agriculture
			CO7	Provide elementary idea on Nano-chemistry and its applications
Semester V	HS5OPT01	Interior Decoration and Related Arts	CO1	Identify the sources, importance and need of interior decoration.
			CO2	Explain the basic elements and principles of interior decoration.
			CO3	Apply the principles of colour and light in interiors.
			CO4	Discuss the types, selection, arrangement and uses of furniture and furnishings.
			CO5	Assess the role of accessories and indoor gardening in interiors.

COMPLEMENTARY COURSE



FOR MODEL II PHYSICS AND CHEMISTRY

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	MM1CMT01	Partial differentiation matrices trigonometry and numerical methods	CO1	Enhances the idea of partial derivatives.
			CO2	Solving system of linear equations and its applications.
			CO3	Application of binomial theorem in trigonometry.
			CO4	Familiarize different methods in numerical analysis.
Semester II	MM2CMT01	Integral calculus and differential equations	CO1	Acquire the idea of integrals and application of integrals in finding volumes and areas.
			CO2	Familiarize with multiple integrals and its applications.
			CO3	Solve ordinary differential equations.
			CO4	Solve partial differential equations using different methods.
Semester III	MM3CMT01	Vector calculus analytic geometry and abstract algebra	CO1	Application of directional derivatives.
			CO2	Evaluate Greens theorem, Stokes theorem and its applications.
			CO3	Understand conic sections.
			CO4	Acquire basic knowledge in abstract algebra
Semester IV	MM4CMT01	Fourier series Laplace transform and complex analysis	CO1	Analyse periodic functions and apply power series to solve differential equation.
			CO2	Familiarize Laplace transforms.
			CO3	Acquire knowledge of elementary functions and complex integration in complex analysis
			CO4	Application of complex integration

FOR B. Voc. APPLIED ACCOUNTING AND TAXATION

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	AATG103		CO1	Familiarize sets.
			CO2	Solving sequence related problems.

		Business Mathematics	CO3	Application of various concepts of algebra.
			CO4	Familiarize matrices.
			CO5	Solving system of linear equations using matrices.

FOR B.A. ECONOMICS

Semester I	HY1CMT02	Social Formations in pre - modern India (History)	CO1	Understand the formation of state in ancient India.
			CO2	Evaluate the administrative features of early empires in India.
			CO3	Analyze the changing production and relations.
			CO4	Understand the features of Indian feudalism.
			CO5	Evaluate socio economic, political and cultural transformations of different phases in Indian History.
Semester II	HY2CMT03	Transition to the Contemporary World (History)	CO1	Understand the ideas about the transition that the world had experienced over the years.
			CO2	Identify trails and turbulences.
			CO3	Analyze the problems of present day developments.
Semester III	SO3CMT01	Introduction to Sociology	CO1	Acquaint the origin and scope of sociology.
			CO2	Identify the basic concepts in sociology.
			CO3	Understand the historical background and development of sociology in India.
			CO4	Analyze the different sociological perspectives.
			CO5	Recognise how individuals fit in the society.
Semester IV	SO4CMT02	Development of Sociological Theories	CO1	Familiarize development of sociology as a theoretical discipline.
			CO2	Comprehend the historical background of sociological theories.
			CO3	Recognise the classical sociological theorists and their contributions to sociology.
			CO4	Analyse the major classical theories in sociology.

FOR B.Sc. FAMILY AND COMMUNITY SCIENCE

Semester I	ZY1CMT01	Non-Chordate Diversity	CO1	To familiarize taxa level identification of Kingdom Protista and their role in human health
			CO2	To instill curiosity on phylum Porifera and coelenterate
			CO3	Understand different levels of Helminth and Annelid biodiversity and their significance in human life
			CO4	Familiarize taxa level identification of Phylum Arthropoda
			CO5	To create an awareness on diversity of phylum Mollusca and Echinodermata
Semester II	ZY2CMT02	Chordate Diversity	CO1	Acquire in depth knowledge on the diversity of Protochordates
			CO2	Understand different levels of biological diversity of Agnatha and Super class Pisces
			CO3	To create awareness on physiology and diversity of Amphibia
			CO4	To create appreciation on reptilian and Avian biodiversity
			CO5	Acquire in depth knowledge on Mammalian biodiversity
Semester III	ZY3CMT03.	Physiology and Immunology	CO1	To acquire knowledge in physiology of nutrition, respiration and circulation to develop critical societal goal of health literacy
			CO2	Acquire various aspects of regulation, control and co-ordination of physiological activities of human beings
			CO3	Analyse hormonal regulation of physiological processes
			CO4	To gain knowledge about the structure and functions of immune-bodies and their reactions
			CO5	To understand various immune mechanisms, role of immune cells and organs; To acquire knowledge about preventing common diseases rather than curing.

Semester IV	ZY4CMT04	Applied Zoology	CO1	Understand the scope and successful entrepreneurship in aquaculture
			CO2	Understand importance of balanced ecosystem and the successful entrepreneurship in ornamental fish trade
			CO3	Maintenance and management of silkworms and to understand the scope of silk trade
			CO4	Awareness about need for waste management and organic farming
			CO5	Illustrate maintenance and management of an apiary and to understand their role in nutritional security and environmental sustainability.
Semester I	ZY1CMT01	Non-Chordate Diversity	PRACTICAL	
			CO1	Understand the relative size, shape and location of different features of what is being drawn
			CO2	Understand the different levels of biological diversity
			CO3	To understand the systemic classification
			CO4	To identify the organisms through sections
			CO5	To develop skill in dissections and mountings
Semester II	ZY2CMT02	Chordate Diversity	CO1	Understand the different levels of biological diversity
			CO2	To understand the systemic classification
			CO3	To identify the organisms through Osteology
			CO4	To develop skill in taxonomic identification using the key
			CO5	To develop skill in dissections and mountings
Semester III	ZY3CMT03	Physiology and Immunology	CO1	Understand the components of body fluids
			CO2	Understand the reactions of components
			CO3	To Identify human blood groups and Rh factor
			CO4	To Estimate Haemoglobin of the blood
			CO5	Understand the functions, working and uses of instruments
Semester IV	ZY4CMT04	Applied Zoology	CO1	Gain deep knowledge in identification morphology and Economic importance of culturable fishes

			CO2	Develop skill to the species level identification of Earth worms
			CO3	To identify different species and castes of honey bees
			CO4	Understand the principle, procedure and uses of equipments used in culture
			CO5	Understand the natural resources available from animals

**FOR B. Sc. FAMILY AND COMMUNITY SCIENCE AND B. Sc.
ZOOLOGY**

Semester I	CH1CMT01	Basic Theoretical and Analytical Chemistry	CO1	Study various atom models
			CO2	Develop fundamental concepts in chemistry
			CO3	Study the basic principles of analytical chemistry
			CO4	Learn the principles of chromatographic techniques
Semester II	CH2CMT02	Basic Organic Chemistry	CO1	Learn Fundamental Concepts of Organic Chemistry
			CO2	Study the Mechanisms of Organic Reactions
			CO3	Understand the Stereochemistry of Organic Compounds
			CO4	Get an introductory idea about Natural and Synthetic Polymers
Semester I and II	CH2CMP01	Volumetric Analysis	PRACTICALS	
			CO1	Develop skills for the quantitative estimation using different types of titrations
			CO2	Prepare different standard solutions
			CO3	Prepare solutions of different concentrations from a standard solution
Semester III	CH3CMT04	Inorganic And Organic Chemistry	CO1	Differentiate between natural and artificial radioactivity
			CO2	Learn the basics of bioinorganic chemistry
			CO3	Study the structure and aromaticity of heterocyclic compounds
			CO4	Understand various food additives and its health effects
Semester IV	CH4CMT06	Advanced Bio-Organic Chemistry	CO1	Get an introductory idea about lipids and its classifications
			CO2	Understand the structure elucidation and uses of natural products

			CO3	Recognize the structure and biological functions of vitamins, steroids and hormones
			CO4	Interpret the classification and characteristics of amino acids, nucleic acids and enzymes
Semester III and IV	CH4CMP03	Organic Chemistry Practical	PRACTICALS	
			CO1	Study the methods for the determination of physical constants such as boiling point and melting point
			CO2	Develop skills for the systematic analysis of organic compounds
			CO3	Learn to prepare derivatives of organic compounds
Semester V and VI	CH6PRP01	Project, Industrial visit and comprehensive viva-voce	CO1	Familiarize with the research methodology
			CO2	Develop as independent thinkers who are responsible for their own learning in the field of chemistry.
			CO3	Acquire skills required to pursue their career in research and development in the chemistry.
Semester V and VI	CH6OJP01	OJT	CO1	Explore career opportunities suited for chemistry graduates.
			CO2	Integrate theory and practice
			CO3	Learn the laboratory skills and safety measures to transfer and interpret knowledge entirely in the working environment
			CO4	Got exposures of a breadth of experimental techniques using modern instrumentation in the field of chemistry.

B. A. ECONOMICS



SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	EC1CRT01	Perspectives and Methodology of Economics	CO1	Understand the broad contours of Social Sciences.
			CO2	Understand Economics and its methodologies.
			CO3	Create an enthusiasm among students about different schools of economic thoughts.
			CO4	Understand the various aspects of social science research, methodology, concepts and tools.
Semester II	EC2CRT02	Micro Economic Analysis I	CO1	Acquire fundamentals of microeconomics.
			CO2	Perceive supply and demand and the basic forces that determine equilibrium in a market economy.
			CO3	Understand the foundation for economic analysis and problem solving.
			CO4	Get introduced to the framework for learning about consumer behaviour and analyzing consumer decisions.
			CO5	Study about firms and their decisions about Optimal production
			CO6	Solve basic microeconomic problems.
			CO7	Understand the use of microeconomic techniques to the policy formulation and operation of real economy.
Semester III	EC3CRT03	Micro Economic Analysis II	CO1	Develop skills enabling them to understand economic concepts and use those concepts to analyses specific questions.
			CO2	Understand consumer and firms behavior and to analyse different types of market structure.
			CO3	Analyses the behavior of firms in a monopoly or oligopoly and calculates the resulting changes in producer or consumer surplus
			CO4	Understand the use of economic tools to analyse economic policies.
			CO1	Understand the basic concepts of Growth and Development.

