

ST. THOMAS COLLEGE PALAI

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

(Affiliated To Mahatma Gandhi University, Kottayam)



COURSE OUTCOMES

(Academic Year 2018-19)

ARUNAPURAM P. O., KOTTAYAM, KERALA – 686 574

www.stcp.ac.in, e-mail: principal@stcp.ac.in, principal.stc@gmail.com

Phone: 04822-212316, 212317; Fax: 04822-216313; Mob: +919447140859

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 Imagination	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	Illuminations	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	ML1CCT01	Katha Sahithyam	CO1	Recognize general awareness in literature
			CO2	Appreciate importance of literature and life To sensitize aspects in Malayalam
BCom	ML1CCT05	Kathayum Kavithayum	CO1	General awareness about Malayalam literature
			CO2	Introducing new common trends in Malayalam literature
HINDI				
BA BSc	HN1CCT01	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	HN1CCT01	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	GR1CCT07	Basic Grammar and Translations	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 Communica- tion	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	Communica- tive 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 15 th Century)	CO1	Awareness of literature.
			CO2	Understands history and culture of Syrians especially from 15 th 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.
EN5CRE N01	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 medieval 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 Manushyavaka sa 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 course 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 Methodologies 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	Environment al 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
HY5VO T17	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
HY6VO T18	Understandin g 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 Administration	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			
ENCRT0 2	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 Communicati on	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 Communicati on	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 CROPG0 3	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			
MM1CR T01	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			
MM2CR T01	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			
MM3CR T01	Calculus	CO1	Find the higher order derivative of the product of two functions.
		CO2	Expand a function using Taylor's and Maclaurin's series.
		CO3	Conceive the concepts of convexity, envelopes, asymptotes.
		CO4	Learn about partial derivatives and its applications.
SEMESTER 4			
MM4CR T01	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			
MM5CR T01	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.
MM5CR T02	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.
MM5CR T03	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
MM5CR T08	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			
MM6CR T01	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.
MM6CR T02	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

MM6CR T03	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
MM6CR T04	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			
PH1CR T01	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			
PH2CR T02	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			
PH3CR T03	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			
PH4CR T04	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			
PH5CR T05	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.
PH5CR T06	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.
PH5CR T07	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++
PH5CR T08	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			
PH6CR T09	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.

PH6CR T10	Relativity and spectroscopy	CO1	Provide an idea of Galilean 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.
PH6CR T11	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.
PH6CR T12	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			
CH1CR T01	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			
CH2CR T02	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			
CH2CR T03	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			
CH4CR T04	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			
CH5CR T05	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.
CH5CR T06	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
CH5CR T07	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.
CH5CR T08	Physical Chemistry -II	CO1	The objective of this academic plan is to make the concepts and methods of physical chemistry clear and interesting to students, who have basic ideas in mathematics and physics
		CO2	The underlying theory of chemical phenomena is completed, and so it is a challenge to make the most important concepts and methods understandable to undergraduate students.

SEMESTER 6			
CH6CR T09	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
CH6CR T10	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
CH6CR T11	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.
CH6CR T12	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			
BO1CRT 01	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	Environmenta l 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			
ZY1CRT 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			
ZY1CRT 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			
ZY1CRT 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			
ZY1CRT 05	Environment al 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.
ZY1CRT 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.
ZY1CRT 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.
ZY1CRT 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			
ZY1CRT 09	Development al 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.
ZY1CRT 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.
ZY1CRT 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.
ZY1CRT 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			
PET4CR T10	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
		CO2	To learn the various skill and qualities required for an entrepreneur.
		CO3	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 Administration	CO1	To familiarize the students with the management of companies in India
		CO2	To create an understanding among the students on administration of joint stock companies in India
		CO3	To help the students to understand the implications of business laws in India with special focus to Companies Act, 2013
SEMESTER 2			
CO2CRT 04	Financial Accounting II	CO1	To equip the students with the skill of preparing financial accounts with advanced techniques
		CO2	To enable students to account for dissolution of partnership firms
		CO3	To familiarize the application of important accounting standards
CO2CRT 05	Business Regulatory Framework	CO1	To familiarize the students with the legal framework influencing business decisions
		CO2	To make an understanding among students about principal – agency relationship in business
		CO3	To equip the students with practical implications of Sale of Goods Act, 1930
CO2CRT 06	Business Management	CO1	To familiarize the students with concepts and principles of management
		CO2	To introduce various management techniques
		CO3	To introduce various management practices
SEMESTER 3			
CO3CRT 07	Corporate Accounts I	CO1	Familiarize with corporate accounting procedures and to understand the provisions of Companies Act 2013 in accounting.
		CO2	Equip the students to use new accounting schedules for the preparation of final statements.
		CO3	Develop the students to handle the accounting procedures in the corporate for buy back, redemption, right issue and underwriting.
		CO4	Students are able to handle the accounting procedure of the insurance company and its clients while raising claims.
CO3CRT 08	Quantitative Techniques for Business-1	CO1	Students are getting clarity about the statistical theory in real life situation.
		CO2	Equip the students to handle business issues by using proper statistical tools.
		CO3	Students are able to identify the appropriate statistical tool for the specific issues of the business firms.
CO3CRT 09	Financial Markets and Operations	CO1	Familiarize the student about the financial markets rules and laws in India.
		CO2	Students are able to understand the technical explanation about the financial market operations.
		CO3	Develop the skill to help others on the different market situations in a specific manner.

		CO4	Equip the students to get a job in securities trading firms and other market related institutions.
CO3CRT 10	Marketing Management	CO1	Students are equipped to identify the different marketing strategies used by the business firms.
		CO2	Understand the pricing strategies adopted in the marketing process.
		CO3	Develop the skill of sales.
		CO4	Make the students to be suitable for profession in Marketing field.
SEMESTER 4			
CO4CRT 11	Corporate Accounts II	CO1	Equip the students to prepare the final accounts of Investment Company as per Companies Act 2013.
		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	Entrepreneur ship 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	Advertiseme nt 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	Microprocess ors 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
CA5OPT	Fundamentals of Accounting	CO1	Students should able to understand fundamental accounting concepts and principles, as well as to develop the capability to perform the basic accounting functions.
		CO2	Students should able to develop and understand the nature and purpose of financial statements in relationship to decision making
		CO3	Students should able to develop the ability to use the fundamental accounting equation to analyze the effect of business transactions on an organization's accounting records and financial statements.
		CO4	Students should able to develop the ability to use a basic accounting system to create (record, classify, and summarize) the data needed to solve a variety of business problems
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	EN5CR OP03	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	ML5OP T01	Pathra Pravarthanam	CO1	Introducing basics of journalism
			CO2	Familiarizing new trends in journalism
Economics	EC5OP T01	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	PS5OPT 04	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	HY50C T02	Social Implications of Modern Revolutions	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.
Communicative English	EN5CR OPG03	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	MM5O PT02	Applicable Mathematics	CO1	To prepare students of all streams particularly those with arts and commerce background for their higher studies and to approach competitive examinations
			CO2	To acquire better understanding in basic concepts of mathematics
			CO3	To introduce shortcut methods for developing problem solving skills
Physics	PH5OP T02	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	CH5OP T01	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	EN6CB01	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	Malayalathile 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	MM6C BT01	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	PH6CB T03	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	CH6CB T01	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	BO6PE T02	Plant genetic resource managem ent	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	ZY6B1 5U	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	CO3OC T01	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	CO4OC T01	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	CO5OC T01	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	CO6OC T01	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	CO3OC T02	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	CO4OC T02	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	CO5OC T02	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	CO6OC T02	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	CA6PE T	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			
PS1CM T01	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			
PS4CM T05	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 Ezhuthukaran / Ezhuthukari-Madhavikutty	CO1	Liberate women hood and creativity in Madhavikutty
		CO2	Romanticism through Madhavikutty- A Feminine Writer
SC3CM T01	Sanskrit	CO1	Introducing Basics of Sanskrit and Grammar.
SEMESTER 4			
ML4CM T06	Adhunika Malayala Bhasha	CO1	Rising the evolution of Malayalam as a modern language.
		CO2	Identify the pros and cons of new Malayalam language.
SC3CM T02	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 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 Napoleon 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			
PS3CMT 01	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			
PS4CMT 05	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			
EC1CM T01	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			
EC2CM T02	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			
PS3CMT 01	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			
PS4CMT 05	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 contempora ry 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 Napoleon 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			
EC3CM T01	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			
EC4CM T02	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			
EN1CM T01	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			
EN2CST 03	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			
ST3CM T03	Probability Distributions	CO1	Acquaint the students familiar with basic probability distributions
		CO2	Acquaint the students familiar with their properties of probability distributions
		CO3	Problem solving skill
PH3CM T01	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			
ST4CM T04	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
PH4CM T01	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			
MM1C MT01	Partial Differentiation, Matrices, Trigonometry and Numerical Methods	CO1	Understand the concept of partial differentiation of functions of several variables.
		CO2	Solve systems of linear equations using different methods.
		CO3	Understand trigonometric and hyperbolic functions in detail.
		CO4	Learn how to solve equations using numerical methods.
CH1CM T01	Basic Theoretical and Analytical Chemistry	CO1	This part of the syllabus will impart an interest in studying chemistry.
		CO2	Students are getting more ideas about theoretical and experimental Chemistry.
		CO3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.
SEMESTER 2			
MM2C MT01	Integral Calculus and Differential Equations	CO1	Use integral calculus to find area and volume of various geometrical objects.
		CO2	Master the concepts of double integrals and triple integrals
		CO3	Recognize and solve separable, exact, homogeneous and non-homogeneous ordinary differential equations
		CO4	Solve partial differential equations.
CH2CM T02	Basic Organic Chemistry	CO1	By studying this part of the syllabus students are getting basic ideas of organic chemistry, which enables them to build a better foundation
		CO2	The course aims to study the mechanism of organic reactions
		CO3	It also develops an interest in various branches of organic chemistry.
CH2CM P01	Volumetric Analysis- Practical	CO1	Plan and Conduct different estimation technique.
		CO2	To study the effect of various indicators
		CO3	To estimate and check the accuracy of the given sample
SEMESTER 3			
MM3C MT01	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
CH4CM T03	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			
MM4C MT01	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
CH4CM T05	Physical Chemistry - II	CO1	The objective of this academic plan is to make the concepts and methods of physical chemistry clear and interesting to students, who have basic ideas in mathematics and physics
		CO2	The understand theory of modern branches like spectroscopy
CH4CM P02	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			
PH1CM T02	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			
PH2CM T02	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			
PH3CM T02	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			
PH4CM T02	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			
ZY1CM T01	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.
CH1CM T01	Basic theoretical and analytical chemistry	CO1	This part of the syllabus will impart an interest in studying chemistry
		CO2	students are getting more ideas about theoretical and experimental Chemistry
		CO3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.
SEMESTER 2			
ZY2CM T02	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.
CH2CM T02	Basic Organic Chemistry	CO1	By studying this part of the syllabus students are getting basic ideas of organic chemistry, which enables them to build a better foundation
		CO2	The course aims to study the mechanism of organic reactions
		CO3	It also develops an interest in various branches of organic chemistry.
CH2CM P01	Volumetric Analysis- Practical	CO1	Plan and Conduct different estimation technique.
		CO2	To study the effect of various indicators
		CO3	To estimate and check the accuracy of the given sample
SEMESTER 3			
ZY3CM T03	Physiology and Immunolog y	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.
CH4CM T04	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			
ZY4CM T04	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.
CH4CM T06	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
CH4CM P03	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			
BO1CMT 01	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.
CH1CM T01	Basic theoretical and analytical chemistry	CO1	This part of the syllabus will impart an interest in studying chemistry
		CO2	students are getting more ideas about theoretical and experimental Chemistry
		CO3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.
SEMESTER 2			
BO2CM T02	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.
CH2CM P01	Volumetric Analysis- Practical	CO1	Plan and Conduct different estimation technique.
		CO2	To study the effect of various indicators
		CO3	To estimate and check the accuracy of the given sample
CH2CM T02	Basic Organic Chemistry	CO1	By studying this part of the syllabus students are getting basic ideas of organic chemistry, which enables them to build a better foundation
		CO2	The course aims to study the mechanism of organic reactions

		CO3	It also develops an interest in various branches of organic chemistry.
SEMESTER 3			
BO3CM T03	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.
CH4CM T04	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			
BO4CM T04	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.
CH4CM T06	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
CH4CM P03	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			
PE1CM T01	Managemen t 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			
PE2CM T02	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			
PE3CM T03	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			
PE4CM T04	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			
CO1CM T01	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			
CO2CM T02	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 Mathematic s	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 domestic 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.
FPR3G1T	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 domestic 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
AG2S1P	Plantation Crops, Spices and Fruits- Practical	CO1	To acquire skill on cultivation aspects of Plantation crops, spices and fruit crops
SAG2S2T	Fundamentals 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	Fundamentals 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	Fundamentals of Agricultural Engineering	CO1	To familiarize with fundamentals of water management.
		CO2	To acquaint with various soil conservation methods.
SAG2S3P	Fundamentals 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 <i>earn while you learn</i> 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 Neutraceuti cals	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			
FPT6S1T	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/ Apprentices hip	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 Maintenance- 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.

