

ST. THOMAS COLLEGE PALAI

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

College with Potential for Excellence (CPE-UGC)

(Affiliated To Mahatma Gandhi University, Kottayam)



COURSE OUTCOMES

OF

UNDERGRADUATE PROGRAMMES

(2009 - 2016 Admissions)

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UNDERGRADUATE PROGRAMMES - BA/BSc/BCom

COMMON COURSE – ENGLISH

Name of the Programme	Course code	Course Title	Course Outcomes	
SEMESTER 1				
BA BSc BCom	ENCN1	Communication skills in English	CO1	To develop the students' ability to use English language accurately and effectively by enhancing their communication skills.
			CO2	To introduce the students to the speech sounds of English in order to enable them to listen to English and speak with global intelligibility.
BA BSc	ENCN2	Reading literature in English	CO1	To sensitize students to the aesthetic, cultural and social aspects of literature.
			CO2	To develop in the learners an appreciation of the subtle nuances of literary expression.
			CO3	To enable the learners to revalue literature as cultural and communicative events.
SEMESTER 2				
BA BSc BCom	ENCN3	Critical thinking, academic writing and presentation	CO1	To assist the students in developing appropriate and impressive writing styles for various contexts.
			CO2	To help students rectify structural imperfections and to edit what they have written.
			CO3	To equip students for making academic presentations effectively and impressively.
BA BSc	ENCN4	Musings on vital issues	CO1	To provide an overall awareness about relevant societal and global issues through a critical reading of appropriate literary pieces.
			CO2	To inspire students to think critically about vital social issues that confront the contemporary world.
SEMESTER 3				
BA BSc	ENCN5	Reflections on Indian polity, secularism and sustainable environment	CO1	To enable the students to grow into responsible citizens taking pride in the secular and democratic traditions of the country.
			CO2	To inculcate a cosmopolitan outlook in the students and to equip them to fight against the divisive forces in the society.
			CO3	To make the students aware of the consequences of mindless exploitation of nature.

BCom	ENCNC1	Perspectives in Literature	CO1	To sensitize students to the aesthetic, cultural and social aspects of literature.
			CO2	To develop in the learners an appreciation of the subtle nuances of literary expression.
			CO3	To enable the learners to revalue literature as cultural and communicative events.
SEMESTER 4				
BA BSc	ENCN6	Evolution of the philosophy of science: literary perspectives	CO1	To promote a new way of thinking which will encompass both science and literature and facilitate communication between both science and literature.
			CO2	To inculcate in the students a broad outlook which will enable them to understand that literature with scientific content is the best means of communicating scientific ideas in an interesting manner
BCom	ENCNC2	Reflections on Vital Issues	CO1	To sensitize the learners to various global as well as regional problems.
			CO2	To motivate the learners towards constructive use of the language through the selected literature pieces.
			CO3	To inspire the learners to read further about relevant contemporary issues and thereby to form informed opinions on them.

SECOND LANGUAGES

Name of the Programme	Course code	Course Title	Course Outcomes	
SEMESTER 1				
MALAYALAM				
BA BSc	MAL1A01U	Katha, Novel	CO1	Recognize general awareness in literature
			CO2	Appreciate importance of literature and life To sensitize aspects in Malayalam
BCom	MAL1A01U	Kathayum Kavithayum	CO1	General awareness about Malayalam literature
			CO2	Introducing new common trends in Malayalam literature
HINDI				
BA BSc	HN1CCT01	Essays and One Act Play	CO1	To make the students familiar with drama and other forms of arts.
			CO2	Students will be able to understand the cultural social and moral values.
			CO3	Students will be able to develop their own creativity enhance their writing skills

BCom	HN1CCT01	Prose and Applied Hindi	CO1	To understand and appreciate Hindi prose .
			CO2	To enrich the knowledge of commercial letter writing and other styles of letters
			CO3	To acquire command over the use of Hindi for creative writing
GERMAN				
BA History	GER 1 A03U	Basic Grammar and translations (seen texts)	CO1	Introduces German alphabets and pronunciations with students
			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	GER 1 A01U	Grammar and Translations (seen texts)	CO1	Introducing first stage of basic grammar and vocabulary.
			CO2	Developing the skills of reading, writing and listening in real life
			CO3	Trains to speak along with dialogue patterns, conversations and oral exercises
			CO4	Translations from German to English and English to German.
BCom	GER 1 A01U	Introductory German for Business People	CO1	Introduces 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	SY1CCT01	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	SY2CCT02	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	MAL2A01U	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	MAL2A01U	Gadhyam, Rachanaparichayam	CO1	Introduce Prose
			CO2	Making awareness of write-up and usage

HINDI				
BA BSc	HN1CC T02	Translation communica tive skills and applied grammar	CO1	To understand the grammar of Hindi Language and the structure of Hindi Language
			CO2	To develop the Hindi Language
			CO3	Students will be able to develop their own creativity enhance their writing skills
BCom	HN2CC T02	Poetry, Communica tive Hindi and Translation	CO1	Students will be able to apply the principles of literary criticism to the analysis of Poetry
			CO2	To use new technology like internet and computers in learning Language and acquiring skills.
			CO3	To develop communicative skills in Hindi and English through Translation
GERMAN				
BA History	GR2CC T08	Communi- cative German and Transla- tions	CO1	Familiarize and deepens knowledge of grammar
			CO2	Translates short texts from German to English
			CO3	Efficiency in effective use of dialogue patterns in real life conversations
			CO4	Perfecting the Pronunciation of target language
BA B.Sc	GR2 CCT02	Grammar, Translation and Communica tion	CO1	Equip students with proper usage of grammar
			CO2	Increases German word power
			CO3	Trains and leads simple conversations in German
			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	Deepens efficient and effective use of German Expressions
			CO4	Imparts 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	Poetry Grammar and History of Syrian Church of Kerala	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	MAL3 A01U	Arangum Porulum	CO1	General awareness of stage
			CO2	To identify new trends in aesthetics in Stage

HINDI				
BA BSc	HN1C CT03	Novel and Poetry	CO1	To make students familiar with novel and poetry
			CO2	To experience the various dimensions in the content and form of the poetry
			CO3	Student will be able to develop their own creativity.
GERMAN				
BA, B.Sc.	GER 3 A01U	Grammar, German history, society and culture	CO1	Students are now able to read, write, speak and understand German and applies 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	MAL4 A01U	Gadhya,rac hanaparich ayam	CO1	Introducing importance of prose literature in Malayalam through different articles
			CO2	To identify autobiography of a women Dhaya Bhai
			CO3	Appreciate importance of poetry and life To sensitize aspects in Malayalam
HINDI				
BA, BSc	HN1C CT04	Culture and civilization of India	CO1	To develop an authentic knowledge about the development of literature.
			CO2	To make the students familiar with ancient and modern culture.
			CO3	To develop an outlook about the ancient history.
GERMAN				
BA, B.Sc.	GER4 A01U	German literature- selected readings: prose and poetry	CO1	Awareness of aesthetic values of German literature and appreciation
			CO2	Understands history, culture, society and German writers
			CO3	Proficiency in target language
SYRIAC				
BA, B.Sc.	SY4C CT01	Prose Grammar and History of Syrian Church in India	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			
ENCR1	Methodology of humanities and literature	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			
ENCR2	Introduction to 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			
ENCR3	Literature and informatics	CO1	To introduce students to the various relevant aspects of Information Technology and Computers which will facilitate the study of literature.
		CO2	To equip the students to make use of the possibilities existing in the IT sector.
ENCR4	Study of prose	CO1	To enhance the level of critical thinking of students-to enable them to critically interact with prose writings from different contexts-social, political, Economical, historical, national and philosophical
		CO2	To develop critical thinking in students
		CO3	To enable them to write and appreciate different types of prose
SEMESTER 4			
ENCR5	Reading poetry	CO1	To enhance the level of critical thinking and appreciation of poems from different contexts and genres
		CO2	To introduce the students to the basic elements of poetry-to enrich the students through various perspectives readings in poetry
ENCR6	Reading fiction	CO1	To introduce the students to different kinds of fiction and to help them appreciate fiction.
		CO2	To develop critical thinking and imagination through long and short fiction and to familiarize students with cultural diversity through different representative samples of fiction.