Semester III	EC3CRT04	Economics of Growth and Development	CO2	Analyse the various approaches of economic growth.
			CO3	Understand the indicators of economic growth and development.
			CO4	Understand the major economic problems like poverty, unemployment and inequality.
			CO5	Analyse the role of education and health in economic development.
Semester IV	EC4CRT05	Macro Economics Analysis I	CO1	Interpret the meaning, scope and nature of macroeconomics.
			CO2	Understand the various concepts of national income accounting.
			CO3	Analyse the classical model of employment and output determination.
			CO4	Analyse the Keynesian model of macroeconomic equilibrium.
			CO5	Study the functioning of an economy using the IS-LM model.
Semester IV	EC4CRT06	Public Economics	CO1	Analyse the impact of public policy on the allocation of resources and distribution of income in the economy.
			CO2	Evaluate the various activities of state in economic affairs.
			CO3	Understand the scope and importance of public finance.
			CO4	Analyse centre and state finance commissions.
			CO5	Understand the working of the local self-government.
Semester V	EC5CRT07	Quantitative Techniques	CO1	Familiarize the basic mathematics for economic analysis.
			CO2	Study the economic theory including micro economic theory, macro economic theory, statistics and econometrics within the praxis of mathematics.
			CO3	Analyse the application of mathematical and statistical tools in the realm of economic theories.
			CO4	Acquire proficiency in the subject econometrics with ease.
			CO1	Understand consumption and investment function.

Semester V	EC5CRT08	Macro Economics II	CO2	Interpret various concepts related with money.
			CO3	Understand various concepts and theories related with inflation.
			CO4	Analyse the monetary and fiscal policy in the context of IS-LM Framework.
			CO5	Understand post Keynesian school of macroeconomic thought.
Semester V	EC5OPT01	Fundamentals of Economics	CO1	Understand basic ideas and concepts in economics.
			CO2	Interpret basic concepts of public economics.
			CO3	Understand financial system in international trade.
			CO4	Study the Indian economic development in various perspectives.
Semester V	EC5CRT09	Environmental Economics	CO1	Understand the meaning and scope of Environmental economics.
			CO2	Understand the need for sustainable development.
			CO3	Analyse the basic issues of environment like Global Warming, depletion of ozone layer and loss of bio-diversity etc.
			CO4	Evaluate some environmental policies.
			CO5	Analyse the concept of human rights.
Semester V	EC5CRT10	Introductory Econometrics	CO1	Familiarize the fundamental concepts of econometrics as a discipline.
			CO2	Understand the fitting of econometric model of economic theories.
			CO3	Critical analysis of economic problems using econometric methodology.
			CO4	Apply the basic ideas of estimation and hypothesis testing.
Semester VI	EC6CRT11	Quantitative Methods	CO1	Develop statistical skills to collect, analyse and interpret empirical data.
			CO2	Apply the statistical methods and tools which are essential for the study of economics at the undergraduate level.
			CO3	Carry out their project work with ease.
			CO4	Understand the quantitative and qualitative aspects regarding research and economic analysis

Semester VI	EC6CRT12	International Economics	CO1	Understand the basic principles that govern international trade.
			CO2	Understand the concepts like balance of payments and foreign exchange.
			CO3	Understand the flow of trade in goods, services, resources and technology at a global level.
			CO4	To study the international financial institutions.
Semester VI	EC6CBT02	Business Economics	CO1	Understand scope and methods of business economics.
			CO2	Analyse the role of managerial decision making in business economics.
			CO3	Understand how analytical tools of micro and macroeconomics are applied for solving many practical business problems.
			CO4	Understand the business economics on the basis of economic concepts like scarcity, resource allocation, choice etc.
Semester VI	EC6CBT13	Money and Financial Markets	CO1	Understand the financial market institutions, regulators and instruments.
			CO2	Study the developments related to the working of financial markets.
			CO3	Analyse various financial market segments and money market segments.
			CO4	Understand various concepts related with financial markets.
Semester VI	EC6CRT14	Indian Economy	CO1	Understand the economic development strategy before and after economic reforms.
			CO2	Familiarise with the demographic features and its impact on economic development.
			CO3	Analyse the role of agriculture, industry and service sector in the Indian economy.
			CO4	Identify the rationale of economic planning and the various development issues.
			CO4	Understand the features of Indian feudalism.
CO5	Evaluate socio economic, political and cultural transformations of different phases in Indian History.			
Semester VI	EC6PR01	Project	CO1	Inculcate the spirit of research aptitude in students.

			CO2	Motivate to explore theories and praxis in Economics.
			CO3	Enable them to apply their subject knowledge in socio-economic scenario and thereby propounding solutions.

B. A. ENGLISH LANGUAGE AND LITERATURE



SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	EN1CRT01	Methodology of Literary Studies	CO1	Distinguish literature as a specific discipline within the humanities
			CO2	Classify the tenets of traditional approaches and also that of formalism
			CO3	Describe the shift towards contextual-political critiques of literary studies
			CO4	Identify the questions raised by Cultural Studies and Feminism
			CO5	Explain the issues of subalternity and regionality in the literary domain.
Semester I	HY1CMT01	Roots of the Modern World	CO1	Understand the history of the world with special reference to Asian societies, movements, wars, revolutions etc.
Semester I	EN1CCT01	Fine Tune Your English	CO1	Use English in both written and spoken forms.
			CO2	Practice English for formal communication effectively
Semester I	EN1CCT02	Pearls from the Deep	CO1	Discover and enjoy works of literature
			CO2	Estimate the aesthetic and structural elements of literature
Semester II	EN2CRT02	Introducing Language and Literature	CO1	Interpret the evolution and the differential traits of the English language till the present time.
			CO2	Analyze the emergence of British and American Literature through diverse periods.
			CO3	Sketch the evolution of literature from antiquity to postmodern times
			CO4	Recognize the diversity of genres and techniques of representation and narration
			CO5	Identify the links between literature and film as narrative expressions
Semester II	EN2CCT03	Issues that Matter	CO1	Identify major issues of contemporary significance
			CO2	Respond rationally and positively to the issues raised
			CO3	Intergrate the values imparted through the excerpts

			CO4	Reframe himself/ herself as conscious, cautious, concerned human being and articulate these values in error free English.
Semester II	EN2CRT04	Savouring the Classics	CO1	Familiarise with the classics from various lands
			CO2	Understand the features that go into the making of a classic
Semester III	EN3CRT03	Harmony of Prose	CO1	Discover various prose styles of expression.
			CO2	Practice eloquent expressions, brevity and aptness of voicing ideas in stylish language.
Semester III	EN3CRT04	Symphony of Verse	CO1	Understand the representation of poetry in various periods of the English tradition
			CO2	Recall the emerging cultural and aesthetic expressions of poetry.
Semester III	EN3CMT03	The Evolution of Literary Movements: The Shapers of Destiny	CO1	Produce a comprehensive overview of the History of Britain and its impact upon the rest of the world
			CO2	Interpret English literature in the light of historical events
			CO3	Analyze the manner in which a person is molded by the historical events of his personal and communal life
Semester III	EN3CC05	Literature and/as Identity	CO1	Distinguish the subtle negotiations of Indigenous and Diasporic identities within Literature
			CO2	Examine the fissures, the tensions and interstices present in South Asian regional identities
			CO3	Point out the emergence of Life writing and alternate/ alternative/ marginal identities.
Semester IV	EN4CRT05	Modes of Fiction	CO1	Categorize British and non- British short fiction, and also the novel as a form of literary expression.
Semester IV	EN4CRT06	Language and Linguistics	CO1	Show the various organs and processes involved in the production of speech, the types and typology of speech sounds, segmental & suprasegmental features of the English language, and transcription using IPA.
			CO2	Describe and explain morphological processes and phenomena.

			CO3	Recognise the various processes involved in the generation of meaning.
			CO4	Appraise the students' awareness that natural language is structure dependent and generative and to develop their ability to observe, describe and explain grammatical processes and phenomena.
Semester IV	EN4CMT04	The Evolution of Literary Movements: The Cross Currents of Change	CO1	Understand literature against the backdrop of history.
			CO2	Interpret the various historical and literary movements.
Semester IV	EN4CCT06	Illuminations	CO1	Understand and get motivated by inspiring life sketches, essays, speeches, short stories and poems
Semester V	EN5CRT07	Acts on the Stage	CO1	Understand with the works of the playwrights included in the course.
			CO2	Identify the broad genre-based nuances in the realm of drama.
			CO3	Interpret and critique drama as an art form.
Semester V	EN5CRT08	Literary Criticism and Theory	CO1	Distinguish major developments in literary criticism from the ancient times to the twentieth century.
			CO2	Recognize the realm of literary theory and major theoretical schools.
			CO3	Understand the chief Strains of Indian literary criticism.
			CO4	Analyze short poetical pieces critically.
Semester V	EN5CRT09	Indian Writing in English	CO1	Distinguish the Indian quotient in English writings from India
			CO2	Recognize the different concerns that Indian English writers share, cutting across sub-nationalities and regionalities.
			CO3	Analyze the locus standi of diasporic Indian writers.
Semester V	EN5CRT01	Environmental Science and Human Rights	CO1	Develop a sense of awareness among the students about the environment and its various problems.
			CO2	Understand the inter-relationship between man and environment and the necessity to protect nature and natural resources.