POSTGRADUATE PROGRAMMES – MA/MSc/MCom

Name of the Programme: MA English

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
PC 1	Chaucer and the Roots of English	CO1	To provide the student with knowledge of the growth of English language and literature up to the age of Chaucer.
		CO2	Introduces the student to the social cultural and intellectual background of the late Medieval period in English Literature and to sensitize him/her to the major literary works of the period.
PC 2	Writings of the Renaissance	CO1	To introduce the English Renaissance and the texts that shaped it/were shaped by it.
		CO2	To provide a theoretical/critical reading of the era and the texts in the light of recent theoretical interventions like New Historicism which had a special interest in Renaissance texts.
PC 3	Revolution and the Enlightenment	CO1	To familiarize the student with the English literature of the Seventeenth Century
		CO2	To provide him/her with analytical/critical perspectives on the social, cultural and intellectual climate of the period
PC 4	Literary Criticism and Academic Writing	CO1	To familiarize the students with the key concepts and texts of literary criticism ever since its emergence
		CO2	To provide practical and theoretical familiarity with the range, approaches, and mechanics of academic writing
PC 5	Indian English Literature	CO1	To familiarize the students with one of the most significant literatures produced in the English language from the non English speaking cultures.
		CO2	To make conscious of the colonial context in which Indian English developed as a language and literature
SEMESTER 2			
PC 6	Literature of the Nineteenth Century	CO1	To familiarize the students with two prominent eras in English literature, namely the latter half of the 18th century, first half of the 19th century and the latter half of the 19th century.
		CO2	To drive home the romantic sensibility that reigned supreme for more than half a century.
PC 7	Modernism in Context	CO1	To familiarize the students with the literary trends of the early twentieth century in the context of the sensibility of literary modernism in the wake of the World War.

		CO2	To introduce the changed literary perspectives in the twentieth century, along with the social, economic and political background. Imperial expansion which had reached a boiling point, the onset of the World War I coupled with the attempts at creating a new world order
PC 8	Dimensions of the Postmodern	CO1	To introduce the student to the developments in literature written in English since the 1960s.
		CO2	To have an insight into the experimental and metropolitan literature
PC 9	Language and Linguistics	CO1	To inculcate in the pupils awareness about the basic concepts of linguistics, the scientific study of language.
		CO2	Covers the important areas in linguistics and updates the pupil on the most recent advances in the theory of language study.
PC 10	Theories of Knowledge	CO1	To introduce literary theory and its latest developments to students.
SEMESTER 3			
PC 11	American Literature	CO1	To introduce the most important branch of English literature of the non British tradition.
		CO2	To provide an overview of the processes and texts that led to the evolution of American literature as an independent branch or school of literature.
PC 12	Cultural Studies	CO1	To introduce students to the terms, analytical techniques, and interpretive strategies commonly employed in Cultural Studies.
		CO2	To explore how cultural processes and artefacts are produced, shaped, distributed, consumed, and responded to in diverse ways.
PC 13	Gender Studies	CO1	To make the student familiar with the emergence and growth of the notion of gender as a concept central to the reading of literature.
		CO2	To introduce a wide variety of theoretical, critical and creative works that define and redefine the concept as it is understood in contemporary society.
PC 14	Modes of Fiction	CO1	To familiarise the student with the various modes of narrative fiction attempted across centuries, continents and languages.
		CO2	To introduce the various schools, influences and narrative devices that shaped narrative fiction in its present form.
PC 15	Texts and Performance	CO1	To facilitate an understanding of the basic structural and thematic patterns that governs the poetic process, especially in its relation to the performative or the theatrical.
		CO2	To introduce Marginalized theatres, issues like gender, ethnicity, etc.
		CO3	To discuss the development of theatre from classical times, Anti-Aristotelian notions like Alienation Effect, the Indian notion of Rasa etc.
SEMESTER 4			
PC 16	Literature and the Empire	CO1	To introduce the students to the discursive nature of colonialism, and the counter discursive impulses of postcolonial theory, narratives and performance texts.

		CO2	To cover through representative texts the writing, reading and critical-theoretical practices based on the colonial experience
PE01	Modern European Drama	CO1	To familiarize the student with modern European Drama in terms of topics, perspectives, and dramatic literature.
		CO2	To revisit the ideological foundations of modernism.
PE02	Shakespeare across Cultures	CO1	To situate the timeless genius of Shakespeare across cultures, literatures and authors.
		CO2	To address the impact of Shakespeare at the theoretical and textual levels.
PE08	The Indian Poetic Tradition	CO1	To familiarize the students with the major texts of the Indian tradition in the light of Indian poetic principles.
		CO2	To introduce the eight major schools of Indian Aesthetics.
PE 09	Modern European Fiction	CO1	To introduce the student to a selection of European fiction spanning the second half of the nineteenth century and the twentieth century.

Name of the Programme: MA Malayalam

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
ML010101	Kavitha Pracheenam Madhyakalam	CO1	To identify developments of poetry from medieval
		CO2	Realize aesthetics of oral poetry
ML010102	Malayala Bhasha Charithravum Varthamanavum	CO1	Recognize history of Malayalam through critical attitude
		CO2	Recognize the relation of social development and mother tongue
ML010103	Malayala Cherukatha	CO1	Realize evolution and development of Malayalam short story as a narrative
		CO2	Recognize new aesthetic trends in Malayalam short stories
ML010104	Sahithya Rachana Sankethangal	CO1	Introducing Stylistics in world narratives
		CO2	Recognize different meters in Malayalam poetry
MI010105	Sanskrit	CO1	Create an opportunity to study aesthetics of Sanskrit in the same
		CO2	Recognize many aesthetic attitudes of Sanskrit
SEMESTER 2			
ML010201	Adhunika Malayala kavitha onnam gattam	CO1	To identify the changes of Malayalam poetry in the half of nineteen century
		CO2	Realize the influence of renaissance in Malayalam literature

ML010202	Bhasha Sasthram	CO1	Analyze Malayalam language on the basis of linguistic discourse
		CO2	Realize draveedian Language on the basis of dichromatic age
ML010203	Kerala Culture	CO1	Realizing different movements in ages
		CO2	Enquiring about marginalized studies
ML010204	Malayalam Novel	CO1	Realizing the process of evolution of prose in Malayalam
		CO2	Realizing growth of theoretical devices n Malayalam prose
MI010205	Bharatheeya Sahithya Sidhanthangal	CO1	Make an evaluation about analyzing aesthetic theories of ancient India
		CO2	Promote an interest in interdisciplinary theoretical aspects
SEMESTER 3			
ML010301	Adhunika Malayala Kavitha Randam gattom	CO1	Realize modernity in Malayalam poetry
		CO2	Realize cultural difference in post modern poetry
ML010302	Malayala Bhasha vyakaranam Malayala Cherukatha	CO1	Acquiring knowledge of critical thinking in Malayalam Grammar
		CO2	Compare and identify the problems of mile stones in Malayalam grammar
ML010303	Malayala Niroopanam	CO1	Realize evolution and development of Malayalam criticism
		CO2	Inculcate creativity in criticism
ML010304	Drishyakala Sahithyam	CO1	Evaluate different visual arts such s folklore and classical arts
		CO2	Appreciate it as our legacy
MI010305	Paschathya Sahithya Sidhanthangal	CO1	Make an awareness ancient western philosophy from Greek
		CO2	Realize historical events in the development of new philosophical thoughts
SEMESTER 4			
ML010401	Nadakavum cinimayum	CO1	Make an enquiry about human aspects and social reality narrated in visual arts
		CO2	Make a detailed study of history and aesthetics of visual arts
ML010402	Sahithya charithra vinjaneeyam and methodology	CO1	Make an evaluation of the ideology of historical Narrations
		CO2	Make a critical thinking about narration of history in Malayalam
ML800401	Vivarthana Sahithyam	CO1	Make a general awareness of translations in Malayalam
		CO2	Inculcate an attitude towards translations
ML800402	Dalit stree paristhithi sahithya vicharam	CO1	Realize post modernism as a diversity of dalit and so on
		CO2	Make an invention about marginalized literature
ML800403	Cyber samskaravum sahithyavum	CO1	Recognize the importance of cyber aesthetics
		CO2	Appreciate different faces of cyber literature

Name of the Programme: MA Hindi

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
HN1 PC 01	Ancient Poetry	CO1	To make the student familiar with the ancient culture and political tradition of early and Post medieval Hindi Poetry
		CO2	To develop the ability to identify a variety of forms and genres of poetry from diverse culture and historic periods.
		CO3	To familiarize the rhythms, metrics and other musical aspects of poetry.
HN1 PC 02	Prose	CO1	To make students familiar with sketches memories auto biography etc.
		CO2	To develop the ability to write clear sentences and construct paragraphs and essays.
		CO3	To construct personally meaningful and culturally relevant connections to the text.
HN1 PC03	History of Hindi Literature	CO1	To develop an outlook about the ancient history of Hindi literature.
		CO2	To know about the important changes and movements of the referred period.
		CO3	To know about the culture of our country through the famous works of this period.
HN1 PC04	Bhasha Vigyan	CO1	To understand the principles and assumptions governing modern linguistics.
		CO2	Student will be able to understand different branches of linguistics.
		CO3	Student will be able to understand the concepts, theories and methodologies used by linguists in quantitative and qualitative analysis of linguistic structure and patterns of language use.
HN1PC05	Drama and Theatre	CO1	To make the students familiar with drama and other forms of arts.
		CO2	Students will be able to compare and construct characters within the plays.
		CO3	Students will be able to demonstrate an appreciation of the literature through the discussion and written analysis.
SEMESTER 2			
HN2 PC O6	Ancient Poetry –II	CO1	Ancient poetry conveys Philosophical Heritage of the Middle ages.
		CO2	The student will be able to apply the principles of literary criticism to the analysis of poetry.
		CO3	Student will be able to develop their own creativity enhance their writing skills.
HN2 PC 07	Fiction up to 1950.	CO1	To make students familiar with novel and stories
		CO2	To develop the skill to write with proficiency in one or more creative literary form with constrictively and critical proficiency.
		CO3	Student will be able to recognize ,explain ,and apply various theoretical models in writing.

