ST. THOMAS COLLEGE PALAI

NAAC Accredited with 'A' Grade (3rd Cycle, CGPA 3.30) in 2015

College with Potential for Excellence (CPE-UGC)

(Affiliated To Mahatma Gandhi University, Kottayam)

COURSE OUTCOMES

OF

UNDERGRADUATE PROGRAMMES

(2017 Admission onwards)

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UNDERGRADUATE PROGRAMMES - BA/BSc/BCom

COMMON COURSE – ENGLISH

Name of the Programme	Course code	Course Title	Course Outcomes	
SEMESTER 1				
BA BSc BCom	EN1CC01	Fine-tune Your English	CO1	To confidently use English in both written and spoken forms
			CO2	To use English for formal communication effectively
BA BSc	EN1CC02	Pearls from the Deep	CO1	To introduce students to the different genres of literature and to the niceties of literary Expression
			CO2	To appreciate and enjoy works of literature.
			CO3	To appreciate the aesthetic and structural elements of literature
SEMESTER 2				
BA BSc BCom	EN2CC03	Issues that Matter	CO1	To sensitize the learners to contemporary issues of concern.
			CO2	To identify the major issues of contemporary significance.
			CO3	To respond rationally and positively to the issues raised.
SEMESTER 3				
BA BSc	EN3CC05	Literature and/ as Identity	CO1	To sensitize students to the various ways in which literature serves as a platform for forming, consolidating, critiquing and re-working the issue of identity at various levels.
			CO2	To introduce the subtle negotiations of Indigenous and Diasporic identities with-in Literature.
			CO3	To give an idea of the fissures, the tensions and the interstices present in South Asian regional identities
BCom	EN3CC07	Gems of Imagina-tion	CO1	To introduce students to the different genres of literature and to the niceties of literary Expression

			CO2	To appreciate and enjoy works of literature.
			CO3	To appreciate the aesthetic and structural elements of literature
SEMESTER 4				
BA BSc	EN4CC06	Illumina-tions	CO1	To acquaint the learners with different forms of inspiring and motivating literature.
			CO2	To maintain a positive attitude to life.
			CO3	To evaluate and overcome setbacks based on the insights that these texts provide.
BCom	EN4CC08	Revisiting the Classics	CO1	To introduce the students to the taste of time tested world classics
			CO2	To make the students familiar with the classics from various lands.
			CO3	To help them understand the features that go into the making of a classic

SECOND LANGUAGES

Name of the Programme	**Course code**	**Course Title**	**Course Outcomes**	
SEMESTER 1				
MALAYALAM				
BA BSc	ML1CCT 01	Katha Sahithyam	CO1	Recognize general awareness in literature
			CO2	Appreciate importance of literature and life To sensitize aspects in Malayalam
BCom	ML1CCT 05	Kathayum Kavithayu m	CO1	General awareness about Malayalam literature
			CO2	Introducing new common trends in Malayalam literature
HINDI				
BA BSc	HN1 CCT 01	Prose and One Act Play.	CO1	To develop students competence with reference to Hindi language and literature.
			CO2	To give an authentic knowledge about the development of literature.
BCom	HN1 CCT O1	Prose and Mass Media	CO1	To make familiar with the Students, the literary form of essays.
			CO2	To give knowledge about mass media.
			CO3	To understand the principles and assumptions governing modern linguistic.
			CO4	To promote eminent Hindi scholars and encourage them to write and translate relevant works in Hindi.

GERMAN				
BA History	GR1CCT 07	Basic Grammar and Transla-tions	CO1	Familiarize students with German alphabets and pronunciations
			CO2	Imparts basic knowledge of grammar
			CO3	Develops skills of translations with dialogue patterns
			CO4	Develops common skills in reading, writing, listening and speaking
BA BSc	GR1CCT 01	Grammar and Transla-tions	CO1	Introducing the basic grammar and vocabulary.
			CO2	Developing the skills of reading, writing and listening.
			CO3	Speaking along with dialogue patterns, conversations and oral exercises
			CO4	Translations from German to English and English to German.
BCom	GR1 CCT05	Introduct-ory German for Business People	CO1	Familiarize students with German business life
			CO2	Imparts basic knowledge of grammar
			CO3	Enables them to communicate in the target language
			CO4	Develops common skills in reading, writing, listening and speaking.
SYRIAC				
BA BSc	SY1CCT 01	Poetry Grammar and History of Syriac Language and Literature	CO1	Introducing the basic grammar and vocabulary.
			CO2	Developing the skills of reading, writing and listening.
			CO3	Acquire the knowledge of origin and development of Syriac language
			CO4	Recitation of Syriac poems from the syllabi
BCom	SY2CCT 02	Poetry Grammar and History of Syriac Language and Literature	CO1	Introducing the basic grammar and vocabulary.
			CO2	Developing the skills of reading, writing and listening.
			CO3	Acquire the knowledge of origin and development of Syriac language and literature
			CO4	Recitation of Syriac poems from the syllabi
SEMESTER 2				
MALAYALAM				
BA BSc	ML2CC T02	Kavitha	CO1	General awareness in poetry.
			CO2	To identify new trends in poetry.
			CO3	Appreciate importance of poetry and life To sensitize aspects in Malayalam.
BCom	ML2CC T06	Autobiogra phy and popular articles	CO1	Realize Aesthetic power of prose in Malayalam.
			CO2	Introducing awareness about creativity in Malayalam Literature.

HINDI				
BA BSc	HN2 CCT 02	Hindi Novel and Stories	CO1	To develop students competence with reference to Hindi language and literature.
			CO2	To make students familiar with novel and stories.
BCom	HN2 CCT 02	Poetry, Commer-cial Correspon-dence and Translation .	CO1	To make the students familiar with ancient and modern Culture.
			CO2	To give an authentic knowledge about the development of literature.
			CO3	To create an awareness of the famous writers of this period.
			CO4	To know about the culture of our country through the famous works of the poets.
GERMAN				
BA History	GR2 CCT08	Communi-cative German and Transla-tions	CO1	Familiarize knowledge of grammar
			CO2	Translates short texts from German to English
			CO3	Efficiency in effective use of dialogue patterns
			CO4	Perfecting the Pronunciation of target language
BA, B.Sc	GR2 CCT02	Grammar, Translation and Communic ation	CO1	Imparts proper usage of grammar
			CO2	Increases German word power
			CO3	Enables simple conversations
			CO4	Translates seen and unseen texts of German
B.Com	GR2 CCT06	Communic ative German for Business People	CO1	Enables students to communicate in real life situations
			CO2	Learns to write Business Letters
			CO3	Imparts efficient and effective use of German Expressions
			CO4	Sufficient knowledge of grammar
SYRIAC				
BA, B.Sc.	SY2CC T01	Poetry Grammar and History of Syriac Literature	CO1	Imparts proper usage of grammar
			CO2	Increases Syriac vocabulary
			CO3	Enables simple conversations
			CO4	Imparts the knowledge of Syriac literature
B.Com	SY2CC T02	Prose Grammar and History of Syrian Church in India	CO1	Enables simple conversations
			CO2	Learns to translate the Syriac Manuscripts to English
			CO3	Familiarize the history and culture of Syrian churches in India especially in Kerala
			CO4	Sufficient knowledge of grammar.
SEMESTER 3				
MALAYALAM				
BA/ BSc	ML1C CT05	Kathayum Kavitha-yum	CO1	General awareness about Malayalam literature.
			CO2	Introducing new common trends in Malayalam literature.

HINDI				
BA/ BSc	HN3 CCT 03	Poetry Grammar and Translation	CO1	To make the students familiar with ancient and Modern Culture.
			CO2	To understand the principles and assumptions governing modern linguistic.
GERMAN				
BA, B.Sc.	GR03 CCT03	Grammar, German history and society	CO1	Applies acquired knowledge of grammar.
			CO2	Acquire knowledge of German society and culture.
			CO3	Gets a general view of Germany before and after World War II.
SYRIAC				
BA, B.Sc.	SY3C CT01	Prose Grammar and History of Syrian Church in India	CO1	Learns to translate the Syriac Manuscripts to English.
			CO2	Familiarize the history and culture of Syrian churches in India especially in Kerala.
			CO3	Enables simple conversations.
SEMESTER 4				
MALAYALAM				
BA BSc	ML2C CT06	Pathra Pravartha-nam	CO1	Introducing basics of Journalism.
			CO2	Familiarizing new trends in journalism.
HINDI				
BA BSc	HN4 CCT 04	Drama and Long Poem.	CO1	To make the students familiar with Drama and other forms of arts.
			CO2	To build a creative outlook towards life.
			CO3	To form an imaginative mindset.
GERMAN				
BA, B.Sc.	GR4 CCT04	German literature-selected readings: prose and poetry	CO1	Awareness of German literature.
			CO2	Understands history, culture and society.
			CO3	Proficiency in target language
SYRIAC				
BA, B.Sc.	SY4C CT01	Prose Grammar and History of Syrian Church in India (From 15th Century)	CO1	Awareness of literature.
			CO2	Understands history and culture of Syrians especially from 15th cen. Onwards.
			CO3	Students will be able to compare and describe the Syriac Traditions.

CORE COURSES

Name of the Programme: BA English Literature			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
EN1CR01	Methodology of Literary Studies	CO1	To introduce the student to the major signposts in the historical evolution of literary studies from its inception to the current postcolonial realm.
		CO2	Introducing the emergence of literature as a specific discipline within the humanities.
		CO3	Introducing the tenets of what is now known as traditional approaches and also that of formalism.
SEMESTER 2			
EN2CR02	Introducing Language and Literature	CO1	To introduce the student to the basics of English language and literature.
		CO2	To introduce the evolution and the differential traits of the English language till the present time.
		CO3	To introduce the evolution of literature from antiquity to postmodern times.
SEMESTER 3			
EN3CR03	Harmony of Prose	CO1	The student is given space to mature in the presence of glorious essays, both Western and Non-Western.
		CO2	To make the students familiar with varied prose styles of expression.
		CO3	To create awareness of eloquent expressions, brevity and aptness of voicing ideas in stylish language.
EN3CR04	Symphony of Verse	CO1	To acquaint the student with the rich texture of poetry in English.
		CO2	To create an understanding of the representation of poetry in various periods of the English tradition.
		CO3	To make an awareness of the emerging cultural and aesthetic expressions that poetry makes Possible
SEMESTER 4			
EN4CR05	Modes of Fiction	CO1	To acquaint students with various modes of fiction.
		CO2	The students will have comprehended the categories of British and non- British short fiction, and also the novel as a form of literary expression.
		CO3	To encourage the students to explore the realm of fiction.
EN4CR06	Language and Linguistics	CO1	Introduction to the science of linguistics. It seeks to give an overview of the basic concepts of linguistics and linguistic analysis to the students.
		CO2	To show the various organs and processes involved in

			the production of speech, the types and typology of speech sounds, segmental & supra-segmental features of the English language, and transcription using IPA.
		CO3	To describe and explain morphological processes and phenomena.
SEMESTER 5			
EN5CR07	Acts on the Stage	CO1	The course seeks to introduce the student to select theatre texts that form the canon of English drama.
		CO2	On completion of the course, the student shall be familiar with the works of the playwrights.
		CO3	Enables the student to appreciate and critique drama as an art form.
EN5CR08	Literary Criticism and Theory	CO1	The course seeks to introduce students to the major signposts in Literary Criticism, Literary Theory and Indian Aesthetics.
		CO2	On completion of the course, the student will have awareness about the major developments in literary criticism from the ancient times to the twentieth century.
		CO3	The student will be initiated to the realm of literary theory and major theoretical schools.
EN5CR09	Indian Writing in English	CO1	The course is intended to sensitize students to the various ways in which literature written in English, in the Indian sub-continent serves as a platform for forming, consolidating, critiquing and re-working the issue of national identity‘ at various levels.
		CO2	On completion of the course, the student should be aware of the subtle flavours that distinguish the Indian quotient in English writings from India.
		CO3	Teaching the different concerns that Indian English writers share, cutting across sub-nationalities and regionalities.
EN5CREN01	Environmental Science and Human Rights	CO1	Environmental Education encourages students to research, investigate how and why things happen, and make their own decisions about complex environmental issues by developing and enhancing critical and creative thinking skills. It encourages character building, and develops positive attitudes and values.
		CO2	It helps to foster a new generation of informed consumers, workers, as well as policy or decision makers.
		CO3	Environmental Education helps students to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future.
SEMESTER 6			
EN6CR10	Postcolonial Literatures	CO1	To familiarize the students the varied dimensions of postcolonial subjectivity through theory and literature.

		CO2	To make the students aware of the social, political, cultural aspects of postcolonial societies.
		CO3	To make the students realise the impact of colonialism and imperialism on native cultural identities.
EN6CR11	Women Writing	CO1	To introduce the theoretical and literary responses by women and the concerns that governs feminist literature.
		CO2	To critically respond to literature from a feminist perspective.
		CO3	To make the students realize how the patriarchal notions pervade in the social and cultural scenario and how feminism exposes these notions.
EN6CR12	American Literature	CO1	To enable the students to have a holistic understanding of the heterogeneity of American culture and to study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts.
		CO2	To make the students familiar with the evolution of various literary movements in American literature.
		CO3	To get them acquainted with the major authors in American Literary History.
EN6CR13	Modern World Literature	CO1	To make the students aware of the stupendous variety that resides in Literatures the world over.
		CO2	To discern that literatures the world over engage in very deep ways with the vicissitudes of life.
		CO3	To discern that World literatures often defy genres/ regionalities and canonical assumptions to emerge as a platform where poetics and politics fuse.

Name of the Programme: BA Malayalam			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
ML1CRT 01	Modern Poetry	CO1	To sensitize aspects in Malayalam poetry
		CO2	To identify new trends in poetry
		CO3	Scope of cyber literature
SEMESTER 2			
ML2CRT 02	Malayala Kavitha Ezhuthachan Muthal Kavithraym vare	CO1	Familiarize poetry from medival to modern trio
		CO2	Familiarizing new trends in medieval poetry
SEMESTER 3			
ML3CRT 03	Kerala Samskaram	CO1	Familiarizing Culture of Kerala through historical method.
		CO2	Introducing historical events as cultural relations.

SEMESTER 4			
ML4CRT 04	Kerala Culture after Medieval	CO1	A general awareness of rise of middle class imperialism.
		CO2	General awareness in missionary moments and so on.
SEMESTER 5			
ML5CRT 05	Paristhini Vinjanavum Manushyavakasa Padanavum	CO1	Introducing basic environmental knowledge and eco system.
		CO2	Introducing basics of human right laws.
ML5CRT 06	Sahithya Meemamsa	CO1	Introducing aesthetic theories of east and west.
		CO2	Recognize the influence of world philosophy in Malayalam literature and so on
ML5CRT 07	Cherukatha, Novel	CO1	Introducing ages of short story and novels
		CO2	Familiarizing Cultural changes through Dalit and Feminine Studies
ML5CRT 08	Bhashah Sasthram	CO1	Introducing General awareness about linguistics
		CO2	Recognize the importance of further research in linguistics
SEMESTER 6			
ML6CRT 09	Keraleeya Dhrishyakala	CO1	Introducing social importance and Aesthetics of visual arts
		CO2	Realizing literary values of visual arts of Kerala.
ML6CRT 10	Pracheena Sahithyam	CO1	Introducing general awareness about evolution of Malayalam Language.
		CO2	Appreciate different attitudes in ancient Malayalam literature.
ML6CRT 11	Gadhya-sahithyam Niroopanam	CO1	Introducing some milestones in Malayalam prose.
		CO2	Realizing different areas of prose.
ML6CRT 12	Vyakaranam, Bhasha Charithram	CO1	Realizing basics of phonetics
		CO2	Acquiring proper steps of phonetics

Name of the Programme : BA Economics			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
EC1CRT 01	Perspectives and Methodology of Economics	CO1	It identifies the main concerns of social science disciplines
		CO2	It articulates the basic terminology and theories prevalent across various disciplines.
		CO3	It helps to understand qualitative and quantitative models within the social sciences, especially Economics
SEMESTER 2			
EC2CRT 02	Micro Economic Analysis 1	CO1	It gives the foundation for economic analysis and problem solving.

		CO2	It introduces a framework for learning about consumer behaviour and analyzing consumer decisions.
		CO3	The course also attends to firms and their decisions about optimal production.
		CO4	This course provides an introduction to supply and demand and the basic forces that determine equilibrium in a market economy.
SEMESTER 3			
EC3CRT 03	Micro Economic Analysis- II	CO1	This course is designed to provide basic understanding of micro economic concepts.
		CO2	Students are provided with the working and performance of firms in the market.
		CO3	It deals with behavior of economic agents – consumer, producer, factor owner – price fluctuations in the market.
EC3CRT 04	Economics of Growth & Development	CO1	This courser enables the students to understand the theories and strategies of growth and development.
		CO2	It imparts knowledge about the issues relating to sustainable development, environmental protection and pollution control measures.
		CO3	IT makes the students more insightful about modern approaches to development.
SEMESTER 4			
EC4CRT 05	Macro Economics 1	CO1	This paper provides the students the information regarding the theory of cost, market performance and welfare economics.
		CO2	This course also makes a picture regarding the cost analysis which seems to be integral to their life.
		CO3	It also aids the students to know more about the theoretical background of market structure
EC4CRT 06	Public Economics	CO1	The purpose of this course is to give an understanding of the role of state in fostering the economic activities via budget and fiscal policies.
		CO2	Students get a chance to know about the financial position of the country.
		CO3	This course enables the students to understand the various issues between Central and State Governments.
SEMESTER 5			
EC5CRT0 8	Macro Economics II	CO1	This course is designed to make the students aware of the theoretical aspects of Macro economics.
		CO2	It helps the students to think issues which are a nature of economy as a whole.
		CO3	It presents macro economic trends of various variables and the theory behind it.
EC5CRT0 9	Environmental Economics	CO1	This course imparts an awareness regarding the issues like environment conservation and climate change
		CO2	It also emphasizes the need of environmental protection and its role in economic development.