			CO3	Acquire the basic knowledge about environment and the social norms that provide unity with environmental characteristics and create positive attitude about the environment.
Semester VI	EN6CR10	Postcolonial Literatures	CO1	Discern the social, political, cultural aspects of postcolonial societies.
			CO2	Understand the impact of colonialism and imperialism on native cultural identities.
			CO3	Infer the links between language, history and culture.
Semester VI	EN6CR11	Women Writing	CO1	Critically respond to literature from a feminist perspective.
			CO2	Understand the patriarchal notions pervade in the social and cultural scenario and how feminism exposed these notions.
			CO3	Identify how stereotypical representations of women were constructed and how these are subverted by feminist writing.
Semester VI	EN6CR12	American Literature	CO1	Familiarize with the evolution of various literary movements in American literature.
			CO2	Acquaint with the major authors in American Literary History.
Semester VI	EN6CR13	Modern World Literature	CO1	Discern that the literature the world over engage in very deep ways with the vicissitudes of life.
			CO2	Distinguish literatures that often defy genres/ rationalities and canonical assumptions to emerge as a platform where poetics and politics fuse.
			CO3	understand the notion of Major and Minor, Central and Peripheral literatures is a myth.
Semester VI	EN6CB03	Regional Literatures in Translation	CO1	Understanding of much discussed writers/literary pieces in the vernaculars.
			CO2	Comprehend modern trends in regional literature.

B. Sc. FAMILY AND COMMUNITY SCIENCE



SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	HS1CRT01	Methodology of Home Science & Food Science	CO1	Recognize the thrust zones in Family and Community Science (Home Science) and career predictions.
			CO2	Identify applicable methodology for carrying out research focused ventures.
			CO3	Study the report writing in the accepted design for a research scheme.
			CO4	Understanding the basic concepts of macronutrients and its role in culinary techniques.
			CO5	Analyze different food groups in its composition and nutritional value, new developments and technology available in food processing.
Semester II	HS2CRT02	Human Physiology & Microbiology	CO1	Explain the functioning of various systems in the human body.
			CO2	Describe the digestion and absorption of different nutrients in the body.
			CO3	Analyse the role of hormones and its effect during imbalances in the human body.
			CO4	Determine the basic concepts of food microbiology.
			CO5	Identify the various infections, defence mechanisms in the human body and immunization programmes.
Semester II	HS2CRP02	Food Science & Human Physiology and Microbiology	PRACTICAL	
			CO1	Analyze the various components of food and the different phases of cookery, its effect on the quality of foods and the preservation techniques in food industries.
			CO2	Apply different ways and means to prevent food deterioration in food processing.
			CO3	Identify microorganisms, products making using economically important microbes in a lab setting
			CO4	Calculate body health parameters such as Hb and blood pressure

			CO5	Recognize the operational settings in microbiology or a food quality laboratory reflecting career breaks.
Semester III	HS3CRT03	Human Development	CO1	Identify the methods of child study, principles and factors influencing growth and development and the different aspects of personality development.
			CO2	Explain the stages of prenatal development, neonatal care, needs and rights of children.
			CO3	Compare the developmental pattern during infancy, babyhood, early childhood and late childhood period.
			CO4	Discuss the developments, issues and concerns of adolescents.
			CO5	Examine the different discipline techniques and its effect on children, importance of play and principles of habit formation.
Semester IV	HS4CRT04	Family Dynamics	CO1	Identify the functions and types of marriage and the factors leading to successful married life.
			CO2	Explain the different aspects of family, family interactions and the contemporary issues affecting family.
			CO3	Examine the critical family situations and the coping strategies.
			CO4	Determine the problems of overpopulation and importance of population education.
			CO5	Assess the needs, problems and care of the elderly.
Semester IV	HS4CRP04	Human development and Family Dynamics- Practical		PRACTICAL
			CO1	Assess the physical, motor, emotional, intellectual and social development of a preschool child.
			CO2	Prepare growth enhancing materials and toys to enhance overall development of infants, toddlers and preschool children.
			CO3	Examine the causes of behaviour problems among children and the problems of elderly.
			CO4	Illustrate the concepts of human development and family dynamics using visual aids.
Semester V	HS5CRT05	Interior Decoration	CO1	Apply the basic elements and principles of design for interiors.

			CO2	Choose appropriate colour and lighting for home decor.
			CO3	Select furniture and suitable furnishing materials for interiors.
			CO4	Apply accessories and flower arrangements suitable for interiors.
			CO5	Plan appropriate exterior and interior space.
Semester V	HS5CRT06	Human Nutrition & Biochemistry	CO1	Comprehend the basic concepts of Nutrition Science.
			CO2	Interpret the concepts of human energy requirements and tools for the measurement of basal metabolism.
			CO3	Identify the macro nutrients and their metabolism.
			CO4	Categorise the sources and functions of vitamins and minerals.
			CO5	Use the principles of Human Nutrition in the assessment of nutritional status and identifying the nutritional requirements at various stages of life.
Semester V	HS5CRT07	Textile Science	CO1	Describe the production and properties of textile fibers and their uses.
			CO2	Explain the process of yarn making and characteristics of different types of yarns.
			CO3	Analyze different methods of fabric construction and different textile weaves
			CO4	Describe different methods of textile dyeing and printing.
			CO5	Explain the different methods of finishes and its purpose and new trends in textiles
Semester V	HS5CRT08	Environmental Studies & Human Rights	CO1	Describe the need for conserving the environment and promoting sustainability in food systems.
			CO2	Identify major ecosystems, eco regions, vegetation types and endemic regions in India and Kerala
			CO3	Determine the major problems associated with the environment and suggest possible solutions

			CO4	Compare suitable energy conservation techniques for planning and implementing Eco-friendly product designs.
			CO5	Assess the needs and importance of human rights.
Semester V	HS5OPT01	Interior Decoration and Related Arts (Open Course)	CO1	Identify the sources, importance and need of interior decoration.
			CO2	Explain the basic elements and principles of interior decoration.
			CO3	Use the principles of colour and light in interiors.
			CO4	Discuss the types, selection, arrangement and uses of furniture and furnishings.
			CO5	Assess the role of accessories and indoor gardening in interiors.
Semester VI	HS6CRT09	Family Resource Management	CO1	Describe the basic principles of management.
			CO2	Determine the classification and Utilization of human and non human resources.
			CO3	Identify the types of family income, family budget planning and the saving and investment schemes.
			CO4	Explain the principles and use of energy management techniques and labour saving devices.
			CO5	Identify the consumer aids and methods to solve consumer problems.
Semester VI	HS6CRP09	Interior Decoration and Family Resource Management		PRACTICAL
			CO1	Develop motif, accessories and flower arrangements suitable for interiors
			CO2	Evaluate design concepts and curtain styles in interiors
			CO3	Create labels and advertisements
			CO4	Plan the utilisation of resources
Semester VI	HS6CRT10	Clinical Nutrition and Dietetics	CO1	Explain the concepts of Dietetics.
			CO2	Identify the nutritional management of common disorders.
			CO3	Choose the appropriate techniques to manage lifestyle diseases.
			CO4	Determine the dietary management during chronic disease conditions.

			CO5	Detect the causes, consequences and prevention of malnutrition.
Semester VI	HS6CRP10			PRACTICAL
			CO1	Analyse the components of food.
			CO2	Prepare diets for individuals in different life stages.
			CO3	Assess the nutritional status.
			CO4	Prepare normal and therapeutic diets.
Semester VI	HS6CRT11	Fashion Designing and Apparel Production	CO1	Explain the terminologies related to fashion and fashion cycle.
			CO2	Apply the fundamental concepts of fashion, elements and principles of design in dress design
			CO3	Compare different methods of pattern making
			CO4	Examine the steps involved in garment construction
			CO5	Explain the role of various departments in garment industry
Semester VI	HS6CRP11	Textile Science & Fashion Designing - Practical	CO1	Analyse different textile fibres and weaves
			CO2	Develop printed fabrics by applying hand printing techniques.
			CO3	Interpret body proportions and develop dress designs based on individual creativity
			CO4	Construct garments by applying different garment construction techniques.
Semester VI	HS6CRT12	Extension Education and Developmental Communication	CO1	Identify the widening concept of extension education for upbringing the family and society. in India.
			CO2	Describe the different community and its developmental set up in India
			CO3	Identify the importance of rural Leadership in bringing about planned change in human behaviour for developing community
			CO4	Plan an extension program by evaluating its effectiveness.
			CO5	Prepare technologically advanced ICT tools as different methods of approaching people.
				PRACTICAL
			CO1	Prepare audio visual aids suitable for community development programmes.

Semester VI	HS6CRP12		CO2	Create beneficial products from used and waste materials.
			CO3	Assess the functioning of different energy saving devices.
			CO4	Prepare a plan of work for a community development programme with tools for evaluation.
			CO5	Assess the credibility of news articles or media content prepared
Semester VI	HS6CBT01	Food Safety	CO1	Explain the parameters involved in quality control.
			CO2	Identify the sources of contamination of food and water and safe food practices.
			CO3	Determine the various toxicants and food adulterants found in foods.
			CO4	Outline the different laws and standards pertaining to foods.
			CO5	Suggest measures to prevent food borne illnesses.
Semester VI	HS6PRP01	Project	CO1	Identify problems and formulate solutions in Food and Nutrition, Human Development and Family Interactions, Resource Management and Interior Decoration, Textiles and Fashion designing, Community development and Extension programmes, Environment Studies and Human Rights.