HN2 PC08	History of Hindi Literature	CO1	To make the students familiar with ancient and modern culture.
		CO2	To develop an authentic knowledge about the development of literature.
		CO3	To familiarize with great writers and their thoughts and philosophy.
HN2 PC09	History and Structure of Hindi Language.	CO1	To understand the principles and assumptions governing modern linguistics.
		CO2	Student will be able to understand the process of language change and variation, the role of languages in reflecting and constructing social identities.
		CO3	To understand the classification of language and the development of Hindi language and lipi.
HN2 PC10	Bharatheeya Kavya Sastra aur Hindi Alochana.	CO1	To create an ability in the students to analyse and understand Kavya and its definition.
		CO2	Students will learn many notable works of criticism combine discussions of texts with broad arguments about the nature of literature.
		CO3	Criticism will help the students to cover all phrases of literary understanding.
SEMESTER 3			
HN3 PC 11	Aadunik Kavitha -I	CO1	To make aware of the Hindi poets through analyzing their major poetic contributions.
		CO2	To familiarize the different trends in Hindi Poetry such as Chayavad, Pragadivad, Prayogvad etc.
		CO3	Students will be able to offer a critical discussion of major texts in a formal academical way.
HN3 PC 12	Katha Sahitya-II	CO1	To make students familiar with novels and stories.
		CO2	The study of significant writers like Premchand ,Agneya strengthens the moral and human values of the students.
		CO3	To understand and appreciate Hindi prose
HN3 PC13	Bharatheeya Sahithya	CO1	To make the students familiar with ancient and modern culture.
		CO2	To familiarize with the important events of Indian culture.
		CO3	To enrich the knowledge of cultural history in India and the historical developments.
HN3 PC14	Translation Studies	CO1	To understand the principles and assumptions governing modern linguistic.
		CO2	To use new technology like internet and computer in learning language and acquiring skills
		CO3	To understand the process of translation and the qualities of translation.
HN3 PC15.	Paschathya Kavya Sastra	CO1	To study the development of western poetics.
		CO2	Students will be able to understand western theoreticians from Plato to Deride.
		CO3	Students will be able to understand the development of western poetics.
SEMESTER 4			
HN4 PC 16	Aadunik Kavitha-II	CO1	To experience the various dimensions in the content and form of the poetry of this period
		CO2	The students could familiarize and enjoy the aesthetic and sociological scenario of Post-Independent Hindi poetry.

		CO3	The aspects of modern poetry will help the students to understand society and makes them aware of their rights and duties
HN4 PE 1	Dalit Vimarsh	CO1	To make students familiar with major trends of Dalit literature.
		CO2	To develop an awareness about the Dalit movement in India, major trends of Dalit literature, literature of protest, literature of liberty.
		CO3	A study of Dalit literature promotes co-operation and love which are major forces of a good society
HN4 PE 2	Special Author-Nirmal Varma	CO1	To make the students familiar with the famous author Nirmal Varma and his works.
		CO2	To give awareness of different literary works like short story and novel.
		CO3	To develop the capacity of creative process and communication skills.
HN4 PE 3	Special Author-Bhishma Sahnee	CO1	To make the students familiar with Bhishma Sahnee and his novel and drama.
		CO2	Students will be able to appreciate and analyze independently the drama of Bhishma Sahnee
		CO3	To understand the distinct features of Hindi Drama
HN4 PE 4	Special Author-Agneyaa.	CO1	The students will have clear idea about the multi-dimensional literary works Agneyaa.
		CO2	The learner could also familiarize the impact of literary thoughts of Agneya on later generation of Hindi Literature.
		CO3	The student will be able to appreciate and analyze independently the novel, short stories and poems of Agneya

Name of the Programme : MA Economics			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
ECOPGS1 1	Micro Economics Theory of Consumer Behaviour & Firm	CO1	IT enables the student in taking rational buying decisions and also helps a firm to design suitable marketing strategies
ECOPGS1 2	Macro Economic Theory and Policy	CO1	integrating theoretical knowledge to evaluate policy measures and analyze the trade off in the deployment of resources to alternative ends
ECOPGS1 3	Indian Economy: Issues and Policies – I	Co1	It provides the students with a critical thinking of the Indian economy so that they may be able to engage meaningfully in debates regarding the country's economy
ECOPGS1 4	Economics of Development and Growth –I	CO1	It aims to develop conceptual clarity on the issues on the dimensions of development and to identify the strategic factors in the development of the less developed countries.

SEMESTER 2			
ECOPGS2 6	Microeconomics Markets, Information and Welfare	CO1	It helps the students to develop skill in formulating business strategy in the context of market imperfections.
		CO2	The student develops the understanding of the economic level of information search possible under different situations and the concept of bounded rationality.
		CO3	The students can understand the basic theory of distribution and the source of income generation.
ECOPGS2 7	Advanced Macroeconomic Theory and Policy	CO1	It also makes the students to understand Indian economic issues which are macroeconomic in nature.
ECOPGS2 8	Indian Economy: Policies and Issues- II	CO1	It helps the students to understand more about Indian economy in relation with policy implementation, planning, and social programmes.
		CO2	It enriches the students with the complete information regarding Indian economic issues like population, poverty, unemployment, financial matters and trade etc.
ECOPGS2 9	Economics of Development and Growth- II	CO1	The students get the chances to know more about international and domestic growth models and developments agendas.
		CO2	It also equips the students with the knowledge of growth and development practices and also generates some interest in them about being a development economist.
SEMESTER 3			
ECOPGS3 11	International Trade Theory and Policy	CO	IT provides a deep understanding about the broad principles and theories which tend to govern the free flow of trade in goods, services and capital –both short term and long term –at the global level.
ECOPGS3 12	Public Economics	CO1	It acquaints the students with the issues relating to the role of Government in the changing era and the justification for Government intervention.
		CO2	It also introduces to the students the nature and theories of Public goods.
ECOPGS3 13	Research Methods in Economics	CO1	It provides the students basic knowledge about the social science research and its relevance in tackling real issues of the society.
		CO2	It creates an enabling environment to identify research issues and to develop scientific approach in the analysis of social problems.
		CO3	It familiarizes with the methods of collection, analysis and interpretation of data.
ECOPGS3 14	Economics of Environment and Social Sector	CO1	It provides the theoretical foundations of environmental economics.
		CO2	It makes the students to understand the theory and practice of sustainable development

		CO3	Students become familiar with the impacts of environment on health and promote environmental education.
		CO4	It facilitates the optimum use of natural resources in production and consumption.
ECOPGS3 15	Monetary Theory and Policy	CO1	It enables the students to understand the basic concepts regarding money and the functioning of a pecuniary economy and capacitates the students to have a thorough understanding of the various theoretical approaches.
SEMESTER 4			
ECOPGS4 16	Global Trading and Monetary System	CO	The course provides a deep understanding about the broad principles and theories which tend to govern the free flow of trade in goods, services and capital –both short term and long term at the global level.
ECOPGS4 17	Indian Public Finance	CO1	It makes the students aware of the emerging trends in public expenditure and the criteria for Public Investment.
		CO2	It familiarizes the students with the preparation and execution of the budget and the problems and trends in public debt in India.
ECOPGS4 18	Management Theories and Practice	CO1	It makes the students to acquaint with management techniques that prevail in the corporate world.
		CO2	This exposes the students to a variety of skills and concepts in management.
ECOPGS4 19	Capital Market	CO1	It enables the students to understand the basics of savings and investment,
		CO2	It facilitates the students to understand how capital markets work and what functions capital markets fulfill in market economy and
		CO3	It helps to calculate the risk, return and liquidity of various investment instruments.
ECOPGS4 20	Economics of Agriculture	CO1	This course intends to provide the students a detailed idea regarding the role and importance of agriculture
		CO2	It also provides the role of Agriculture in economic development, the land reforms in India, a comparison of the Green revolution in India and Mexico, and the importance of farm budgeting.

Name of the Course: MA Political Science

Course Code	Course Title	Course Outcome	
SEMESTER 1			
PSS1CO1	Political Thought: Ancient and Medieval Traditions	CO1	The students will be able to demonstrate knowledge of significant political ideas since the time of the Greek City-states to Renaissance Europe.
		CO2	To be familiar with the classical texts of ancient and medieval western political thought and their different interpretations.
		CO3	To be inspired to read original works, the debates around these work, and will become aware of the different ways in which a text can be read.
PSS1CO2	Public Administration : Theory and Concepts	CO1	Students will understand the major theories and concepts of public administration.
		CO2	To be able to explain and analyse budgetary processes and financial administration.
		CO3	To benefit by the insights gained into personnel administration and the skills obtained to apply their knowledge in practical life
PSS1CO3	India: State, Polity and Governance	CO1	Students will be able to demonstrate critical insights into the Indian Constitution – its historical development, ideological perspectives and core values, as well as the different organs of government and some of the major cases and amendments relating to the Constitution.
		CO2	Students will achieve the skills and ability to analyse and evaluate the essential features and processes of Indian polity.
PSS1CO4	Political Theory	CO1	Students will be able to demonstrate an in-depth understanding of the various theories and concepts of political science.
		CO2	Students will be equipped with a critical perspective and analytical skills to understand contemporary political issues and challenges.
PSS1CO5	Theory and Practice of International Relations	CO1	By the end of the course students will be able to demonstrate a broad understanding of International Relations, its major theoretical traditions and concepts.
		CO2	They will be able to apply conceptual tools to understand, analyse and interpret events and processes in contemporary international politics.
		CO3	They will also possess the skills necessary to think critically and communicate effectively about international relations.

SEMESTER 2

PSS2CO6	Political Thought: Modern Traditions	CO1	Students will be able to demonstrate the ability to identify the dominant political discourses on liberalism, Marxism, sovereignty, justice etc. in a critical perspective so that the scope and limits of such traditions can be ascertained, both theoretically and historically.
PSS2CO7	Indian Administration	CO1	Students will be equipped to demonstrate an understanding of the processes and structures of public administration and decentralisation in India.
		CO2	They will be able to analyse decentralised planning and development and explain contemporary issues and challenges in the implementation of decentralised governance and development.
		CO3	They will also be able to think critically about the Panchayat Raj system and its operations at the grass root level.
PSS2CO8	Issues in Indian Politics	CO1	Students will be able to demonstrate an understanding of the potentials and limits of democratic practices through insights derived from studying specific issues and themes.
		CO2	They will also be equipped to analyse the complex nature of state-society relations through their understanding of how social forces are constituted and function in relation to each other in the context of India.
PSS2CO9	Issues in International Relations	CO1	Students will be able to demonstrate knowledge and understanding of contemporary international politics and will be able to analyse and explain contemporary international phenomena.
		CO2	They will possess the skills necessary to think critically and communicate effectively on international politics.
		CO3	They will also be able to recognize issues of social justice in global contexts and appreciate the rights and responsibilities of global citizenship.
PSS2CO10	Comparative Politics	CO1	On successful completion of the course, students should be able to describe the basic approaches, themes and concepts that are used in comparative politics
		CO2	Gain informed perspectives and have deeper viewpoints about the building blocks and processes in comparative politics
		CO3	Comprehend the distinctiveness and dynamism of comparative political inquiry and Identify on-going socio-political-economic processes, emerging concerns and also subject them to critical and careful comparative inquiry
		CO4	Explain the political systems, forms of governments, ideologies, social forces and its consequences for continents and countries

		CO5	Apply tools and techniques learned from comparative politics to study new cases, and emerging social processes across political systems in the globalising era.
SEMESTER 3			
PSS3CO11	Political Thought: Indian Tradition	CO1	The study of Indian traditions in political thought will enable students to acquire insights useful for understanding contemporary Indian society and politics.
		CO2	They will be equipped with the tools of analysis to comprehend the wide spectrum of Indian traditions in political thought from ancient times.
PSS3CO12	State and Politics of Kerala	CO1	At the end of the course students will develop a comprehensive knowledge about Kerala society, polity and economy.
		CO2	The course will equip students with the necessary skills to analyse key issues in Kerala politics and society.
PSS3CO13	Human Rights in India	CO1	On completion of the course students will be able to demonstrate a theoretical as well as practical understanding of human rights.
		CO2	They will be equipped to perceive and analyse contemporary issues from a rights perspective and will be aware of the institutional mechanisms for the protection of human rights.
PSS3CO14	Decentralisation and Local Governance	CO1	Students will be equipped to understand and demonstrate knowledge about the processes of decentralization.
		CO2	They will be able to analyse decentralised planning and development, and explain contemporary issues and challenges in the implementation of decentralised governance and development.
		CO3	They will also be able to think critically about the Panchayat raj system and its operations at the grassroots level.
PSS3CO15	Research Methodology	CO1	Students will gain an understanding of major methods of Political Science research and be able to utilise both quantitative and qualitative research techniques.
SEMESTER 4			
PSS4CO16	India's Foreign Policy	CO1	At the end of the course students will be able to critically evaluate India's foreign policy and its engagements with the international system.
		CO2	They will be equipped with the framework to understand the changing contours and intricacies of foreign policy making and discern the motivations and goals driving policy decisions.
		CO3	They will also be able to critically identify and discuss the changing contours and key issues surrounding the history and development of India's foreign policy.