		CO3	It gives an account on the role of human beings in preserving nature and nurture human values
EC5CRT 10	Introductory Econometrics	CO1	IT introduces various concepts and application of econometrics.
		CO2	It helps the students to know the interrelationship between econometric variables.
		CO3	It also provides an access to mathematical and econometric methods which are employed for economic measurement.
SEMESTER 6			
EC6CRT 12	International Economics	CO1	The objective of this course is to arrive at an understanding of theories of international trade
		CO2	It examines the impact of the trade policies on the world economy.
		CO3	It helps the students to know about the recent trade relations of the country.
EC6CRT 13	Money & Financial markets	CO1	The present course is designed to acquaint the students with the changing role of the financial sector of the economy.
		CO2	It introduces the students the functioning of stock markets in India
		CO3	The stake-holders are to familiarize with the basic concepts, the financial institutions and markets.
EC6CRT 14	Indian Economy	CO1	The objective of the course is to equip the students with the theoretical, empirical
		CO2	This course discusses the policy issues relating to the society, polity and economy of India.
		CO3	It also highlights the recent economic problems which are crucial for the growth of economy.

Name of the Programme : BA History with Archaeology and Museology(Vocational) Model II

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
HY1CRT 01	Perspectives and Method-ologies in Social Sciences – History	CO1	An introduction about different methodologies of social sciences

SEMESTER 2			
HY2CRT 02	Understanding Early India: From Hunting Gatherers to Land Grants.	CO1	An idea about the life of man and the evolution process of different institutions in early India
SEMESTER 3			
HY3CRT 03	Polity, Society and Economy in Pre Colonial Period.	CO1	Creates an awareness about the socio-economic- political and cultural life of medieval India
HY3CRT 04	Cultural Trends in Pre Colonial Kerala	CO1	Creates knowledge about colonial relations and maritime trade.
SEMESTER 4			
HY4C RT05	Making of Modern Kerala	CO1	Imbibe an awareness about freedom struggle of Kerala, origin of Marxist ideologies, nationalism, unification of Kerala and role of people in the freedom struggle
HY4CRT 06	Researching the Past	CO1	Develops historical perspectives and inspire the student to make their own understanding of various schools of historiography and inspire them to create their own perspectives that enables them to anchor in an area of research.
SEMESTER 5			
HY5CRT 07	Inheritance and Departures in Historiography	CO1	Gain knowledge about the perspectives of past that evolved and to grasp why history came to be rewritten differently from time to time and under what conceptual presuppositions.
HY5CRT 08	India: Nation in the Making	CO1	Emphasis on the study of the struggle for independence in India.
HY5CRT 10	Environmental Studies and Human Rights in Historical Outline	CO1	To understand about various aspects , concepts, issues and movements related to the growth of environmental studies and environmental history of India.
		CO2	To learn about various environmental impacts and climate changes
HY5VOT17	Systems of Museology	CO1	Students learn basics of museum, collection, documentation, exhibition, conservation and legislations relating to museums.
		CO2	Students will learn the basic conservation of structures and monuments
		CO3	Students also will learn the significance of preservation of cultural heritage

SEMESTER 6			
HY6CRT 11	Making of Contemporary India	CO1	To analyse and examine the emergence of Modern India.
		CO2	To generate a healthy nationalist feeling.
		CO3	To make students aware about the political, though, economic and social situation of contemporary India
HY6CRT 12	Understanding Modern World	CO1	To learn about the various political, social and economic aspects of contemporary world.
		CO2	To provide good awareness about the major social revolutions of the modern world.
HY6CRT 13	Capitalism and Colonialism	CO1	To learn about the expansion of colonies across the world.
		CO2	To study about various theories related to Marxism, Capitalism and Colonialism
HY6VOT18	Understanding Ancient Indian History through Archaeology	CO1	On the successful completion of this course the students will able to identify the coins.
		CO2	To understand the development of coinage in ancient India.
		CO3	Students will be able to read the scripts in inscriptions

Name of the Programme: BA Political Science			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
PS1CRT 01	Methodology and Perspectives of Political Science	CO1	The course will provide knowledge by studying the historical evolution of modern social scientific practices as well as the changing concerns in the modern and post-modern conditions.
		CO2	The course also seeks to provide some ideas on the major debates in the social scientific methodologies and also to inquire certain core concepts in political science.
SEMESTER 2			
PS2CRT 02	Indian Constitution: Institutions and Processes	CO1	The course is helpful to the students to understand the historical evolution of democratic political system in India.
		CO2	To trace the constitutional developments in India
		CO3	To inquire on the basic structures and values of Indian political system.
		CO4	It also deals with the evolution of constitutional and statutory institutions in India.

SEMESTER 3			
PS3CRT 03	Issues and Political Processes in Modern India	CO1	It will help the students to understand a growing trend of assertion of autonomy on the part of the states.
		CO2	It also emphasizes on local influences that derive from social stratification of castes, from languages, religions and ethnic determinants and critically assess its impact on the political processes
PS3CRT 04	Political Thought: Indian Traditions.	CO1	Political philosophy is a product that encourages our quest for good life and good society.
		CO2	Values as well as facts are indispensable part of Political Philosophy which enables us to undertake a critical and coherent analysis of political institutions and activities.
SEMESTER 4			
PS4CRT 05	Introduction to Political Theory.	CO1	The course introduces various approaches and traditions in political theory and also engages with aspects of state, nation, sovereignty and political system etc.
		CO2	The course seeks to achieve this understanding by studying the changing concerns of political theory in the pre-modern, modern and postmodern conditions.
		CO3	The course also intends to generate some fruitful discussions on public policies in contemporary democracies on the basis certain normative concepts like rights, equality, justice, democracy and so on.
PS4CRT 06	Political Thought: Western Traditions.	CO1	The course seeks to recognize the continuity and change in the grand traditions of political thought in the Western world.
		CO2	It further engages with the central ideas and values of political texts and also traces the empirical and normative justifications provided by various political thinkers in the case of state, authority, justice, equality, political obligation and so on.
SEMESTER 5			
PS5CRT 07	Theories and Principles of Public Administra-tion	CO1	The course explores some contemporary social values and how the call for greater democratization and how far it is restructuring the realm of public administration.
		CO2	The course will also attempt to provide the student some practical hands-on understanding on contemporary administration and policy concerns.
PS5CRT 08	Environmental Studies and Human Rights	CO1	Environmental Education encourages students to research, investigate how and why things happen, and make their own decisions about complex environmental issues by developing and enhancing critical and creative thinking skills.
		CO2	It helps to foster a new generation of informed consumers, workers, as well as policy or decision makers.
		CO3	Environmental Education helps students to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future.

PS5CRT 09	Methodology of Research in Political Science	CO1	It provides an idea of preparing a Research design,
		CO2	To understand various techniques of Data collection
		CO3	To analyse data and writing reports.
PS5CRT 10	Introduction to International Relations	CO1	To equip students with the basic intellectual tools for understanding International Relations.
		CO2	To contextualize the evolution of the international state system and discussing the agency-structure problem through the levels-of-analysis approach.
		CO3	Students are introduced to different theories in International Relations
SEMESTER 6			
PS6CRT 11	Comparative Politics	CO1	The historical backgrounds to individual constitutions are to be emphasized to gain an understanding of its evolution.
		CO2	The comparative perspective enables the student to understand the differences and similarities between the various constitutional arrangements
PS6CRT 12	Society, State and Political Processes in Kerala	CO1	It provides a detailed analysis of the socio-political evolution political processes, structures & social movements in the state of Kerala.
		CO2	To equip the student's skills in analyzing key issues in Kerala politics and society
PS6CRT 13	Issues in International Politics	CO1	This course provides insights into significant issues that inherently occupy the global political space in the post-Cold War era.
		CO2	The course introduces students to the important debates within the globalization discourse.
		CO3	The course also offers vital understanding of contemporary global concerns such as environmental issues, the proliferation of nuclear weapons, global terrorism, and human security.
PS6CRT 14	Human Rights	CO1	The learner gets an opportunity to understand about various rights, including political, civil, social, economic and cultural rights.
		CO2	It also provides an information concerning issues relating to human rights, judicial independence and the rule of law.

Name of the Programme: BA English Language and Communication Studies

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
EN1CRT 01	Methodology of Literary Studies	CO1	At the end of the course students would be familiar with the different tenants of what is known as traditional approaches and formalism

		CO2	Would be oriented towards contextual, political critiques of literary studies
		CO3	Would be familiar with the issues of sub alternity and rationality
EN1CST 01	English in Informal situations	CO1	At the end of the course the students would be able to converse in English with high degree of accuracy and fluency.
		CO2	To be capable of answering questions of a conversational nature and to have a command of arrange of questions to elicit information from other people with an awareness of contextual appropriateness
		CO3	To take part with confidence in conversation, to initiate, sustain and close a conversation.
EN1CST 02	Conversational skills	CO1	At the end of the course the students would be aware of the nuances of spoken forms of English
		CO2	Would be experts n speech sounds and the phonological aspects of English.
		CO3	Would develop more accuracy in pronunciation and diction
		CO4	Would be familiar with the intonation patterns of English.
SEMESTER 2			
ENCRT02	Introducing language and literature.	CO1	At the end of the course the students would be able to understand the evolution and the differential traits of the English language till the present time.
		CO2	The evolution of literature from antiquity to postmodern times.
		CO3	The diversity of genres and techniques of representation and narration
		CO4	The links between literature and film as narrative expressions
EN2CST 03	Introduction to Communication	CO1	Would become conversant with key terms of communication
		CO2	Would be able to deliver effective messages based on audience and concepts.
		CO3	Would relate theoretical knowledge with practical issues
EN2CST 04	Business Communication	CO1	Would be able to use current technology related to communication.
		CO2	Would be able to use of various types of oral, written and communication to the range of business communication.
		CO3	Would be effective business writers
		CO4	Would be professional communicators
SEMESTER 3			
EN3CRT 05	Indian writing	CO1	Would be aware of the subtle flavours that distinguishes the Indian quotient In English writing in India
		CO2	Would be aware of the different issues the Indian writers share.
		CO3	Would be acquainted with the diasporic Indian writers

EN3CRT 04	Symphony of Verse	CO1	Would be familiar with the different genres of poetry
		CO2	Would be familiar with poetry of various ages of literature
		CO3	Would be familiar with the diction, language and technique of poetry
		CO4	Would familiar with rhetorical devices such as figures of speech ,rhymes, and meters
EN3CRT 03	Harmony of prose	CO1	Would be familiar with varied prose styles of expression.
		CO2	Would be able to aware of eloquent expressions, brevity and aptness of voicing ideas in stylish language
		CO3	Would be familiar with the celebrated prose writers of the west and east
EN3 CST05	Print media and journalism	CO1	Would understand the history of Indian journalism and its pioneers
		CO2	Would understand the role of journalism in Indian freedom struggle
		CO3	Would understand the importance of freedom of press.
		CO4	Would understand the consequence of censorship on press
SEMESTER 4			
EN4 CST06	Print media and journalism 2	CO1	Would become a member of a global community of journalism by knowing the various qualities, responsibilities and work profiles.
		CO2	Would have a know-how of the making of a news paper
		CO3	Would understand the role of editing and editor in the print media
EN4 CRT05	Modes of fiction	CO1	Would understand the different genres of fiction
		CO2	Would be able to distinguish between fiction and non-fiction
		CO3	Would be able to differentiate the difference between realism and fantasy.
		CO4	Would be acquainted with the different categories of British and non-British writers
EN4 CRT06	Language and linguistics	CO1	Would be acquainted himself with the various organs and process involved in the production of speeches.
		CO2	Would be thorough in phonology, morphology and semantics
		CO3	Would be equipped to speak English in right accent and diction
		CO4	Would be familiar with modern concepts of grammar
EN4 CRT07	Acts on the Stage	CO1	Would be familiar with different genres of plays
		CO2	Would be able to appreciate and critique drama as an art revolution
		CO3	Would be familiar with British and non-British play writers
		CO4	Would understand the techniques of making of dramas

SEMESTER 5			
EN 5 CST07	Creative writing and Translation Studies	CO1	Students would gain competency in communication in all situations with emphasis on figurative usage
		CO2	Would have a know-how of formal and informal writing
		CO3	Would achieve creativity in writing and translation
		CO4	Would understand the different technique of translations and its hassles
EN5 CST08	Mass Communication and Broad Casting	CO1	Would have a practical knowledge of the principles of Mass communication and journalism.
		CO2	Would have hands on experience on radio programming
		CO3	Would have critical and analytical thinking in appreciating movies
		CO4	Would develop ethical journalism
EN5 CST09	Public Relation 1	CO1	Would demonstrate the understanding of the fundamentals of PR
		CO2	Would be skilled and Professional PR.
		CO3	Would possess a thorough understanding of the history of PR
		CO4	Would be able to discern the roles and responsibility of departments in an establishment
EN 5 CROPG03	English for Careers	CO1	Would the skills needed to be an active participant in a conversation.
		CO2	Would develop communication skills
		CO3	Would acquire the techniques in making effective presentations processes
		CO4	Would be competent in the global market
SEMESTER 6			
EN6CST 11	Visual Media	CO1	Would be familiar with the principles, functions and characteristics of Visual Media
		CO2	Would acquire the skills required for editing films
		CO3	Would be aware of film censorship and its criteria
		CO4	Would imbibe the production techniques of film making
EN6 CST12	PR 2	CO1	Would have hands on experience in organizing PR campaign
		CO2	Would demonstrate an understanding on managing various organizational emergencies based on their practical .knowledge
		CO3	Would be able to make PR interventions to manage specific issues
		CO4	Would imbibe the ethics of PR
EN6 CST10	Entrepreneurship Development	CO1	Would understand the role of an entrepreneur in economic development.
		CO2	Would be capable of floating SS industries.
		CO3	Would imbibe the skills required for making a new business plan

EN6CST 13	Office Administration and HR Management	CO1	Would understand the basic and management functions of an office
		CO2	Would understand the responsibilities and functions of an office manager
		CO3	Understand the nature and characteristics and functions of HR management
		CO4	Would develop the of HR planning and recruitment

Name of the Programme: BSc Mathematics			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
MM1CRT01	Foundations of Mathematics	CO1	Familiarize mathematical terminologies and symbols, notations, propositional logic, equivalences etc.
		CO2	Develop standard methods of proofs.
		CO3	Learn methods to solve equations, transformed equations, cubic, bi-quadratic and reciprocal equations.
		CO4	Relate factor theorem and remainder theorem.
SEMESTER 2			
MM2CRT01	Analytic Geometry, Trigonometry and Differential Calculus	CO1	Find the equation to tangent, normal at a point on a conic.
		CO2	Find the polar equation of a line, circle, tangent and normal to conics.
		CO3	Familiarize real and imaginary parts of a circular and hyperbolic functions of a complex variable.
		CO4	Familiarize successive differentiation and indeterminate forms.
SEMESTER 3			
MM3CRT01	Calculus	CO1	Find the higher order derivative of the product of two functions.
		CO2	Expand a function using Taylor's and Maclaurin's series.
		CO3	Conceive the concepts of convexity, envelopes and asymptotes.
		CO4	Learn about partial derivatives and its applications.
SEMESTER 4			
MM4CRT01	Vector Calculus, Theory of Numbers and Laplace Transform	CO1	Acquaint with the concept of vector valued functions and its curvature, torsion, directional derivatives.
		CO2	Extend the tools of integral calculus to vector valued functions.
		CO3	Apply Greens Theorem, Stokes Theorem, Gauss divergence theorem for evaluation of line, surface and volume integrals.
		CO4	Get familiar with the Number system and related concepts.

SEMESTER 5			
MM5CRT01	Mathematical Analysis	CO1	The learner understands the structure and properties of the real number system.
		CO2	Study the basic topological properties of the real numbers.
		CO3	Have the knowledge of the sequence of real numbers and convergence.
		CO4	The student will be able to construct rigorous mathematical proofs of basic results in real analysis.
MM5CRT02	Differential Equations	CO1	Recognize and solve separable, exact, homogeneous and non-homogeneous ordinary differential equations.
		CO2	Convert certain types of differential equations to exact form by using integrating factors.
		CO3	Solve second order ordinary differential equations.
		CO4	Use power series method to solve differential equations.
MM5CRT03	Abstract Algebra	CO1	Understand basic algebraic concepts like binary operations, groups, cosets, rings, ideals etc.
		CO2	Know how to construct new groups by taking quotients and direct products
		CO3	Prove classical theorems like Lagrange's theorem and Cayley's theorem.
		CO4	Learn how to relate different algebraic objects by homomorphisms and isomorphisms
MM5CRT08	Human Rights and Mathematics for Environmental Studies	CO1	Address complex environmental issues, and take necessary steps to keep our environment healthy and sustainable for the future
		CO2	Have a brief idea of Fibonacci numbers and Golden ratio
		CO3	Learn the idea of Human Rights and study its importance
SEMESTER 6			
MM6CRT01	Real Analysis	CO1	Have the knowledge of the series of real numbers and convergence.
		CO2	Determine the Riemann integrability of a bounded function and establish properties of integrable functions.
		CO3	Recognize the difference between point-wise and uniform convergence of sequences and series of functions.
		CO4	Develop a higher level of mathematical maturity combined with the ability to think analytically.
MM6CRT02	Graph Theory and Metric Spaces	CO1	Write precise and accurate mathematical definitions of objects in Graph theory
		CO2	Analyze different properties that depend on the connectivity of a graph
		CO3	Understand Euclidean distance and generalize that idea to arbitrary sets.
		CO4	Extend the concepts like convergence and limits of analysis to Metric spaces
MM6CRT03	Complex Analysis	CO1	Learn about Complex valued functions and determine whether a given function is differentiable
		CO2	Comprehend what an analytic function

		CO3	Understand Complex integration
		CO4	Identify and classify Singular points to use in Complex integrals
MM6CRT04	Linear Algebra	CO1	To Solve systems of linear equations.
		CO2	Comprehend the concept of Vector spaces.
		CO3	Learn deeply about linear transformations and represent them in matrix form.
		CO4	Determine eigenvalues of a given matrix and use it to diagonalize the given matrix.