B. Sc. ZOOLOGY



SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	ZY1CRT01	General Perspectives in Science & Protistan Diversity	CO1	Provide awareness on the basic philosophy of science and concepts
			CO2	Understand the life and its manifestations through history and scope
			CO3	To familiarize taxonomic principle and tools taxa level identification of Kingdom Protista
			CO4	Make interest in Protistan diversity
			CO5	Impart knowledge on parasitic forms of Protista and their role in human health
Semester II	ZY2CRT02	Animal Diversity - Non Chordata	CO1	To instil curiosity on invertebrates around us
			CO2	Understand different levels of biological diversity through the systematic classification of invertebrate fauna
			CO3	Familiarize taxa level identification of Phylum Arthropoda
			CO4	To create an awareness on diversity of phylum Mollusca and Echinodermata
			CO5	To understand the evolutionary significance of Minor Phyla and Phylum Hemichordata
Semester III	ZY3CRT03	Animal Diversity - Chordata	CO1	Acquire in depth knowledge on the diversity of Protochordates
			CO2	Understand different levels of biological diversity of Agnatha and Super class Pisces
			CO3	To create awareness on physiology and diversity of Amphibia
			CO4	To create appreciation on Reptilian and Avian biodiversity
			CO5	Acquire in depth knowledge on Mammalian biodiversity
Semester IV	ZY4CRT04	Research Methodology, Biophysics and Biostatistics	CO1	Familiarize the learner the basic concept of scientific method and designs in research process
			CO2	Equip the students with the basic techniques of animal rearing collection and Preservation
			CO3	To understand the basic principle and uses of various biological instruments.
			CO4	Create awareness about the laws and ethical values in biology
			CO5	To develop skill to apply statistical methods in biological studies

Semester V	ZY5CRT05	Environmental Biology and Human Rights	CO1	Instil the basic concepts of Ecosystems, Natural Resources and their conservation
			CO2	Make the students aware of the concept of population, community and their interaction.
			CO3	Create a consciousness regarding Biodiversity, environmental issues.
			CO4	To understand various conservation strategies for sustainable ecosystem
			CO5	Develop the real sense of Human rights – concepts & manifestations
Semester V	ZY5CRT06	Cell Biology and Genetics	CO1	To understand the structure and function of the cell and cell organelles and their role in the functioning of living organisms.
			CO2	Understand the central role of cell communication and division to pursue the existence of life.
			CO3	Emphasize the central role of genes and their inheritance in the life of all organisms
			CO4	Analyze the concept of recombination, linkage mapping and elucidate the gene transfer mechanisms.
			CO5	Understand the concept of mutations and genetic disorders.
Semester V	ZY5CRT07	Evolution, Ethology and Zoogeography	CO1	Acquire knowledge about the evolutionary history of earth and origin of life
			CO2	Understand the evolutionary theories, population genetics and its role in evolution
			CO3	Acquire knowledge about evolutionary concepts and mechanisms
			CO4	Conceive knowledge on animal behavioural patterns and their role
			CO5	Specify the distribution of animals on earth, its pattern, evolution and causative factors
Semester V	ZY5CRT08	Human Physiology, Biochemistry and Endocrinology	CO1	To acquire deep knowledge in physiology of nutrition, respiration, circulation and excretion to develop critical societal goal of health literacy
			CO2	Acquire various aspects of control and co-ordination of physiological activities of human beings
			CO3	Understand the basic principles of biochemistry useful for illustrating different and function

			CO4	To acquire deep knowledge on metabolism and its significance
			CO5	Analyse hormonal regulation of physiological processes
Semester VI	ZY6CRT09	Developmental Biology	CO1	Understand physiology of reproductive cycles, reproductive health and importance of sex education
			CO2	To acquire knowledge on early stages of embryogenesis.
			CO3	To acquire deep knowledge in the embryology of Frog, Chick and Human being. To gain knowledge in assistive reproductive technology and birth control
			CO4	Determine the experimental methods and designs that can be used for future studies and research
			CO5	To study the techniques of differentiation processes of an organism
Semester VI	ZY6CRT10	Microbiology and Immunology	CO1	To understand the outline classification of microbes, sterilization, media preparation and preservation techniques
			CO2	To acquire deep knowledge on bacterial morphology, growth, reproduction and staining techniques
			CO3	To create general awareness about the infections and diseases
			CO4	To understand various immune mechanisms, role of immune cells and organs
			CO5	To gain knowledge about the structure and functions of immune-bodies and their reactions
Semester VI	ZY6CRT11	Biotechnology, Bioinformatics and Molecular Biology	CO1	To understand the basic concepts, tools and techniques in Biotechnology
			CO2	Understand the principles and practices of animal cell culture and applications of biotechnology
			CO3	To analyse the role of bioinformatics in Life Sciences.
			CO4	Understand the structure and properties of genes in living organisms at the molecular level
			CO5	Conceive the significance of central dogma of gene action

Semester VI	ZY6CRT12	Occupational Zoology (Apiculture, Vermiculture, Quail Farming & Aquaculture)	CO1	Illustrate maintenance and management of an apiary and to understand their role in nutritional security and environmental sustainability.
			CO2	Awareness about need for waste management and organic farming
			CO3	To understand the culture techniques in commercial scale and to analyse the role of Quail in health sector
			CO4	Understand the scope of fish culture and successful entrepreneurship in ornamental fish trade
			CO5	Understand the importance of balanced ecosystem
Semester V	ZY6CBT04	Nutrition, Health and Lifestyle Management	CO1	To understand principles of nutrition and its role in life stages and health
			CO2	Build students with a general principles and concept of health parameters and wellness
			CO3	Gain deep knowledge regarding common life style diseases
			CO4	To aware of causes of life style diseases and to develop healthy living.
			CO5	To understand the value of good life style practices, physical fitness and healthy food habits for life style disease management and develop health literacy among students
Semester I	ZY1CRPO1	Perspectives in Science & Protistan Diversity	PRACTICALS	
			CO1	To familiarize taxa level identification techniques
			CO2	Gain deep knowledge in taxonomic Identification using keys
			CO3	To identify biological diversity of Phylum Protista
			CO4	Awareness about economically important parasitic protists and their role in human health
			CO5	To understand Identification of Protistans from pond water
Semester II	ZY2CRPO2	Animal Diversity- Non-Chordata	CO1	Understand the relative size, shape and location of different features of what is being drawn
			CO2	To identify the organisms through sections
			CO3	To develop skill in dissections and mountings

			CO4	To understand the systemic classification and biological diversity of non-chordata
			CO5	Gain deep knowledge in taxonomic Identification using keys
Semester III	ZY3CRPO3	Animal Diversity- Chordata	CO1	Understand the relative size, shape and location of different features of what is being drawn
			CO2	To identify sections and dissections of organisms
			CO3	To develop skill in mountings
			CO4	To identify the organisms through osteological studies
			CO5	Gain deep knowledge in biological diversity and taxonomic Identification of phylum Chordata
Semester IV	ZY4CRPO4	Research Methodology, Biophysics and Biostatistics	CO1	Familiarize Animal collection Tools, Techniques and Estimation
			CO2	To develop skill in microscopic measurements and drawings
			CO3	Understand the principle and uses of equipment
			CO4	Gain deep knowledge in MS
			CO5	Analyse measures of central tendency, dispersion and Graphical representation of biological data.
Semester V	ZY5CRPO5	Environmental Biology and Human rights	CO1	To estimate dissolved Oxygen and carbondioxide in water and soil organic carbon
			CO2	To Identify and estimate planktons
			CO3	Understand the principle and uses of equipment
			CO4	Understand adaptations of sandy and rocky shore fauna and animal Association
			CO5	Gain deep knowledge about important areas of bio diversity through Field study
Semester V	ZY5CRPO6	Cell biology and Genetics	CO1	To develop skill in mountings
			CO2	Identify Tissues and cell organelles
			CO3	To solve Genetic problems
			CO4	Understand normal and abnormal human karyotypes
			CO5	Develop skill in cytologic preparations
			CO1	To Identify Zoogeographical realms and islands and endemic species of each realm

Semester V	ZY5CRPO7	Evolution, Ethology and Zoogeography	CO2	To appreciate Contributions of scientists
			CO3	Gain deep knowledge about horse evolution
			CO4	To understand evolutionary process through Homology, Analogy and connecting links
			CO5	To Identify animal behaviour and the instruments used in behavioural studies
Semester V	ZY5CRPO8	Human Physiology, Biochemistry and Endocrinology	CO1	To estimate the components of body fluids
			CO2	To identify tonicity of solutions
			CO3	Understand the principle and uses of instruments
			CO4	To analyse components in a mixture
			CO5	To Identify endocrine organs and functions
Semester VI	ZY6CRPO9	Developmental Biology	CO1	To identify embryological specimens
			CO2	Understand the principle, procedure and uses of Embryological techniques
			CO3	To understand different stages of chick embryo
			CO4	To develop skill in dissections and staining
			CO5	To estimate the fecundity and gonadosomatic index of fish.
Semester VI	ZY6CRP10	Microbiology and Immunology	CO1	Understand the principle and uses of Microbial instruments
			CO2	To develop skill in preparation of media for microbial cultures.
			CO3	To understand different culture methods of microbiology
			CO4	To develop skill in staining, mounting and identifying bacteria and fungus
			CO5	Gain deep knowledge in Antigen – antibody Reactions and immune organs
Semester VI	ZY6CRP11	Biotechnology, Bioinformatics and Molecular Biology	CO1	Understand the principle, procedure and uses of techniques
			CO2	Gain knowledge to access and identify genome sequences
			CO3	To identify protein sequences and their composition
			CO4	To develop skill to visualize macromolecule.
			CO5	Gain deep knowledge in composition, structure and functional significance of DNA and RNA
Semester VI	ZY6CRP12	Occupational Zoology	CO1	Gain deep knowledge in identification morphology and Economic importance of culturable fishes and shell fishes

			CO2	Develop skill to the species level identification of ornamental fishes, Earth worms and honey bees
			CO3	Understand the principle, procedure and uses of equipment used in culturing
			CO4	Understand the natural resources available from animals
			CO5	To develop skill in dissections and Mountings

B. Sc. CHEMISTRY (MODEL II)



SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOMES
Semester I	CH1CRT01	General and Analytical Chemistry	CO1	Identify chemistry as a prominent discipline of science and to refresh the basic concepts of chemistry
			CO2	Study about the periodic table and periodic properties of elements
			CO3	Develop skills in different laboratory titrations and to understand the principles behind titrimetric analysis
			CO4	Create an awareness about various analytical methodologies with special attention to chromatographic techniques
			CO5	Learn about important analytical tools and how to evaluate analytical data to practice chemistry
Semester I	CH1VOTO1	Industrial aspects of Inorganic and Organic Chemistry	CO1	Learn about different methods for the analysis of coal
			CO2	Create an awareness about various food additives and their health effects
			CO3	Understand about the basic idea about various metallurgical operations
			CO4	Discuss the importance of inorganic materials
			CO5	Develop an idea about the properties of electrical insulating materials
			CO6	Provide an introductory idea regarding nanochemistry
Semester II	CH2CRT02	Theoretical and Inorganic Chemistry	CO1	Study the historical development of atom models
			CO2	Generate an idea about different types of bonds and classify molecules according to their hybridization
			CO3	Understand molecular orbital theory of diatomic molecules
			CO4	Compare the properties of s and p block elements
			CO5	Understand the chemistry of d and f block elements and their compounds
			CO1	Understand surface and interfacial phenomena