PSS4EA3	Theories and Concepts of Administrative Law	CO1	The students will get be familiarised with the ideas and basic concepts of Administrative Law and the functions and powers of the administration and the checks and controls in the exercise of those functions and powers.
PSS4EB2	Political Sociology of India	CO1	Students will be equipped to analyse the relationship between society and politics, as well as the inter-relationships between individuals, groups, institutions, governments and their socio-economic and political environments in India.
		CO2	They will be able to demonstrate knowledge of the basic forces and factors that shape the world such as representation, power, political sociology of caste, linguistic, ethnic and religious mobilisations, state-society dynamics etc.
PSS4EC6	Politics of Postmodernism	CO1	It is expected that, at the end of the course the students will be able to describe fundamental themes and ideas related to Critical theory and Postmodernism and outline the major theoretical writings and locate the nature and distinctiveness of intellectual debates in Critical theory and Post-modernism.
		CO2	They will be able to apply the insights/ideas/resources available Postmodernism to understand and diagnose the problems of contemporary societies
		CO3	They also will be able to recognize the changing nature of social movements/political practices and vocabulary of political debates in everyday life.
PSS4ED4	US Government and Politics	CO1	On completion of the course students will demonstrate an understanding of the nature of government and politics in the United States, including its societal dynamics and their impact on the political processes.
		CO2	They will be able to identify and explain the foundations, institutions and processes of government and politics in the United States, as well as the broad contours of American foreign policy.

Name of the Programme : MA History			
Course Code	Course Title	Course Outcome	
SEMESTER 1			
HISPGC1	Approaches to History	CO1	The paper requires from the students concerted efforts to gain knowledge about the perspectives of past that evolved.
		CO2	The student to grasp why history came to be rewritten differently from time to time and under what

			conceptual presuppositions, the readings appended are highly selective and devoid of articles.
		CO3	To make aware about various historical trends and trendsetters in accordance with time.
HISPGC 2	Transition from Pre-State to State Societies in Indian History	CO1	The students to be knowledgeable about the processes of social transition from one formation to another and the characteristic features of each formation.
		CO2	This course necessitates acquaintance with the relevant social theories.
		CO3	To provide the students conceptual insights into the transitional processes of early societies in the Indian subcontinent.
HISPGC 3	Social Formations in Kerala till the End of Perumal Rule	CO1	To enabling conceptualization of society in terms of formations or systems .
		CO2	They are expected to acquire knowledge about the ancient and early social formations of Kerala.
HISPGC 4	Revenue Administration in India c. A.D.1000 to 1800	CO1	To provide specific focus on Revenue Administration with a view to enabling the students to learn the nature of resources and modes of their management in enabling the students to learn the nature of resource and the past.
		CO2	It is intended to be an ‘in-depth study of the various aspects revenue extraction
HISPGC 5	History of Social Revolutions in the World	CO1	To provide good awareness about the major social revolutions of the modern world.
		CO2	The focus is on the linkage between the socio-economic revolutions of the modern world
SEMESTER 2			
HISPGC 6	History of Social Institutions and Structures of Early India	CO1	To focus on the history of institutions and structures of early societies in the subcontinent.
		CO2	To provide the students with knowledge about what the institutions mean and how they evolved and worked in the past societies
HISPGC 7	Social Formations of Kerala c. A.D.1200 – 1800	CO1	To enable the students to grasp the interconnectedness of social aspects and develop holistic perspective.
		CO2	To learn about the vaious social conditions prevailed in medieval Kerala
HISPGC 8	Agriculture, Crafts Production and Exchange in India from c. AD 1000 to 1800	CO1	The paper requires from the students an in depth study of the major economic processes of the Indian subcontinent in the 11 th to 19th centuries.
		CO2	The purport of the paper is to provide the students insights into the interconnectedness of agriculture, crafts production, exchange and urban growth. The readings have to be supplemented by articles.
		CO3	To open up a new academic vista on medieval trade practises in India.
HISPGC 9	Perspectives of Women’s History and the History of Gender	CO1	It seeks 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.

HISPGC 10	Making of the Indian Nation: Historical Antecedents	CO1	Through this course the students put emphasis on the study of the historical process of the nation building.
		CO2	The purport is to gain knowledge about the Historical process of the making of the Indian Nation.
SEMESTER 3			
HISPGC 11	History and Social Theory	CO1	To emphasise students the fact that theory is indispensable for reading history seriously.
		CO2	It requires the students to learn the major contributions in social theory that enables appreciation of history with intellectual depth.
		CO3	To develop and encourage critical consciousness among the students.
HISPGC 12	History of Revolts and Protest Movements in Colonial Kerala	CO1	This course provides an indepth study that seeks to keep the student knowledgeable in the history of the major Social revolts of modern Kerala.
		CO2	The focus is on the linkage between the Socio Economic and Political milieu of the colonial period that engendered revolts and protests.
		CO3	To provide the students insights into the condition that makes dissents, protest and reforms possible
HISPGC 13	State and Society in India c.AD 1000 -1800	CO1	To learn about the structure, composition and pattern of power relations that the state under the Sultanate of Delhi and Mughal Empire presented.
		CO2	To enable the students to learn the correspondence as well as interface between the social relations of power and the state's power structure.
HISPGC 14	Methods or Techniques of Research	CO1	To provide the students the methods of research ie, the basic tools and techniques of research as distinguished from methodology.
		CO2	To provide an insight into the science of the construction of knowledge
		CO3	To academically enrich research mentality in students It is primarily a Practice Oriented paper directly linked to research.
HISPGC 15	Knowledge Systems in Pre-modern India	CO1	To enable the students to gain preliminary access to the indigenous knowledge systems of India.
		CO2	To acquaint the students with the traditional knowledge form of Indian subcontinent in the most demystified manner.
		CO3	To analyse pre modern and present knowledge systems of India
		CO4	Identify the ancient semantic tradition
		CO5	Students will be able to examine the philosophical and religious tradition
SEMESTER 4			
HISPGELE 16	Ancient Society	CO1	To enable the students to gain in-depth knowledge about very ancient societies in terms of their formations.
		CO2	It seeks to have a special focus on the institutional and organizational features of ancient Societies. The readings have to be augmented with additions.

HISPGELE 17	Economic History of Modern India	CO1	To seek provide the students a fairly good understanding about the historical roots of Indian economy.
		CO2	To enable the students to identify the historically contingent elements of the Indian economy.
		CO3	To gain insights into the contemporary economic issues
HISPGELE 18	Landmarks in Environmental History of India	CO1	To investigate and make the student to look into the historical perspective of environmentalism and its influence in the global and Indian scenario.
		CO2	It also tries to address various issues related to environment.
HISPGELE 19	History of Human Rights Movements in India	CO1	To provide a better understanding of the various concepts, ideas and history of human rights.
		CO2	To provide an insight into different human rights movements in India.
HISPGELE 20	Contemporary India, Society and Economy	CO1	To keep the students knowledge about the contemporary socioeconomic processes. It addresses itself a bewildering domain for its variety and vastness
		CO2	To provide a comprehensive knowledge only about the characteristic features of the contemporary society and economy of India.
		CO3	Examine the internal and external policy of Jawaharlal Nehru, Lal Bahadur Sastri and Indhira Gandhi..
		CO4	Recognise the role of planning commission, five year plans and the development of science and technology in India.
		CO5	Identify the contemporary challenges like terrorism, liberalization, privatization and globalization

Name of the Programme: MSc Mathematics

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
MT01C01	Linear Algebra	CO1	To generalize the concept of vectors to n-dimensional spaces.
		CO2	To understand matrix as a linear transformation.
		CO3	Finding the eigenvalues and eigenvectors of linear transformations
MT01C02	Basic Topology	CO1	Introducing topology as a generalization of metric spaces
		CO2	To introduce the familiar concept of continuity to arbitrary spaces
		CO3	To introduce the peculiarities of compactness and connectedness in different spaces
		CO4	To get an idea about the hierarchy of separation axioms

MT01C03	Measure Theory and Integration	CO1	Introducing measure as generalization of length
		CO2	To introduce measure theoretic integration.
		CO3	To introduce signed measures and its applications.
		CO4	To introduce product measures.
MT01C04	Graph Theory	CO1	Logical, systematic framework within which ordinary graphs can be generalized
		CO2	To introduce graphs as a solution of practical problems
		CO3	To introduce connectivity, coloring and the concept of planarity
MT01C05	Complex Analysis	CO1	To introduce complex numbers as points on a sphere.
		CO2	To study power series of complex functions.
		CO3	Introduce complex integration to understand analytic functions in a better way.
SEMESTER 2			
MT02C06	Abstract Algebra	CO1	To acquire knowledge about algebraic structures like groups, rings, integral domains and fields.
		CO2	To learn application of algebra on irreducible polynomials.
		CO3	Apply Sylow's theorems in the study of simple groups.
		CO4	Application of Fermat's theorem and Euler's theorem in number theory.
		CO5	Idea of geometric construction of numbers
		CO6	Application of algebra in finding the roots of polynomials
		CO7	To introduce field extensions
		CO8	Discussion of Galois theory
MT02C07	Advanced Topology	CO1	To introduce products in arbitrary space.
		CO2	To make familiar with embedding and metrisation and different types of compactness.
		CO3	Introducing nets as a generalization of sequences.
MT02C08	Advanced Complex Analysis	CO1	To study harmonic functions and its applications.
		CO2	To study Gamma functions and entire functions in detail.
		CO3	To introduce the product development and normal families.
		CO4	To introduce elliptic functions
MT02C09	Partial Differential Equations	CO1	To introduce Partial differential equations for solving real life situations.
		CO2	To study different methods of solution of PDE
		CO3	To study non linear equations and families of equipotential surfaces.
MT02C10	Real Analysis	CO1	Learn the theory of Riemann-Stieltjes integrals, to be acquainted with the ideas of the total variation and to be able to deal with functions of bounded variation.
		CO2	Students should be able to illustrate the effect of uniform convergence on the limit function with respect to boundedness, continuity, differentiability and integrability.
		CO3	The student will gain knowledge of special functions and study various properties of them.
		CO4	After completing the course, the student should be able to recognize, understand and apply concepts and methods in advanced real analysis.

SEMESTER 3			
MT03C11	Multivariate Calculus and Integral Transforms	CO1	Impart basic knowledge of differentiation and integration in n-dimensional Euclidean space.
		CO2	To discuss different types of integral transforms.
		CO3	Applications in Mathematics and also bring the confidence to handle real life problems.
MT03C12	Functional Analysis	CO1	On successful completion of this course, the students will be able to appreciate how functional analysis uses and unifies ideas from vector spaces and metric spaces.
		CO2	The learner will be able to identify various types of normed spaces such as Banach Spaces, Inner Product Spaces and Hilbert Spaces and derive various properties of them.
		CO3	The learner will be able to understand and apply fundamental theorems from the theory of linear operators.
		CO4	The students will have the knowledge and skills to demonstrate capacity for mathematical reasoning through analyzing, proving and explaining concepts from functional analysis.
		CO5	The learner will have the ability to pursue further studies in functional analysis and related areas.
MT03C13	Differential Geometry	CO1	To get an idea of application of real analysis in geometry.
		CO2	To study geodesics and parallel transport.
		CO3	To introduce parametrized surface and study its basic properties
MT03C14	Number Theory and Cryptography	CO1	Familiarize the concept of Finite Fields and Quadratic Residues
		CO2	Gets an idea of public key cryptography
		CO3	To introduce the concept of Primality and Factoring in Number Theory
MT03C15	Optimization Techniques	CO1	To introduce programming to handle real life situations.
		CO2	To introduce Goal programming and potentials in networks.
		CO3	To introduce non-linear programming.
		CO4	Familiarize zero - sum games and strategies.
SEMESTER 4			
MT04C16	Spectral Theory	CO1	The learners will be able to appreciate how functional analysis uses and unifies ideas from normed spaces and complex analysis.
		CO2	Understand and apply fundamental theorems from the theory of normed spaces, including the Uniform Boundedness theorem, the open mapping theorem, the closed graph theorem, and the Banach Fixed Point theorem.
		CO3	Understand the fundamentals of spectral theory and appreciate its power.
		CO4	Have a good grasp of the spectral properties of various operators such as Compact Linear Operators, Self-adjoint linear operators, Positive Operators and Projection Operators.