SEMESTER 5			
ENCR 7	Reading drama	CO1	To develop in the students a taste for reading drama with practical knowledge of theatrical performances.
		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.
ENCR 8	Language and linguistics	CO1	To lead to a greater understanding of the human communicative action through an objective study of language.
		CO2	To familiarize students with the key concepts of linguistics and develop awareness of the latest trends in language study.
		CO3	To help students move towards better and intelligible pronunciation and to improve the general standard of pronunciation in everyday conversation.
ENCR 9	Literary criticism: theory and practice	CO1	To familiarize the students with some of the key literary terms.
		CO2	To introduce the various streams in literary criticism
		CO3	To make them aware of the interdisciplinary nature of literary criticism
ENCR10	Postcolonial literatures	CO1	To familiarize the students with the basic tenets of Postcolonial theory and literature and to inculcate in the student an awareness of diverse cultures and literatures.
		CO2	To familiarize the students with literary productions that address issues related to cultural identity in colonized societies, the development of a national identity after colonial domination, and the ways in which writers articulate and celebrate such identity.
SEMESTER 6			
ENCR11	Women's literature	CO1	To introduce students to the development of women's writing in various countries.
		CO2	To familiarize them with the diverse concerns addressed by feminism.
		CO3	To motivate them to critically analyse literary works from a feminist perspective.
ENCR12	Indian Writing in English	CO1	To inspire students to read and appreciate Indian literature in English, and to explore its uniqueness and its place among the literatures in English.
		CO2	To motivate students for a critical and comparative study of other literatures in English and to examine the similarities and differences in attitudes, vision and style.
		CO3	To provide an overview of the various phases of the evolution of Indian writing in English.
ENCR 13	Comparative literature	CO1	To inculcate in the pupil the basic idea about and the method of comparative literary analysis.
		CO2	To inculcate in the pupil a feel of various methods employed to identify shared features of various literatures and to equip him/her to make comparative and contrastive analysis of literary texts.
ENCR14	American literature	CO1	To introduce students to the glorious masterpieces of American literature—its unique flavor, style, form and themes.

		CO2	To motivate students to attempt an intelligent appreciation and critical evaluation of American civilization and culture as revealed in the works.
		CO3	To inspire them to make further explorations into contemporary American literary works.

Name of the Programme: BA Malayalam

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
ML1B01U	Kavitha Samkramam	CO1	To sensitise aspects in Malayalam poetry
		CO2	To identify new trends in poetry
SEMESTER 2			
ML2B01U	Cherucherry muthal kavitrayam vare.	CO1	Familiarize poetry From medieval to modern trio
		CO2	Familiarizing new trends in medieval poetry
SEMESTER 3			
ML3B01U	Smohaparina mavum Samskaram	CO1	Familiarizing Culture of Kerala through historical method
		CO2	Identifying knowledge Culture of Kerala through historical method
SEMESTER 4			
ML4B01U	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			
ML5B01U	Samanya bhasha sastram	CO1	Introducing basic linguistics
		CO2	Realizing Linguistics studies
ML5B02U	Bharateeya sahityasidan tangal	CO1	Introducing aesthetic theories of east .
		CO2	Recognize the influence of Indian philosophy in Malayalam literature and so on
ML5B03U	Bharateeyeta ra sahithya sidhantangal	CO1	Introducing ages of short story and novels
		CO2	Familiarizing Cultural changes through Dalit and Feminine Studies
ML5B04U	Keraleya Ranjakala	CO1	Introducing General awareness about Performing Arts
		CO2	Recognize the importance of Performing Arts.
SEMESTER 6			
ML6B01U	Katha Sahithyam	CO1	Introducing social importance and Aesthetics of short stories
		CO2	Realizing literary values of Short Storiesof Kerala
ML6B02U	Gadhyasahit hyam niroopanam	CO1	Introducing some milestones in Malayalam prose of Malayalam Language
		CO2	Realizing different areas of prose

ML6B03U	Pracheena Sahithyam	CO1	Introducing general awareness about evolution
		CO2	Appreciate different attitudes in ancient Malayalam literature
ML6B04U	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			
EC1B01 U	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			
EC2B02 U	Development and Environmental Economics	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.
SEMESTER 3			
EC3B03 U	Principles of micro economics	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.
EC3B04 U	Modern Banking	CO1	It is designed to acquaint the students with the working of banks
		CO2	It helps to familiarize them with the basic principles under which the whole banking system works.
		CO3	It provides a platform to understand concepts and terms which are often used in banking literature.
SEMESTER 4			
EC4B05 U	Micro Economic Analysis	CO1	This paper provides the students the information regarding the theory of cost, market performance and welfare economics.
		CO2	This course also makes a description 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
EC4B06 U	Public Economics	CO1	The purpose of this course is to give an understanding of the role of state in arranging the economic activities via budget and fiscal policies.
		CO2	The 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 finances and treasury.
SEMESTER 5			
EC5B08 U	Principles of Macro Economics	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 in nature of economy as a whole.
		CO3	It presents macro-economic trends of various variables and the theory behind it.
EC5B09 U	Indian Economy	CO1	The objective of the course is to equip the students with the theoretical, empirical aspects.
		CO2	This course also discusses policy issues relating to the society, polity and economy of India.
		CO3	It provides the students to know about globalization process and its diverse ramifications on the knowledge economy.
EC5B10 U	Economics of 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.
SEMESTER 6			
EC6B12 U	Macro Economic Analysis	CO1	This course equips the students to understand systematic facts.
		CO2	It provides the students the latest theoretical developments in Macro -economics.
		CO3	It gives an account on the recent macro economic developments which take place in the various sectors of the economy.
EC6B13 U	Development Issues of the Indian Economy	CO1	The objective of the course is to impart knowledge developmental issues of the Indian Economy.
		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.
EC6B14. 2U	Human Resource Management	CO1	The course gives the students an overview of human resource management.
		CO2	Students get an understanding about the value of human resources as a human capital
		CO3	It imparts knowledge of policies, procedures and techniques of human resource planning.
EC6B15 U	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.

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

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
HYC 01	Methodology and Perspectives of Social Science	CO1	An introduction about different methodologies of social sciences
		CO2	To academically differentiate different sects of social science.
		CO3	To enhance interdisciplinary approaches towards various subjects.
HYC/V/AM/01	Basics of Archaeology	CO1	On the successful completion of this course students will understand the nature, development and value of Archaeology as a discipline.
SEMESTER 2			
HYC02	Cultural Transitions in Pre- Modern Kerala	CO1	To learn about the evolution of ancient society of Kerala.
		CO2	To make students aware of the various dynasties and empires in medieval Kerala.
		CO3	To provide a critical understanding about the pre-modern history of Kerala
HYC/V/AM/02	Methods of Archaeology	CO1	Students learn the basic techniques and methods in field of archaeology through field visit and practical sessions.
SEMESTER 3			
HYC 03	Making of Modern Kerala	CO1	To learn about the advent of Europeans and formation of modern society of Kerala.
		CO2	To understand the political and social conditions of contemporary Kerala
HYC04	Informatics	CO1	To create an awareness among the students about the use of modern technologies.
		CO2	To develop practical skills that gives students the satisfaction of creating something functional whether software or hardware.
HYC/V/AM/03	Basics of Museology	CO1	Students learn the basic function of museums and their activities.
		CO2	It also study the history and development of museums and museology, different types of museums.
SEMESTER 4			
HYC05	Understanding the Past	CO1	To stress different methodologies of research.
		CO2	To make aware about various techniques and trends in research.
		CO3	To academically enrich research mentality in students.