Semester II	CH2VOTO2	Chemical Industries and Industrial aspects of Physical Chemistry	CO2	Analyse the various moulding process used in polymer chemistry
			CO3	Know about different types catalysis
			CO4	Have an idea about hydrochemistry
			CO5	Understand different polymer processing techniques
			CO6	Classify different lubricants according to their properties
			CO7	Familiarize with cement and its applications
			CO8	Compare various types of batteries
Semester I & II	CH2CRP01	Volumetric Analysis	PRACTICALS	
			CO1	Develop skills for the quantitative estimation using different types of titrations
			CO2	Prepare different standard solutions
			CO3	prepare solutions of different concentrations from a standard solution
Semester I & II	CH2VOP01	Industrial Inorganic Chemistry Practical	CO1	Study the methods used for the analysis of water
			CO2	Enable the students to do ore analysis and alloy analysis
			CO3	Helps to determine the percentage composition of analyte in the given samples
Semester III	CH3CRT03	Organic chemistry I	CO1	Have a basic idea about the nomenclature of organic compounds, fundamentals of organic reaction mechanism
			CO2	Make students capable of understanding stereochemistry of organic reactions
			CO3	Interpret preparation and reactions of aliphatic hydrocarbons and alkyl halides
			CO3	Generate an idea about aromaticity and reactions of aromatic hydrocarbons and aryl halides
			CO4	Have an idea about pericyclic reactions
Semester III	CH3VOT03	Unit Operations in Chemical Industry	CO1	Understand various techniques and equipments used for distillation
			CO2	Describe the types and working principles of absorption equipments
			CO3	Explain the working and classification of different evaporators

			CO4	Classify different filters and dryers
			CO5	Understand the various steps involved in crystallization
Semester III	CH3VOT04	Unit processes in Organic Chemicals Manufacture	CO1	Study about the mechanism of nitration
			CO2	Understand the mechanisms and factors of halogenation and sulphonation reactions
			CO3	Develop an idea about the different types of oxidation reactions
			CO4	Recognize the importance of hydrogenation reactions in industries
			CO5	Understand the manufacture and uses of esterification and hydrolysis reactions
			CO6	Explain methods of amination by reduction
			CO7	Learn more about different types of alkylation and alkylating agents
Semester IV	CH4CRT04	Organic Chemistry-II	CO1	Study the chemistry of alcohols, phenols and ethers
			CO2	Learn the preparation, properties and reactions of aldehydes and ketones
			CO3	Know the chemistry of carboxylic acids, sulphonic acids and their derivatives
Semester IV	CH4VOT05	Instrumental Methods of Chemical Analysis-I	CO1	Study about the principles of instrumentation
			CO2	Illustrate principle and working of various spectroscopic techniques like UV, IR etc.
			CO3	Understand the instrumentation of spectrofluorimetry, AAS, AES etc.
			CO4	Develop an idea about electroanalytical instrumentation
			CO5	Provide a basic idea about chromatographic instrumentation
Semester IV	CH4VOT06	Instrumental Methods of Chemical Analysis-II	CO1	Differentiate between process instrumentation and laboratory instrumentation
			CO2	Provide a basic idea about microprocessor based instruments
			CO3	Describe various surface analysis and microscopic techniques
			CO4	Make them aware about the principle, instrumentation and applications of optical methods
			CO5	Explain thermogravimetric analytical techniques and their industrial applications

			CO6	Illustrate the basic principles and applications of SFC and electrophoresis
Semester (III&IV)	CH4CRP02	Qualitative Organic Analysis	CO1	Study the methods for the determination of physical constants such as boiling point and melting point.
			CO2	develop skills for the systematic analysis of organic compounds
			CO3	Learn to prepare derivatives of organic compounds
Semester (III&IV)	CH4VOP02	Industrial Organic Chemistry Practical	CO1	Helps to determine of acid value, saponification value, and iodine value of oil
			CO2	Know the method of synthesis of soap
			CO3	Executing various methods of unit process in the lab
Semester (III&IV)	CH4VOP03	Industrial Physical Chemistry Practical	CO1	Aware about colorimetric Estimation
			CO2	Determine the coefficient of viscosity of a given liquid
			CO3	Determination of dissociation constant of weak acid potentiometrically.
			CO4	Determine the concentrations of strong acid and weak acid in a mixture by conductometric titration Using a strong base
Semester V	CH5CRT05	Environment, Ecology and Human rights	CO1	To have a deeper understanding about the importance of preserving natural resources and environment
			CO2	Identify the consequences of environmental pollution
			CO3	Analyse the basic strategies in population and environmental issues
			CO4	Create an awareness about ecological chemistry and the toxicological effects of pollutants
			CO5	Identify issues and problems relating to human rights
Semester V	CH5CRT06	Organic Chemistry-III	CO1	Understand preparation, properties and reactions of nitro compounds, amines and diazonium salts
			CO2	Explain the mechanism and stereochemistry of reactions of nitrogen containing compounds
			CO3	Explain the synthesis and reactions of heterocyclic compounds.

			CO4	Identify active methylene compounds and their reactions
			CO5	Classify carbohydrates and to illustrate its structure and properties.
			CO6	Illustrate structure and applications of drugs and dyes
			CO7	Discuss the classification, polymerization mechanism and Recycling of plastics
Semester V	CH5CRT07	Physical Chemistry-I	CO1	Understand the intermolecular forces in gases and Perform calculations based on gas laws and van der Waals equation
			CO2	Discuss intermolecular forces in liquids and determine the surface tension and viscosity of liquids
			CO3	Develop an idea about the structures of solids and liquid crystals
			CO4	Recognize the various aspects related to surface chemistry and colloidal state
Semester V	CH5CRT08	Physical Chemistry-II	CO1	Compare classical and quantum mechanics and apply quantum mechanics to simple systems
			CO2	Generate basic ideas of principle and applications of rotational, vibrational and Raman spectroscopy
			CO3	Get an outline on electronic, NMR and ESR spectroscopy and calculate different molecular parameters from rotational and vibrational spectrum
Semester V	CH5OPT01	Chemistry in everyday life	CO1	Analyse the formulation and health effects of food additives
			CO2	Compare soaps and detergents
			CO3	Realize the uses and toxicology of cosmetics
			CO4	Explain the concepts related to the structure, applications and environmental impact of plastics, paper and dyes
			CO5	Discuss the classification of drugs, and propose prevention and treatment of drug addiction
			CO6	Familiarize the importance of Chemistry in Agriculture
			CO7	Provide elementary idea on nanochemistry and its applications

Semester VI	CH6CRT09	Inorganic Chemistry	CO1	Understand the isomerism and stability of coordination complexes
			CO2	Explain the nature of bonding in coordination compounds through the various bonding theories.
			CO3	Interpret the spectral and magnetic properties of complexes
			CO4	Examine the properties, preparation and bonding of organometallic compounds
			CO5	Evaluate the role of metals in biological systems
			CO6	Discuss preparation, properties and structure of Boron compounds
			CO7	Explain the classification, preparation and structure of Inter-halogen and Noble gas compounds
Semester VI	CH6CRT10	Organic Chemistry IV	CO1	Classify various terpenoids and alkaloids
			CO2	Understand the classification and properties of lipids, soaps and detergents
			CO3	Recognize the structure and biological functions of vitamins, steroids and hormones
			CO4	Interpret the classification and characteristics of amino acids, peptides and proteins
			CO5	Describe the components, structure and function of nucleic acids
			CO6	Classify enzymes and discuss the mechanism and factors affecting enzyme action
			CO7	Explain Molecular recognition and guest-host interactions
			CO8	Illustrate various organic photochemical reactions
			CO9	Elucidate the structure of organic compounds using spectroscopic techniques such as UV, IR, NMR and mass spectrometry
Semester VI	CH6CRT11	Physical Chemistry III	CO1	Understand the basic concepts and the laws of thermodynamics
			CO2	Derive expression for joule-thomson coefficient, clausius-clapeyron, gibbs-helmholtz and gibbs-duhem equations
			CO3	Understand the concept of chemical Equilibrium

			CO4	Formulate expressions for degree of ionization, mechanism of buffer action and hydrolysis of salts
			CO5	Understand the concept of Phase equilibria and phase diagrams
			CO6	Comprehend the kinetics of different types of chemical reactions, the types of catalysis and its mechanism
Semester VI	CH6CRT12	Physical Chemistry IV	CO1	Compare ideal and non-ideal solutions and perform calculations on colligative properties
			CO2	Explain Debye-Huckel theory and applications of conductance measurements.
			CO3	Derive Nernst equation for electrode and cell potential
			CO4	Understand photochemical reactions and related laws
			CO5	Recognize elementary ideas about group theory
Semester VI	CH6CBT01	Polymer Chemistry	CO1	Recall the basic principles and concepts of polymer chemistry
			CO2	Interpret the Mechanisms of Polymerization
			CO3	Understand different polymerization techniques
			CO4	Elucidate the structure-property relationship of polymers
			CO5	Understand the reactions of polymers
			CO6	Describe different types of polymer degradation reactions
			CO7	Recognize different polymer processing techniques
			CO8	Develop an idea about the chemistry of commercial polymers
			CO9	Realize the role of speciality polymers
Semester V & VI	CH6CRP03	Qualitative Inorganic Analysis	PRACTICALS	
			CO1	Identify systematically various ions present in a given inorganic sample
			CO2	Explain confirmatory and spot tests for ions
			CO3	Identify and eliminate interfering anions in a given sample
			CO4	Develop basic laboratory skills and standard report