		CO5	Understand and apply ideas from spectral theory to other mathematical contexts and related areas.
MT04E01	Analytic Number Theory	CO1	To introduce arithmetic functions and its application.
		CO2	To study prime number theorem and distribution of primes.
		CO3	To study the application of congruence and quadratic residues and primitive roots for solving numerical problems.
MT04E02	Combinatorics	CO1	To use algebraic concepts to solve basic problems in real life
		CO2	To introduce Ramsey type problems and Ramsey numbers.
		CO3	To get an idea about generating functions and recurrence relations.
MT04E05	Mathematical Economics	CO1	Understand the theory of consumer behaviour
		CO2	Understand the role of production functions
		CO3	Study input-output analysis
MT04E07	Operations Research	CO1	Study Inventory Models
		CO2	Understand the main topics in queuing systems
		CO3	Understand network sequencing problems and simulation modeling

Name of the Programme: MSc Statistics

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
ST0101101	Probability and Measure Theory	CO1	Basic knowledge in measure theory and probability.
		CO2	Problem solving skill
		CO3	Idea about general integral
ST500101	Distribution Theory	CO1	Acquaint the students familiar with basic probability distributions
		CO2	Acquaint the students familiar with their properties of probability distributions
		CO3	Problem solving skill
ST500102	Analytical Tools for Statistics	CO1	Students are expected to well conversant with basics of linear Algebra
		CO2	Students are expected to well conversant with basics of linear Algebra Matrix theory.
		CO3	Problem solving skill
ST500103	Sampling Theory	CO1	Course students are expected to be able to apply and use the basic concepts related to sampling techniques,
		CO2	To determine sample size so as the estimator will have a desired precision
		CO3	To use appropriate sampling method and determine optimum sample sizes.

ST010102	Statistical Computing I-Using R	CO1	Learn the basics in R programming
		CO2	Programming skill
		CO3	Complete the practical by the R software
SEMESTER 2			
ST500201	Estimation Theory	CO1	Expected to learn the basics of estimation theory
		CO2	Problem solving skill
		CO3	Decision making skill
ST500202	Stochastic Processes	CO1	Impart basic knowledge in Stochastic Models
		CO2	Impart basic skills in Stochastic Models
		CO3	Applications of Stochastic Models in Statistics.
ST500203	Multi-variate Distributions	CO1	General knowledge of bivariate distributions in Statistics
		CO2	General knowledge of multivariate distributions in Statistics
		CO3	Applications of multivariate distributions
ST010201	Advanced Probability Theory	CO1	Ensure that the students are familiar with modern probability theory
		CO2	Ensure that the students are familiar with related applications.
		CO3	Problem solving skill
ST010202	Statistical Computing II Using R	CO1	Make the student capable to do practical problems in more advanced area of Statistics using R software
		CO2	Problem solving skill
		CO3	Programming skill
SEMESTER 3			
ST500301	Testing of Hypotheses	CO1	Make the student understand the concepts of testing of hypothesis
		CO2	Develop appropriate tests for testing certain Statistical hypotheses.
		CO3	Formulation of hypothesis
ST500302	Design and Analysis of Experiments	CO1	Students will be able to conduct experiment by using appropriate design,
		CO2	To test related hypotheses and estimate the parameters
		CO3	Compare different designs and will be capable to use the Analysis Covariance technique for data analysis
ST500303	Multi-variate Analysis	CO1	Impart basic knowledge to the students in applied Multivariate Analysis
		CO2	Impart skills to the students in applied Multivariate Analysis
		CO3	Applied Multivariate Analysis applications in Statistics and also bring the confidence to handle real problems on the spot.
ST500304	Time Series Analysis	CO1	The student will be able to analyse time series data
		CO2	Identify various types of behaviour of the time series.
		CO3	Interpret various types of behaviour of the time series.
ST010301	Statistical Computing III-Using R/SPSS/M ATLAB	CO1	Make the students able to handle practical problems in testing of hypotheses
		CO2	Make the students able to handle practical problems in design and analysis of experiments
		CO3	Make the students able to handle practical problems in the multivariate techniques

SEMESTER 4			
ST500401	Econo- metric Methods	CO1	handle models of econometrics and Mathematical Economics.
		CO2	apply and use the basic concepts related to the economy of a nation
		CO3	interpret various parameters used to measure economic status of a nation.
ST010401	Statistical Computing IV- Using R/SAS/MA TLAB	CO1	impart the practical skills in the students in the theories of Econometrics
		CO2	make them familiar with the software packages
		CO3	impart the practical skills in the students in the theories of other elective papers.
ST800401	Operations Research	CO1	make the students able to deal with optimization problems and the mathematical theory involved in them.
		CO2	Problem solving skill
		CO3	Decision making skill
ST800402	Statistical Quality Control	CO1	make the students aware of the modern quality assurance techniques.
		CO2	make the students aware of the modern quality assurance methods.
		CO3	Decision making skill
ST800403	Advanced Bayesian Computing with R	CO1	the basic Bayesian Inference methods
		CO2	the basic Bayesian Inference computations using computer packages.
		CO3	Decision making skill

Name of the Programme: MSc Physics			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
PH1CO1	Mathematical methods in physics – I	CO1	Implement essential mathematical skills to solve problems in Physics.
		CO2	Describe various processes involved in understanding the behaviour of different systems through Mathematics.
		CO3	Achieve a sound knowledge of curvilinear coordinates, Tensor algebra, matrices and special functions and their various properties that are being extensively used in Physics.
PH1C02	Classical mechanics	CO1	Provide elementary ideas on classical mechanics to write equations for real time problems using conventional techniques.
		CO2	Define basic mechanical concepts related to discrete and continuous mechanical systems, planar and spatial motion of a rigid body
		CO3	Study in detail on Lagrangian and Hamiltonian formalism, dynamics of rigid body, oscillations, canonical transformations and special relativity

PH1C03	Electro-dynamics	CO1	Acquire in-depth knowledge in electrostatics and familiarize theories of static and moving charges
		CO2	Give idea on the fundamentals of electromagnetic conduction and electromagnetic waves.
		CO3	Extend its applications to instruments involving electric and magnetic fields
PH1C04	Electronics	CO1	Analyze components associated with digital and analog electronic/communication systems and apply basic mathematical and engineering concepts to technical problem solving
		CO2	Learn the structure of various semiconducting devices and their electronic properties along with underlying physics.
		CO3	Apply the knowledge to understand the working of amplifiers, oscillators, multivibrators and communication systems.
SEMESTER 2			
PH2C05	Mathematical methods in physics – II	CO1	Identify a range of mathematical methods that are essential for solving advanced problems in theoretical Physics and demonstrate the ability to apply mathematical concepts and techniques in to problems in that field
		CO2	Elaborate the understanding of basic concept of complex variables and group theory and integral transforms
		CO3	Describe various processes involved in understanding the behaviour of different systems through Mathematics and implement mathematical skills to solve problems in physics.
PH2C06	Quantum mechanics – I	CO1	Identify and understand the kinds of experimental results which are incompatible with classical Physics and which required the development of a quantum theory of matter and light.
		CO2	Acquire sufficient knowledge on Operator formalism.
		CO3	Makes students familiar with various time independent approximation methods and perform calculations using angular momentum techniques.
PH2C07	Thermodynamics and statistical mechanics	CO1	Understand how statistics of the microscopic world can be used to explain the thermal features of the macroscopic world.
		CO2	Familiarize in depth about Maxwell –Boltzmann, Bose-Einstein and Fermi Dirac Statistics and their application
		CO3	Analyse different statistical ensembles and perform statistical calculation of different thermodynamic quantities
PH2C08	Condensed matter Physics	CO1	Create a clear picture of crystal structures, x-ray diffraction, defects, magnetic and dielectric properties of solids etc.
		CO2	Develop a concept of the crystal classes and symmetries and to understand the relationship between the real and reciprocal space.
		CO3	Learn conduction mechanisms in insulators, semiconductors, conductors and superconductors and apply it in designing novel devices.
SEMESTER 3			
PH3C09	Quantum mechanics – II	CO1	Impart knowledge of advanced quantum mechanics for solving relevant physical problems.

		CO2	Acquire a working knowledge of non-relativistic and relativistic quantum mechanics including time-dependent perturbation theory, scattering theory, relativistic wave equations, and second quantization.
		CO3	Achieve the ability to critically understand and evaluate modern research utilizing quantum theory in Physics.
PH3C10	Computational physics	CO1	Incorporate modern computation and visualization into the scientific problem-solving paradigm.
		CO2	Learn how to interpret and analyze data visually, both during and after computation and understand why hard work along with properly functioning powerful software and hardware do not guarantee meaningful results
		CO3	Understand how the knowledge levels can be advanced by the use of modern scientific computing skills and tools.
PH3EC1	Solid state Physics	CO1	Transfer the knowledge level from theoretical physics subjects solid state matter.
		CO2	Understand the behaviour of electrons in solids including the concepts of energy bands and effect of the same on material properties.
		CO3	familiarize the design considerations of various solid state and gas lasers, modes of their operations and areas of applications
PH3EC2	Crystal growth techniques	CO1	Provide an extended knowledge on advanced condensed matter topic like crystal growth methods.
		CO2	Understanding of theories involves in crystal growth nucleation process and solution, melt and vapour growth techniques and Characterization tools.
		CO3	Demonstrate the various factors affecting crystal growth mechanism.
SEMESTER 4			
PH4C11	Atomic and molecular Physics	CO1	Explain the origin of the atomic spectra and behaviour of atoms in external electric and magnetic field.
		CO2	Become familiar with molecular spectroscopy and gain basic ideas regarding microwave, infrared and Raman Spectroscopy.
		CO3	Understanding the working principle and instrumentation of microwave, IR, Raman and UV-VIS spectrometers.
PH4C12	Nuclear and particle Physics	CO1	Know the properties of nucleus likes binding energy, magnetic dipole moment, electric quadruple moment etc. and understand the concept of radioactivity
		CO2	Analyse Various aspects of nuclear reactions to give an idea of nuclear power generation.
		CO3	Familiarize different nuclear Models, elementary particles and their interactions.
		CO4	Analyse how nuclear and particle physics phenomena play a role in the description of the evolution of the universe from the Big Bang to present day processes in stars.
PH4EC3	Nanostructures and characterization	CO1	Understand the synthesis and characterization methods of various nanostructured materials.
		CO2	Study on quantum dots, wells and wires and the transport of charge carriers in them.
		CO3	Acquire basic skill in conducting research on fundamental and application aspects of nanotechnology.

PH4OE1	Optoelectronics	CO1	Study the mechanism of charge transport in various optoelectronic devices.
		CO2	Use principles of physics to analyze and design optoelectronic devices like LEDs, lasers, photodiodes and photovoltaics.
		CO3	Understand metrics of optoelectronics devices and be able to incorporate them into systems for optimal performance

Name of the Programme : MSc Chemistry			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
CH1C01	Organometallics and Nuclear Chemistry	CO1	Identify the structure and bonding aspects of simple organometallic compounds
		CO2	Apply different electron counting rules to predict the shape/geometry of low and high nuclearity metal carbonyl clusters
		CO3	Identify the different types of organometallic reactions and apply the above concepts to explain different catalytic reactions
CH1C02	Structural and Molecular Organic Chemistry	CO1	Comprehend and Predict the role of temperature, solvents, and catalysts in organic reactions
		CO2	Elucidate reaction mechanisms using isotope effects
		CO3	Identify and differentiate prochirality and chirality at centers, axis, planes and helices and determine the absolute configuration
		CO4	Evaluate the stability of various conformers of acyclic and cyclic systems using steric, electronic and stereo-electronic effects and correlate them to reactivity.
		CO5	Use various models for determining stereo-selectivity of various organic transformations
CH1C03	Quantum Chemistry and Group theory	CO1	Use mathematical techniques in linear algebra for eigenvalues and eigenvectors and first and second order differential equations not only in quantum chemistry but in other areas of physical and theoretical chemistry that will be offered during the whole programme.
		CO2	Solve all the model problems in quantum mechanics for which exact analytical methods and solutions are available and will apply them to analyze the basis behind the postulatory method of quantum mechanics and which forms the foundations for advanced study of the subject.
		CO3	Relate concepts that were originally introduced purely as modern atomic physics to molecular systems through harmonic oscillator, spin and rigid rotator.