Name of the Programme : BSc Physics			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
PH1CRT01	Methodology and perspectives of Physics	CO1	Create Awareness on the History of Physics, giving emphasis on the contributions of great scientists.
		CO2	Introduce the mathematical methods physicists often use, including differential, integral and vector calculus, curvilinear coordinates etc.
		CO3	Study the principles of various measuring instruments, errors and its propagation.
SEMESTER 2			
PH2CRT02	Mechanics and properties of matter	CO1	Empower the student to acquire engineering skills and practical knowledge, useful in their everyday life.
		CO2	Learn the basics of properties of matter, demonstrate how Young's modulus and rigidity modulus are defined and how they are evaluated.
		CO3	Understand the working of different types of pendulum, study the elastic behaviour of materials, surface tension and viscosity of fluids etc.
		CO4	Learn the fundamentals of harmonic oscillator model, including damped and forced oscillations.
SEMESTER 3			
PH3CRT03	Optics, laser and fiber optics	CO1	Use the principles of wave motion and superposition to explain the physics of polarisation, interference and diffraction.
		CO2	Understand the basics of modern optics like Lasers, Fiber optics and holography.
		CO3	Solve problems in optics by selecting the appropriate equations and performing numerical or analytical calculations.
SEMESTER 4			
PH4CRT04	Semiconductor Physics	CO1	Understand the fundamentals of diodes and their applications.

		CO2	Analyse the characteristics of transistor and transistor biasing circuits, integrated circuits, modulation etc.
		CO3	Gain basic ideas on construction and working of electronic devices and circuits and communication systems.
		CO4	Apply the principles of electronics in day today life.
SEMESTER 5			
PH5CRT05	Electricity and Electro-dynamics	CO1	Gain elaborated knowledge about electrostatics and laws governing the charge distribution.
		CO2	Realize the importance of Maxwell's equations, displacement current and wave propagation
		CO3	Study in depth the transient current response which is essential in designing as well as understanding the working of circuits.
		CO4	Solve complex problems involving linear electrical networks employing the symmetry concepts together with various network theorems.
PH5CRT06	Classical and quantum mechanics	CO1	Study different frames of references, constraints, Lagrangian and Hamiltonian formalisms etc.
		CO2	Realize the inadequacies of classical mechanics that lead to the development of quantum concepts.
		CO3	Grasp the idea of Wave Mechanics, the concept of eigen values, eigen functions and learn the basic postulates of quantum mechanics
		CO4	Formulate and solve Schrödinger's equation for many systems such as particle in a box, potential barrier, Harmonic oscillator etc.
PH5CRT07	Digital electronics and programming	CO1	Understand the fundamentals of codes and number system, binary arithmetic, logics and boolean functions.
		CO2	Study the design and working of various combinational and sequential logic circuits.
		CO3	Develop a greater understanding of the issues involved in programming language design and implementation
		CO4	Train the students the basic concepts of object oriented programming languages and provide exposure to problem solving through programming in C++
PH5CRT08	Environmental Physics and human rights	CO1	Prepare students for careers as leaders in understanding and addressing complex environmental issues from a problem oriented interdisciplinary perspective.
		CO2	Master core concepts and methods from ecological and physical sciences and application in environmental problem solving.
		CO3	Understand human rights, its protection and activities against it in a global perspective.
SEMESTER 6			
PH6CRT09	Thermal and statistical Physics	CO1	Understand the central concepts and basic formalisms of specific heat, entropy, quantum theory of radiation etc.
		CO2	acquire knowledge in heat transfer, production of low temperature, liquefaction of gases etc.

		CO3	Study the statistical distribution of particles, ensembles, classical and quantum statistics etc.
PH6CRT10	Relativity and spectroscopy	CO1	Provide an idea of Galelian and Lorentz transformations and effects of special relativity which has significance in high energy Physics.
		CO2	Gain deeper understanding of interaction between matter and radiation.
		CO3	Study the principle and instrumentation of various spectrometers including NMR and ESR systems.
PH6CRT11	Nuclear, particle Physics and astrophysics	CO1	Understand the concepts and potential applications nuclear and particle Physics.
		CO2	Apply general considerations of quantum physics to atomic and nuclear systems.
		CO3	Expand and evaluate the theoretical predictions on nuclear models and nuclear reactions.
		CO4	Understand the evolution of stars and other heavenly bodies.
PH6CRT12	Solid state Physics	CO1	Outline the importance of solid state Physics in the modern society.
		CO2	Explore the relationships between chemical bonding & crystal structure and their effects.
		CO3	Study the conduction mechanism in solids including superconductors.
		CO4	Transfer the knowledge level from theoretical physical subjects towards the understanding of basic properties of solid state matter.

Name of the Programme : BSc Chemistry			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
CH1CRT01	General and Analytical Chemistry	CO1	This part of the syllabus will impart an interest in studying chemistry
		CO2	students are getting more ideas about theoretical and experimental Chemistry
		CO3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.
SEMESTER 2			
CH2CRT02	Theoretical and Inorganic Chemistry	CO1	By studying this part of the syllabus students are getting basic ideas of chemistry, which enables them to build a better foundation

		CO2	The course aims to inculcate an atomic/molecular level thinking in the minds of the students
		CO3	It also develops an interest in various branches of inorganic chemistry.
SEMESTER 3			
CH3CRT03	Organic Chemistry-1	CO1	For a thorough understanding in Organic Chemistry an undergraduate student need to be exposed to three fundamental aspects: structure, reaction dynamics and synthesis
		CO2	The curriculum is so designed as to fulfil these objectives
		CO3	The philosophy adapted in choosing the topics is to provide sufficient Chemistry for the reactions and also to minimize the unnecessary repetition of materials found in higher secondary classes.
SEMESTER 4			
CH4CRT04	Organic Chemistry-II	CO1	After studying basic ideas in SEMESTER III students are getting thorough knowledge about the chemistry of some selected functional groups with a view to develop proper aptitude towards the study of organic compounds and their reactions.
SEMESTER 5			
CH5CRT05	Environment, Ecology and Human rights	CO1	Students will possess the intellectual flexibility necessary to view environmental questions from multiple perspectives, prepared to alter their understanding as they learn new ways of understanding.
		CO2	Students will solve problems systematically, creatively, and reflexively, ready to assemble knowledge and formulate strategy
		CO3	When encountering environmental problems students will assess necessary scientific concepts and data, consider likely social dynamics, and establish integral cultural contexts.
CH5CRT06	Organic Chemistry -III	CO1	This part of the syllabus gives the idea of prediction of mechanisms for organic reactions
		CO2	How to use their understanding of organic mechanisms to predict the outcome of reactions
		CO3	How to design syntheses of organic molecules and how to determine the structure of organic molecules using IR and NMR spectroscopic techniques
CH5CRT07	Physical Chemistry -I	CO1	The objective of this academic plan is to make the concepts and methods of physical chemistry clear and interesting to students, who have basic ideas in mathematics and physics
		CO2	The underlying theory of chemical phenomena is completed, and so it is a challenge to make the most important concepts and methods understandable to undergraduate students.

CH5CRT08	Physical Chemistry -II	CO1	The objective of this academic plan is to make the concepts and methods of physical chemistry clear and interesting to students, who have basic ideas in mathematics and physics
		CO2	The underlying theory of chemical phenomena is completed, and so it is a challenge to make the most important concepts and methods understandable to undergraduate students.
SEMESTER 6			
CH6CRT09	Inorganic Chemistry	CO1	By considering the rapid development in the field of inorganic chemistry since the late 1950's it has become necessary that an undergraduate chemistry student should gain perspective on the past, without compromising the modern developments.
		CO2	An inorganic chemistry student is expected to be conversant with the chemistry of all the elements and has been closely allied with analytical chemistry, with physical chemistry and even with organic chemistry
CH6CRT10	Organic Chemistry-IV	CO1	This part of the curriculum deals with biological aspects of chemistry, which help students to understand medicinal chemistry, useful in daily life
		CO2	By studying the details of Natural products students can get the job of chemist in medicinal companies
CH6CRT11	Physical Chemistry-III	CO1	This part of the syllabus covers Thermodynamics, Equilibrium and Kinetics, three important topics in chemistry, which will help students to get foundation for further studies
		CO2	The main advantage of the syllabus is that students are getting enough information about the speed and energy requirements for chemical reactions.
CH6CRT12	Physical Chemistry -IV	CO1	Physical chemistry is one of interesting area for many students, in this part of the syllabus students are gathering information about Solution Chemistry
		CO2	What makes it interesting is that students have an idea about the reactions that takes place in solutions, which are beyond their imagination.

Name of the Programme: BSc Botany			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
BO1CRT01	Methodology of science and introduction to Botany	CO1	To acquire fundamental knowledge in plant science and diversity of plants.
		CO2	To understand the universal nature of science.
		CO3	To demonstrate the use of scientific method.
		CO4	To develop basic skills to study Botany in detail.

SEMESTER 2			
BO2CRT 02	Microbiology, Mycology and Plant Pathology	CO1	To understand the world of microbes, fungi and lichens.
		CO2	To understand mechanism of various physiological processes related to plant life.
		CO3	To study the pathological importance of microorganisms.
		CO4	To enable the students to identify and culture different types of microbes.
SEMESTER 3			
BO3CRT 03	Phycology and Bryology	CO1	To make the students understand objectives and components of taxonomy.
		CO2	To study the evolutionary importance of algae.
		CO3	To understand the unique features of algae and bryophytes.
		CO4	To realize the applications of Phycology in different fields.
SEMESTER 4			
BO4CRT 04	Pteridology, Gymnosperms and Paleobotany	CO1	To understand the different plant organs with their functions.
		CO2	To enhance the botanical knowledge on Paleobotany.
		CO3	To study the anatomical variations in vascular plants.
		CO4	To understand the significance of paleobotany and its applications.
SEMESTER 5			
BO5CRT 05	Anatomy, Rep. Botany and Micro-technique	CO1	To study the internal structure of evolved group of plants.
		CO2	To understand the individual cells and also tissues.
		CO3	To understand the morphology and development of reproductive parts.
		CO4	To get an insight into the fruit and seed development.
BO5CRT 06	Research Methodology, Biophysics and Biostatistics	CO1	Equip the students to conduct research and prepare research report.
		CO2	To make the students understand the different tools and techniques used in research.
		CO3	To equip the students with basic computer skills.
		CO4	To enable the students numerical skills necessary to carry out research.
BO5CRT 07	Plant Physiology and Biochemistry	CO1	To acquire the basic knowledge of plant functioning.
		CO2	To understand the basic skills and techniques related to plant physiology.
		CO3	To understand the role of biomolecules in plant life.
		CO4	To understand structure and importance of biomolecules associated with plant life.
BO5CRT 08	Environmental science and Human rights	CO1	To understand the significance of environmental science.
		CO2	To make the students aware about the extent of the total biodiversity.
		CO3	To enable the students to understand the structure and function of ecosystem.
		CO4	To make the students aware about various env. laws in India.

SEMESTER 6			
BO6CRT 09	Genetics, Plant Breeding and Horticulture	CO1	To understand the principles of heredity.
		CO2	To understand the patterns of inheritance in different organisms.
		CO3	Understand the methods of crop improvement.
		CO4	To develop skills in gardening techniques in students.
BO6CRT 10	Cell and molecular Biology	CO1	To understand the ultrastructure and functioning of cells.
		CO2	Familiarization of life processes.
		CO3	To understand the basic and scientific aspects of diversity.
		CO4	To understand DNA as the basis of heredity and variation.
BO6CRT 11	Ang.morpho-logy, Taxonomy and Eco.Botany	CO1	To understand the aims, objectives and significance of Taxonomy.
		CO2	To identify the common species of plants growing in Kerala.
		CO3	To understand the basic techniques in the preparation of herbarium.
		CO4	Familiarize the plants having immense economic importance.
BO6CRT 12	Bio-technology and Bio-informatics	CO1	Understand the current developments in the field of Biotechnology.
		CO2	Equip the students to carry out plant tissue culture.
		CO3	Introduce the vast repositories of Biological data knowledge.
		CO4	To equip the students to access and analyze data available in databases.

Name of the Programme: BSc Zoology			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
ZY1CRT 01	General Perspectives In Science & Protistan Diversity	CO1	To create an awareness on the basic philosophy of science, concepts and scope.
		CO2	To understand different levels of biological diversity through the systematic classification.
		CO3	To familiarize taxa level identification of animals.
		CO4	To make interest in Protistan diversity.
		CO5	To impart knowledge on parasitic forms of lower invertebrates.
SEMESTER 2			
ZY2CRT 02	Animal Diversity - Non Chordata	CO1	To create appreciation on diversity of life on earth.
		CO2	To understand different levels of biological diversity through the systematic classification of invertebrate fauna.

		CO3	To familiarize taxa level identification of animals.
		CO4	To understand the evolutionary significance of invertebrate fauna.
		CO5	To instill curiosity on invertebrates around us.
		CO6	To impart knowledge on parasitic forms of lower invertebrates.
SEMESTER 3			
ZY3CRT 03	Animal Diversity – Chordata	CO1	To acquire in depth knowledge on the diversity of chordates and their systematic position
		CO2	To make them aware of the economic importance of some classes
		CO3	To understand the evolutionary importance of selected chordate groups
SEMESTER 4			
ZY4CRT 04	Research Methodology, Biophysics and Biostatistics	CO1	To familiarise the learner the basic concept of scientific method in research process.
		CO2	To have a knowledge on various research designs.
		CO3	To develop skill in research communication and scientific documentation.
		CO4	To create awareness about the laws and ethical values in biology.
		CO5	To equip the students with the basic techniques of animal rearing collection and preservation.
		CO6	To help the student to apply statistical methods in biological studies.
SEMESTER 5			
ZY5CRT 05	Environmental Biology and Human Rights	CO1	To instill the basic concepts of Environmental Sciences, Ecosystems, Natural Resources, Population, Environment and Society.
		CO2	To make the students aware of natural resources, their protection, conservation, the factors polluting the environment, their impacts and control measures
		CO3	To teach the basic concepts of toxicology, their impact on human health and remedial measures
		CO4	To create a consciousness regarding Biodiversity, environmental issues & conservation strategies.
		CO5	To develop the real sense of Human rights – its concepts & manifestations.
ZY5CRT 06	Cell Biology and Genetics	CO1	To understand the structure and function of the cell as the fundamentals for understanding the functioning of all living organisms.
		CO2	To make aware of different cell organelles, their structure and role in living organisms.
		CO3	To develop critical thinking, skill and research aptitudes in basic and applied biology.