Semester V & VI	CH6CRP04	Organic Preparations and Laboratory Techniques	CO1	Separate and identify various organic compounds using chromatographic techniques
			CO2	Perform different Organic Preparations
			CO3	Deduce the quantitative yield of reactions
Semester V & VI	CH6CRP05	Physical Chemistry Practical	CO1	Find out percentage composition of a mixture using viscosity methods
			CO2	Determine the equivalent conductance of an electrolyte
			CO3	Find out critical solution temperature of phenol-water system
			CO4	Determine the equivalence point of potentiometric and conductometric titrations using spreadsheet program
Semester V & VI	CH6CRP06	Gravimetric Analysis	CO1	Estimation of Barium as barium sulphate
			CO2	Estimation of Iron as Fe ₂ O ₃
			CO3	Estimation of Sulphate as barium sulphate
			CO4	Estimation of Copper as cuprous thiocyanate
			CO5	Estimation of Nickel as nickel dimethyl glyoxime

B. Sc. PHYSICS (MODEL II)



SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	PH1CRT01	Methodology and Perspectives of Physics	CO1	Understand the Scientific Concepts and developments in Physics
			CO2	Differentiate Number systems and its significance.
			CO3	Apply vector algebra in Physics.
			CO4	Apply basic measurement techniques in Physics and experimental data.
			CO5	Understand error analysis.
Semester I	AE1VOT01	Principle of Electronic Components	CO1	Familiarization of various passive electronic components
			CO2	Understand various active electronic components
			CO3	Describe switches and relays
			CO4	Understand the working of Display devices
Semester I	AE1VOT02	Electronics Application	CO1	Understand the components of various measuring devices
			CO2	Analyse the characteristics of tuning circuits.
			CO3	Understand the concepts and working of various time base circuits
			CO4	Understand the working of CD and transducers
			CO5	Understand concept of Printed circuit board and Soldering
Semester II	PH2CRT02	Mechanics and Properties of Matter	CO1	Understand the general nature of waves and its characteristics.
			CO2	Illustrate various types of motions.
			CO3	Calculation of moment of inertia and application in flywheel.
			CO4	Analyse the concepts of elasticity and different modulus of elasticity.
			CO5	Understand the concepts of surface tension & viscosity
Semester II	AE2VOT03	Basics of power Electronics	CO1	Understand the basic structures of an FET
			CO2	Analyse different parameters of JFET
			CO3	Understand the basic structures and working of a MOSFET amplifier
			CO4	Understand the various biasing techniques of FET
			CO5	Analyse the different types of FET Amplifiers
Semester II	AE2VOT04		CO1	Realise different type of thyristors

		Power Electronics	CO2	Interpret the structure and operation of UJT.
			CO3	Explain the construction and operation of Silicon Switches
			CO4	Design Power control circuits using thyristors
			CO5	Understand the basic idea of inverter.
Semester II	PH2CRP01	Mechanics and Properties of Matter	PRACTICALS	
			CO1	Understand and apply the concept of inertia and elasticity
			CO2	Identify the different types of dynamics
Semester II	AE2VOP01	Basic and Power Electronics	CO1	Identify various electronic component and instruments
			CO2	Design and study different electronic circuits
Semester III	PH3CRT03	Optics, Laser and Fiber Optics	CO1	Apply the concepts of interference in different practical cases.
			CO2	Analyse the different types of diffraction and the theory of transmission grating
			CO3	Understand the different types, production and detection of polarized light.
			CO4	Analyse the properties, characteristics, applications of laser and lasing actions
			CO5	Illustrate the propagation of light through optical fiber.
Semester III	AE3VOT05	Microprocessor and Interfacing Devices	CO1	Understand the basics of Microprocessor
			CO2	Recognise the architecture of 8085
			CO3	Familiarize Instruction sets of 8085
			CO4	Solve simple programs
			CO5	Familiarize various Interfacing devices.
Semester III	AE3VOT06	Communication Electronics	CO1	Understand various components of the communication system, basics of radio wave communication and terms relating to it.
			CO2	Discuss the concept of Modulation and Detection
			CO3	Illustrate circuits for achieving amplitude modulation and frequency modulation
			CO4	Understand basic idea of Antenna, RADAR
Semester IV	PH4CRT04	Semiconductor Physics	CO1	Analyse of p-n junction diode
			CO2	Explain various wave shaping circuits.
			CO3	Illustrate various biasing circuits of a transistor and the concept of feedback.
			CO4	Design single stage transistor amplifier circuits and oscillators.

			CO5	Discuss the basics of FET , Op amp and Modulation
Semester IV	AE4VOT07	Linear Integrated Circuits	CO1	Understand the basic parameters of an Op-amp.
			CO2	Analyse different types of Op-amp applications.
			CO3	Understand various Timer IC circuits.
			CO4	Understand the concepts Phase - Locked Loops
Semester IV	AE4VOT08	Applications of Microprocessors	CO1	Familiarize various application of microprocessor
			CO2	Understand the basics of Microcontroller.
			CO3	Recognize the architecture of Microcontroller 8051
			CO4	Classification of various registers of 8051.
			CO5	Solve delay subroutine programs.
Semester IV	PH4CRP02	Optics and Semiconductor Physics	PRACTICALS	
			CO1	Understand the various optical phenomenon through experiments
			CO2	Construct and design various basic circuits
Semester IV	AE4VOP02	Microprocessor and Linear Integrated Circuits	CO1	Design basic circuits using Op amp
			CO2	Learn to write basic programs
Semester IV	AE4VOP03	Microprocessor and Communication Electronics	CO1	Learn to construct basic connection circuits
			CO2	Learn to write advanced programs
Semester V	PH5CRT05	Electricity and Electrodynamics	CO1	Apply the concepts of alternating current in various circuits.
			CO2	Understand the concept of transient current and thermo electricity
			CO3	Express the relevance of Electrostatics
			CO4	Understand the concepts of Magnetostatics
			CO5	Illustration of Maxwell's Equations and Electromagnetic wave propagation
Semester V	PH5CRT06		CO1	Apply Lagrangian and Hamiltonian formulation to various systems.

		Classical and Quantum Mechanics	CO2	Explain various quantum mechanical phenomena.
			CO3	Apply quantum mechanics to various problems.
			CO4	Formulate Schrodinger equation and its solutions
			CO5	Analyze quantum mechanical systems by finding eigenvalues and eigenvectors.
Semester V	PH5CRT07	Digital Electronics and Programming	CO1	Understand Boolean Algebra, logic gates, SOP & POS, Karnaugh map
			CO2	Analysis of different types of combinational logic circuits
			CO3	Analysis of different types of sequential logic circuits
			CO4	Understand basic C++ program structure and key words.
			CO5	Write C++ programs.
Semester V	PH5CRT08	Environmental Physics and Human Rights	CO1	Realise water resources, environmental pollution
			CO2	Understand EIA and waste management
			CO3	Compare the various renewable and non-renewable sources of energy.
			CO4	Identify the environmental aspects of solar energy resources.
			CO5	Recognise various fundamental rights, constitution rights and Human rights.
Semester VI	PH6CRT09	Thermal and Statistical Physics	CO1	Illustration of thermodynamics laws.
			CO2	Realize the functions of different heat engines.
			CO3	Understand entropy, thermodynamics relations.
			CO4	Understand the basic idea of statistical mechanics.
			CO5	Differentiate BE, MB & FD statistics
Semester VI	PH6CRT10	Relativity and Spectroscopy	CO1	Understand the basic concepts of relativity and Galilean Transformation.
			CO2	Illustrate Lorentz transformation and general theory of relativity.
			CO3	Understand the concepts of atomic spectroscopy
			CO4	Understand the basic concepts of molecular Spectroscopy

			CO5	Understand the basic principles of instrumentation techniques
Semester VI	PH6CRT11	Nuclear, Particle and Astrophysics	CO1	Understand the concept of nuclear structure and nuclear forces.
			CO2	Illustrate various radiation detectors, counters and particle accelerators.
			CO3	Analyse different types of radioactive decays and radioactive detectors
			CO4	Understand the concept of cosmic rays, stellar evolution and the classification of stars.
			CO5	Understand the concept of elementary particles.
Semester VI	PH6CRT12	Solid State Physics	CO1	Understand different types crystalline structures and bonding in solids.
			CO2	Explain the basic concepts of free electron theory and band theory of solids,
			CO3	Discuss different optoelectronic devices.
			CO4	Illustrate the concepts of polarization and magnetism in materials.
			CO5	Analyse the concepts of superconductivity.
Semester VI	PH6CBT02	Choice Based Course Material Science	CO1	Understand the structure and properties of materials
			CO2	Explain different modern engineering materials and their optical properties
			CO3	Implementation of advanced materials in the modern engineering applications
			CO4	Understand properties of nano materials and its applications
			CO5	Understand the various modern characterisation techniques
Semester VI	PH6CRP03	Electricity, Magnetism and Laser	PRACTICALS	
			CO1	Calibration and conversion of standard meters
			CO2	Calculate the various constants of magnetism
			CO3	Determine the different parameters related to LASER and optical fibre
Semester VI	PH6CRP04	Digital Electronics	CO1	Verification of universal gates
			CO2	Construction of Multivibrators, Flip Flops & Registers
Semester VI	PH6CRP05	Thermal Physics, Spectroscopy	CO1	Verification of laws and effect in thermal Physics
			CO2	Determination of optical constants of prism and grating using spectrometer

		and C++ Programming	CO3	Design and execution of C++ programs
Semester VI	PH6CRP06	Acoustics, Photonics and Advanced Semiconductor	CO1	Determine of acoustical constants using various devices
			CO2	Analysis of various photonic devices
			CO3	Design semiconductor devices for various applications
Semester VI	PH6PRO01	Project & Industrial Visit	CO1	Understand the basic concepts of Physics involved in the topic selected and illustrate it using methodology
			CO2	Create a practical perspective of various concepts gathered during the programme

B. Com. FINANCE AND TAXATION



SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	CO1CRT02	Financial Accounting - I	CO1	Recognize the preparation of various accounts and the financial statements.
			CO2	Prepare final accounts of sole trader.
			CO3	Identify the various concepts of farm accounting.
			CO4	Prepare accounts of consignment.
			CO5	Study the preparation of royalty accounts.
			CO6	Calculate profits or losses from incomplete records.
Semester I	CO1CRT01	Dimensions and Methodology of Business Studies	CO1	Understand how the environment affects the working of a business.
			CO2	Explain the business ethics and importance of doing business ethically.
			CO3	Identify the technological integration in business.
			CO4	Illustrate the importance Corporate Social Responsibility.
			CO5	Explain how government policies have transformed business in India
Semester I	CO1CRT03	Corporate Regulations and Administration	CO1	Explain the principals, regulations and practice of Joint Stock Companies management and administration in India as per companies Act,2013
			CO2	Study the procedure of Promotion and formation of a company.
			CO3	Understand the legal framework with regards to issue of prospectus and various types of Share Capitals.
			CO4	Discuss the modes of acquiring membership in a company.
			CO5	Examine the different modes of winding up of a company.
Semester I	CO1CMT01	Banking and Insurance	CO1	Understanding the basic concepts and practice of banking.