		CO4	Determine the symmetry operations of any small and medium-sized molecule and apply point group theory to the study of electrical, optical and magnetic properties and selection rules for absorption
CH1C04	Classical and Statistical Thermodynamics	CO1	Calculate change in thermodynamic properties, equilibrium constants, partial molar quantities, chemical potential. Identify factors affecting equilibrium constant.
		CO2	Apply phase rule and, draw phase diagrams for one, and two component systems, identify the dependency of temperature and pressure on phase transitions, and identify first/second order phase transitions.
		CO3	Solve problems based on Debye-Huckel limiting law. Calculate excess thermodynamic properties.
		CO4	Calculate the absolute value of thermodynamic quantities (U, H, S, A, G) and equilibrium constant (K) from spectroscopic data.
		CO5	Predict heat capacity (Cv, Cp) of an ideal gas of linear and non-linear molecules from the number of degrees of freedom, rotational and vibrational wave numbers.
		CO6	Derive the temperature dependence of the second Virial coefficient (real gases) from interatomic potentials.
SEMESTER 2			
CH2C01	Coordination Chemistry	CO1	Identify the principles, structure and reactivity of selected coordination complexes. Interpret their electronic spectra and magnetic properties.
		CO2	Utilize the principles of transition metal coordination complexes in understanding functions of biological system
CH2C02	Organic Reaction Mechanism	CO1	Comprehend the structure-reactivity pattern of reactive intermediates involved in organic reactions
		CO2	Comprehend the orbital interactions and orbital symmetry correlations of various pericyclic reactions
		CO3	Write mechanism of organic reactions involving reactive intermediates and concerted processes
		CO4	Apply these reactions in organic synthesis
CH2C03	Chemical Bonding and Computational Chemistry	CO1	Apply time independent perturbation theory to complex problems of molecular energy levels in the presence of external electric and magnetic fields
		CO2	Distinguish different types of hybridization based on geometries of the complex and to calculate for a one-electron and two electron system, all the necessary integrals due to coulombic forces.
		CO3	Write short simple programs in FORTRAN and be able to compile and execute them in a host of machines.
		CO4	Use standard software tools such as MATLAB and Mathematica to perform algebraic and numerical calculations often required in elementary physical chemistry in the areas of quantum chemistry, spectroscopy, kinetics and thermodynamics
CH2C04	Molecular Spectroscopy	CO1	Apply NMR, IR, MS, UV-Vis spectroscopic techniques in solving structure of organic molecules and in determination of their stereochemistry.
		CO2	Interpret the above spectroscopic data of unknown compounds.

		CO3	Use these spectroscopic techniques in their research
CH2P01	Inorganic Chemistry Practical-1	CO1	Plan and Conduct experiments for identifying and characterizing inorganic compounds
CH2P02	Organic Chemistry Practical-1	CO1	Separate and purify products in organic reactions
		CO2	Characterize organic compounds using spectroscopic and spectrometric techniques
		CO3	Apply the concepts of nanotechnology and polymer chemistry in to research
CH2P03	Physical Chemistry Practical-1	CO1	Explain the principle behind the experiments performed in the laboratory
		CO2	Plan and Perform experiments and Interpret experimental results.
SEMESTER 3			
CH3C01	Structural Inorganic Chemistry	CO1	Arrive at the chemical compositions based on unit cell contents and fractional coordinates.
		CO2	Calculate densities from powder XRD data
		CO3	Identify and apply a suitable strategy for synthesizing inorganic crystalline solids in polycrystalline and single crystal forms
		CO4	Correlate and Predict structure-composition-properties (magnetic, electrical and optical) in inorganic crystalline solids
CH3C02	Organic Synthesis	CO1	Use various reagents and organic reactions in organic synthesis
		CO2	Use retrosynthetic method for the logical dissection of complex organic molecules and devise synthetic methods
CH3C03	Chemical Kinetics, Surface Chemistry and Photochemistry	CO1	Calculate transport properties of gases, liquids and solids
		CO2	Solve problems on rate/rate constants/efficiency for (i) complex reactions (ii) unimolecular and bimolecular reactions, and (iii) electronically excited state dynamics.
		CO3	Plot equations and functions representing kinetic behaviour of chemical systems in ground and electronically excited states.
CH3C04	Spectroscopic Methods in Chemistry	CO1	Apply NMR, IR, MS, UV-Vis spectroscopic techniques in solving structure of organic molecules and in determination of their stereochemistry.
		CO2	Interpret the above spectroscopic data of unknown compounds.
		CO3	Use these spectroscopic techniques in their research.
SEMESTER 4			
CH4C01	Advanced Inorganic chemistry	CO1	Solve problems based on various analytical concepts
		CO2	Design experiments with improved sample preparation, new measurement procedures and tools
		CO3	Quantify analytes with proper data handling and analysis
CH4C02	Advanced Organic Chemistry	CO1	Comprehend the structure-reactivity pattern of supramolecules involved in organic reactions
		CO2	Comprehend Green alternative to organic synthesis

		CO3	Apply the concepts of nanotechnology and polymer chemistry in to research
CH4C03	Advanced Physical Chemistry	CO1	Write equations representing electrochemical cell, explain various over potential involved during the operation of the cell.
		CO2	Calculate electrochemical cell parameters, electrochemical active surface area, current and over potential under given condition, amount of corrosion and its rate.
		CO3	Plot potential vs current, surface coverage vs. potential, potential vs. pH, concentration profile vs. distance from the electrode
CH4P04	Inorganic Chemistry Practical-2	CO1	Plan and Conduct experiments for identifying and characterizing inorganic compounds.
CH4P05	Organic Chemistry Practical-2	CO1	Separate and purify products in organic reactions.
		CO2	Characterize organic compounds using spectroscopic and spectrometric techniques.
		CO3	Apply the concepts of nanotechnology and polymer chemistry in to research.
CH4P05	Physical Chemistry Practical-2	CO1	Explain the principle behind the experiments performed in the laboratory.
		CO2	Plan and Perform experiments and Interpret experimental results.

Name of the Programme : MSc Botany			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
PC1	Microbiology and Phycology	CO1	To understand the world of microbes.
		CO2	To familiarize the algal diversity.
		CO3	To equip the students with in depth knowledge of the kingdom fungi and common diseases affecting plants.
		CO4	To familiarize the diversity of the lower plant groups.
PC2	Mycology and crop pathology	CO1	To acquire the knowledge to understand various groups of fungi.
		CO2	To impart an in depth knowledge in the pathophysiological mechanisms in plants.
		CO3	To familiarize the common diseases affecting plants.
		CO4	To understand the basics of plant quarantine measures.
PC3	Bryology and Pteridology	CO1	To study the external morphology of Bryophytes.
		CO2	To study the internal structure and reproduction in Bryophytes.
		CO3	To understand the diversity in habits and habitats of pteridophytes.
		CO4	To familiarize the students with the classification of lower forms of plants.

PC4	Environmental Biology	CO1	To understand the significance of environmental science.
		CO2	To make the students aware about total biodiversity conservation.
		CO3	To help the students to design novel mechanisms for sustainable utilization of natural resources.
		CO4	To familiarize the students with the vast diversity of biomes and their role in phytogeographical conditions.
SEMESTER 2			
PC5	Gymnosperms, paleobotany and evolution	CO1	To understand the evolutionary trends in gymnosperms.
		CO2	To understand anatomical variations in vascular plants.
		CO3	To understand the significance of paleobotany and its applications.
		CO4	To make the students aware of the past geological factors that led to the evolution of gymnosperms.
PC6	Cell and molecular Biology	CO1	To understand the ultrastructure and functioning of cells.
		CO2	Familiarisation of life processes.
		CO3	To understand the basic and scientific aspects of diversity.
		CO4	To understand DNA as the basis of heredity and variation.
PC7	Plant anatomy and angiosperm systematics	CO1	To understand the internal structure of evolved group of plants.
		CO2	To understand the individual cells and tissues.
		CO3	To understand structural adaptations in plants growing in different environments.
		CO4	To familiarize the students with modern trends in plant systematics.
PC8	Genetics and Bio-chemistry	CO1	To understand the principles of heredity.
		CO2	To understand the patterns of inheritance in different organisms.
		CO3	To understand the role of biomolecules in plant life.
		CO4	To understand structure and importance of biomolecules associated with plant life.
SEMESTER 3			
PC9	Research methodology, Biophysics, Biostatistics and Microtechnique	CO1	To equip the students with deep knowledge in the methodology of research.
		CO2	To make the students understand various biophysical instrumentation.
		CO3	To develop statistical skills and techniques.
		CO4	To familiarize the students with various micro-technique skills.
PC10	Plant physiology and plant breeding	CO1	To understand the physiological processes of plant life.
		CO2	To understand the methods of crop improvement.
		CO3	To make the students skilled to carry out various physiological experiments.
		CO4	To enable the students to understand the different methods used in plant breeding.
PC11	Biotechnology	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 introduce the novel prospects in Biotechnology that can be used as potential aids to solve the problems of man and nature.

PC12	Taxonomy of angiosperms	CO1	To make the students understand the classification, naming and identification of higher plants.
		CO2	To familiarize with the common plants of Kerala and their classification.
		CO3	To develop inductive and deductive reasoning ability.
		CO4	To make the students able to identify, classify and name unknown plant species.
SEMESTER 4			
PE1	Tissue culture and microbial biotechnology	CO1	To understand the tissue culture techniques.
		CO2	To equip the students with knowledge of the microbial world and their role in commercial production of various products.
		CO3	To enable the students to carry out micro propagation of various plant species.
		CO4	To develop an in depth understanding of the applications of microbial biotechnology in medical and agricultural fields.
PE2	Genetic Engineering	CO1	To understand the recombinant DNA technology.
		CO2	To understand the elements of GE so as to encourage the students' interest in advanced biological techniques.
		CO3	To develop high order thinking skills in students so as to enable them to find practical solutions to problems in Biology.
		CO4	To enhance the knowledge on the genetic organization of organisms.
PE3	Genomics, Proteomics and Bioinformatics	CO1	To familiarize the students with the modern arena of genomics and proteomics.
		CO2	Understand the current developments in the field of Biotechnology.
		CO3	To equip the students to access and analyze data available in databases.
		CO4	To understand the current developments in the area of Genomics and Proteomics.

Name of the Programme: MSc Biostatistics			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
BSTA 101	Descriptive Statistics, Probability and distributions	CO1	Able to summarize, visualize and analyze data
		CO2	Able to compute probabilities
		CO3	Able to develop new probability models and test the goodness of fit
		CO4	Able to represent the data using graphs and diagrams
		CO5	Able to study the relationship between variables
BSTA 102	Sample Survey Methods	CO1	Able to conduct sample surveys using various sampling techniques
		CO2	Able to determine sample size and plan Statistical studies
		CO3	Able to estimate population total, mean and variance
		CO4	Able to apply systematic and stratified sampling technique
		CO5	Able to obtain ratio and regression estimates

BSTA 103	Computer Programming in C++ and SAS	CO1	Become experts in using various operating systems
		CO2	Able to write computer programs using C++ and SAS
		CO3	Able to develop algorithms and flowcharts
		CO4	Exposed to logical thinking and analysis
		CO5	Able to solve problems and make optimum decisions
BSTA 104	Statistical Genetics and Ecology	CO1	Able to understand basics of statistical genetics and ecology
		CO2	Become aware of environment, biodiversity and ecological issues
		CO3	Able to study about population growth and develop models
		CO4	Able to quantitative analysis of biodiversity and abundance
		CO5	Able to estimate linkage between hereditary factors and test them
BSTA 105	Basic Statistical Computing	CO1	Become experts in Excel and SAS for data analysis and interpretation
		CO2	Able to test goodness of fit
		CO3	Able to represent data using graphs and diagrams
		CO4	Able to estimate sample size, sample mean and its variance
		CO5	Able to develop programs and solve programs
		CO6	Able to measure diversity and estimate linkage
SEMESTER 2			
BSTA 201	Linear Algebra, Regression Techniques and Bioassays	CO1	Able to find the correlation between variables
		CO2	Able to develop regression equation for prediction
		CO3	Able to understand and conduct Poison and logistic regression
		CO4	Able to understand bioassays and estimation of safe doses
		CO5	Able to understand non-linear and non-parametric regression
BSTA 202	Statistical Estimation, Theory and Practice	CO1	Able to understand different estimation methods and estimate the parameters
		CO2	Able to study about performance of estimators
		CO3	Able to develop estimators having minimum variance, maximum likelihood etc.
		CO4	Able to develop Confidence intervals
		CO5	Able to apply the techniques to data from various application fields
BSTA 203	Basic Epidemiology and Vital Statistics	CO1	Able to study and plan different epidemiological studies
		CO2	Able to measure disease frequency using different measures
		CO3	Able to find incidence rate, Odds ratio
		CO4	Able to develop the confidence Interval
		CO5	Able to understand vital Statistics and population Models
BSTA 204	Statistical Testing of Hypothesis	CO1	Able to develop hypothesis and understand P-value
		CO2	Able to test hypotheses regarding mean and various
		CO3	Able to understand different techniques in parametric and non-parametric testing
		CO4	Able to apply SPSS for testing
		CO5	Able to understand sequential testing