		CO4	To emphasize the central role of genes and their inheritance in the life of all organisms.
ZY5CRT 07	Evolution, Ethology & Zoo-geography	CO1	To acquire knowledge about the evolutionary history of earth - living and non-living.
		CO2	To acquire basic understanding about evolutionary concepts and theories.
		CO3	To study the distribution of animals on earth, its pattern, evolution and causative factors.
		CO4	To impart basic knowledge on animal behavioural patterns and their role.
ZY5CRT 08	Human Physiology, Biochemistry and Endocrinology	CO1	This course will provide students with a deep knowledge in biochemistry, physiology and endocrinology.
		CO2	Defining and explaining the basic principles of biochemistry useful for biological studies for illustrating different kinds of food, their structure, function and metabolism.
		CO3	Explaining various aspects of physiological activities of animals with special reference to humans.
		CO4	Students will acquire a broad understanding of the hormonal regulation of physiological processes in invertebrates and vertebrates.
		CO5	By the end of the course, students should be familiar with hormonal regulation of physiological systems in several invertebrate and vertebrate systems.
		CO6	This also will provide a basic understanding of the experimental methods and designs that can be used for further study and research.
		CO7	The achievement of above objectives along with periodic class discussions of current events in science, will benefit students in their further studies in the biological/physiological sciences and health-related fields, and will contribute to the critical societal goal of a scientifically literate citizenry.
SEMESTER 6			
ZY6CRT 09	Developmental Biology	CO1	To achieve a basic understanding of the experimental methods and designs that can be used for future studies and research
		CO2	To provide the students with the periodic class discussions of current events in science which will benefit them in their future studies in the biological/physiological sciences and health-related fields
		CO3	To contribute to critical societal goal of a scientifically literate citizenry.
ZY6CRT 10	Microbiology and Immunology	CO1	To make the students aware of microbial pathogens.
		CO2	To provide students with knowledge of methods for prevention and treatment of microbial diseases.
		CO3	To make students aware of the immune system of human body

		CO4	To give precise knowledge of methods involved in solving various immunological problems.
		CO5	To give practical knowledge of basic techniques.
ZY6CRT 11	Bio-technology, Bio-informatics and Molecular Biology	CO1	To introduce students about Tools and Techniques in Biotechnology
		CO2	To make students aware of the scope and application of biotechnology in daily life
		CO3	To introduce a taste for biotechnological research in students
		CO4	To impart students with knowledge and to make them aware of the potential of Bioinformatics and Molecular Biology for shaping the future of society.
ZY6CRT 12	Occupational Zoology (Apiculture, Vermiculture, Quail Farming & Aquaculture)	CO1	To equip the students with self-employment capabilities
		CO2	To provide scientific knowledge of profitable farming
		CO3	To make the students aware of cottage industries

Name of the Programme: BSc Recreation, Leisure & Sports Studies

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
PE1CRT 01	Methodology of recreation and sports services	CO1	To appraise the concept of recreation leisure and sports studies
		CO2	To describe the need of sports & recreation in industry
		CO3	To find out the professional ethics and issues in recreation and leisure administration
PE1CRT 02	Basic human anatomy	CO1	To understand the relationship between sports and anatomy
		CO2	To describe the importance of human body, organs in human body bone and its functions importance of human bone and other organs
		CO3	To identify different type of joints in human body and its movements helps in sports activity
		CO4	To understand whole human body related with sports activity
SEMESTER 2			
PE2CRT 03	Kinesiology and biomechanics	CO1	To develop the basic understanding of Biomechanics and Kinesiology and its application in performing sports activities

		CO2	To explain the concept of mechanical laws involved in human motion Analyze the mechanical principles of motor skills and sports related skills along with their proper techniques and corrective measures
		CO3	To develop a comprehensive understanding of movement analysis To develop the ability to perform mechanical analysis of various fundamental movements and sports skills
		CO4	Explain the basic mechanical concepts and will be able to interpret its relation to human body movements Organize and specify the overall goal of the course.
		CO5	Apply and analyze the factors of mechanical laws involved in human movement. Explain the principles of movement analysis
PE2CRT 04	Anatomy and physiology	CO1	To develop the basic understanding of anatomy and physiology and its application in performing and developing of sports
		CO2	To understanding different organs and organism acting at the time of sports activity
		CO3	To understand and study the different organs and its functions, importance in human body and its effect in sports.
PE2CRT 05	Human resource management in sports and recreation	CO1	To describe organization and administration of human resource management and its relation to sports Understand the process of administrating various events.
		CO2	Identify issues relevant to modern physical education and HRM, Explore the area as a career perspective
		CO3	Create & understand the concept of the various types of sports jobs
		CO4	To understand manpower planning employees wellness problems in employment
SEMESTER 3			
PE3CRT 06	Sports training	CO1	To provide knowledge and concept of sports training develop an understanding of the technical and tactical training and provide the role of sport sciences to achieve the excellence
		CO2	Gain knowledge of the training coaching filed, Plan and prepare training programs
		CO3	Develop the skills to fundamentals and strategies of Game/Sport.
		CO4	Learn the tactical approaches of each game & sports and Demonstrate various drills & lead up activities related to Game/Sport.
PE3CRT 07	Marketing of recreation and sports service	CO1	To provide the knowledge about market segment and marketing of sports product and service
		CO2	To understand national international market and promotional activities
		CO3	To develop the knowledge type of marketing of different product by different ways

		CO4	To understand different type of sports market different type of sports good and its promotional activity
PE3CRT 08	Adventure Sports Management	CO1	To understand the various aspects of Adventure sports
		CO2	To develop the skills required for the adventure sports
		CO3	To Learn and participate in various types of adventure activity.
PE3CRT 09	Exercise physiology	CO1	To assess basic concepts of exercise physiology
		CO2	To employ students to apply the knowledge of energy systems during exercise.
		CO3	To explain the effect of environment and ergogenic aids on exercise and training.
		CO4	Develop a thorough understanding of the relationship between physical activity and health
SEMESTER 4			
PET4CRT10	Teaching and Training Methodology	CO1	To define and acquaint training preparation of Game/Sport
		CO2	To acquaint students with the skills of Teaching and Training
		CO3	To emphasis on preparation for the Game/Sport.
PE4CRT 11	Research Methods	CO1	To understand the research context within the area of physical Education and sports.
		CO2	To understand the processes and requirements for conducting successful research in physical education and sports.
		CO3	Understand and apply basic research methods.
		CO4	To understand the process of sampling, the uses of questionnaires as data-gathering instruments, how a survey is carried out in terms of process and method, the uses of surveys and to be able to capture their own data.
PE4CRT 12	Sports Injury Assessment & management	CO1	Illustrate and apply the concepts of sports injuries and rehabilitation.
		CO2	Interpret the concept of therapeutic aspects of exercise.
		CO3	Demonstrate and take care of the preventive and curative aspect of sports injuries.
		CO4	Apply the concept of rehabilitation of sports injuries
SEMESTER 5			
PE5CRT 13	Exercise Prescription & Design.	CO1	To appraise the concept of holistic health through fitness.
		CO2	To explain the students about the concept of exercise designing, health and motor related fitness
		CO3	To apply practical principles of the fitness training.
PE5CRT 14	Environment studies in Sports	CO1	To appraise about the environment issue
		CO2	To understand how sports can be inculcated without in harmony with the environment.
SEMESTER 6			
PE6CRT 15	Entrepreneurship Development	CO1	To understand the basics of Business
		C02	To learn the various skill and qualities required for an entrepreneur.

		C03	To understand the various issues and schemes related to Business ventures.
PE6CRT 16	Basic of Accounting for Sports	CO1	To understand the concept of accounting
		CO2	To describe various techniques and methods of maintain the accounts
		CO3	To understand budgets preparation.
PE6CRT 17	Sports Event Management	CO1	To describe organization and administration of sports programmes.
		CO2	To analyze and interpret sports philosophy, sports sociology, business systems, sports management, public administration and marketing techniques.
		CO3	To develop opportunities to construct & design the curriculum of PE in broader aspects realizing the age group, gender consideration and physiological basis.
PE6CRT 18	Therapeutic Recreation	CO1	To understand the concept of Therapeutic Recreation
		CO2	To develop a sense of Love & Support for the fellow being.
		CO3	To design and develop various programs for the differentially abled people.

Name of the Programme : BCom			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
CO1CRT 01	Dimensions and Methodology of Business Studies	CO1	To create understanding on the role of business in society
		CO2	To familiarize the technology integration in business
		CO3	To inculcate the fundamentals of business research in the life of students
CO1CRT 02	Financial Accounting I	CO1	To equip the students with the skill of preparing financial accounts
		CO2	To enable students to develop financial reports from incomplete accounts
		CO3	To enable the students to prepare financial reports for different types of business
CO1CRT 03	Corporate Regulations and Administra-tion	CO1	To familiarize the students with the management of companies in India
		CO2	To create an understanding among the students on administration of joint stock companies in India
		CO3	To help the students to understand the implications of business laws in India with special focus to Companies Act, 2013

SEMESTER 2			
CO2CRT 04	Financial Accounting II	CO1	To equip the students with the skill of preparing financial accounts with advanced techniques
		CO2	To enable students to account for dissolution of partnership firms
		CO3	To familiarize the application of important accounting standards
CO2CRT 05	Business Regulatory Framework	CO1	To familiarize the students with the legal framework influencing business decisions
		CO2	To make an understanding among students about principal – agency relationship in business
		CO3	To equip the students with practical implications of Sale of Goods Act, 1930
CO2CRT 06	Business Management	CO1	To familiarize the students with concepts and principles of management
		CO2	To introduce various management techniques
		CO3	To introduce various management practices
SEMESTER 3			
CO3CRT 07	Corporate Accounts I	CO1	Familiarize with corporate accounting procedures and to understand the provisions of Companies Act 2013 in accounting.
		CO2	Equip the students to use new accounting schedules for the preparation of final statements.
		CO3	Develop the students to handle the accounting procedures in the corporate for buy back, redemption, right issue and underwriting.
		CO4	Students are able to handle the accounting procedure of the insurance company and its clients while raising claims.
CO3CRT 08	Quantitative Techniques for Business-1	CO1	Students are getting clarity about the statistical theory in real life situation.
		CO2	Equip the students to handle business issues by using proper statistical tools.
		CO3	Students are able to identify the appropriate statistical tool for the specific issues of the business firms.
CO3CRT 09	Financial Markets and Operations	CO1	Familiarize the student about the financial markets rules and laws in India.
		CO2	Students are able to understand the technical explanation about the financial market operations.
		CO3	Develop the skill to help others on the different market situations in a specific manner.
		CO4	Equip the students to get a job in securities trading firms and other market related institutions.
CO3CRT 10	Marketing Management	CO1	Students are equipped to identify the different marketing strategies used by the business firms.
		CO2	Understand the pricing strategies adopted in the marketing process.
		CO3	Develop the skill of sales.
		CO4	Make the students to be suitable for profession in Marketing field.

SEMESTER 4			
CO4CRT 11	Corporate Accounts II	CO1	Equip the students to prepare the final accounts of Investment Company as per Companies Act 2013.
		CO2	Familiarizes the students on the different accounting procedures and Provisions of Banking companies, Investment Companies and insurance companies.
		CO3	Students are equipped to get job in financial organization.
		CO4	Students are developed to handle different financial issues related to the companies in an effective way as per companies Act 2013.
CO4CRT 12	Quantitative Techniques for Business-II	CO1	Students are able to select statistical model for the different issues related with business.
		CO2	Students are equipped to analyze primary data by using appropriate statistical models.
		CO3	Developed skill to do descriptive analysis on primary and secondary data.
CO4CRT 13	Entrepreneurship Development and Project Management	CO1	Developed the attitude of Entrepreneurship.
		CO2	Students are familiarized with different technical and financial facilities availed at present.
		CO3	Students are able to start micro or tiny type business firm.
		CO4	Equipped the students to engage various activates in the business activities.
SEMESTER 5			
CO5CRT 14	Cost Accounting - 1	CO1	Familiarize the students with cost concepts and to make the students learn the Fundamentals of cost accounting as a separate system of accounting.
		CO2	Familiarize the students with latest inventory control techniques.
		CO3	Make students aware of accounting of Labour and overhead costs
		CO4	Equip students to prepare cost sheets.
CO5CRT 15	Environment and Human Rights	CO1	Familiarise Multidisciplinary nature of environmental studies, Natural resources, eco-systems, pollution, issues, and human rights
		CO2	Acquaint students with biodiversity of India and its conservation
		CO3	Invite student's attention on the serious environmental pollutions and social issues related with environment.
		CO4	Enable students to be aware of human rights related with environment.
CO5CRT 16	Financial Management	CO1	Familiarise the students with the functional areas and principles of financial management
		CO2	Equip students to take financial decisions based on the analysis of financial statements.
		CO3	Familiarise students with the various techniques of investment decisions.
		CO4	Equip students to estimate the working requirements of an organisation.

SEMESTER 6			
CO6CRT 17	Cost Accounting - 2	CO1	Acquaint the students with different methods and techniques of costing. and to enable the students to identify the methods and techniques applicable for different types of industries.
		CO2	Make students aware of operating and process costing techniques of different industries.
		CO3	Familiarise students with decision making based on marginal costing mechanism.
CO6CRT 18	Advertise-ment and Sales Management	CO1	Make the students aware of the strategy, concept and methods of advertising and sales promotion.
		CO2	Make students aware of ad agencies and regulations of advertisement in India
		CO3	Equip students to personal selling skills
CO6CRT 19	Auditing and Assurance	CO1	Familiarize the students with the principles and procedure of auditing.
		CO2	Enable the students to understand the duties and responsibilities of auditors and to undertake the work of auditing.
		CO3	Make students aware of special audits and investigation procedures.
		CO4	Familiarise the students with preparation of audit documents, and internal control systems in organisations.
CO6CRT 20	Management Accounting	CO1	Explain the three primary purposes of management accounting namely, inventory valuation, decision support and cost control.
		CO2	Develop and apply standards and budgets for planning and controlling purposes.
		CO3	Apply and analyze different types of activity-based management tools through the preparation of estimates.

Name of the Programme: BCA			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
CA1CRT 01	Computer Fundamentals &Digital Principles	CO1	Students have a thorough understanding of the fundamental concepts and techniques used in digital electronics.
		CO2	Students would be able to understand examine the structure of various number systems and its application in digital design.
		CO3	Students would be able to understand, analyze and design various combinational and sequential circuits.
		CO4	Students would be able to understand identify basic requirements for a design application and propose a cost effective solution.

CA1CRT 02	Methodology of Programming and C Language	CO1	Students would be able to Read, understand and trace the execution of programs written in C language.
		CO2	Students would be able to write the C code for a given algorithm.
		CO3	Student would be able to Implement Programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor.
		CO4	Student would be able to Write programs that perform operations using derived data types.
CA1CRP 01	Software Lab I	CO1	Students should able to know concepts in problem solving
		CO2	Students should able to do Programming in C language
		CO3	Students should able to write diversified solutions using C language
		CO4	Students should able to write programs that perform operations using derived data types
SEMESTER 2			
CA2CRT 03	Database Management Systems	CO1	Students should able to identify the basic concepts and various data model used in database design and ER modeling concepts.
		CO2	Students should able to design queries using SQL.
		CO3	Students should able to recognize and identify the use of normalization and functional dependency, indexing and hashing technique used in database design.
		CO4	Students should able to apply and relate the concept of transaction, concurrency control and recovery in database.
CA2CRT 04	Computer Organization and Architecture	CO1	Students should able to describe the fundamental organization of a computer system
		CO2	Students should able to explain the functional units of a processor
		CO3	Students should able to explain addressing modes, instruction formats and program control statements
		CO4	Students should able to distinguish the organization of various parts of a system memory hierarchy
CA2CRT 05	Object Oriented Programming using C++	CO1	Students should able to describe the object-oriented programming approach in connection with C++
		CO2	Students should able to apply the concepts of object-oriented programming
		CO3	Students should able to apply virtual and pure virtual function & complex programming situations
		CO4	Students should able to understand the difference between the top-down and bottom-up approach
CA2CRP 02	Software Lab II	CO1	Students should able to formulate query, using SQL, solutions to a broad range of query and data update problems.
		CO2	Students should able to transform an information model into a relational database schema and to use a data definition language and/or utilities to implement the schema using a DBMS.

		CO3	Students should able to understand how to apply the major object-oriented concepts to implement object oriented programs in C++, encapsulation, inheritance and polymorphism
		CO4	Students should able to Develop solutions for a range of problems using objects and classes.
SEMESTER 3			
CA3CRT 06	Computer Graphics	CO1	Students should able to understand the basics of computer graphics, different graphics systems and applications of computer graphics.
		CO2	Students should able to discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis.
		CO3	Students should able to extract scene with different clipping methods and its transformation to graphics display device.
		CO4	Students should able to use geometric transformations on graphics objects and their application in composite form
CA3CRT 07	Microprocessors and PC Hardware	CO1	Students should able to Understand the taxonomy of microprocessors and knowledge of contemporary microprocessors.
		CO2	Students should able to Explore techniques for interfacing I/O devices to the microprocessor 8085 including several specific standard I/O devices such as 8251 and 8255.
		CO3	Students should able to demonstrate programming using the various addressing modes and instruction set of 8085 microprocessor
		CO4	Students should able to design structured, well commented, understandable assembly language programs to provide solutions to real world control problems
CA3CRT 08	Operating Systems	CO1	Students should able to understand the basics of operating systems like kernel, shell, types and views of operating systems
		CO2	Students should able to describe the various CPU scheduling algorithms and remove deadlocks
		CO3	Students should able to use disk management and disk scheduling algorithms for better utilization of external memory.
		CO4	Students should able to explain various memory management techniques and concept of thrashing
CA3CRT 09	Data Structures using C++	CO1	Students should able to understand the concept of Dynamic memory management, data types, algorithms
		CO2	Students should able to understand basic data structures such as arrays, linked lists, stacks and queues.
		CO3	Students should able to solve problem involving graphs, trees and heaps

		CO4	Students should able to apply Algorithm for solving problems like sorting, searching, insertion and deletion of data
CA3CRP 03	Software Lab III	CO1	Students should able to implement basic data structures such as arrays and linked list.
		CO2	Students should able to do programs to demonstrate fundamental algorithmic problems including Tree Traversals, Graph traversals, and shortest paths.
		CO3	Students should able to do programs to demonstrate the implementation of various operations on stack and queue.
		CO4	Students should able to implement various searching and sorting algorithms
SEMESTER 4			
CA4CRT 10	Design and Analysis of Algorithms	CO1	Students should able to define the basic concepts of algorithms and analyze the performance of algorithms
		CO2	Students should able to use various algorithm design techniques for developing algorithms.
		CO3	Students should able to estimate time complexity of various searching, sorting and graph traversal algorithms.
		CO4	Students should able to understand NP completeness and identify different NP complete problems.
CA4CRT 11	System analysis & Software Engineering	CO1	Students should able to plan a software engineering process life cycle , including the specification, design, implementation, and testing of software systems that meet specification, performance, maintenance and quality requirements
		CO2	Students should able to elicit, analyze and specify software requirements through a productive working relationship with various stakeholders of the project
		CO3	Students should able to analyze and translate a specification into a design, and then realize that design practically, using an appropriate software engineering methodology.
		CO4	Students should able to able to use modern engineering tools necessary for software project management, time management and software reuse
CA4CRT 12	Linux Administ-ration	CO1	Students should able to understand the basic set of commands and utilities in Linux systems.
		CO2	Students should able to learn to develop software for Linux systems.
		CO3	Students should able to learn the C language and get experience programming in C.
		CO4	Students should able to learn the important Linux library functions and system calls
CA4CRT 13	Web Programming using PHP	CO1	Students should able to understand the general concepts of PHP scripting language for the development of Internet websites.
		CO2	Students should able to understand the basic functions of MySQL database program.