HYC06	Early Societies in India	CO1	An idea about the life of man and the evolution process of different institutions in early India
		CO2	To identify the historical traces of India.
		CO3	To make aware about the strong legacy of India and to generate a passion towards the ancient past of India
HYC/V/AM/04	Methods of Museology	CO1	Students learn basics of museum, collection, documentation, exhibition, conservation and legislations relating to museums.
SEMESTER 5			
HYC07	Institutions in Pre- Colonial India	CO1	To create an awareness about the socio-economic-political and cultural life of medieval India.
		CO2	To offer a vivid picture about various spheres of medieval Indian society.
HYC09	India: Nation in the Making	CO1	To emphasis on the study of the struggle for independence in India.
		CO2	To develop knowledge about the evolution of our constitution.
		CO3	To inculcate the spirit of patriotism and nationalism.
HYC 10	Trends in Historical Writings	CO1	To gain knowledge about the perspectives of past.
		CO2	To grasp why history came to be rewritten differently from time to time and under what conceptual presuppositions.
		CO3	To stress the importance of historical trends through time.
HYC/V/AM/05	Growth of Indian Archaeology	CO1	Students will learn the history and development of archaeology in India.
		CO2	To learn the succession or growth and history of India from Palaeolithic to Iron Age with archaeological data.
SEMESTER 6			
HYC11	Issues in 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.
HYC12	Situating Medieval World	CO1	To create an awareness about feudalism in Europe.
		CO2	To learn the religion and culture in medieval Europe.
HYC13	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.
HYC/V/AM/06	Archaeological Sites and Monuments in India	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			
PS1B01 UG	Methodology and Perspectives of Social Sciences	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			
PS2B02 UG	Introduction to Indian Political System	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			
PS3B03 UG	Issues in Indian Political System	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
PS3B04 UG	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.
SEMESTER 4			
PS4B05 UG	Political Thought.	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.
		CO3	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.

PS4B06 UG	Introduction to 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.
SEMESTER 5			
PS5B07 UG	Comparative Political Systems	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
PS5B08 UG	Research Methods 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
PS5B09 UG	Introduction to 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.
PS5B10 UG	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.
SEMESTER 6			
PS6B11 UG	Elements of International Politics	CO1	To equip students with the basic intellectual tools for understanding International Politics.
		CO2	To contextualize the evolution of the international state system and discussing the agency-structure problem through the levels-of-analysis approach.
PS6B12 UG	Society and Politics 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
PS6B13 UG	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.
PS6B14 UG	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.

Name of the Programme: BA English Language and Communication Studies

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
EN01BA C01	Grammar and conversational skills	CO1	At the end of the course, the students would assimilate the basics of grammar, usage and effective communication.
		CO2	Would be able to use English in both written and spoken forms
		CO3	Achieve the use of English in formal and informal situations
EN01BA 901	Methodology of Humanities and Literature	CO1	Would internalize the values imparted through the concepts
		CO2	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.
		CO3	Would reorient S/himself to be better human beings
		CO4	The diversity of genres and techniques of representation and narration
SEMESTER 2			
EN02AA 901	Critical thinking, Academic Writing and presentation	CO1	Develop critical thinking
		CO2	Would be able to make academic presentations effectively and impressively
		CO3	To help students rectify structural imperfections and edit what they have written
		CO4	To assist the students in developing appropriate and impressive writing styles for various context
EN02BA C01	Introduction to Communication	CO1	Would become conversant with key terms of communication
		CO2	Would be able to deliver effective messages based on audience and concepts.
		CO3	Would relate theoretical knowledge with practical issues
EN02BA C02	Business Communication	CO1	Would be able to use current technology related to communication.
		CO2	Would be able to use of various types of oral, written and communication to the range of business communication.
		CO3	Would be effective business writers
		CO4	Would be professional communicators
SEMESTER 3			
EN03BA C02	Advertising and Copy Writing	CO1	Would be familiar with various technologies and concepts relating to digital media and internet
		CO2	Would be able to analyse comparable advertisements and explain the effectiveness of the structure of advertising agency.
		CO3	Would be able to produce effective copies of given product.
		CO4	Would be able to generate skills to collaborate with creative team in a professional advertisement organizations

EN03BA 901	Literature and informatics	CO1	The students will have a thorough general awareness of computer hardware and software
		CO2	The students will have good practical skill in performing common basic tasks with the computers
		CO3	The students are expected to create Power point presentations on any topics.
EN03BA C01	Print media and journalism 1	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			
EN04BA 902	Reading fiction	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
EN04BA C01	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
EN04BA 901	Reading Poetry	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
SEMESTER 5			
EN05BA C06	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
EN05BA C02	Mass Communicati on 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
EN05BA C03	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
EN05BA 902	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
SEMESTER 6			
EN06BA C02	Visual Media: Television and Cinema	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
EN06BA C03	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
EN06BD 901	Entrepreneur ship 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
EN06BA C04	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
EN06BB C01	Travel and Tourism	CO1	Would be able to understand the international tourist attractions, cultures and hospitality management.
		CO2	Would understand the social movements in tourism
		CO3	Would understand the typology of tourism.
		CO4	Would attain a basic knowledge of marketing principals, study to sustainability of alternative promotional approaches and to formulate marketing plans for tourism industry.

Name of the Programme: BSc Mathematics

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
MM1B0 1	Foundations of Mathematics	CO1	Familiarize mathematical terminologies and symbols, notations, propositional logic, equivalences etc;
		CO2	Develop standard methods of proofs
		CO3	To introduce the theory of numbers
SEMESTER 2			
MM2B0 1	Analytic geometry, trigonometry and Matrices	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	To introduce the theory of matrices
SEMESTER 3			
MM3B0 1	Calculus	CO1	Finding higher order derivatives of the product of two functions
		CO2	Expand a function using Taylor's and Maclaurin's series
		CO3	To introduce the theory of multiple integrals
		CO4	Learn about partial derivatives and its applications
SEMESTER 4			
MM4B0 1	Vector calculus, theory of equations and numerical methods	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	Learn the theory of equations
		CO4	Introduce elementary numerical techniques.
SEMESTER 5			
MM5B0 1	Mathematical analysis	CO1	The learner understands the structure and properties of the real number system.
		CO2	Have the knowledge of the sequences and series of real numbers and their convergence.
		CO3	Understand the concept of limit of a function in detail and familiarize the evaluation techniques
		CO4	The student will be able to construct rigorous mathematical proofs of basic results in real analysis.
MM5B0 2	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	To introduce partial differential equations
		CO4	Use power series method to solve differential equations
MM5B0 3	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
MM5B0 8	Fuzzy Mathematics	CO1	To introduce fuzzy set theory as a generalization of classical set theory
		CO2	To introduce fuzzy arithmetic
		CO3	To introduce fuzzy logic
SEMESTER 6			
MM6B0 1	Real Analysis	CO1	Have the knowledge of continuity and differentiability of real functions.
		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.
MM6B0 2	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
MM6B0 3	Discrete Mathematics	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	Study elements of Cryptography
		CO4	To introduce Lattice theory
MM6B0 4	Linear Algebra and Metric spaces	CO1	To introduce Vector spaces
		CO2	Introduce linear transformations in vector spaces
		CO3	Introduce metric spaces

Name of the Programme : BSc Physics			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
PH1B0 1U	Methodology in Physics	CO1	Impart students a broad outline of the methodology of science in general and Physics in particular.
		CO2	Learn the principles of important analytical and instrumental tools used for practicing Physics experiments.
		CO3	Understand the nature of experimental errors and practical means to estimate errors in acquired data.
SEMESTER 2			
PH2B0 1U	Mechanics and properties of matter	CO1	Understand the fundamental concepts of mechanics, acoustics and the properties of matter.
		CO2	Learn the physical characteristics of SHM and obtain solution of various oscillators using differential equations.
		CO3	Gain knowledge on applications of material properties.