BSTA 205	Basic Statistical Computing	CO1	Able to understand different techniques in parametric testing using SPSS
		CO2	Able to understand different techniques in non-parametric testing using SPSS
		CO3	Able to estimate the parameters by using different methods
		CO4	Able to find the correlation between variables using SPSS
		CO5	Able to develop regression equation for prediction using SPSS
SEMESTER 3			
BSTA 301	Design of Experiments and Quality Control	CO1	Able to understand different design of experiments
		CO2	Able to do the analysis of different designs using SPSS and SAS
		CO3	Able to understand the efficiency of drugs from different designs
		CO4	Able to understand the concepts of Quality control and ISO certification
		CO5	Able to apply different control charts and interpret the chart
BSTA 302	Stochastic Modeling and Time series analysis	CO1	Able to understand basics concepts on Stochastic process and modelling
		CO2	Able to understand birth/death process and their special cases
		CO3	Able to analyze time series data and fit with appropriate models
		CO4	Able to predict future values
		CO5	Able to develop population models and find probability of extinction
BSTA 303	Multivariate Statistical Methods	CO1	Able to understand multivariate data analysis
		CO2	Able to understand applications in tests on mean vector for one and more multivariate normal populations
		CO3	Able to understand applications in equality of mean vector in a multivariate normal population
		CO4	Able to understand random sampling from a multivariate normal distribution
		CO5	Able to understand the classification and discrimination procedure for discrimination between two multivariate normal populations
BSTA 304	Advanced Epidemiology	CO1	Able to measure the effects of disease by different measures
		CO2	Able to analyze different types of data like categorical, grouped and matched data
		CO3	Able to determine the sample size and power calculation for different epidemiological studies
		CO4	Able to plan different epidemiological studies
		CO5	Able to analyze data from different epidemiological studies and interpret the data
BSTA 305	Advanced Statistical Computing	CO1	Able to apply multivariate data analysis using SPSS and R programming
		CO2	Able to determine the drug effects from different designs by using SPSS

		CO3	Able to estimate missing values from different designs
		CO4	Able to determine the sample size and power calculation for different epidemiological studies
		CO5	Able to analyze time series data and fit with appropriate models
SEMESTER 4			
BSTA 401	R programming , Bayesian Inference and MCMC Methods	CO1	Able to write programs on R programming andAble to apply statistical methods by R program
		CO2	Able to simulate samples from different populations
		CO3	Able to visualize data by graphs and diagrams using R program
		CO4	Able to understand the concepts of Bayesian Inference
		CO5	Able to understand the concepts of simulation techniques
BSTA 402	Survival Analysis and Demography	CO1	Able to distinguish the lifetime distributions
		CO2	Able to identify the prognostic factors and estimate the survival of diseased persons
		CO3	Able to read and understand the life tables
		CO4	Able to predict the population projection
		CO5	Able to analyze the survival data
BSTA 403	Controlled Clinical Trials and Operations Research	CO1	Able to plan a clinical trial
		CO2	Able to understand drug development process
		CO3	Able to analyze continuous, categorical, binary data
		CO4	Able to writing protocol, statistical analysis plan and clinical study report
		CO5	Able to determine the sample size for the clinical trial and able to understand the handling of missing data and multiplicity
		CO6	Able to understand and solve linear programming problems, transportation problems and assignment problems.
BSTA 404	Bioinformatics and Computational Biology	CO1	Able to understand the basics of bioinformatics and biological data analysis
		CO2	Able to classify different types of biological databases and database system
		CO3	Able to understand the sequence alignment, algorithm and tools
		CO4	Able to understand molecular modelling
		CO5	Able to understand phylogenetic analysis
BSTA 405	Advanced Statistical Computing	CO1	Able to solve the linear programming problems, transportation problems and assignment problems
		CO2	Able to visualize data by graphs and diagrams using R program
		CO3	Able to apply statistical methods by R program andAble to simulate samples from different populations
		CO4	Able to apply survival data analysis techniques
		CO5	Able to understand the computational Biology

Name of the Programme: MSc Biotechnology

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
BTPG01	Biochemistry	CO1	The study of biochemistry helps one understand the actual chemical concepts of biology.
		CO2	Biochemistry in general deals with body substance like enzymes, carbohydrates, amino acids, fats, proteins, hormones, DNA, RNA, pigments
		CO3	To study life in terms of biochemical reactions. One can understand all the chemical reactions happening at the molecular level in a living cell or living being. The role of biochemistry and its importance in various fields is as described below.
BTPG02	Cell Biology and Genetics	CO1	Students will know about the cell and its biology, which will help the students to understand the origins of cells and the generation of cell diversity, as well as the common features of cellular structure and function – how they obtain energy, synthesize new molecules, communicate, proliferate and survive.
		CO2	Students will understand the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles
		CO3	Students will understand the cellular components underlying mitotic cell division.
		CO4	The understanding of cells is used for learning the processes such as, absorption, how electrical signals are carried, secretion, why some things such as lack of oxygen can cause death, etc.
BTPG03	Biophysics and Bioinformatics	CO1	Students will be able to understand and describe and use the biological databases, perform structured query and analyze and discuss the results in biologically significant way
		CO2	Students will be able to explain principle, algorithm and different methods of sequence alignments as well as execute alignments to address research problems
		CO3	Students will become familiar with a wide variety of bioinformatics tools and softwares and apply these to conduct basic bioinformatics research and thus develop platform for molecular biology experiments
		CO4	Study about the different motif analysis that act as specific tools for biological interactions.
BTPG04	Instrumentation and Biostatistics	CO1	Course is designed to train the students bioinstrumentation techniques essential for the understanding of life science and biotechnology.
		CO2	Course consists of basics of instrumentation techniques.
		CO3	Basic understanding of statistical concept is necessary to effectively evaluate biological data
		CO4	Demonstrate and understanding of the central concept of modern statistical theory and interpret result of descriptive statistical methods effectively

SEMESTER 2			
BTPG06	Micro-biology	CO1	Student will understand the diversified branches of microbiology
		CO2	Student will know the theoretical and practical aspects of microbial growth and physiology
		CO3	Students will learn about the morphology and physiological characteristics of different groups of microorganisms
		CO4	This course will make the students to understand virus cultivation, phages and bacterial/yeast genetics
BTPG07	Immuno-logy	CO1	Students will understand the basic concept of innate and acquired immunity.
		CO2	Students will gain knowledge about immunoglobulin structures and diversity of antibodies, morphology and functions of various immune cells such as dendritic cells, macrophages, neutrophils and their association with MHC molecules will be studied.
		CO3	This study will make the students to understand the basic mechanisms of hypersensitivity responses and their associations with different diseases.
		CO4	The main goal of the course is to provide basic understanding of immunology and immune responses in response to various infectious and non infectious diseases
BTPG08	Molecular Biology	CO1	Students will learn DNA replication, recombination and repair, transcription and translation
		CO2	Students will be aware of the modern tools and techniques of genomics and isolation and identification of genes
		CO3	Students will understand the biology and application of antisense technologies and biology of cancer
BTPG09	Metabolism and Enzymology	CO1	Basic knowledge of structure and functions of major bio-molecules will make the students to understand and implement the acquired knowledge in future.
		CO2	Understanding of metabolic pathways (catabolism as well as anabolism), their diversity and how these are specifically regulated and interrelated in different cells
		CO3	Practical knowledge and hands on tools and techniques for the characterization of bio-molecules will help the students in advanced research programs
		CO4	Concepts of enzyme kinetics, regulation and specificity
SEMESTER 3			
BTPG11	Bioprocess Technology	CO1	Students will gain knowledge of bioreactor
		CO2	Students will understand the application and functioning of bioreactors
		CO3	This course will make the students to understand the downstream procedure and fermenter waste treatment
BTPG12	Recombinant DNA Technology	CO1	Students will become familiar with the tools and techniques of genetic engineering- DNA manipulation enzymes, genome and transcriptome analysis and manipulation tools, gene expression regulation, production and characterization of recombinant proteins.
		CO2	This course exposes students to the applications of genetic engineering in biological research.

		CO3	Students will be able to perform basic genetic engineering experiments at the end of course.
		CO4	Students will acquire knowledge of advances in biotechnology- healthcare, agriculture and environment cleanup via recombinant DNA technology.
BTPG13	Plant and Animal Biotechnology	CO1	Students will learn the principals and technical advances behind the in vitro culture of plant cells and rDNA techniques
		CO2	Students will learn the applications of plant transformation for improving the productivity and performance of plants under biotic and abiotic stresses
		CO3	Students will understand the use of antisense technologies for improvement of crop plants
BTPG14	Environment Biotechnology	CO1	The student will be able to evaluate the potential of biodegradation of organic pollutants, taking microbial and physical/chemical environments, as well as the chemical structure of the compound itself, into consideration
		CO2	Students will understand the phenomenon of phytoremediation for the decontamination of soil and water, wetlands as treatment processes, biofilms/biofilters for vapor-phase wastes, and composting
		CO3	Students will learn about the environmental quality evaluation, monitoring, and remediation of contaminated environments
		CO4	Students will learn about the use of biosensors in environmental analysis, environmental engineering.
SEMESTER 4			
BTPG25 E	Cancer Biology	CO1	Knowledge gained from studying cancer cell biology not only improves our understanding of disease but is essential for the development of clinical advances that benefits patients, as recent progress in the areas of immunotherapy and cancer vaccine
		CO2	Discussed about how we can make greater strides in prevention and early detection.
		CO3	Studying cancer is to develop safe and effective methods to prevent, detect, diagnose, treat and ultimately cure many diseases.
BTPG24 E	Molecular Markers in Cancer	CO1	Introduction of a number of cancer therapies with the aim of restricting the growth and spread of primary and metastatic tumors.
		CO2	It introduces advanced diagnosis and prognosis methods for effective cancer treatment
		CO3	Molecular marker technology is now viewed at the molecular level of biomarkers, to gene signature classifiers and gene mutations, all of which provide crucial information about which patient will respond to targeted therapy regimens
BTPG30 E	Microbial biotechnology	CO1	Learn about biosafety guidelines.
		CO2	Discuss about bioremediation, biodegradation and other environmental hazardous effect from microbes and treatment by using itself
		CO3	Discuss about present pollution problems and effective possible treatment methods.