		CO3	Students should able to learn the relationship between the client side and the server side scripts
		CO4	Students should able to develop a final project using the learned techniques
CA4CRP 04	Software Lab IV	CO1	Students should able to design a basic web site using HTML and CSS to demonstrate responsive web design.
		CO2	Students should able to display and insert data using PHP and MySQL.
		CO3	Students should able to test, debug, and deploy web pages containing PHP and MySQL.
SEMESTER 5			
CA5CRT 14	Computer Networks	CO1	Students should able to identify and use various networking components. Understand different transmission media and design cables for establishing a network
		CO2	Students should able to implement any topology using network devices
		CO3	Students should able to State the fundamentals related to network security and basics of IPv6 and IPsec
		CO4	Students should able to explain various protocols related to internet key exchange.
CA5CRT 15	IT & Environment	CO1	Students should able to recognize the importance of environment and the sustainable of natural resources
		CO2	Students should able to analyze interaction between social and environmental processes.
		CO3	Students should able to use scientific reasoning to identify and understand environment problems and evaluate potential solutions.
		CO4	Students should able to visualize the impacts of human activities on Environment and role of society in these impacts.
CA5CRT 16	Java Programming Using Linux	CO1	Students should able to acquire the knowledge of the structure and model of the Java programming language,
		CO2	Students should able to use the Java programming language for various programming technologies
		CO3	Students should able to evaluate user requirements for software functionality required to decide whether the Java programming language can meet user requirements
		CO4	Students should able to develop software in the Java programming language
CA5CRP 05	Software Lab V	CO1	Students should able to demonstrates how to achieve reusability using inheritance, interfaces and packages and describes faster application development can be achieved.
		CO2	Students should able to demonstrate understanding and use of different exception handling mechanisms and concept of multithreading for robust faster and efficient application development.
		CO3	Students should able to Identify and describe common abstract user interface components to design GUI in

			Java using Applet & AWT along with response to events
		CO4	Students should able to Identify, Design & develop complex Graphical user interfaces using principal Java Swing classes
CA5CRP 06	Software Development Lab1	CO1	Students should able to identify the requirements for the real world problems.
		CO2	Students should be able to demonstrate and build the project successfully by hardware requirements, coding, emulating and testing.
		CO3	Students should able to report and present the findings of the study conducted in the preferred domain
		CO4	Students should able to demonstrate an ability to work in teams and manage the conduct of the research study
SEMESTER 6			
CAC6RT 17	Cloud Computing	CO1	Students should able to articulate the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for state-of-the-art cloud computing
		CO2	Students should able to identify the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud, etc.
		CO3	Students should able to explain the core issues of cloud computing such as security, privacy, and interoperability.
		CO4	Students should able to provide the appropriate cloud computing solutions and recommendations according to the applications used
CAC6RT 18	Mobile Application Development -Android	CO1	Students should able to install and configure Android application development tools.
		CO2	Students should able to design and develop user Interfaces for the Android platform.
		CO3	Students should able to save state information across important operating system events
		CO4	Students should able to apply Java programming concepts to Android application development.
CA6CRP 07	Software Lab VI & Seminar	CO1	Students should able to apply essential Android Programming concepts.
		CO2	Students should able to develop Android applications related to mobile related server-less database like SQLITE
		CO3	Students should able to develop various Android applications related to layouts & uses interactive interfaces
		CO4	Students should able to understand and discuss current, real-world issues
CA6CRP 08	Software Development Lab II	CO1	Students should able to demonstrate a sound technical knowledge of their selected project topic.
		CO2	Students should able to undertake problem identification, formulation and solution.

		CO3	Students should able to design engineering solutions to complex problems utilizing a systems approach.
		CO4	Students should able to conduct an engineering project
CA6CRP 08	Viva Voce	CO1	Students should able to face interview both in the academic and the industrial sector
		CO2	Students should able to get an overall knowledge in the relevant field of computer applications.
		CO3	Students should able to serve industry requirement.

OPEN COURSES
(Offered During Semester 5)

Name of the Department	Course Code	Course Title	Course Outcomes	
English	EN5CROP03	English for Careers	CO1	On completion of the course, the students should be able to develop communicative skills, which will enable them to prepare for a career and function effectively in it.
			CO2	To make the students competent in their job-seeking, job-getting and job-holding needs. The course shall cater to equipping the students in Comprehensive Language Enhancement.
			CO3	To equip them in oral and written communication and to enhance their academic and professional use of language.
Malayalam	ML5OPT01	Pathra Pravartha-nam	CO1	Introducing basics of journalism
			CO2	Familiarizing new trends in journalism
Economics	EC5OPT01	Fundamentals of Economics	CO1	This course is designed to make the undergraduate students of other disciplines aware of the basic ideas and concepts in economics.
			CO2	Students get the basic idea regarding national income, production, distribution etc.
			CO3	This course also inculcates some reasoning ability in students from other disciplines.
Political Science	PS5OPT04	Human Rights in India	CO1	The course provides an understanding of the structure of Indian constitution as well as it provides a better understanding of the origin, evolution of rights and various steps taken by the national and international agencies for the protection and promotion of the Human Rights.

			CO2	This course also helps to get a comprehensive knowledge of the concept in the Indian context through dealing with various Human Rights movements.
			CO3	It also deals with the problems confronted by the marginalised sections in the Indian context.
History	HY50CT02	Social Implica-tions of Modern Revolu-tions	CO1	To provide good awareness about the major social revolutions of the modern world.
			CO2	To focus on the linkage between the socio-economic revolutions of the modern world.
Communica-tive English	EN5CROPG03	English for Careers	CO1	On completion of the course, the students should be able to develop communicative skills, which will enable them to prepare for a career and function effectively in it.
			CO2	To make the students competent in their job-seeking, job-getting and job-holding needs. The course shall cater to equipping the students in Comprehensive Language Enhancement.
			CO3	To equip them in oral and written communication and to enhance their academic and professional use of language.
Mathematics	MM5OPT02	Applicable Mathe-matics	CO1	To prepare students of all streams particularly those with arts and commerce background for their higher studies and to approach competitive examinations
			CO2	To acquire better understanding in basic concepts of mathematics
			CO3	To introduce shortcut methods for developing problem solving skills
Physics	PH5OPT02	Physics in Daily Life	CO1	Recognize the importance of applied Physics in describing natural phenomena
			CO2	Realize the significance of units and measurements, optical phenomena, electricity and its applications, matter and energy etc.
			CO3	Obtain a fundamental understanding about our universe, including galaxies, solar system, artificial satellites and their use in global positioning system.
Chemistry	CH5OPT01	Chemistry in Everyday Life	CO1	To know the importance of Chemistry in everyday life, because it provides medicine
			CO2	To understand the chemical processes involved in the digestion of food we eat.

Botany	BO5OPT02	Horticulture and Nursery Management	CO1	To understand the importance of horticulture in human welfare.
			CO2	To understand the propagation and cultural practices of vegetables, fruit and garden plants.
			CO3	To understand the basic concepts of landscaping and garden designing.
			CO4	To understand the modern technology in horticultural plants.
Zoology	ZY5OPT01	Vocational Zoology	CO1	To develop critical thinking skill and research aptitude among students, by introducing the frontier areas of the biological science.
			CO2	To emphasize the central role that biological sciences plays in the life of all organisms.
			CO3	To introduce the student to some of the present and future applications of bio-sciences
			CO4	To acquire basic knowledge and skills in aquarium management, Quail farming, vermin-composting and apiculture for self-employment
			CO5	To learn the different resources available and to develop an attitude towards sustainability
			CO6	Give awareness to society about need for waste management and organic farming
Commerce (Finance & Taxation)	CM05DAA01	Fundamentals of Accounting	CO1	Familiarize the students with the basic accounting principles and practices in business
			CO2	Equip students in preparing Journal and Ledger accounts
			CO3	Equip students in preparation of Final Accounts of Sole proprietary concerns
Commerce (Computer Applications)	CO5OPT03	Fundamentals of Accounting	CO1	Familiarize the students with the basic accounting principles and practices in business
			CO2	Equip students in preparing Journal and Ledger accounts
			CO3	Equip students in preparation of Final Accounts of Sole proprietary concerns
Computer Science	CS5OPT02	Computer fundamentals, internet and MS Office	CO1	Students are equipped to meet the Computer aspects in a better way
			CO2	Assisting students to be expertise in computer related jobs
			CO3	Developing practical skills in internet

CHOICE BASED COURSES

Name of the Programme and Semester	Course Code	Course Title	Course Outcomes	
BA English Literature; Semester 6	EN6CB 01	Comparative Literature	CO1	To introduce the student to the various concepts relating to comparative study of literature and to promote an international approach to the study of literature.
			CO2	To develop strategies and methodologies in the study of literatures in comparison.
			CO3	To undertake a methodological investigation of problems involving more than one literature so that she/he may acquire a broader sense of literary history and tradition.
BA Malayalam; Semester 6	ML6CB T01	Malayala-thile Sthree Rachanakal	CO1	Realize Women Status based on feminine writings
			CO2	Analyse Feminine as a gender.
BA Economics; Semester 6	EC6CB T03	History of Economic Thought	CO1	This course aims to portrait through which the science of economics has evolved.
			CO2	It provides an opportunity for the students to know about the economic history.
			CO3	Students also get chance to realize the different line of thought from ancient economists to modern economists
BA History with Archaeology and Museology; Semester 6	HY6CB T03	Gender Studies	CO1	To familiarize the students with the conceptual and methodological innovations brought into the discipline of history by Women's History, and expansion and reframing of the issues at its core, that this intervention has entailed.
			CO2	To provide knowledge about various issues related to women, children, transgenders etc.
BA Political Science; Semester 6	PS6CB T03	International Organisations and World Affairs	CO1	This paper equips the students with the basic intellectual tools for understanding international issues.
			CO2	The course historically contextualizes the evolution of the international state system.
			CO3	Students are expected to learn about the key milestones in world politics and equip them with the tools to understand and analyze the same from different perspectives.

BA English Language and Communication Studies; Semester 6	EN6CB01	Comparative Literature	CO1	Would acquire a broader sense of literary history and tradition
			CO2	Would be familiar with the world literature
			CO3	Would understand the strategies and methodologies in the study of literatures in comparison
			CO4	Would be familiar with the famous writers
BSc Mathematics; Semester 6	MM6CBT01	Operations Research	CO1	Formulate and solve LPP using graphical and Simplex method.
			CO2	Study duality in LPP.
			CO3	Study transportation and assignment problems.
			CO4	Study about two person zero sum games.
BSc Physics; Semester 6	PH6CBT03	Computational Physics	CO1	Derive computational methods and error analysis techniques for various mathematical operations and tasks.
			CO2	Understand and apply methods of constructing solutions of system of linear equations
			CO3	familiarize numerical integration and differentiation of functions
BSc Chemistry; Semester 6	CH6CBT01	Polymer Chemistry	CO1	To understand the basics polymer science, various reactions of polymerization and biodegradable polymers
			CO2	To understand the various processing techniques of plastic materials
BSc Botany; Semester 6	BO6PET02	Plant genetic resource management	CO1	To understand the history and evolution of crop plants.
			CO2	To help the students to identify the crop plants and their wild relatives.
			CO3	To familiarize the students with the available plant genetic wealth.
			CO4	To understand the significance of modern technology to analyse the distribution of endangered species.
BSc Zoology; Semester 6	ZY6B15U	Economic Zoology	CO1	To develop critical thinking skill and research aptitude among students, by introducing the frontier areas of the biological science.
			CO2	To emphasize the central role that biological sciences plays in the life of all organisms.
BCom (Finance & Taxation) ; Semester 3	CO3OCT01	Finance and Taxation-Goods and Services Tax	CO1	Familiarizing the concepts of Goods and service Tax and its technical terms.
			CO2	Students are able to understand the calculation in the goods and service tax.
			CO3	A positive mind can be developed among the students on GST.

BCom (Finance & Taxation) ; Semester 4	CO4OCT01	Financial Services	CO1	Students are able to understand the financial dealing of the market in a formal way.
			CO2	Developed the courage to handle different financial instruments.
			CO3	Students are able to identify the need of financial support of the institutions and make it avail.
			CO4	Students are made in such a way to take over middle level management activities in the financial dealings firms
BCom (Finance & Taxation) ; Semester 5	CO5OCT01	Income Tax- I	CO1	Familiarise the students with Income Tax Act 1961 and to enable the students to compute Income taxable under the first three heads of Income
			CO2	Equip students to determine the taxable salary of various categories of assesses
			CO3	Make the students aware of latest rates of taxes and amendments in the latest Finance Act.
BCom (Finance & Taxation) ; Semester 6	CO6OCT01	Income Tax- II	CO1	Provide understanding on the determination of Total Income and tax payable and to get an overview regarding returns to be filed by an individual and also assessment procedure.
			CO2	Make the students aware of assessment procedure.
			CO3	Familiarise students with procedure of preparation and submission of various types of returns.
			CO4	Familiarise students with e-filing and ITR forms.
BCom (Computer Applications); Semester 3	CO3OCT02	Information Technology for Business	CO1	Make students to know the applications of computer.
			CO2	Ensure students to explore IT implications
			CO3	Nurturing students to expertise in web page designing
BCom (Computer Applications); Semester 4	CO4OCT02	IT for Office	CO1	Familiarize students with MS office tools
			CO2	Ensure students to do works through computer soft wares
			CO3	Making them to explore the IT enabled implications
BCom (Computer Applications); Semester 5	CO5OCT02	Computerized Accounting	CO1	Students are equipped to meet the demands of the industry by mastering them with industry sought after computerised accounting packages.
			CO2	Students are exposed to computer applications in the field of accounting
			CO3	Developing practical skills in the students for application of Tally Accounting package.

BCom (Computer Applications); Semester 6	CO6OCT02	Software for business and research	CO1	Enhance students for research oriented activities
			CO2	Familiarize students with software developments and working
			CO3	Making students focused on research tools and aspects
BCA; Semester 6	CA6PET	Data Mining	CO1	Students should able to understand and implement classical algorithms in data mining and data warehousing
			CO2	Students should able to assess the strengths and weaknesses of the algorithms, identify the application area of algorithms, and apply them.
			CO3	Students should able to learn data mining techniques as well as methods in integrating and interpreting the data sets and improving effectiveness, efficiency and quality for data analysis
			CO4	Students should able to Compare different approaches of data warehousing and data mining with various technologies

COMPLEMENTARY COURSES

Name of the Programme: BA English Literature			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
PS1CMT01	An Introduction to Political Science	CO1	It will help the student to understand the relevance of the discipline and also to acquire the practical knowledge of the subject
		CO2	Inculcate awareness about the principles of Political Science in general and political process in particular. For that, various approaches, ideologies and related theories are dealt in an interdisciplinary manner.
SEMESTER 2			
PS4CMT05	Indian Constitution : Social Issues in India	CO1	The course helps to develop among students the ability to comprehend contemporary politics as a relationship between institutional structures and historically constituted political processes.
		CO2	Integral to the course is the understanding that ideas of democracy, freedom and corresponding social political and

			institutional practices shaped the discipline in a more meaningful way.
SEMESTER 3			
EN3CM 03	The Evolution of Literary Movements: The Shapers of Destiny	CO1	To make the learner aware of the way in which history shapes the life and literature of a people.
		CO2	To give the learner a comprehensive overview of the history of Britain and its impact upon the rest of the world.
		CO3	To enable him to understand English literature in the light of historical events.
SEMESTER 4			
EN4CM 04	The Evolution of Literary Movements: The Cross Currents of Change	CO1	To enable students to have a notion of the evolution of literature and to help them perceive the interplay of social processes and literature
		CO2	Students will be competent to understand literature against the backdrop of history.
		CO3	Students will be inspired to contribute dynamically to historical and literary processes.

Name of the Programme: BA Malayalam			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
ML1CM T01	Methodology in Malayalam Literature	CO1	Familiarize the new methodology in Malayalam literature
		CO2	Familiarizing different methodologies
ML1C MT02	Nadakavum Cinemayum	CO1	To have on in-depth knowledge of film and theatre
		CO2	To sensitize aspects in Ancient Malayalam drama
SEMESTER 2			
ML2CM T03	Adhunika Loka Kavitha	CO1	Recognize the influence of world poetry in Malayalam poems
		CO2	Realizing aesthetics of colonialism
ML2CM T04	Folk Lore	CO1	Introduce folklore studies
		CO2	Making awareness of ancient knowledge
SEMESTER 3			
ML3CM T05	Oru Ezhuthu-karan / Ezhuthukari-Madhavi-kutty	CO1	Liberate women hood and creativity in Madhavikutty
		CO2	Romanticism through Madhavikutty- A Feminine Writer

SC3CMT01	Sanskrit	CO1	Introducing Basics of Sanskrit and Grammar.
SEMESTER 4			
ML4CMT06	Adhunika Malayala Bhasha	CO1	Rising the evolution of Malayalam as a modern language.
		CO2	Identify the pros and cons of new Malayalam language.
SC3CMT02	Sanskrit	CO1	Introduce Alankara and Vratha of Sanskrit.
		CO2	Introducing theories of poetics and grammar.