SEMESTER 3			
PH3B0 1U	Electricity and Electrodynamics	CO1	Achieve Two Terminal Element Relationships for circuits containing resistors, inductors and capacitors and their analysis.
		CO2	Gain Knowledge on the basic concepts of electric and magnetic fields.
		CO3	Familiarize with EM waves, propagation and their properties.
SEMESTER4			
PH4B0 1U	Electronics	CO1	Acquire the knowledge about the characteristics and working principles of semiconductor diodes, Bipolar Junction Transistors, integrated circuits etc.
		CO2	Familiarize the principles of communication systems.
		CO3	Appraise the students about the electronics industry.
SEMESTER5			
PH5B0 1U	Classical and quantum mechanics	CO1	Understand the principles of constraints, Lagrangian and Hamiltonian formalisms, generalized co-ordinates etc.
		CO2	Learn the development of quantum mechanics and dual nature of matter and radiation.
		CO3	Set up and solve Schrodinger equation for different kind of systems.
PH5B0 2U	Physical optics and Photonics	CO1	Explain the phenomena- reflection, refraction, interference, diffraction, polarization etc on the basis of wave theory.
		CO2	Study the working principles of various optical instruments.
		CO3	Gain knowledge in Lasers, Holography optical fibers etc.and their applications in communication.
PH5B0 3U	Thermal and Statistical Physics	CO1	Understand the nature of thermodynamic properties of matter like internal energy
		CO2	Understand the laws of thermodynamics
		CO3	Apply the principles of probability in distribution of particles in various systems
PH5B0 4U	Digital Electronics	CO1	Understand number representation and conversion between different representations in digital electronic circuits.
		CO2	Analyse logic processes and implement logical operations using combinational and sequential logic circuits.
		CO3	Study the basics of digital communication system.
SEMESTER 6			
PH6B0 1U	Computational Physics	CO1	To develop background knowledge and core expertise of microprocessor 8085.
		CO2	Develop a good understanding of the issues involved in programming language design and implementation.
		CO3	Achieve the capability of specifying the simplified syntax of C++ programming language.
PH6B0 2U	Nuclear and Particle Physics	CO1	Acquire knowledge of basic properties of nuclei and nuclear structure.
		CO2	Usage of basic laws in determination of properties of processes in the subatomic world.
		CO3	Understanding of particle physics phenomena and measurement, results, explanation and evaluation.

PH6B0 3U	Condensed Matter Physics	CO1	Study properties of condensed or solid state materials, which can be explained on the basis of arrangement of atom, ions and electron motion, spin etc.
		CO2	Learn crystal structure, crystal binding, lattice dynamics, electron, electron distribution theories and the concept of energy bands.
		CO3	Analyse the electrical and magnetic properties of solids.
PH6B0 4U	Relativity and spectroscopy	CO1	Study special relativity and its impacts on Newtonian mechanics.
		CO2	Describe theories explaining the structure of atoms and the origin of the observed spectra.
		CO3	Study the change in behavior of atoms in external applied electric and magnetic field.
		CO4	Explain rotational, vibrational, electronic and Raman spectra of molecules along with electron spin and nuclear magnetic resonance spectroscopy and their application.

Name of the Programme : BSc Chemistry

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
CH1B0 1	Methodology of chemistry as a discipline of Science	CO1	Impart a broad outline of the methodology of Science in general and Chemistry in particular
		CO2	Understand the important analytical and instrumental tools used for practicing Chemistry
		CO3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.
SEMESTER 2			
CH2B0 1	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.
CH2B0 1	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			
CH3B0 1	Fundamentals of Organic Chemistry	CO1	Basic understanding about the classification and nomenclature of organic compounds, fundamentals of organic reaction mechanism, aromaticity and stereochemistry
		CO2	The curriculum is so designed as to fulfil these objectives
		CO3	Develop skills required for the qualitative analysis of organic compounds

SEMESTER 4			
CH4B0 1	Basic Organic Chemistry-I	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.
		CO2	To understand and study Organic reaction mechanisms
CH3B0 1	Qualitative Organic Analysis (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
SEMESTER 5			
CH5B0 1	Chemistry of d and f block elements	CO1	Study physical and chemical properties of d and f block elements.
		CO2	Understand the role of metals in biological systems
		CO3	Impart an idea about applications of coordination compounds
CH5B0 2	Basic Organic Chemistry -II	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
CH5B0 3	States of matter	CO1	How to use their understanding of organic mechanisms to predict the outcome of reactions
		CO2	How to design syntheses of organic molecules and how to determine the structure of organic molecules using IR and NMR spectroscopic techniques
CH5B0 4	Quantum Mechanics and Spectroscopy	CO1	Students will be able to distinguish between classical and Quantum mechanical chemistry
		CO2	To understand theory of modern branches like spectroscopy
SEMESTER 6			
CH6B01	Applied Inorganic Chemistry	CO1	Students will study Chemistry of refractory and ceramic materials
		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
CH6B02	Chemistry of Natural Products and Biomolecules	CO1	This course 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
CH6B03	Equilibrium and Kinetics	CO1	This course covers Thermodynamics, Equilibrium and Kinetics, three important topics in chemistry, which will help students to get foundation for further studies
		CO2	The students are getting enough information about the speed and energy requirements for chemical reactions.
CH6B04	Solution Chemistry	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	The students have an idea about the reactions that takes place in solutions, which are beyond their imagination.
CH6B01	Qualitative Inorganic Analysis	CO1	Plan and Conduct experiments for identifying inorganic acid and basic radical
		CO2	To Eliminate the interfering acid radicals
		CO3	Qualitatively analyse the inorganic mixture containing two acid and basic radicals
CH6B02	Organic preparations and laboratory techniques	CO1	To conduct basic laboratory techniques such as crystallisation, distillation and solvent extraction
		CO2	To quantitatively separate organic compounds
		CO3	To separate and identify the organic compounds using chromatographic techniques.
CH6B03	Physical Chemistry Practicals	CO1	Explain the principle behind the experiments performed in the laboratory
		CO2	Plan and Perform experiments and Interpret experimental results.
CH6B05	Gravimetric analysis	CO1	To analyse quantitatively compounds using gravimetric method

Name of the Programme: BSc Botany

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
BO1B01 U	Methodology and perspective of science and introduction to world of plant diversity	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			
BO2B02 U	General informatics and methodologies in plant science	CO1	Understand the current developments in the field of Botany.
		CO2	Equip the students to use programs in computational biology.
		CO3	Introduce the vast repositories of Biological data knowledge.
		CO4	To equip the students to access and analyze data available in databases.
SEMESTER 3			
BO3B03 U	Anatomy and reproductive botany of angiosperms	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.
SEMESTER 4			
BO4B04 U	Microbiology and phycology	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 5			
BO5B05 U	Mycology, lichenology 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.
BO5B06 U	Bryology, 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
BO5B07 U	Angiosperm morphology, systematic botany 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
BO5B08 U	Cell, Molecular biology and evolution	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.
SEMESTER 6			
BO6B09 U	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.
BO6B10 U	Environmental science and ecotourism	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 of the usefulness of ecotourism
BO6B11 U	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.