			CO2	Study new banking techniques and schemes and investment system.
			CO3	Recognize an idea about insurance and its types.
			CO4	Analyse how to buy an insurance policy and its relevance in this era.
			CO5	Determine the recent developments and government initiatives in the field of banking and insurance.
Semester II	CO2CRT04	Financial Accounting - II	CO1	Prepare the accounts of branches.
			CO2	Illustrate the concepts of dissolution of partnership firms.
			CO3	Outline the application of important accounting standards.
			CO4	Examine the steps involved in the preparation of hire purchase accounts.
			CO5	Describe the different aspects of departmental accounting
Semester II	CO2CMT02	Principles of Business Decisions	CO1	Determine the basic principles and theories of economics and to meet managerial challenges.
			CO2	Apply Demand Theory in order to evaluate and estimate current and future demand of a product.
			CO3	Explain the cost - output relationship with the help of cost analysis.
			CO4	Evaluate the concept of pricing theory, price mechanism and price determination
			CO5	Identify the different markets in economy.
Semester II	CO2CRT05	Business Regulatory Framework	CO1	Determine the basic concepts and legal framework of mercantile law
			CO2	Explain the general principles underlying contracts of bailment and pledge
			CO3	Discuss the Context and rationale of Indemnity and Guarantee

			CO4	Trace the Law of Agency
			CO5	Describe the Laws related to the Sales of Goods Act, 1930 including performance of contract of sale
Semester II	CO2CRT06	Business Management	CO1	Discuss the concepts and principles of management.
			CO2	Indicate the management functions and social responsibility of management in the present era.
			CO3	Explain how planning can be done effectively, types of plans and MBO.
			CO4	Observe the components of direction, leadership and motivation.
			CO5	list out the modern management techniques.
Semester III	CO3CRT07	Corporate Accounting - I	CO1	Understand the redemption of preference shares and types of issues.
			CO2	Prepare company's final accounts.
			CO3	Determine the liability of underwriters in respect of underwriting contract.
			CO4	Compute insurance claims in various situations.
			CO5	Illustrate the preparation of investment accounts and to discuss the treatment of bonus shares and right shares.
Semester III	CO3CRT08	Quantitative Techniques for Business - I	CO1	To identify the role of statistics and its importance in business.
			CO2	To identify appropriate sampling survey methods for collecting the data and analysing it.
			CO3	To determine measures of central tendency and its role in data analysis
			CO4	To familiarize measures of dispersion and different techniques.
			CO5	To identify interpolate and extrapolate value from a series and use it for forecasting

Semester III	CO3CRT09	Financial Markets and Operations	CO1	Elucidate different components of Indian financial system and its recent developments.
			CO2	Describe the different methods of issuing shares and role of intermediaries in the primary market.
			CO3	Describe the instruments, participants and operations of secondary market.
			CO4	Discuss mutual funds, its types, benefits and limitations of mutual fund.
			CO5	Classify the various types of derivative instruments and features
Semester III	CO3CRT10	Marketing Management	CO1	Understand the basic principles of marketing management.
			CO2	Discriminate type of markets and state the factors on which market segmentation is done.
			CO3	Understand the product lifecycle, branding and packaging.
			CO4	Discuss various factors influencing and strategies adopted by business pricing of a product.
			CO5	Describe various intermediaries in distribution and also elucidate emerging trends in marketing.
Semester III	CO3OCT01	Goods and Services Tax	CO1	Explain the GST Laws in India.
			CO2	Explain the prevailing Tax system in India and Kerala related with the Levy and collection of Tax and input tax Credit.
			CO3	Recognize the process of registration, Returns and Payments, Refunds under GST.
			CO4	Identify the various assessment, audit and laws relating to GST.
			CO5	Study about the various appellate authorities under GST regime and its powers.

Semester IV	CO4CRT11	Corporate Accounting – II	CO1	Prepare financial statement of banking companies.
			CO2	Prepare financial statement of Insurance companies.
			CO3	Explain the procedure for internal reconstruction.
			CO4	Describe the aspect of amalgamation, absorption and external reconstruction.
			CO5	Explain corporate accounting procedure for liquidation of companies
Semester IV	CO4CRT13	Entrepreneurship Development and Project Management	CO1	Develop entrepreneurial spirit among students
			CO2	Examine the role of entrepreneur in economic development
			CO3	Compare and classify types of entrepreneurs
			CO4	Generalize the idea on project identification, project formulation and project evaluation.
			CO5	Identify the entrepreneurial support in India and to discuss on special institutions in India for entrepreneurial development and assistance in India.
Semester IV	CO4CRT12	Quantitative Techniques for Business –II	CO1	Illustrate with more advanced tools of data analysis and forecasting
			CO2	Explain correlation and determine the relationship between variables using correlation and regression.
			CO3	Construct appropriate index numbers.
			CO4	Explain the parameters of time series analysis of data
			CO5	Determine the probability of simple events
Semester IV	CO4OCT01	Financial Services	CO1	Explain the overall idea of financial services available in the country.
			CO2	Assess the various aspects of Venture Capital and Securitization in financial services sector.
			CO3	Explain the role of leasing and factoring in Financial System.

			CO4	Determine the need and importance of credit rating and role of agencies involved in credit rating.
			CO5	Assess the central ideas and theories of recent trends in Mergers and Acquisition in financial services
Semester V	CO5CRT14	Cost Accounting – 1	CO1	Develop the basic concepts of cost and its presentation in financial statements
			CO2	Articulate the fundamentals of cost accounting as separate system of accounting.
			CO3	Apply the different methods and techniques of costing.
			CO4	Explain the management of working capital.
			CO5	Illustrate the preparation of cost sheet.
Semester V	CO5CRT16	Financial Management	CO1	Develop a wide understanding on financial management.
			CO2	List out various sources of finance and types of leverage.
			CO3	Illustrate an idea about capital budgeting.
			CO4	Examine the management of working capital.
			CO5	Assess the need and importance of dividend decisions.
Semester V	CO5OCT01	Income Tax – I	CO1	Collect the basic terms and concepts of Income Tax Act 1961.
			CO2	Determine the Residential Status of different Persons.
			CO3	Computation of Income from Salary.
			CO4	Computation of Income from House Property.
			CO5	Determine the Profits and Gains of Business or Profession.
			CO1	Understand the basic ideas about environment, emerging issues about environmental problems and also give Knowledge about the structure, concept and function of Ecosystem.

Semester V	CO5CRT15	Environment Management and Human Rights	CO2	Describe the various Biodiversity and their conservation, local and global environmental issues, need for disaster management, Environmental laws and legislations involved in India.
			CO3	Explain the recent developments in the field of commerce and management relating to environment.
			CO4	Identify the basic terms, practical applicability, procedure for seeking information (also on special issues), disposal procedure, appeal, exemption from disclosure of the right to information Act,2005.
			CO5	Assess the needs and importance of national and international Human Rights.
Semester V	CO5OP03	Fundamental of Accounting	CO1	Explain the theory base of accounting.
			CO2	Prepare journal and record transactions in the books of original entry.
			CO3	Compute the various ledger accounts.
			CO4	Calculate arithmetical accuracy by preparation of trial balance.
			CO5	Prepare the financial statement.
Semester VI	CO6CRT17	Cost Accounting – II	CO1	Explain the different concept of job costing and contract costing
			CO2	Understand the service costing
			CO3	Create an awareness regarding process accounts and their treatments.
			CO4	Develop various cost concepts like fixed cost, variable cost, breakeven point, break even analysis
			CO5	Identify different types of budgets and various aspects of budgetary control

Semester VI	CO6CRT20	Management Accounting	CO1	Determine the classification, Scope and functions of Management accounting.
			CO2	Explain the methods and techniques used in financial statement analysis.
			CO3	Explain the concept of ratios and ratio analysis.
			CO4	Prepare fund flow statement.
			CO5	Prepare cash flow statement.
Semester VI	CO6OCT01	Income Tax – II	CO1	Examine the different heads of income such as Capital Gain and Income from other Sources.
			CO2	Discuss the various deductions under Chapter VI A of Income Tax act,1961.
			CO3	Illustrate clubbing of income and set off and carry forward of losses.
			CO4	Compute the various concepts of Assessment procedures.
			CO5	Study the Authorities of Income Tax.
Semester VI	CO6CRT19	Auditing and Assurance	CO1	Understanding the basic concepts, principles and procedure of auditing.
			CO2	Study the duties and responsibilities of auditors.
			CO3	Apply different ways and means to undertake the work of auditing.
			CO4	Examine the different parameters of audit of limited companies.
			CO5	Identify the recent trends in auditing.
Semester VI	CO6CRT18	Advertisement and Sales Management	CO1	Discuss the process in developing an advertisement programme.
			CO2	Study legal, economic and social aspect of advertisement.
			CO3	Explain the Parameters of advertising research.