Name of the Programme: BA Economics			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
HYCP03	Social Formation in premodern India.	CO1	Students will be able to examine institutional basis of Ancient India.
		CO2	Students will be able to illustrate the development of empire.
		CO3	Understand the salient features of Indus valley civilization
SEMESTER 2			
HYCP02	Transition to the contempor-ary world	CO1	Students have understood the relation between Modernity and Nationalism and its implications.
		CO2	Realize the cause and results of French Revolution and the achievements of Napolean Bonaparte.
		CO3	Understand the causes and results of Second World War and the establishment of UNO.
		CO4	Students have understood the necessity of Universal-Brotherhood.
SEMESTER 3			
PS3CMT01	An Introduction to Political Science	CO1	It will help the student to understand the relevance of the discipline and also to acquire the practical knowledge of the subject
		CO2	Inculcate awareness about the principles of Political Science in general and political process in particular. For that, various approaches, ideologies and related theories are dealt in an interdisciplinary manner.
SEMESTER 4			
PS4CMT05	Indian Constitution : Social Issues in India	CO1	The course helps to develop among students the ability to comprehend contemporary politics as a relationship between institutional structures and historically constituted political processes.
		CO2	Integral to the course is the understanding that ideas of democracy, freedom and corresponding social political and institutional practices shaped the discipline in a more meaningful way.

Name of the Programme: BA History			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
EC1CMT01	Principles of Economics	CO1	It helps the students to learn to apply the basic principles and concepts of economics to everyday issues.
		CO2	It enriches the students with rational thinking.
		CO3	It also helps the students to imbibe the relationship among the members of the society.
SEMESTER 2			
EC2CMT02	Basic Economic Studies	CO1	It intends to make the students equipped with essential understanding the basic economic issues.
		CO2	This course addresses issues like in public finance, international economic issues, and Kerala economy so that they shall be capable of realizing and solving common economic issues in the society.
		CO3	Students also get acquainted with policy requirements.
SEMESTER 3			
PS3CMT01	An Introduction to Political Science	CO1	It will help the student to understand the relevance of the discipline and also to acquire the practical knowledge of the subject
		CO2	Inculcate awareness about the principles of Political Science in general and political process in particular. For that, various approaches, ideologies and related theories are dealt in an interdisciplinary manner.
SEMESTER 4			
PS4CMT05	Indian Constitution : Social Issues in India	CO1	The course helps to develop among students the ability to comprehend contemporary politics as a relationship between institutional structures and historically constituted political processes.
		CO2	Integral to the course is the understanding that ideas of democracy, freedom and corresponding social political and institutional practices shaped the discipline in a more meaningful way.

Name of the Programme: BA Political Science			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
HYCP03	Social Formation in pre modern India.	CO1	Students will be able to examine institutional basis of Ancient India.
		CO2	Students will be able to illustrate the development of empire.
		CO3	Understand the salient features of Indus valley civilization

SEMESTER 2			
HYCP02	Transition to the contemporary world	CO1	Students have understood the relation between Modernity and Nationalism and its implications.
		CO2	Realize the cause and results of French Revolution and the achievements of Napolean Bonaparte.
		CO3	Understand the causes and results of Second World War and the establishment of UNO.
		CO4	Students have understood the necessity of Universal-Brotherhood.
SEMESTER 3			
EC3CMT01	Principles of Economics	CO1	It helps the students to learn to apply the basic principles and concepts of economics to everyday issues.
		CO2	It also helps the students to imbibe the relationship among the members of the society.
		CO3	It enriches the students with rational thinking.
SEMESTER 4			
EC4CMT02	Basic Economic Studies	CO1	It intends to make the students equipped with essential understanding the basic economic issues.
		CO2	This course addresses issues like in public finance, international economic issues, and Kerala economy so that they shall be capable of realizing and solving common economic issues in the society.
		CO3	Students also get acquainted with policy requirements.

Name of the Programme: BA English Language and Communication Studies

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
EN1CMT01	Sociology	CO1	Would be aware of society and social hierarchical structures of society.
		CO2	Would recognize the values of common living and sharing.
		CO3	Would Assimilate social and ethical behaviour.
		CO4	Would imbibe the values of marriage, family etc.
SEMESTER 2			
EN2CST03	Sociological theories	CO1	Would understand the factors that triggered the development of sociological theories
		CO2	Would be develop an epistemological know how of various social philosophies.
		CO3	Would assimilate the responsibilities of a social being.

SEMESTER 3			
EN3CM T03	Shapers of destiny	CO1	Would have a thorough knowledge of British history.
		CO2	Would have a knowledge of major geographical and scientific innovations.
		CO3	Would be familiar with the literary movements.
		CO4	Would be familiar with the different periods of English literature writers and their roles.
		CO5	Would be aware of how history moulds society and people.
SEMESTER 4			
EN4CM T04	Cross currents	CO1	Students would be aware of alternatively defined traditions and genres, such as women's literature, postcolonial literature, third literature etc.
		CO2	Would have notion of the literature and perceive the interplay of social processes and literature.
		CO3	Would understand literature against the backdrop of history and gyring them to contribute to historical and literary processes.
		CO4	Would understand the significance of literature influencing the mass.

Name of the Programme: BSc Mathematics			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
ST1CM T01	Descriptive Statistics	CO1	Statistical skills to collect empirical data.
		CO2	Statistical skills to calculate descriptive statistics of empirical data.
		CO3	Statistical skills to visually interpret empirical data.
PH1CM T01	Properties of matter & error analysis	CO1	Learn the basics concepts of elasticity, surface tension, gravitation, viscosity and sound.
		CO2	Understand the concepts of properties of matter and to recognize their applications in various problems.
		CO3	Identify/classify the usual experimental errors and study different calculation methods.
SEMESTER 2			
ST2CM T02	Probability Theory	CO1	Basic knowledge in probability theory
		CO2	Problem solving skill
		CO3	Different methods to find probability
PH2CM T01	Mechanics and Astro-physics	CO1	Understand and define the laws involved in mechanics.
		CO2	Explain the notion of degrees of freedom and identify them for a given mechanical system.
		CO3	Attain an elementary idea on stellar evolution and universe.

SEMESTER 3			
ST3CMT03	Probability Distribu-tions	CO1	Acquaint the students familiar with basic probability distributions
		CO2	Acquaint the students familiar with their properties of probability distributions
		CO3	Problem solving skill
PH3CMT01	Modern Physics and Electronics	CO1	Study the basics of dual nature of matter and radiation and introduce the new branch of Physics 'Quantum Mechanics'.
		CO2	Impart knowledge related to the concepts of spectroscopy.
		CO3	Familiarize with the basic concepts of construction and working of electronic devices such as diodes and transistors.
SEMESTER 4			
ST4CMT04	Statistical Inference	CO1	Expected to learn the basics of estimation theory
		CO2	Make the student understand the concepts of testing of hypothesis
		CO3	Decision making skill
PH4CMT01	Optics and electricity	CO1	Understand the central concepts and basic formalisms of interference, diffraction and polarization.
		CO2	Gain Fundamental knowledge in lasers and holography.
		CO3	Build up fundamental understanding of electricity and achieve strong problem solving skills by effectively formulating a circuit.

Name of the Programme: BSc Physics			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
MM1CMT01	Partial Differen-tiation, Matrices, Trigono-metry and Numerical Methods	CO1	Understand the concept of partial differentiation of functions of several variables.
		CO2	Solve systems of linear equations using different methods.
		CO3	Understand trigonometric and hyperbolic functions in detail.
		CO4	Learn how to solve equations using numerical methods.
CH1CMT01	Basic Theoretical and Analytical Chemistry	CO1	This part of the syllabus will impart an interest in studying chemistry.
		CO2	Students are getting more ideas about theoretical and experimental Chemistry.
		CO3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.
SEMESTER 2			

MM2CMT01	Integral Calculus and Differential Equations	CO1	Use integral calculus to find area and volume of various geometrical objects.
		CO2	Master the concepts of double integrals and triple integrals
		CO3	Recognize and solve separable, exact, homogeneous and non-homogeneous ordinary differential equations
		CO4	Solve partial differential equations.
CH2CMT02	Basic Organic Chemistry	CO1	By studying this part of the syllabus students are getting basic ideas of organic chemistry, which enables them to build a better foundation
		CO2	The course aims to study the mechanism of organic reactions
		CO3	It also develops an interest in various branches of organic chemistry.
CH2CMP01	Volumetric Analysis-Practical	CO1	Plan and Conduct different estimation technique.
		CO2	To study the effect of various indicators
		CO3	To estimate and check the accuracy of the given sample
SEMESTER 3			
MM3CMT01	Vector Calculus, Analytic Geometry and Abstract Algebra	CO1	Acquaint with the concept of vector valued functions and its curvature, directional derivatives
		CO2	Extend the tools of integral calculus to vector valued functions
		CO3	Understand various properties of conic sections in Cartesian and polar coordinates
		CO4	Understand basic algebraic concepts like binary operations, groups, cosets, rings, ideals
CH4CMT03	Physical Chemistry - 1	CO1	The objective of this academic plan is to make the concepts and methods of physical chemistry clear and interesting to students, who have basic ideas in mathematics and physics
		CO2	The underlying theory of chemical phenomena is completed, and so it is a challenge to make the most important concepts and methods understandable to undergraduate students
SEMESTER 4			
MM4CMT01	Fourier Series, Laplace Transforms and Complex Analysis	CO1	Learn Fourier series and Legendre Polynomials
		CO2	Solve differential equations using power series method
		CO3	Understand Laplace transforms
		CO4	Learn about Complex valued functions and determine whether a given function is differentiable
CH4CMT05	Physical Chemistry - 1I	CO1	The objective of this academic plan is to make the concepts and methods of physical chemistry clear and interesting to students, who have basic ideas in mathematics and physics
		CO2	The understand theory of modern branches like spectroscopy
CH4CMP02	Physical Chemistry Practical	CO1	Explain the principle behind the experiments performed in the laboratory
		CO2	Plan and Perform experiments and Interpret experimental results.

Name of the Programme: **BSc Chemistry**			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
MM1CMT01	Partial Differen-tiation, Matrices, Trigono-metry and Numerical Methods	CO1	Understand the concept of partial differentiation of functions of several variables.
		CO2	Solve systems of linear equations using different methods.
		CO3	Understand trigonometric and hyperbolic functions in detail.
		CO4	Learn how to solve equations using numerical methods.
PH1CMT02	Properties of matter and thermodynamics	CO1	Explore the fundamental concepts of mechanical properties of solids and fluids.
		CO2	Understand the central concepts and basic formalisms of specific heat, entropy, quantum theory of radiation.
		CO3	Acquire knowledge on heat transfer, entropy and quantum theory of radiation.
SEMESTER 2			
MM2CMT01	Integral Calculus and Differential Equations	CO1	Use integral calculus to find area and volume of various geometrical objects.
		CO2	Master the concepts of double integrals and triple integrals
		CO3	Recognize and solve separable, exact, homogeneous and non-homogeneous ordinary differential equations
		CO4	Solve partial differential equations.
PH2CMT02	Mechanics and superconductivity	CO1	Learn Relative motion, Inertial and non-inertial reference frames and Centre of mass of mechanical systems.
		CO2	Study the interaction of forces between solids in mechanical systems and parameters defining the motion of mechanical systems.
		CO3	Understanding the basic principles of superconducting transitions.
SEMESTER 3			
MM3CMT01	Vector Calculus, Analytic Geometry and Abstract Algebra	CO1	Acquaint with the concept of vector valued functions and its curvature, directional derivatives
		CO2	Extend the tools of integral calculus to vector valued functions
		CO3	Understand various properties of conic sections in Cartesian and polar coordinates
		CO4	Understand basic algebraic concepts like binary operations, groups, cosets, rings, ideals
PH3CMT02	Modern physics and magnetism	CO1	Study the basics of dual properties of matter and radiation.
		CO2	Introduce the modern branch of Physics ‘Quantum Mechanics’
		CO3	Define the concepts of magnetic field , magnetic flux etc. and solve technical problems.

SEMESTER 4			
MM4CMT01	Fourier Series, Laplace Transforms and Complex Analysis	CO1	Learn Fourier series and Legendre Polynomials
		CO2	Solve differential equations using power series method
		CO3	Understand Laplace transforms
		CO4	Learn about Complex valued functions and determine whether a given function is differentiable
PH4CMT02	Optics and solid state physics	CO1	Understand the central concepts and basic formalisms of interference, diffraction and polarization based on wave theory.
		CO2	Gain Fundamental knowledge in lasers and applications.
		CO3	Understand the basic properties of solids, their structure, properties and various technological applications.

Name of the Programme: BSc Botany			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
ZY1CMT01	Non Chordate Diversity	CO1	To study the scientific classification of invertebrate fauna.
		CO2	To learn the physiological and anatomical peculiarities of some invertebrate phyla through type study.
		CO3	To learn the unity of life with rich diversity of organisms & evolutionary significance of certain invertebrate fauna
		CO4	To stimulate the curiosity of students' in the biota living around them.
CH1CMT01	Basic theoretical and analytical chemistry	CO1	This part of the syllabus will impart an interest in studying chemistry
		CO2	students are getting more ideas about theoretical and experimental Chemistry
		CO3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.
SEMESTER 2			
ZY2CMTO2	Chordate Diversity	CO1	To make the student observe the diversity in chordates and their systematic position.
		CO2	To make the student ware of the economic importance of some chordates.
		CO3	To learn the physiological and anatomical peculiarities of some vertebrate species through type study.
		CO4	To stimulate the students' curiosity in vertebrates living associated with them.
CH2CMT02	Basic Organic Chemistry	CO1	By studying this part of the syllabus students are getting basic ideas of organic chemistry, which enables them to build a better foundation
		CO2	The course aims to study the mechanism of organic reactions
		CO3	It also develops an interest in various branches of organic chemistry.

CH2CMP01	Volumetric Analysis-Practical	CO1	Plan and Conduct different estimation technique.
		CO2	To study the effect of various indicators
		CO3	To estimate and check the accuracy of the given sample
SEMESTER 3			
ZY3CMT03	Physiology and Immunology	CO1	To appreciate the correlation between structure and function of organisms
		CO2	To make the student aware of the health related problems, their origin and treatment.
		CO3	To understand how efficiently our immune system works in our body.
		CO4	To acquire knowledge about preventing common diseases rather than curing.
CH4CMT04	Inorganic and Organic Chemistry	C01	Develops an interest in various branches of organic chemistry.
		C02	An inorganic chemistry student is expected to be conversant with the chemistry of all the elements and has been closely allied with analytical chemistry, with physical chemistry and even with organic chemistry.
SEMESTER 4			
ZY4CMT04	Applied Zoology	CO1	To acquire basic knowledge and skills in applied branches of zoology.
		CO2	To understand the technology for utilising eco-friendly organisms around them for beneficial purpose.
		CO3	To equip the students for self employment opportunities with scientific knowledge to perform profitably & confidently.
CH4CMT06	Advanced Bioorganic Chemistry	C01	This part of the curriculum deals with biological aspects of chemistry, which help students to understand medicinal chemistry, useful in daily life
		C02	To study the details of Natural products
CH4CMP03	Organic Chemistry Practical	CO1	To analyse the functional group
		CO2	To determine the physical constants of solids and liquids
		CO3	To prepare a solid derivatives of the detected organic compounds

Name of the Programme: BSc Zoology			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER I			
BO1CMT01	Cryptogams, gymnosperms and plant pathology	CO1	To acquire the knowledge in plant science.
		CO2	To encourage the aptitude of curiosity, appreciation and enquiry of various forms of plants.
		CO3	To understand the identifying characters of various groups of plants.
		CO4	To understand the diversity of plants.