BO6B12 U	Biotechnology and bioinformatics	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			
ZY1B01U	General Methodology and Perspectives in science	CO1	To make aware of the basic philosophy of science, its history, concepts and scope
		CO2	To develop proper scientific mind, culture and work habits
		CO3	To familiarize with the basic tools and techniques of scientific study with emphasis on biological sciences
SEMESTER 2			
ZY2B02U	Biodiversity & Modern systematics	CO1	To create appreciation on diversity of life on earth
		CO2	To understand different levels of biological diversity
		CO3	To familiarize taxa level identification of animals
		CO4	To learn biodiversity estimation techniques
		CO5	To create interest for conservation of biodiversity
SEMESTER 3			
ZY3B03U	Animal Diversity Non Chordata	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 evolutionary significance of various invertebrate fauna
		CO4	To stimulate the curiosity in living things around them.
SEMESTER 4			
ZY4B04U	Animal Diversity Chordata	CO1	To make the student observe the diversity in chordates and their systematic position.
		CO2	To make them aware of the economic importance of some classes
SEMESTER 5			
ZY5B05U	Cell Biology and Molecular Biology	CO1	To emphasize the central role of Cell Molecular biology
		CO2	To make aware of different cell organelles
		CO3	To introduce the nature of genetic materials at molecular level
		CO4	To develop critical thinking, skill and research aptitudes
ZY5B06U	Environmental Biology, Toxicology and Disaster Management	CO1	To impart basic knowledge on ecosystems and their functioning
		CO2	To learn about various types of anthropogenic pressures on ecosystem, related degradation and management measures

		CO3	To study toxicants, their impacts on human health and environment and remedial measures
		CO4	To create awareness about disasters, prevention and mitigation measures
ZY5B07U	Evolution, Zoogeography and Ethology	CO1	To acquire knowledge about the evolutionary history of earth (living and non living)
		CO2	To learn various tools and techniques for evolutionary studies
		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
ZY5B08U	Biochemistry, Physiology and Endocrinology	CO1	This course will provide students with a deep knowledge in biochemistry, physiology and endocrinology
		CO2	Students will acquire a broad understanding of the hormonal regulation of physiological processes in invertebrates and vertebrates
		CO3	By the end of the course, students should be familiar with hormonal regulation of physiological systems in several invertebrate and vertebrate systems
SEMESTER 6			
ZY6B09U	Reproductive and Developmental Biology	CO1	This will provide a basic understanding of the experimental methods and designs that can be used for further study and research
		CO2	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
ZY6B10U	Genetics and Biotechnology	CO1	To emphasize the central role that genetics and biotechnology plays in the life of all organisms
		CO2	To introduce the student to some of the present and future applications of bio-sciences
		CO3	To develop critical thinking skill and research aptitude among students, by introducing the frontier areas of the biological science
ZY6B11U	Microbiology and Immunology	CO1	To inspire the students in learning the frontier areas of biological sciences
		CO2	To make them aware of the pathogens, health related problems, their origin and treatment
		CO3	To equip the students with the knowledge of modern developments and recent trends in biological sciences
ZY6B12U	General informatics Bioinformatics and Biostatistics	CO1	To inspire the students in learning the frontier areas of biological sciences
		CO2	To update and expand basic informatics skills and attitudes relevant to the emerging knowledge of society and also to equip the students to effectively utilize the digital knowledge resources in learning
		CO3	To equip the students with the knowledge of modern developments and recent trends in biological sciences

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

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
RLS11B 1	Foundation of recreation leisure and sports service	CO1	To appraise the concept of holistic health through recreation, fitness and wellness
		CO2	To explain the students about the concept of physical fitness , health related and motor fitness
		CO3	To describe the contemporary health issues.
		CO4	To apply practical principles of the fitness & wellness
RLS1B2	Scientific principles and practices of health and fitness training	CO1	To provide knowledge and concept of sports training.
		CO2	To develop an understanding of the technical and tactical training.
		CO3	To provide the role of sport sciences to achieve the excellence
RLS1B3	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
RLS1B4	Management concept	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			
RLS2B1	Applied physiology of sports and exercise	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
RLS2B2	Science of 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.
RLS2B4	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			
RLS3B1	Test and measurement	CO1	To develop concepts related to Test, Measurement & Evaluation.
		CO2	To construct a strong basis in the evaluation techniques through the various test and measurements method used in physical education.
		CO3	To analyze the physical ability 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.
RLS3B2	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.
RLS3B2	First aid, doping, sports medicine and nutritional supplements	CO1	To develop concepts related to sports nutrition first aid and sports medicine
		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 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.
RLS3B4	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
RLS3B1	Economics for recreation and leisure management	CO1	To give students knowledge in the various fields of Economics and an in-depth understanding of the theoretical and empirical constructs in the field of recreation & leisure management.

		CO2	To disseminate awareness and appreciation of the complexity of socio-economic interdependence and change.
		CO3	Application of economic theories and dilating problem-solving acumen in the field of sports
		CO4	To teach applications of theories in analyzing current economic problems related to recreation leisure & sports
SEMESTER 4			
RLS4B1	Spa therapy	CO1	To understand the concept of spa in sports
		CO2	To acquire the skills required for Spa Therapy
		CO3	To develop and apply various techniques for Sports recovery and performance enhancement.
RLS4B2	Recreation and sports event planning & facility management	CO1	To appraise the meaning and concept of management and event planning, facility management
		CO2	To describe organization and administration of sports programmers
		CO3	To analyze and interpret sports philosophy, sports sociology, business systems, sports management, public administration and marketing techniques.
		CO4	To develop opportunities to construct & design the curriculum of PE in broader aspects realizing the age group, gender consideration and physiological basis.
RLS4B3	Managerial accounting for sports leisure and recreation	CO1	To understand the concept of accounting
		CO2	To describe various techniques and methods of maintain the accounts
		CO3	To understand budgets preparation.
RLS4B4	Research method in physical activity & recreation	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.
RLS4B5	Teaching methodology and practice	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.
SEMESTER 5			
RLS5B1	Kinesiology	CO1	Explain the basic mechanical concepts and will be able to interpret its relation to human body movements
		CO2	Apply and analyze the factors of mechanical laws involved in human movement.
		CO3	Analyze the mechanical principles of motor skills and sports related skills along with their proper techniques and corrective measures.
		CO4	Explain the principles of movement analysis

SEMESTER 6			
RLS6B1	Therapeutic recreation and adapted physical education	CO1	Be able to use recreation and leisure interventions to improve clients' physical, intellectual and emotional health.
		CO2	Be able to teach people the skills, knowledge and attitudes necessary to become more independent in their recreation and leisure.
		CO3	Be able to provide people with limiting conditions opportunities to engage in organized recreation and leisure.
RLS6B2	Applied psychology of sports learning and performance	CO1	Correlate the psychological concepts with the sports and athlete specific situations.
		CO2	Integrate the knowledge about personality, motor learning for behavior modification of athletes
		CO3	Relate different theories of motor learning with its influence on motor perception and related cognitive abilities of athletes
		CO4	List down the strategies for motivation utilized in the field of sports.