Name of the Programme: **MSc Applied Microbiology**

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
PG1AMBC01	Biochemistry and Microbial metabolism	CO1	Explain the fundamental biochemical principles, such as the structure/function of biomolecules.
		CO2	Explain metabolic pathways, fermentation reactions, and the regulation of biological/biochemical processes.
		CO3	Know the reactions of the major catabolic and anabolic pathways of carbohydrate, lipid, and nucleotides
		CO4	Explain the various fermentation reactions executed by microorganisms
		CO5	Explain the general properties of Enzymes and its regulation
PG1AMBC02	Biophysics and Instrumentation	CO1	Explain the installation and operation of various instruments.
		CO2	Explain the importance of thermodynamics in living system.
		CO3	Explain the fundamentals of analytical techniques and steps of a characteristic analysis
		CO4	Evaluate the analytical data
		CO5	Effectively communicate physics basics and how it worth in the biological systems
PG1AMBC03	Virology	CO1	Describe elements of the viral life cycle, explain viral replication strategies and compare replication mechanisms used by viruses relevant for human disease.
		CO2	Explain host antiviral immune mechanisms, explain vaccine strategies and mechanisms of antiviral drugs.
		CO3	Describe viral strategies to evade host immune and cellular factors.
		CO4	Discuss principles of virus pathogenesis, describe methods used for laboratory diagnosis of viral infections.
		CO5	Acquire knowledge about epidemiology and prophylaxis of viruses that are significant as human pathogens.
PG1AMBC04	Fundamentals of Microbiology	CO1	Demonstrate theory and practical skills in microscopy and their handling techniques and staining procedures
		CO2	Understand the basic microbial structure and function and study the comparative characteristics of microbes, and also understand the structural similarities and differences among various physiological groups of bacteria.
		CO3	Know the various culture media and their applications and also understand various physical and chemical means of sterilization
		CO4	Understand the microbial transport systems
		CO5	Know the various Physical and Chemical growth requirements of bacteria and fungi

SEMESTER 2			
PG2AMBC07	Microbial genetics and Molecular biology	CO1	Understand the scientific process, in the context of learning the fundamental biological and chemical 'facts' of molecular biology.
		CO2	Gain skills required to effectively do scientific research.
		CO3	Explain the mechanisms of DNA replication and repair, RNA synthesis and processing, and protein synthesis.
		CO4	Describe how gene expression is regulated at the transcriptional and post-transcriptional level.
		CO5	Discuss the mechanisms of cell to cell signalling, including intracellular second-messenger pathways
PG2AMBC08	Bioinformatics	CO1	To get introduced to the basic concept of bioinformatics, scope, career and its significance in biological data analysis
		CO2	The collection, classification, storage and analysis of biochemical and biological information using computers
		CO3	Introduction to the basics of macromolecular sequences, alignment and analysis
		CO4	Knowledge about the concept of molecular modeling and various approaches in phylogenetic analysis
		CO5	Analysis and handling of various bioinformatics online tools and servers
PG2AMBC09	Immunology	CO1	Describe the basic mechanisms, distinctions and functional interplay of innate and adaptive immunity
		CO2	Define the cellular/molecular pathways of humoral /cell-mediated adaptive responses
		CO3	Define the basic mechanisms that regulate immune responses and maintain tolerance
		CO4	Explain the cellular and molecular aspects of lymphocyte activation, homeostasis, differentiation, and memory.
		CO5	Understand the molecular basis of complex, cellular processes involved in inflammation and immunity, in states of health and disease.
PG2AMBC10	Biostatistics	CO1	Understand the principle concept of biostatistics, recognize the definition of statistics, its subject and its relation with microbial science
		CO2	Analyse data and statistics on living things collected and contribute to the design and execution of research studies
		CO3	Enable the students to disentangle the data received and make valid inferences that can be used to solve problems in public health
		CO4	Knowledge about the application of statistical methods to conduct research in the areas of biology, public health
SEMESTER 3			
PG3AMBC13	Bioprocess Technology	CO1	Students will gain knowledge of bioreactor
		CO2	Students will understand the application and functioning of bioreactors

		CO3	This course will make the students to understand the downstream procedure and fermenter waste treatment
PG3AMBC14	Recombinant DNA Technology	CO1	Technically know- how on versatile techniques in recombinant DNA technology.
		CO2	Understanding on application of genetic engineering techniques in basic and applied experimental biology
		CO3	Show proficiency in designing and conducting experiments involving genetic manipulation
		CO4	Demonstrate the basic techniques involved in recombinant DNA manipulations including DNA restriction, ligation, transformation and selection of recombinant plasmid.
		CO5	Explain the principles and application of PCR, and other sophisticated machineries.
PG3AMBC15	Medical microbiology	CO1	Identify common infectious agents and the diseases that they cause.
		CO2	Explain general and specific mechanisms by which an infectious agent causes disease.
		CO3	Describe the epidemiology of infectious agents including how infectious diseases are transmitted.
		CO4	Explain interventions employed to prevent infectious diseases including infection control measure and vaccines
		CO5	Acquire comprehensive knowledge and understanding of medically significant microorganisms and its diagnosis and treatment
PG3AMBC16	Food and Dairy Microbiology	CO1	Identify the important pathogens and spoilage microorganisms in foods and the conditions under which they will grow
		CO2	Identify the conditions under which the important pathogens are commonly inactivated, killed or made harmless in foods
		CO3	Explain the significance and activities of microorganisms in Dairy and dairy products.
		CO4	Explain why microbiological quality control programmes are necessary in food production.
		CO5	Commit to the highest standards of professional integrity and ethical values
SEMESTER 4			
PG4AMBE02	Microbial Ecotechnology and Soil Microbiology	CO1	Demonstrate insight into quantitative assessments of microbial biodiversity, microbial biomass, growth and metabolic activity of microbes, and relevant environmental parameters in plant – microbe interactions
		CO2	Demonstrate an insight to central methods in plant disease microbiology
		CO3	Devise experimental strategies for analysing microbial populations, and their activity in environment.
		CO4	Critically read, analyse, discuss and present topics from the original scientific literature (articles and reviews) in Agricultural and Environmental microbiology.

		CO5	Know various culturing technique for microbes from agricultural field and other environmental niche.
PG4AMBE01	Pharmaceutical microbiology	CO1	The study of microorganisms associated with the manufacture of pharmaceuticals.
		CO2	Determine antimicrobial effectiveness, microbial contamination or bioburden, analyse endotoxins.
		CO3	Include the research and development of antiinfective agents, the use of microorganisms to detect mutagenic and carcinogenic activity in prospective drugs
		CO4	To study the use of microorganisms in the manufacture of pharmaceutical products
PG4AMBE03	Clinical Microbiology	CO1	Study the prevention diagnosis and treatment of infectious disease
		CO2	Study various clinical application of microbes for the improvement of health
		CO3	Study microscopic organisms like bacteria and fungi, to gain knowledge about fighting and preventing diseases
		CO4	Explain how to incorporate testing for diverse group of microorganisms

Name of the Programme: M.Com.			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
AF01C01	Advanced Financial Accounting-II	CO1	To know the methods of valuation of goodwill and share
		CO2	To acquaint with the amalgamation and reconstruction procedures of companies
		CO3	To learn the proceedings of insolvency of an individual
		CO4	To know the international financial Reporting standards.
PM01C02	Principles of Management and Organisational Behaviour	CO1	Help the students to understand the conceptual framework of management and organizational behaviour
		CO2	Understand the managerial applicability of the concepts.
		CO3	To understand Modern techniques in management
FM01C03	Financial Management Principles	CO1	Introduce the various aspects of financial management
		CO2	Acquaint the student with the knowledge of time value of money
		CO3	To learn various methods and techniques of financial management.
RM01C04	Research Methodology	CO1	Help the students to understand how to do research in the area of commerce and management.
		CO2	Equip the students to identify social issues as research problem

		CO3	Helping the students to develop research aptitude
		CO4	Students are able to design a project proposal and research Synopsis.
QT01C05	Quantitative Techniques	CO1	Understand statistical tools for quantitative analysis
		CO2	Understand the statistical tools for research and business decision making.
		CO3	Equip the students for analysing data
SEMESTER 2			
AF02C06	Advanced Financial Accounting- Paper II	CO1	Understand the proceedings of the preparation of consolidated balance sheet
		CO2	Get an idea about Green accounting, Double accounts, Farm accounts, voyage accounts
		CO3	Acquaint the student with liquidation proceedings of companies.
HR02C07	Human Resource Management	CO1	Understand the human resource functions in an organization.
		CO2	Learn various aspects of Human Resource Development
		CO3	Understand the various leadership styles
FM02C08	Financial Management Strategies	CO1	Acquaint students with the advanced concept of financial management
		CO2	Learn the working and current asset management of an organisation
		CO3	Equip the students to formulate financial strategies for the organization.
SM02C09	Strategic Management	CO1	Understand the framework across strategic analysis, strategy formulation, and strategic implementation
		CO2	Learn about various methods of Environmental analysis
		CO3	Equip the students to formulate strategies for the organization.
OR02C10	Operations Research	CO1	Enable the students to understand various techniques used in operation management decisions.
		CO2	Learn about linear programming methods
		CO3	Develop skill in problem solving mechanisms
SEMESTER 3			
MA02C11	Management Accounting	CO1	Understand accounting methods and techniques used for decision making.
		CO2	Equip students for Financial Statement Analysis of companies and take investment decisions.
		CO3	Apply the marginal costing principles in Decision making situations of businesses.
		CO4	Deal with practical issues related to Management Reporting.
DT02C12	Direct Taxes- Law and Practice	CO1	Make the students familiar with the direct tax law of the country.
		CO2	Equip students to compute the income from salary and house property.
		CO3	Acquire knowledge regarding the basic concepts of Income Tax and Determine taxable profit of a business or profession.

		CO4	Learner shall be able to determine eligible deductions and compute Taxable Income and tax liability of an individual
		CO5	Able to compute capital gain and income from other sources and also calculate Gross Total Income of an individual.
		CO6	To give advanced level of knowledge on direct tax laws and computation and assessment.
IB03C13	International Business	CO1	Understand different aspects of international business.
		CO2	Familiarisation with globalisation, internationalisation of business and the International business environment.
		CO3	Understanding about theories of International trade, trade barriers and trade blocks.
		CO4	Imparting idea about various economic Institutions related to international trade.
		CO5	Develop an understanding about the international investment environment.
		CO6	Achieve high level knowledge about various aspects of international monetary system.
CG03C14	Corporate Governance	CO1	Understand the importance of corporate governance
		CO2	Help students to find new ways to promote more effective boards and committees.
		CO3	Identify issues usually addressed by corporate governance structures
		CO4	Students are able to Summarize recent scandals and abuses and the regulatory reaction
		CO5	Inculcate the values of Business Ethics
BE03C15	Business Environment	CO1	Understand the impact of environment in business
		CO2	Understand Economic Environment and its features
		CO3	To study the role played by legal and political environment in Business
		CO4	To familiarize socio-cultural environment of business and learning how to deal with the dynamism of environment by business
		CO5	Thoroughly understand the concept of Corporate Social Responsibility and its need for sustainable development.
SEMESTER 4			
AC 04C16	Advanced Cost Accounting	CO1	Learn about the higher application of cost accounting techniques and methods.
		CO2	Know the application of cost control techniques.
		CO3	Apply the marginal costing principles in decision making situations of businesses.
		CO4	Understand the concepts of standard costing, and the process of cost control through it.
		CO5	Deal with reconciliation of cost and financial accounting
DT 04C17	Direct Taxes- Assessment & Procedures	CO1	Make the students familiar with the assessment and procedures of direct taxes in the country.
		CO2	Compute the total income and tax liability of firms and Association of Persons
		CO3	Carry out assessment of companies and determine their tax liability

		CO4	Understanding about the assessment procedures, TDS and advance payment of tax and application in various situations
		CO5	Learn tax planning concepts and apply the same
IF 04E01	International Finance	CO1	Give a detailed idea about macro environment on which financial transactions are carried out.
		CO2	Give a comprehensive knowledge about ways and means of raising of finance by MNCs'
		CO3	Learn exchange rate regimes and International Liquidity
		CO4	Familiarise the issues of International Financial Management
		CO5	Develop an understanding about the international cash management and investment environment.
FM 04E02	Financial Markets & Derivatives	CO1	Make the students familiar with the financial system of the country in general and capital market operations in particular.
		CO2	Students are able to understand the commodity trading through multi commodity exchanges.
		CO3	Knowledge about the derivative market in India, its evolution, types, players, risks involved and basic quantitative foundations.
		CO4	Analyze the implications of Risk in the perception of individuals and Institutions and measurement of risks.
		CO5	Understand and explain the concept of forward market and its function.
		CO6	Analyse the operation and pricing of various types of futures
		CO7	Understand the concepts and methodology of option trading and apply the models of pricing the option contracts and develop an idea of exchanges through swaps
SA 04E03	Security Analysis and Portfolio Management	CO1	Students are able give a detailed idea about techniques of Security analysis
		CO2	Able to understand the concepts of investments, different types of investments, views of investment and process of investment and apply the theoretical knowledge in investment information for selecting the securities.
		CO3	Understanding the types of risk in security market and Applying various tools for the valuation of bonds as well as economic indicators to predict the market.
		CO4	Understand the tools of technical analysis, analyse the patterns and trends in the market by using various tools and enable to take investment decisions after understanding market efficiency level also.