CH1CMT01	Basic theoretical and analytical chemistry	CO1	This part of the syllabus will impart an interest in studying chemistry
		CO2	students are getting more ideas about theoretical and experimental Chemistry
		CO3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.
SEMESTER 2			
BO2CMT02	Plant physiology	CO1	To make the students realize the importance of physiological process.
		CO2	To understand the mechanisms of various physiological processes related to plant life.
		CO3	Understand the mechanism of physiological functioning of plant cells.
		CO4	To equip the students to conduct experiments in plant physiology.
CH2CMP01	Volumetric Analysis-Practical	CO1	Plan and Conduct different estimation technique.
		CO2	To study the effect of various indicators
		CO3	To estimate and check the accuracy of the given sample
CH2CMT02	Basic Organic Chemistry	CO1	By studying this part of the syllabus students are getting basic ideas of organic chemistry, which enables them to build a better foundation
		CO2	The course aims to study the mechanism of organic reactions
		CO3	It also develops an interest in various branches of organic chemistry.
SEMESTER 3			
BO3CMT03	Ang. Taxonomy & Eco. Botany	CO1	To understand the objectives and components of Taxonomy.
		CO2	To help the students to understand the systems of classification.
		CO3	To help the students to identify the common angiosperms in Kerala.
		CO4	To familiarize the students with plants of eco importance of plants.
CH4CMT04	Inorganic and Organic Chemistry	CO1	Develops an interest in various branches of organic chemistry.
		CO2	An inorganic chemistry student is expected to be conversant with the chemistry of all the elements and has been closely allied with analytical chemistry, with physical chemistry and even with organic chemistry.
SEMESTER 4			
BO4CMT04	Anatomy and applied Botany	CO1	Understand the different types of plant tissues.
		CO2	To understand the internal structure of different plant organs.
		CO3	To know the morphological and anatomical adaptations of plants.
		CO4	To understand how botanical knowledge applied for crop improvement.
CH4CMT06	Advanced Bioorganic Chemistry	CO1	This part of the curriculum deals with biological aspects of chemistry, which help students to understand medicinal chemistry, useful in daily life
		CO2	To study the details of Natural products

CH4CMP03	Organic Chemistry Practical	CO1	To analyse the functional group
		CO2	To determine the physical constants of solids and liquids
		CO3	To prepare a solid derivatives of the detected organic compounds

Name of the Programme: BSc Recreation, Leisure & Sports Studies			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
PE1CMT01	Management concept in recreation and sports	CO1	To appraise the meaning and concept of management
		CO2	To understanding different type and levels of management, making the different type of managerial activity in sports related with real concept of management principle
		CO3	Relating management concept in sports planning and organizing, staffing, directing, motivating, leadership
		CO4	To understanding management concept in sports deferent hotels, hospitals, organizations are promoting sports
SEMESTER 2			
PE2CMT02	Introduction to sports tourism	CO1	To appraise the meaning and concept of sports tourism and its importance in sports
		CO2	To create a deep knowledge about sports tourism and its wide scope in tourism
		CO3	To understand different agencies are working under sports tourism and development of agencies under sports tourism
		CO4	To study national and international concept of sports tourism and the scope and importance of new innovations in sports tourism, the future of sports tourism
SEMESTER 3			
PE3CMT03	Sports Massage & Spa Therapy	CO1	To understand the concept of massage in sports
		CO2	To acquire the skills required for Spa Therapy
		CO3	To develop and apply various techniques for Sports recovery and performance enhancement.
SEMESTER 4			
PE4CMT04	Sports Nutrition	CO1	To develop concepts related to sports nutrition
		CO2	To construct a strong basis in the evaluation techniques through the various test and measurements method used in sports nutrition.
		CO3	To analyze the nutritional status and performance of an individual in various sports.
		CO4	To provide scientific techniques in selection and talent identification through various evaluation and grading process applicable in physical education and sports.

Name of the Programme: BCom (Common to BCom with Finance & Taxation and BCom with Computer Applications)			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
CO1CMT 01	Banking and Insurance	CO1	To introduce to students the basic concepts of banking and insurance
		CO2	To equip the students with knowledge in practical banking
		CO3	To familiarize the students with knowledge on different types of insurance and various insurance schemes
SEMESTER 2			
CO2CMT 02	Principles of Business Decisions	CO1	To familiarize the students with the economic concepts and principles underlying business decision making
		CO2	To enable the students to conduct cost analysis of business firms
		CO3	To equip the students with knowledge on business decision making

Name of the Programme: BCA			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
MM1C MT03	Mathe-matics	CO1	Students would be able to perform computations in higher mathematics.
		CO2	Students would be able to read and understand middle-level proofs.
		CO3	Students would be able to develop and maintain problem-solving skills.
		CO4	Students would be able to use mathematical ideas to model real-world problems.
ST1CM T31	Basic Statistics	CO1	Students would be able to organize, manage and present data.
		CO2	Students would be able to analyze statistical data graphically using frequency distributions and cumulative frequency distributions
		CO3	Students would be able to use the basic probability rules, including additive and multiplicative laws, using the terms, independent and mutually exclusive events.
		CO4	Students would be able to derive the probability density function of transformation of random variables.
SEMESTER 2			

MM2C MT03	Discrete Mathematics	CO1	Students should able to understand the basics of discrete probability and number theory, and be able to apply the methods from these subjects in problem solving.
		CO2	Students should able to use effectively algebraic techniques to analyze basic discrete structures and algorithms.
		CO3	Students should able to understand some basic properties of graphs and related discrete structures, and be able to relate these to practical examples.
		CO4	Students should able to understand asymptotic notation, its significance, and be able to use it to analyze asymptotic performance for some basic algorithmic examples.
SEMESTER 3			
ST3CM T32	Advanced Statistical Methods	CO1	Students should able to apply discrete and continuous probability distributions to various business problems
		CO2	Students should able to perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases. Understand the concept of p-values
		CO3	Students should able to learn non-parametric test such as the Chi-Square test for Independence as well as Goodness of Fit
		CO4	Students should able to calculate and apply measures of location and measures of dispersion --grouped and ungrouped data cases.
SEMESTER 4			
MM4C MT03	Operational Research	CO1	Students should able to understand the meaning of Operations Research and how to use it. How to write linear program in the event of minimum cost or maximum profit.
		CO2	Students should able to choose rational options in practical decision-making problems using standard mathematical models of operations research
		CO3	Students should able to develop skills in analysis of operations research objectives, mathematical methods and computer systems.
		CO4	Students should able to get knowledge of the varied applications of operations research

UNDERGRADUATE PROGRAMMES - BVoc

GENERAL COMPONENT

Name of the Programme: **BVoc Sustainable Agriculture**			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
ENCN1	Communication Skills in English	CO1	To introduce the students to the speech sounds of English in order to enable them to listen to English and speak with global intelligibility.
		CO2	To enable the students to speak English confidently and effectively in a wide variety of situations.
		CO3	To help the students to improve their reading efficiency by refining their reading strategies.
FPR1G1T	Basic Principles Of Food Processing	CO1	To provide a basic sequence of steps to produce an acceptable and quality food product from raw materials.
		CO2	Study of scientific and technological advancements in food processing.
EES1G1T	Renewable Energy Sources	CO1	To explain concept of various forms of renewable energy
		CO2	To outline division aspects and utilization of renewable energy sources for both domestics and industrial applications
		CO3	To get an idea of Indian energy sector
SEMESTER 2			
ENCN2	Critical Thinking, Academic Writing and Presentation	CO1	To make the students aware of the fundamental concepts of critical reasoning and to enable them to read and respond critically, drawing conclusions, generalizing, differentiating fact from opinion and creating their own arguments.
		CO2	To assist the students in developing appropriate and impressive writing styles for various contexts.
		CO3	To help students rectify structural imperfections and to edit what they have written.
		CO4	To equip students for making academic presentations effectively and impressively.
FPR2G1T	Fruit And Vegetable Processing Technology	CO1	To provide a basic understanding of processing of fruits.
		CO2	To provide a basic understanding of processing of vegetables.

FPR2G1P	Fruit And Vegetable Processing Technology-Practical	CO1	To familiarize the students with processing of vegetables
		CO2	To familiarize the students with processing of fruits
EES2G1T	Introductory Environmental Studies	CO1	To create awareness about the importance of environment, its ecological balance and make him/her sensitive to the environment issues in every endeavor that he/she participates.
		CO2	To create awareness about ecological balance and make him/her sensitive to the environment issues in every endeavour that he/she participates.
SEMESTER 3			
FPR3G1T	Cereals and Pulses Processing Technology	CO1	To give a general outline about the principles, structure and composition, economic importance of different cereals, pulses and their products.
		CO2	To give a general outline about the different cereals, pulses and their products.
FPR3G1P	Cereals and Pulses Processing of Cereal Products	CO1	To give a general outline of the processing of different cereals, pulses and their products.
EES3G1T	Environmental Impact Assessment	CO1	To have an assessment of the impacts of manmade activities on the environment.
		CO2	To have an understanding of the possible remedies in this regard.
SEMESTER 4			
FPR4G1T	Fats and Oil Processing Technology	CO1	To give a general outline about the principles, structure and composition, economic importance
		CO2	To give a general outline about the storage and processing of fats and oils and their products.
FPR4G1P	Fat Analysis-Practical	CO1	To give foundation to fat analysis.
EES4G1T	Energy and Environment Management	CO1	To understand the methodology of energy management.
		CO2	To understand the methodology of environment management.
		CO3	To understand energy and environment audit.
SEMESTER 5			
SAG5G1T	Principles of Agribusiness Management	CO1	To familiarise with the fundamentals of information and communication management.
		CO2	To understand entrepreneurship strategies.
SAG5G2T-	Tissue Culture	CO1	To get practiced with various aspects of tissue culture.
		CO2	To learn applications of tissue culture in crop improvement.

SAG5G2P	Tissue Culture-Practical	CO1	To understand about Plant Tissue Culture
		CO2	To Preparation and sterilization of media
FPT5G3T	Eco-Tourism	CO1	Make the students to opt various ecotourism programmes as a self employment stream
		CO2	Make the students to aware about the usefulness of ecotourism in the conservation of natural resources.
		CO3	Help the students to assess various ecotourism programmes.
SEMESTER 6			
SAG6G1T	Government Policies and Programmes related to agriculture	CO1	To acquaint with various Government Policies related to Agriculture in Kerala and India.
		CO2	To familiarise with five year plans and Panchayathiraj system in India.
SAG6G2T	Computer Hardware and Networking	CO1	Understand the hardware components of a system.
		CO2	Understand basic issues in installing and using software.
		CO3	Understand how a network functions and the issues of network security.

Name of the Programme: BVoc Food Processing Technology			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
ENCN1	Communication Skills in English	CO1	To introduce the students to the speech sounds of English in order to enable them to listen to English and speak with global intelligibility
		CO2	To enable the students to speak English confidently and effectively in a wide variety of situations.
		CO3	To help the students to improve their reading efficiency by refining their reading strategies
HOR1G1T	Fundamentals of Horticulture	CO1	To acquaint with importance, division and classification of horticultural crops
		CO2	To understand the basic principles and types of plant propagation
HOR1G1P	Fundamentals of Horticulture -Practical	CO1	To develop skill in propagation and cultivation aspects of horticultural crop
EES1G1T	Renewable Energy Sources	CO1	To explain concept of various forms of renewable energy.
		CO2	To outline division aspects and utilization of renewable energy sources for both domestics and industrial applications

SEMESTER 2			
ENCN2	Critical Thinking, Academic Writing and Presentation	CO1	To make the students aware of the fundamental concepts of critical reasoning and to enable them to read and respond critically, drawing conclusions, generalizing, differentiating fact from opinion and creating their own arguments.
		CO2	To assist the students in developing appropriate and impressive writing styles for various contexts
		CO3	To help students rectify structural imperfections and to edit what they have written.
		CO4	To equip students for making academic presentations effectively and impressively.
HOR2G1T	Plantation Crops, Spices and Fruits	CO1	To acquaint with the cultivation aspects of Plantation crops, spices and fruit crops.
HOR2G1P	Plantation Crops, Spices and Fruits-Practical	CO1	To acquire skill on cultivation aspects of Plantation crops, spices and fruit crops
EES2G1T	Introductory Environmental Studies	CO1	To create awareness about the importance of environment, its ecological balance and make him/her sensitive to the environment issues in every endeavour that he/she participates.
SEMESTER 3			
HOR3G1T	Protected cultivation of Horticultural crops	CO1	To familiarize with protected cultivation structures and cultivation practices.
HOR3G1P	Protected cultivation of Horticultural crops-Practical	CO1	To practice with protected cultivation practices of important crops.
EES3G1T	Environmental Impact Assessment	CO1	To have an assessment of the impacts of manmade activities on the environment.
SEMESTER 4			
HOR4G1T	Landscape designing and indoor gardening	CO1	To get awareness on designing and laying out of a landscape
HOR4G1P	Landscape designing and indoor gardening-Practical	CO1	To develop skill in planning and planting of garden lawn.
		CO2	To develop skill in preparation of different types of gardens.
EES4G1T	Energy And Environment Management	CO1	To understand the methodology of energy management.
		CO2	To understand the methodology of environment management.
		CO3	To understand energy and environment audit.

SEMESTER 5			
FPT5G1T	Sensory Evaluation	CO1	To understand different aspects of sensory science and its application.
FPT5G1P	Sensory Evaluation-Practical	CO1	To understand different aspects of various sensory parameters and its application in food quality analysis.
FPT5G2T	Sanitation and Hygiene	CO1	To know the principles and applications of sanitation in food industry.
FPT5G3T	Eco-Tourism	CO1	Make the students to opt various ecotourism programmes as a self employment stream.
		CO2	Make the students to aware about the usefulness of ecotourism in the conservation of natural resources.
		CO3	Help the students to assess various ecotourism programmes
SEMESTER 6			
FPT6G1T	Food Toxicology	CO1	Provide students with a basic understanding of the principles of toxicology.
		CO2	Provide students an in depth understanding of how the science of toxicology is applied to chemical food and feed safety, including food regulation and risk assessment
FPT6G2T	Computer Hardware and Networking	CO1	Understand the hardware components of a system.
		CO2	Understand basic issues in installing and using software.
		CO3	Understand how a network functions and the issues of network security.

Name of the Programme: BVoc Printing Technology			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
BOCG101	Listening and Speaking Skills in English	CO1	To introduce the students to the speech sounds of English in order to enable them to listen to English and speak with global intelligibility.
		CO2	To enable the students to speak English confidently and effectively in a wide variety of situations.
		CO3	To help the students to improve their reading efficiency by refining their reading strategies.
BOCG102	IT for Business (AOC)	CO1	To familiarize with computer peripherals and fundamentals
		CO2	To make a thorough knowledge in Office word, Excel, power point etc.
CA1G1T	Computer Fundamentals	CO1	To facilitate the student with applied working knowledge of computers.

		CO2	To understand and make a knowledge in Office word, Excel, Power Point.
EE1G1T	Renewable Energy Resources	CO1	To explain concept of various forms of energy resources.
		CO2	To outline division aspects and utilization of renewable energy sources for both domestics and industrial applications.
SEMESTER 2			
BOCG201	Writing and Presentation Skills in English	CO1	To make the students aware of the fundamental concepts of critical reasoning and to enable them to read and respond critically, drawing conclusions, generalizing, differentiating fact from opinion and creating their own arguments.
		CO2	To assist the students in developing appropriate and impressive writing styles for various contexts.
		CO3	To help students rectify structural imperfections and to edit what they have written.
		CO4	To equip students for making academic presentations effectively and impressively.
CA2G1T	Digital Electronics& Microprocessor	CO1	To facilitate the student with the knowledge of Logic Systems, Circuits and Microprocessor
		CO2	Enabling the student to obtain the platform for studying Digital System, Microprocessor Architecture.
EE2G1T	Environmental Studies & Human Rights	CO1	To create awareness about the importance of environment, its ecological balance.
		CO2	To make him/her sensitive to the environment issues in every endeavour that he/she participates.
SEMESTER 3			
CA3G1T	Desk Top Publishing (AOC)	CO1	To make a better understanding of desktop publishing applications.
		CO2	To have better understanding in image editing
EE3G1T	Environmental Impact Studies	CO1	To have an idea of the impacts of manmade activities on the environment.
		CO2	To have an understanding of the possible remedies in this regard.
SEMESTER 4			
CA4G1T	Computer Hardware & Maintenance (AOC)	CO1	To create knowledge of computer hardware and ways of maintaining.
		CO2	To explain the working of computers
		CO3	To identify different components of computers and explain their uses.
EE4G1T	Industrial Energy Management	CO1	To understand the importance of Energy Conservation.
		CO2	To understand the methodology of energy management.
		CO3	To understand energy audit and conservation techniques.

SEMESTER 5			
PT5G1T	Green Printing and Quality Management in Graphic Arts	CO1	To know about bio-degradable and non-biodegradable materials
		CO2	To understand the use of biochemical based material
		CO3	To encouraging greener production with limiting pollution.
PT5G2T	Fundamentals of Advertising	CO1	To learn about fundamentals of advertising
		CO2	To get knowledge about advertising types, design and corporate advertising etc.
PT5GMS1	Minor project/Seminar	CO1	To train the students in preparing project reports
		CO2	To train the students to face reviews and viva voce examination.
SEMESTER 6			
BOCG601	Entrepreneurship Development (AOC)	CO1	To have a practical insight for becoming an entrepreneur.
		CO2	To familiarize with the latest programs of the government authorities in promoting small and medium industries.
		CO3	To impart knowledge regarding how to start new ventures.
PT6G1T	Print plant layout, Costing & Estimation	CO1	To get a clear idea about Printing plant layout.
		CO2	To be able to make costing & estimation in printing materials
PT6G2T	Print Production Management	CO1	To understand the concepts of scheduling and its importance in the printing Industry.
		CO2	To attain complete knowledge of the various applications of inventory and project, management with respect to the Printing Industry.