Name of the Programme : BCom (Finance and Taxation)			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
CM01B AA01	Business Statistics	CO1	To Provide basic knowledge of statistical techniques as are applicable to business.
		CO2	To Enable the students to apply statistical techniques for quantification of data in business.
		CO3	To introduce modern data analysis tools to students
CM01B AA02	Modern Banking	CO1	Provide basic knowledge of banking.
		CO2	Familiarize the students with the changing scenario of Indian banking
		CO3	To equip the students with knowledge in practical banking
CM01B AA03	Business Regulatory Frame work	CO1	To familiarize the students with the legal frame work 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
SEMESTER 2			
CM02B AA01	Quantitative Techniques for Business Research	CO1	To impart basic knowledge of research
		CO2	To enable the students to apply the simple statistical tools in business research
		CO3	To introduce modern data analysis tools to students
CM02B AA02	Principles of Insurance	CO1	To make the students explore with the fundamental principles of insurance
		CO2	To impart knowledge on practice of insurance business
		CO3	To familiarize the students with knowledge on different types of insurance and various insurance schemes

CM02B AA03	Corporate Regulations & Governance	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 corporate governance practices and their way of implementation in India
SEMESTER 3			
CM03B AA01	Marketing Management	CO1	Familiarize the students about the different marketing Concepts.
		CO2	Students are equipped with modern marketing strategies used in the present business world.
		CO3	Students are understood about different pricing strategies in the marketing segment.
		CO4	Students are able to identify different marketing strategies form the popular companies.
CM03B AA02	Financial Accounting	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.
CM03B AA03	E-Commerce & General Informatics	CO1	Developed a culture of Electronic commerce in student community.
		CO2	Students are able to use different E-Commerce strategies for their daily life.
		CO3	Students are very clear about different legal aspects of electronic business in India.
		CO4	Students are able to satisfy their needs by applying ecommerce techniques.
CM03B AA04	Business Management	CO1	familiarized the students with concepts and principles of management
		CO2	Introduced various management techniques for meeting the modern business needs.
		CO3	To Students are familiarized with various management practices.
SEMESTER 4			
CM04B AA01	Capital Market	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.

CM04B AA02	Corporate Accounting	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	Students are able to handle the accounting procedure of the insurance company and its clients while raising claims.
CM04B AA03	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.
SEMESTER 5			
CM05B AA01	Cost Accounting	CO1	Familiarise the students with cost concepts
		CO2	Make the students learn the fundamentals of cost accounting as a separate system of accounting.
		CO3	Acquaint students with recent trends in cost accounting and management
CM05BA A02	Special Accounting	CO1	Acquaint the students with advanced accounting principles and procedures.
		CO2	Providing an in depth understanding about accounts of Banking and Insurance companies
		CO3	Familiarise students with investment accounts and insurance claims
CM05CA A01	Advertising and Sales Promotion	CO1	Make the students aware of the strategy, concept and methods of advertising and sales promotion.
		CO2	Make students aware of Social, economic and legal aspects of advertisement
		CO3	Equip students practically to create print and video ads.
SEMESTER 6			
CM06BA A01	Applied Cost Accounting	CO1	Acquaint the students with different methods and techniques of applied costing.
		CO2	Enable the students to identify the methods and techniques applicable for different types of industries
		CO3	Enable the students to prepare cash budgets.
CM06B AA02	Practical Auditing	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	Acquaint students with recent trends and developments in auditing.
CM06B AA03	Accounting for Managerial Decisions	CO1	Equip the students to analyse and interpret financial statements.
		CO2	Enable the students to have a thorough knowledge on the management accounting techniques in business decision making.

		CO3	Make students aware of the concept responsibility accounting
CM06C AA01	Principles of Business Decisions	CO1	Familiarise the students with the economic principles and theories underlying various business decisions.
		CO2	Equip the students to apply the economic theories in different business situations.
		CO3	Familiarise students with demand, production and cost analysis.

Name of the Programme: BCA			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
CS01BA C09	Introduction to Computers	CO1	Bridge the fundamental concepts of computers with the present level of knowledge of the students.
		CO2	Familiarize operating systems, programming languages, peripheral devices, networking, multimedia and internet
		CO3	Students would be able to understand the fundamental hardware components that make up a computer's hardware and the role of each of these components
		CO4	Students would be able to understand identify basic requirements for a design application and propose a cost effective solution.
CS01BB A01	Methodology of Programming and Programming in C	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.
CS01BB AC11	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			
CS01BB AC08	Accounting and Programming in Cobol	CO1	Students should able to identify the four COBOL program divisions and describe their purpose
		CO2	Students should able to construct conditions to execute procedures within a COBOL program
		CO3	Students should able to develop accounting related programs using COBOL
		CO4	Students should able to use COBOL features to accept keyboard input and display screen output

CS01BB AC09	Data Structures	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
CS01BB AC10	Fundamentals of digital Systems	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.
CS02BB AC11	Software Lab II	CO1	Students should able Compile, test, and debug COBOL programs
		CO2	Students should able to Define data elements used in a COBOL program.
		CO3	Students should able to do programs to demonstrate the implementation of various operations on stack and queue.
		CO4	Students should able to do programs to demonstrate fundamental algorithmic problems including Tree Traversals, Graph traversals, and shortest paths.
SEMESTER 3			
CS03BB AC10	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.
CS03BB AC11	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
CS03BB AC12	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
CS03BB AC13	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
CS03BB AC14	Software Lab III	CO1	Students should able to implement basic programs based on constructors
		CO2	Students should able to do programs based on function overloading
		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 4			
CS04BB AC03	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
CS04BB AC04	System analysis & Design	CO1	Students should able understand the life cycle of a systems development project;
		CO2	Students should able to understand the analysis and development techniques required as a team member of a medium-scale information systems development project.
		CO3	Students should able to experience in developing information systems models;
		CO4	Students should able to able to understand the object-oriented method models as covered by the Unified Modeling Language.
CS04BB AC05	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.
CS04BB AC06	Visual Programming Techniques.	CO1	Students should able to list the visual programming concepts.
		CO2	Students should able to express constants and arithmetic operations.
		CO3	Students should able to code visual programs by using Visual Basic work environment.
		CO4	Students should able to distinguish and compose events and methods
CS04BB AC07	Software Lab IV	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	Use a modern IDE to visually and programmatically create programs with GUI's.
SEMESTER 5			
CS05BA 901	0	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.
CS05BA 902	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
CS05BA C03	Java Programming	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
CS05BA C21	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
CS05BA C19	Software Development Lab1	CO1	Students should able to identify the requirements for the real world problems.
		CO2	Students should 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			
CS06BB A901	Web Technology	CO1	Students should able to ddevelop a dynamic webpage by the use of java script and DHTML.
		CO2	Students should able to write a well formed / valid XML document.
		CO3	Students should able to students will be able to write a server side java application called Servlet to catch form data sent from client, process it and store it on database.
		CO4	Students should able to write a server side java application called JSP to catch form data sent from client and store it on database.
CS06BA 902	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

CS06BB A902	Linux Operating System	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 to learn the important Linux library functions and system calls
CS06BA 903	Software Lab VI & Seminar	CO1	Students should able to apply essential Web Programming concepts.
		CO2	Students should able to develop Web applications using java scripts
		CO3	Students should able to develop various web applications related to layouts & uses interactive interfaces
		CO4	Students should able to understand and discuss current, real-world issues
CS06BA 904	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

Name of the Programme: **B Com (Computer Applications)**

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
CM01B A901	Perspectives & Methodology of Business Studies	CO1	Explain how the environment affects the working of the business.
		CO2	Explain how the government policies have transformed business in India.
		CO3	Justify the importance of doing business ethically.
		CO4	Elaborate the application of technology in business.
CM01CR 002	Business Regulatory Framework	CO1	Develop an understanding regarding the administration and management of corporate form of business.
		CO2	Familiarity with Corporate Laws especially Indian Companies Act 2013.
		CO3	Ability to explain the role of management especially with regard to Corporate Governance and Corporate Social Responsibility.
CM01CR 001	Business Statistics	CO1	Students will have basic knowledge of statistical techniques that are applicable to business.
		CO2	Enhance the students to know the statistical tools to be used
		CO3	Equipping students to apply statistical techniques for quantification of data in business