			CO4	Determine the concept of sales promotion.
			CO5	Outline the various concepts of personal selling, sales force management etc.
Semester VI	CO6PRT01	Project Viva and	CO1	Examine the learning and generation of research aptitude
			CO2	Learn about the industrial environment and gain practical knowledge
			CO3	Develop critical thinking and team work among students.
			CO4	Create an attitude to manage obstacles more effectively

B. Voc. APPLIED ACCOUNTING AND TAXATION



SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	BOCG102	IT For Business	CO1	Make the students capable of managing the office activities with the help of information technology.
			CO2	Understand about formatting techniques.
			CO3	Explain the various concepts of operating system.
			CO4	Identify various packages and its operation.
			CO5	Acquire deep practical knowledge about IT for business.
Semester I	AATS104	Corporate Regulations and Administration	CO1	Explain the principles, management and administration of joint stock companies in India as per Companies Act 2013.
			CO2	Identify various classifications of companies.
			CO3	Clear cut view of promotion and formation of a company.
			CO4	Acquire deep knowledge about share capital.
			CO5	Understand the preparation of Articles of Association, Memorandum of Association, Registration procedure, prospects, Share certificate etc.
Semester I	AATS105	Computerized Accounting I	CO1	Define computerized accounting environment.
			CO2	Understand the computerized accounting features, merits and benefits.
			CO3	Develop the skills necessary to do general ledgers and vouchers
			CO4	Understand the various concepts and principles relating to accounts payable, accounts receivable etc.
			CO5	Adapt the skills of preparing financial statements, inventories, pay roll etc. in tally platform.
Semester I	AATS106	Financial Accounting - I	CO1	Create the skill of preparing accounts and financial statements of various types of business units other than corporate undertakings.
			CO2	Observe various accounting principles and concepts.
			CO3	Explain Accounting Standards.
			CO4	Illustrate the concepts of royalty, consignment and farm accounts.
			CO5	Show how to prepare final accounts of a sole trader.
Semester II	AATG202	Banking and Insurance	CO1	Identify the basic concepts and practice of banking and insurance.
			CO2	Understand the various services offered and various risks faced by banks.

			CO3	Justify the various banking innovations after nationalization to give them an overview about insurance industry.
			CO4	Explain the various principles and provisions that govern the life general insurance contracts
			CO5	Develop the dextrin of skills with which modern banking and Insurance is run.
Semester II	AATS203	Business Regulatory Framework	CO1	Explain the legal framework influencing business decisions.
			CO2	Understand the essentials of a valid contract.
			CO3	Identify various principles and concepts of contract and agreement.
			CO4	Point out the online registration process of partnership and sole proprietorship firm.
			CO5	Construct the Sale of Goods Act, 1930.
Semester II	AATS204	Computerized Accounting II	CO1	Reproduce computerized accounting environment.
			CO2	Describe the inventory categories and groups in Tally.
			CO3	Develop the skills necessary to do cost categories ledgers and centers.
			CO4	Understand voucher types TDS TCS etc.
			CO5	Integrate the skills of GST terminologies in Tally and payroll system.
Semester II	AATS205	Financial Accounting II	CO1	Describe the preparation of books of accounts of various types of business activities and application of important accounting standards.
			CO2	Practice the skill of preparing final accounts of sole trader.
			CO3	Identify the difference between hire purchase and installment.
			CO4	Analyse the preparation of books of accounts of various types of business.
			CO5	Generalize the application of important accounting standards.
Semester II	AATS206	Vocational Training and Reporting.	CO1	Practice the skill of preparing quarterly accounts.
			CO2	Produce company environment and gain practical knowledge
			CO3	Create the skill of preparing financial statements of various companies.
			CO4	Acquire accounting experience in tally.
			CO5	Develops problem solving skill.
Semester III	BOCG301	Principles of Management	CO1	Identify the different Schools of Management thoughts thought
			CO 2	Create the skill of decision making.
			CO3	Develop organising skill

			CO4	Generalise the recruitment and selection procedure
			CO5	Impart controlling methodology
Semester III	AATG302	Stenography and computer applications	CO1	Familiarize the students with stenography and short hand machine
			CO2	Understand students more and familiarize with the keyboard and shortcut keys.
			CO3	Create the skill in advanced stenography
			CO4	Training students to prepare e-mails, resumes, and application letters.
			CO5	Practice to type at the speed of 20 words per minute.
Semester III	AATS303	Business Statistics	CO1	Define Business Statistics
			CO2	Impart knowledge about statistical survey
			CO3	Practical skill in Uni-Variate Data Analysis I
			CO4	Understand the measures of dispersion.
			CO5	Explain the meaning and significance of interpolation and extrapolation.
Semester III	AATS304	Corporate Accounting I	CO1	Impart knowledge about accounting for shares
			CO2	Practical skill in preparing final accounts of joint stock companies
			CO3	Defining underwriting of shares and debentures.
			CO4	Preparation of investment account
			CO5	Application of average clause
Semester III	AATS305	Computerized Accounting III	CO1	Impart knowledge about MIS reports in Tally ERP9.
			CO2	Understand accounts receivable and payable management.
			CO3	Define GST and tax details
			CO4	Practical skill for maintaining charts of accounts in tally.
			CO5	Record vouchers with TDS
Semester III	AATS306	Goods and Services Tax I	CO1	Introduction and evaluation of GST
			CO2	Defining the registration and payment of tax.
			CO3	Describe the collection of GST
			CO4	Explain the procedure of tax invoice
			CO5	Identify the basic concepts of customs law
Semester IV	BOCG401	Softskills and Personality Development	CO1	Identify personal skills ,creative thinking and personal values
			CO2	Develop interpersonal and problem solving skills
			CO3	Implement etiquettes
			CO4	Apply presentation skills
			CO5	Develop team work

Semester IV	AATG402	Capital Market and Financial Service	CO1	Explain Indian financial system
			CO2	Analyse the functions of new issue market.
			CO3	Examine the functions of intermediaries in the new issue market.
			CO4	Creation of DEMAT account.
			CO5	Practical skill in online trading.
Semester IV	AATS403	E-Commerce	CO1	Define E-Commerce and its features
			CO2	Application of E-Commerce
			CO3	Analyse E-Payment system
			CO4	Understand E –Commerce security
			CO5	Setting up E-Commerce Business
Semester IV	AATS404	Corporate Accounting II	CO1	Identify the accounts of insurance companies
			CO2	Deep knowledge in accounts of banking companies
			CO3	Impart knowledge in internal reconstruction
			CO4	Practical knowledge in amalgamation, absorption and external reconstruction.
			CO5	Identify the concepts of liquidation
Semester IV	AATS405	GST and GST return filing	CO1	Define input tax credi
			CO2	Illustrate on calculation of GST
			CO3	Practical skill in GST Accounting
			CO4	Explain the types of assessment and audit inspection
			CO5	Practical skill in GST returns filing and its procedure.
Semester IV	AATS405	Industry training and report	CO1	Expert in GST and consultancy service
			CO2	Produce company environment and gain practical knowledge
			CO3	Create the skill of preparing GST return and filing
			CO5	Acquire accounting experience in tally.
			CO5	Develops problem solving skill.
Semester V	BOCG501	Environmental Studies	CO1	Explain environment science
			CO2	Identify the concepts of an ecosystem
			CO3	Impart knowledge about environmental pollution
			CO4	Develop the knowledge about environment protection
			CO5	Understand environmental movements
Semester V	AATG502	Auditing	CO1	Define the meaning and basic concepts of audit.
			CO2	Practical knowledge in documentation and evidence.
			CO3	Understand the concept of internal control

			CO4	Identify the qualification and disqualification of company auditor
			CO5	Explain special audit and investigation.
Semester V	AATGS03	Financial Management	CO1	Impart knowledge about financial management
			CO2	Develop financial decision
			CO3	Explain capital structure and financial risk
			CO4	Identify capital budgetting
			CO5	Estimation of working capital.
Semester V	AATS504	Quick Book	CO1	Explain basic concepts, three golden rules of accounting.
			CO2	Creation and modification of chart of accounts
			CO3	Practical skill in bill transaction and vendor credits.
			CO4	Identify finance functions
			CO5	Understand different reports in quick book.
Semester V	AATS505	Cost Accounting I	CO1	Define Cost Accounting, cost concepts and classifications.
			CO2	Application of cost control techniques
			CO3	Acquire deep knowledge in labour cost control.
			CO4	Understand classification of overhead
			CO5	Impart knowledge in preparation of cost sheet.
Semester V	AATS506	Income Tax I	CO1	Explain income tax in India
			CO2	Point out incidence of tax.
			CO3	Computation of income from salary
			CO4	Practical knowledge in computation of income from house property
			CO5	Analyse profit and gain of business or profession.
Semester VI	BOCG601	Entrepreneurship Development	CO1	Understand about entrepreneurs and different classifications.
			CO2	Awareness about identification of project financing new enterprises
			CO3	Identify different discuss opportunities in business
			CO4	Understand about project report to small business.
			CO5	Create awareness about EDP.
Semester VI	AATG602	Tax Planning and Management	CO1	Explain the concepts of tax planning
			CO2	Create awareness about tax planning with reference to salary income.
			CO3	Computation of taxable income of self-occupied and let-out house.
			CO4	Understand tax planning in relation to capital vs. revenue receipts and expenditure relating to lease or own assets

			CO5	Develop skill in tax planning
Semester VI	AATS603	Management Accounting	CO1	Define nature and characteristics of management accounting
			CO2	Identify the nature and limitations of financial statement
			CO3	Analysis of different ratios.
			CO4	Explain fund flow management.
			CO5	Create awareness about cash flow statement.
Semester VI	AATS604	Cost Accounting II	CO1	Identify different concepts of specific order costing
			CO2	Understand operating costing
			CO3	Develop knowledge about process costing
			CO4	Create deep knowledge about marginal costing and break even analysis
			CO5	Practical knowledge about budget and budgetary control.
Semester VI	AATS605	Income Tax II	CO1	Understand capital gain and basis of charge
			CO2	Computation of income under the head, income from other source
			CO3	Awareness about clubbing of income.
			CO4	Identify assessment of individuals
			CO5	Explain powers and functions of income tax authorities.
Semester VI	AATS606	Industry Training and Report	CO1	Expert in Income Tax consultancy service
			CO2	Produce company environment and gain practical knowledge
			CO3	Create the skill of preparing accounting and tax consultancy.
			CO4	Acquire accounting experience in tally.
			CO5	Develops problem solving skill.