SKILL COMPONENT

Name of the Programme: BVoc Sustainable Agriculture			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
SAG1S1T	Fundamentals of Agronomy	CO1	To enable the students to acquire knowledge on importance of agriculture.
		CO2	To acquire knowledge on various types of farming.
		CO3	To study the fundamentals of agronomy and classification of field crops.
SAG1S1P	Fundamentals of Agronomy - Practical	CO1	To familiarize with cultivation aspects of cereals and millets.
		CO2	To familiarize with cultivation of pulses and tuber crops

SAG1S2T	Fundamentals of Horticulture	CO1	To acquaint with importance of horticultural crops.
		CO2	To understand the basic principles and types of plant propagation.
		CO3	To understand the division of and classification of crops
SAG1S2P	Fundamentals of Horticulture - Practical	CO1	To develop skill in propagation of horticultural crops
		CO2	To develop skill in aspects of horticultural crops
SAG1S3T	Fundamentals of Entomology and Insect ecology	CO1	To familiarize with insect pests
		CO2	To understand about the Insect ecology
SAG1S3P	Fundamentals of Entomology and Insect ecology- Practical	CO1	To develop skill in different IPM practices in insect pest management
		CO2	To familiarize with insect morphology
SAG1S11	Setting up of crop museum	CO1	To develop skill in setting up of a crop museum for major field crops
SEMESTER 2			
SAG2S1T	Plantation Crops, Spices and Fruits	CO1	To acquaint with the cultivation aspects of Plantation crops, spices and fruit crops.
		CO2	Management practices of crops gaining importance
SAG2S1P	Plantation Crops, Spices and Fruits- Practical	CO1	To acquire skill on cultivation aspects of Plantation crops, spices and fruit crops
SAG2S2 T	Fundament-als of Plant Breeding and Seed technology	CO1	To familiarize with the fundamentals of plant breeding.
		CO2	To familiarize with the basics of seed technology.
SAG2S2P	Fundament-als of Plant Breeding and Seed technology- Practical	CO1	To familiarize with the botanical aspects of field crops.
		CO2	To develop skill in various aspects of seed production.
SAG2S3T	Fundament-als of Agricultural Engineering	CO1	To familiarize with fundamentals of water management.
		CO2	To acquaint with various soil conservation methods.
SAG2S3P	Fundament-als of Agricultural Engineering -Practical	CO1	To familiarize with fundamentals of water management measures
		CO2	To acquaint with various soil conservation methods

SAG2S11	Cultivation of coconut and banana	CO1	To develop skill and to get experience in the cultivation practices of banana.
		CO2	To develop skill and to get experience in the cultivation practices of coconut
SEMESTER 3			
SAG3S1T	Fundamentals of Plant Pathology	CO1	To understand the general characters of major plant pathogens.
		CO2	To acquaint with principles of crop disease management.
SAG3S1P	Fundamentals of Plant Pathology – Practical	CO1	To familiarize with the symptomatology of plant diseases.
		CO2	To develop skill in preparing and using plant protection chemicals and usage of plant protection equipments.
SAG3S2T	Protected cultivation of Horticultural crops	CO1	To familiarize with protected cultivation
		CO2	To familiarize with structures and cultivation practices
SAG3S2P-	Protected cultivation of Horticultural crops-Practical	CO1	To practice with protected cultivation practices of important crops
SAG3S3T	Integrated Pest management in crops	CO1	To get aware about Important groups of microorganisms-bacteria
		CO2	To get aware importance, hazards and limitations
SAG3S3P	Integrated Pest management in crops-Practical	CO1	To familiarize with groups of microorganisms-bacteria
		CO2	To get familiarize with hazards and limitations
SAG3S4T	Plant Physiology	CO1	To familiarise with the physiological processes in plants.
		CO2	To learn about plant nutrients and use of growth regulators.
SAG3S4P	Plant Physiology-Practical	CO1	To practise with the estimation of physiological parameters in plants
SAG3GI1	Cultivation of rice	CO1	To understand the sustainable cultivation aspects of rice under low land condition
SEMESTER 4			
SAG4S1T	Weed Management and Fodder crop production	CO1	To understand the general characters of weeds and their management
		CO2	To acquaint with cultivation of rice, fibre crops, fodder crops, etc.
SAG4S1P	Weed Management and Fodder crop production-Practical	CO1	To familiarize with the general characters of weeds and their management.
		CO2	To familiarize with cultivation of rice, fibre crops, fodder crops etc.

SAG4S2T	Livestock Farming	CO1	To familiarize with fundamentals of livestock farming.
		CO2	To acquaint with the management of various farms.
SAG4S2P	Livestock Farming-Practical	CO1	To familiarize with practices in livestock farming.
		CO2	To acquaint with the management of important farm animals and birds
SAG4S3T	Farm Power and Machinery	CO1	To acquaint with principles of farm machineries and their working
SAG4S3P	Farm Power and Machinery-Practical	CO1	To acquaint with principles of farm machineries and their working
SAG4S4T	Commercial vegetable production	CO1	To understand about Types of vegetable farming
		CO2	To get a knowledge in Importance and scope of vegetable crops of India
SAG4S4P	Commercial vegetable Production - Practical	CO1	To Familiarize with different vegetable crops
		CO2	To understand Main field preparation and planting of transplanted tropical vegetable crops
SAG4GI1	Agricultural Engineering - Farm Machinery	CO1	To acquaint with use of farm machineries in field.
		CO2	Main field preparation, transplanting, nutrient management, weed management etc.
SEMESTER 5			
SAG5S1T	Landscape designing and indoor gardening	CO1	To get awareness on designing and laying out of a landscape.
		CO2	To familiarise with different types and features of garden.
SAG5S1P	Landscape designing and indoor gardening - Practical	CO1	To develop skill in planning and planting of garden lawn.
		CO2	To develop skill in preparation of different types of gardens
SAG5S2T	Commercial Enterprises	CO1	To understand various commercial enterprises in agricultural sector through observation, field visits and presentation.
		CO2	To know about agricultural field visits and presentation
SAG5S2P	Commercial Enterprises-Practical	CO1	To develop awareness on bee keeping, sericulture and lac culture through observation, field visit and reporting.
		CO2	To develop skill in cultivation of edible mushrooms and to develop skill in dry flower production and bouquet making.
SAG5S3T	Fundamentals of organic farming	CO1	To familiarize with the concept of sustainability and sustainable development.
		CO2	To acquaint with the fundamentals of organic farming.
		CO3	To have the knowledge about the organic certification procedures.
SAG5S3P	Fundamentals of organic farming-Practical	CO1	To familiarize with the production and utilization of biofertilizers and biocontrol agents.

SEMESTER 6			
SAG6S1T	Agro Meteorology	CO1	To study various meteorological aspects in relation with crop production
SAG6S1P	Agro Meteorology -Practical	CO1	To study the practical meteorological aspects in relation with crop production
SAG6S3T	Disease Management in Crops	CO1	To understand the sustainable disease management strategies in plantation crops and spices.
		CO2	To understand the sustainable disease management strategies in vegetables, fruits and field crops.
AG6S3P	Disease Management in Crops – Practical	CO1	To familiarize with the major diseases in plantation crops, spices,
		CO2	To familiarize with the major diseases in vegetables, fruits and field crops.
SAG6S11	Agricultural engineering	CO1	Setting up a polyhouse for seedling production with drip irrigation facility
		CO2	Setup a hardening unit with mist propagation in farmers field as a part of *earn while you learn* programme.
SAG6GP1	Project/Dissertation	CO1	To train students to improve agricultural productivity.
		CO2	To find jobs in both public and private sectors

Name of the Programme: BVoc Food Processing Technology			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
FPT1S1T	Basic Principles of Food Processing	CO1	To deliver a sequence of steps to produce an acceptable and quality food product from raw materials
		CO2	Study of scientific and technological advancements in food processing
FPT1S2T	Basic Principles of Food Preservation	CO1	To enable the students to acquire knowledge on different preservation techniques used to enhance the shelf span of food product
		CO2	To study the different mode of spoilage in foods and minimize the contamination by different preservation technology
FPT1S3T	Food Chemistry	CO1	To acquaint various functional chemical constituents of food
		CO2	To build a relationship between the dynamic forces of food and the dynamic forces of digestion and growth
FPT1S3P	Food Chemistry Practical	CO1	To test the presence of carbohydrates and proteins in food samples
		CO2	To estimate the nutrients in different food samples
FPT1S1I	Internship/ field work	CO1	To develop basic skills of food processing.
		CO2	To expose to a particular job , profession or an industry.
		CO3	To gain skills that can be applied to future jobs.

SEMESTER 2			
FPT2S1T	Food Additives	CO1	To attain knowledge regarding the use of additives in the food industry, laws related to food additives and to prevent the involuntary infringement of analytical procedures
FPT2S2T	Basic Principles Of Food Engineering	CO1	Students will be able to apply material balances and energy balances to the field of food engineering.
		CO2	Students will be able to understand equipment used in the food industry
FPT2S3T	Basic Micro-biology	CO1	Acquire an elementary knowledge about micro organisms.
		CO2	Develop an understanding of industry and in maintenance of health
FPT2S3P	Basic Micro-biology - Practical	CO1	To study the basic rules and requirements of a microbiology laboratory
		CO2	Give emphasis towards the preparation of biological stains, reagents, media and their composition.
		CO3	To get thorough different methods for staining of microorganisms.
FPT2S1I	Internship/ field work	CO1	To develop basic skills of food processing
		CO2	To expose to a particular job, profession or an industry.
		CO3	To gain skills that can be applied to future jobs
SEMESTER 3			
FPT3S1T	Food Processing Machineries	CO1	To study the design of food process and food plant design, based on the established chemical process designed.
		CO2	To discuss the various processing equipment on the basis of unit operations of mechanical processes.
FPT3S2T	Bakery And Confection-ery Technology	CO1	To highlight the processing methods used in confectionary and culinary industries.
FPT3S3T	Food Analysis and Adulter-ation Testing	CO1	To understand different sampling techniques employed in chemical analysis of foods.
		CO2	To learn various chemical methods of food analysis.
		CO3	To be familiar with adulteration test used for quality control.
FPT3S4P	Food Product Developme nt -Practical	CO1	To learn various processing aspects of food products having economic importance.
FPT3S5T	Fats and Oil Processing Technology	CO1	To understand various aspects of oil processing technology employed in food industry.
		CO2	To learn various chemical and packaging of oils.
FPT3S6T	Cereals and Pulses Technology	CO1	To give a general outline about the principles, structure and composition, economic importance and storage of different cereals, pulses and their products.
FPT3S1I	Internship/ field work	CO1	To develop basic skills of food processing
		CO2	To expose to a particular job , profession or an industry.
		CO3	To gain skills that can be applied to future jobs.

SEMESTER 4			
FPT4S1T	Dairy Technology	CO1	To know the importance of milk as an agricultural commodity.
		CO2	To be innovative in exploring various traditional and nontraditional milk products.
FPT4S1P	Dairy Technology -Practical	CO1	To analyze the chemical constituents of milk as an agricultural commodity.
		CO2	To be innovative in exploring various traditional and nontraditional milk products.
FPT4S2T	Meat Fish and Poultry Processing Technology	CO1	To provide an extensive description of meat, fish and poultry processing
		CO2	To introduce the latest technologies, manufacturing processes and tools for effective control of safety and quality during processing.
FPT4S3T	Fruit and Vegetable Processing Technology	CO1	To acquire knowledge about the selection of fruits for processing and value addition.
		CO2	To introduce the latest technologies, manufacturing processes and tools for effective control of safety and quality during processing.
FPT4S3P	Fruit and Vegetable Processing Technology -Practical	CO1	To be innovative in exploring various processed and value added from agricultural commodities.
FPT4S4T	Functional Foods And Neutraceuticals	CO1	To understand the basics of neutraceuticals and functional foods.
		CO2	To study the significance of neutraceuticals and their role in disease prevention.
		CO3	To identify new strategies for marketing of traditionally known neutraceuticals.
FPT4S1I	Internship/ field work	CO1	To develop basic skills of food processing
		CO2	To expose to a particular job , profession or an industry.
		CO3	To gain skills that can be applied to future jobs
SEMESTER 5			
FPT5S1T	Food Packaging	CO1	To be familiar with different methods and materials used for packaging.
		CO2	To understand the technology behind packaging.
FPT5S2T	Technology of Beverages	CO1	To enable the students to get an up to date knowledge about fermented foods and beverages.
FPT5S3T	Drying Technology	CO1	To be familiar with different methods of drying.
		CO2	To understand the technology behind drying.
FPT5S1I	Internship/ field work	CO1	To develop basic skills of food processing
		CO2	To expose to a particular job , profession or an industry.
		CO3	To gain skills that can be applied to future jobs.
SEMESTER 6			
FPT6SIT	Analytical Methods in Food Processing.	CO1	To know the principles and applications of different techniques used in food and nutrition research
		CO2	To gain knowledge about different instruments used in food analysis.

FPT6SIP	Analytical Methods in Food Processing-Practical	CO1	To gain knowledge about different instruments used in food analysis.
FPT6S3T	Entrepreneurship Development	CO1	Understand the significance of entrepreneurs in the development of a country.
		CO2	Familiarise with procedures and legal issues involved in setting up an enterprise.
		CO3	Get motivated to become an entrepreneur.
FPT6S1I	Internship/ Field work	CO1	To develop basic skills of food processing
		CO2	To expose to a particular job , profession or an industry.
		CO3	To gain skills that can be applied to future jobs.
FPT6SP1	Project/Dissertation	CO1	To train students to develop new products and to familiarize with physical, chemical and biological analysis.
		CO2	To find jobs in public and private sectors
		CO3	To get an on job training in various food industries.

Name of the Programme: BVoc Printing Technology			
Course Code	**Course Title**	**Course Outcomes**	
SEMESTER 1			
PT1S1T	Fundamentals of Printing Technology	CO1	To enable the students to acquire knowledge on importance of printing and various types of Printing Technologies.
		CO2	To study the fundamentals of printing, machines, materials and packing.
PT1S2T	Graphic Design and Reproduction	CO1	To introduce the study of design as a decision making discipline which controls all the production aspects of printing techniques.
		CO2	To acquire Knowledge of Typography, colours, optical science like reflection, transmission, photographic concept, optical density.
		CO3	To acquire Knowledge in Printing processes and different printing products.
PT1S2P	Graphic Design and Reproduction - Practical	CO1	To gain skill to use the digital tools
		CO2	To know communication for creation, modification & presentation.
PT1SV1	Vocational Workshop-I (Pre-Press Software Lab)	CO1	To improve vocational skills in students.
		CO2	To familiarize with principle of different systems, their technology in printing industry.

SEMESTER 2			
PT2S1T	Printing Material Science	CO1	To acquire a good knowledge and skills of using printing materials like substrates-paper, polymer, foils etc. ink, consumables etc. These materials have different characteristics and properties.
		CO2	The subject deals with the materials and its science involved in testing and application.
PT2S2T	Printing Machineries	CO1	To develop a deep knowledge in sheet fed offset machine.
		CO2	To understand Web Offset Press
PT2S2P	Printing Machineries – Practical	CO1	To develop a practical knowledge in Sheet fed
		CO2	To know web offset machines
PT2SV1	Vocational Workshop-II (sheetfed & webfed Offset Printing)	CO1	To impart a good knowledge and skills in web offset printing machines
		CO2	To get knowledge in offset operational units.
SEMESTER 3			
PT3S1T	Digital Technology	CO1	To be able to describe various process of digital printing
		CO2	Describe about consumables required for the process.
PT3S1P	Digital Technology - Practical	CO1	To familiarize with various process of digital printing.
		CO2	To familiarize printing consumables.
PT3S2T	Printing Image Generation	CO1	To be able to describe various process of Printing Image Generation
		CO2	To have an idea in Flexographic plate preparation
PT3SI1	Industrial Training-I/ Apprenticeship	CO1	To expose the students to actual working environment.
		CO2	To enhance knowledge and skill from what learned in the college.
SEMESTER 4			
PT4S1T	Print Finishing and Converting	CO1	To know various finishing operations, equipments.
		CO2	To have good knowledge in Quality control and use of consumables.
PT4S1P	Print Finishing and Converting – Practical	CO1	To familiarize with various finishing equipments, Quality control
		CO2	To have experience in the use of consumables.
PT4S2T	Gravure & Non Impact Printing Technology	CO1	A better understanding of different gravure printing machines, their operational units.
		CO2	To develop awareness about various digital work flows and technologies in printing.
		CO3	To impart an idea about the various scope and Developments of printing technology

PT4S3T	Flexography and Screen Printing Technology	CO1	To create an understanding of features &application of Flexography
		CO2	To explain Screen printing technologies.
PT4S3P	Screen Printing Technology - Practical	CO1	To familiarize with features of Screen printing equipments.
		CO2	To familiarize with application of Screen printing equipments.
PT4SI1	Industrial Training-II/ Apprentice-ship	CO1	To expose the students to actual working environment.
		CO2	To enhance knowledge and skill from what learned in the college.
SEMESTER 5			
PT5S1T	Specialty and Security Printing	CO1	Students will be able to know specialty items special equipments and adjustment of machineries.
		CO2	To understand Security printing in packaging
PT5S2T	Printing Machine Maintenance	CO1	To make the students understand about mechanism, maintenance and relevant technical specification of various machines in the printing industry.
		CO2	To provide necessary information about various machines along with repair and maintenance of these machines.
PT5S2P	Printing Machine Maintenanc e- Practical	CO1	To provide necessary practical exercises with print machineries
		CO2	To provide print machineries repair and maintenance.
PT5SI1	Industrial Training-III/ Apprentice-ship	CO1	To expose the students to actual working environment.
		CO2	To enhance knowledge and skill from what learned in the college.
SEMESTER 6			
PT6S1T	Packaging Technology	CO1	To impart basic knowledge of packaging technology to enable the student to apply the same in his professional career.
		CO2	To know the basics of Modern Food Packaging
PT6S1P	Packaging Technology - Practical	CO1	To Know about designing and preparation of package designs.
		CO2	To Study the operation of various packaging machines.
PT6SMP1	Major Project	CO1	To develop the ability to solve a specific problem right from its identification and literature review till the successful solution of the same.
		CO2	To have a training in preparing project reports and to face reviews and viva voce examination.
		CO3	To have deepen comprehension of principles by applying them to a new problem which may be the design and fabrication of a device for a specific application, a research project with a focus on an application needed by the industry/ society, a computer project, a management project or a design project.