SEMESTER 2			
CM02B AA03	Corporate Regulations & Governance	CO1	Develop an idea about the legal framework influencing business decisions
		CO2	Apply the provisions of business laws in business activities
		CO3	Explain the provisions relating to governance in Indian Corporate Sector
CM02B A901	Business Communication & Management Information System	CO1	Students are familiarised on the importance of communication in business.
		CO2	Students are enabled to understand the methods of communication relevant to various business situations
		CO3	Students shall assess the strengths, weaknesses, opportunities and threats of the business environment.
SEMESTER 3			
CM03B AA02	Financial Accounting	CO1	Develop an understanding of the financial accounting procedures.
		CO2	Students are familiarised with the accounting principles and practices of various types of business other than companies.
		CO3	Practically prepare the royalty accounts and consignment accounts
CM03B AA04	Business Management	CO1	Develop analytical skills in students for implementing the functions of management.
		CO2	Students are enabled to apply management techniques in real situations.
		CO3	Students shall assess the strengths, weaknesses, opportunities and treats of the business environment.
CM03B AA01	Marketing Management	CO1	Formulate a marketing plan including marketing objectives, marketing mix and marketing strategies.
		CO2	Develop pricing strategies that takes into account perceived value, competitive pressures and corporate objectives.
		CO3	Determine strategies and methods for developing new products and services that are consistent with evolving market needs.
		CO4	Write a business plan for an entrepreneurial start-up venture with the help of marketing tools.
CM03B AA03	E-Commerce and General Informatics	CO1	Students shall acquire knowledge on the relevance of technology in business
		CO2	Students are familiarised with the mechanism of conducting business transactions through electronic media
		CO3	Students shall enhance their entrepreneurial skills with the help of informatics tools.
SEMESTER 4			
CM04B AA01	Capital Market	CO1	Students shall have an overall idea about the operation of a capital market
		CO2	Apply knowledge of capital and money market in conducting stock trading activities
		CO3	Fundamental understanding about the various financial instruments

CM04B AA02	Corporate Accounting	CO1	Understand the regulatory environment in which the companies are formed and operate.
		CO2	Have a solid foundation in accounting and reporting requirements of the Companies Act and relevant Indian Accounting Standards.
		CO3	Understand the treatment regarding issue of bonus shares and treatment of prior period profits, accounting for mergers and amalgamations.
		CO4	Value goodwill and shares under various methods.
CM04B AA03	Financial Services	CO1	Students have an overall idea of financial services available in the country.
		CO2	Students will have an understanding about recent trends in financial services sector.
		CO3	Students can practically offer various financial and related services
CM04B A901	Entrepreneur ship Development and Project Management	CO1	Develop entrepreneurial spirit among students.
		CO2	Students are empowered with sufficient knowledge to start up their venture with confidence.
		CO3	Students are able to take up challenges and become employers and provide support for entrepreneurship in India
SEMESTER 5			
CM05B AA01	Cost Accounting-I	CO1	Explain traditional and contemporary approaches to cost allocation.
		CO2	Express the place and role of cost accounting in the modern economic environment.
		CO3	Differentiate the methods of calculating stock consumption and interpret the impact of the selected costs method.
CM05CR 001	Special Accounting	CO1	Understand the regulatory environment in which the companies are formed and operate.
		CO2	Practically prepare the claim forms for fire insurance and other insurance contract.
		CO3	Prepare Company final accounts including Balance Sheet as per the provisions of Companies Act 2013
CM05C AA01	Advertiseme nt and Sales Promotion	CO1	Students are exposed to the theoretical and practical aspects of advertising and sales management
		CO2	Students are able to have fundamental understanding of how to build, measure and manage a brand.
		CO3	Students will be able to develop analytical skills useful in planning and evaluating advertising campaigns.
SEMESTER 6			
CM06B AA01	Applied Cost Accounting	CO1	Enhance cost aspects in detail
		CO2	Students are exposed to various cost methods
		CO3	Make them to analyze cost centers and profit centers
CM06B AA02	Practical Auditing	CO1	Students become more familiar with the principles and procedures of Auditing.
		CO2	Develop an understanding about the duties and responsibilities of auditors and to undertake the work of auditing.
		CO3	Familiarity with auditing in computerised environment.

CM06B AA03	Accounting for Managerial Decisions	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.

OPEN COURSES
(Offered During Semester 5)

Name of the Department	Course Code	Course Title	Course Outcomes	
English	ENOG3	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	ML5D01U	Pathra Pravarthanam	CO1	Introducing basics of journalism
			CO2	Familiarizing new trends in journalism
Economics	EC5D02U	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	PS5D_UG	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	HYOP01	Social Implications of the 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	EN5CROPG03	English for Careers	CO1	On completion of the course, the students should be able to develop communicative skills, which will enable them to prepare for a career and function effectively in it.
			CO2	To make the students competent in their job-seeking, job-getting and job-holding needs. The course shall cater to equipping the students in Comprehensive Language Enhancement.
			CO3	To equip them in oral and written communication and to enhance their academic and professional use of language.
Mathematics	MM5D02	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	PH5D01U	Energy and Environmental studies	CO1	Study the various types of energy resources and their conservation.
			CO2	Explain the basic principles of ecosystem and identify the environmental problems.
			CO3	Impart theoretical and practical skills that underpins the various aspects of environmental Science.
Chemistry	CH5D01	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	BO5D01U	Ecotourism	CO1	Make the students to opt various ecotourism programs.
			CO2	Make the students to opt self-employment streams.
			CO3	To make the students aware of the usefulness of ecotourism
			CO4	Help the students aware of the conservation of natural resources.
Zoology	ZY5D03U	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
Commerce (Finance & Taxation)	CM05D AA01	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)	CA50P T	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.
Computer Science	CS05D AP01	Internet, Web Designing and Cyber Laws	CO1	Students are equipped to meet the Computer requirements in a better way
			CO2	Assisting students to be expert 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	ENOF2	Regional Literatures in Translation	CO1	To introduce to a selection of regional literatures translated into English.
			CO2	To make them understand much discussed writers/literary pieces in the vernaculars
BA Malayalam; Semester 6	ML6B0 5U - CBCS	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	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.
BA Political Science; Semester 6	PS6B15 UG	Introduction to Public Policy Analysis	CO1	Understanding policy analysis permits students to actualize solutions to practical problems which are brought to the agenda of government. These may be our own problems, those of our community, our profession, or problems to which we feel a special commitment.
			CO2	Knowing how public policy works can improve our ability to deal with these issues.
BSc Mathematics; Semester 6	MM6D05	Topology	CO1	Introduce topological spaces
			CO2	Introduce product topology and subspace topology
			CO3	Study compactness and connectedness in topological spaces
BSc Physics; Semester 6	PH6B05	Nano-science and Nanotechnology	CO1	Acquire an understanding of various Nanostructures and their applications.
			CO2	Understand the synthesis of nanomaterials, their application and the impact on environment.
			CO3	Analyse the principles behind various fabrication and Characterization Techniques of nanomaterials.
BSc Chemistry; Semester 6	CH6B06	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	BO6B13U	Plant genetic resource management	CO1	Acquaint the students with history and evolution of crop plants and its diversity.
			CO2	Familiarize the students with the available plant genetic wealth.
			CO3	Help the students to identify the crop plants and their wild relatives.
			CO4	To understand the significance of modern technology to locate the endangered species.
BSc Zoology; Semester 6	ZY6B15 U	Economic Zoology (Elective)	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	CM03B BA01	Financial Management	CO1	Familiarized 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	Familiarized students with the various techniques of investment decisions.
BCom (Finance & Taxation) ; Semester 4	CM04	Value added 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.
			CO4	Making the students to practice GST concepts in real life situations.
BCom (Finance & Taxation) ; Semester 5	CM05B BA01	Income tax- Law and practice	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 Residential Status and Incidence of tax of a person according to the Income Tax Act 1961
			CO3	Equip students to determine the taxable salary of various categories of assessee
			CO4	Make the students aware of latest rates of taxes and amendments in the latest Finance Act.
BCom (Finance & Taxation) ; Semester 6	CM06B BA01	Income tax- Assessment and procedure	CO1	Enable students to understand determination of Total Income and tax payable and to get an overview regarding returns to be filed by an individual.
			CO2	Make the students aware of assessment procedure.
			CO3	Familiarise students with procedure of preparation and submission of returns.
			CO4	Familiarise students with e-filing and ITR forms.
BCom (Computer Applications); Semester 3	CM03B BA02	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	CM04B BA02	Information Technology 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	CM05C R002	Computer-ized 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	CM06B BA02	Database Management System for Business	CO1	Enhance students for business oriented activities
			CO2	Familiarize students with database management concepts
			CO3	Making students equipped for handling database management system for business firms

COMPLEMENTARY COURSES

Name of the Programme: BA English Literature

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
PS1C01 UG	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			
PS2C02 UG	Governmental Machinery and Processes	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			
ENCY1	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			
ENCY2	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			
ML1C01 U	Methodology in Malayalam Literature	CO1	Familiarize the new methodology in malayalam literature
		CO2	Familiarizing different methodologies
ML1C02 U	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	Reeti Sastram	CO1	Introduce Methodology
		CO2	Making awareness of Methodology
SEMESTER 3			
ML3C01 U	Keralathinte Vinjanika parampariam	CO1	Romanticism through Madhavikutty- A Feminine Writer
ML3C02 U	Sanskrit-1	CO1	Introducing Basics of Sanskrit and Grammar
SEMESTER 4			
ML4C01 U	Oru Sahithyakaran/Sahithyakari	CO1	Identifying Feminine writer -Madhavikutty
		CO2	Identify the pros and cons of new Malayalam Feminine writings
ML3C02 U	Sanskrit-2	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 understand 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
SEMESTER 3			
PS3C03 UG	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			
PS4C04 UG	Governmental Machinery and Processes	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			
EC2C02	Basic economic studies	CO1	It intends to make the students equipped with essential understanding of the basic economic issues.
		CO2	This course addresses issues like problems 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	The Students also get acquainted with policy formulations and applications.
SEMESTER 3			
PS3C03 UG	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			
PS4C04 UG	Governmental Machinery and Processes	CO1	The course helps to develop among students the ability to comprehend contemporary politics as a relationship between institutional structures and historically constituted political processes.
		CO2	Integral to the course is the understanding that ideas of democracy, freedom and corresponding social political and institutional practices shaped the discipline in a more meaningful way.

Name of the Programme: BA Political Science			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
HYCP03	Social Formation in pre modern India	CO1	Students will be able to examine institutional basis of Ancient India.
		CO2	Students will be able to illustrate the development of empire.
		CO3	Understand the salient features of Indus valley civilization.
SEMESTER 2			
HYCP02	Transition to the Contemporary World	CO1	Students understand 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
SEMESTER 3			
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 4			
EC2C02	Basic economic studies	CO1	It intends to make the students equipped with essential understanding of the basic economic issues.
		CO2	This course addresses issues like problems 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	The Students also get acquainted with policy formulations and applications.

Name of the Programme: BA English Language and Communication Studies			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
SO01CA 901	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			
SO02CA 901	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			
EN03CA 901	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			
EN04CA 901	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	Basic 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.
MT1C01 U	Properties of Matter, Mechanics and Fourier Analysis	CO1	Assess the contributions of physics to our evolving understanding of global change and sustainability.
		CO2	Develop knowledge and understanding on the mechanical properties of different states of matter.
		CO3	Familiarize the techniques of Fourier analysis and its applications in Physics.
SEMESTER 2			
ST2CM T02	Theory of random variables	CO1	Basic knowledge in random variables
		CO2	Problem solving skill
		CO3	Methods to expectations and point distributions
MT2C01 U	Electric and Magnetic phenomena, thermodynamics and special theory of relativity	CO1	Describe electric and magnetic fields using the vector operators and deal with properties of induced polarisation and magnetisation in materials, induction effects, and finally Maxwell's equations and electromagnetic radiation.
		CO2	Develop knowledge of the thermal properties of matter and the various temperature scales.
		CO3	Explain the relativistic effect on various physical phenomena.
SEMESTER 3			
ST2CM 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
MT3C01 U	Quantum Mechanics, spectroscopy, Nuclear Physics, basic electronics and Digital Electronics	CO1	Account for the emergence and development of quantum concepts in Physics.
		CO2	Describe the bases behind interaction between light and matter and account for the most common spectroscopic methods, their possibilities and limitations for studies of molecules in the IR, UV and Raman spectroscopy.
		CO3	Achieve basic ideas on various electronic components and digital circuits.
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
MT4C01 U	Physical optics, Laser physics and Astrophysics	CO1	Explain the propagation of light in various media on the basis of wave mechanics.
		CO2	Present various aspects of the foundations, design, operation and application of lasers.
		CO3	Understand the laws and physical processes that govern the universe, its constituents, their origins and evolution

Name of the Programme: BSc Physics

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
MP1C01	Differential calculus and trigonometry	CO1	To study topics in differential calculus
		CO2	Study applications of derivatives
		CO3	Introduce partial derivatives
		CO4	To introduce advanced lessons in trigonometry
CH1C01	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			
MP2C01	Integral calculus and matrices	CO1	Use integral calculus to find area and volume of various geometrical objects.
		CO2	Master the concepts of double integrals and triple integrals
		CO3	To introduce the theory of matrices
CH2C01	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.
CH2C02	Volumetric Analysis	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			
MP3C01	Vector calculus, differential equations and analytic geometry	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	To introduce ordinary differential equations
CH3C01	Advanced 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			
MP4C01	Fourier series, differential equations, numerical analysis, and abstract algebra	CO1	Learn Fourier series and Legendre Polynomials
		CO2	To introduce partial differential equations
		CO3	Study elementary numerical techniques
		CO4	To introduce abstract algebra topics such as groups, rings and fields.
CH4C01	Advanced 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			
CH1C01	Properties of Matter, Mechanics and Particle Physics	CO1	Assess the contributions of physics to our evolving understanding of global change and sustainability.
		CO2	Develop knowledge and understanding on the mechanical properties of different states of matter.
		CO3	Familiarize elementary particles, their classifications and interactions.
MP1C01	Differential calculus and trigonometry	CO1	To study topics in differential calculus
		CO2	Study applications of derivatives
		CO3	Introduce partial derivatives
		CO4	To introduce advanced lessons in trigonometry
SEMESTER 2			
CH2C01	Electric and Magnetic phenomena, thermodynamics and Elementary solid state Physics	CO1	Describe electricity and magnetism using induced polarisation and magnetisation in materials, induction effects, and finally Maxwell's equations and electromagnetic radiation.
		CO2	Develop knowledge of the thermal properties of matter and the various temperature scales.
		CO3	Study the conduction mechanism in solids
		CO4	Learn the structure property relationship in solid state materials.
MP2C01	Integral calculus and matrices	CO1	Use integral calculus to find area and volume of various geometrical objects.
		CO2	Master the concepts of double integrals and triple integrals
		CO3	To introduce the theory of matrices

SEMESTER 3			
CH3C01	Quantum Mechanics, spectroscopy, Nuclear Physics and Electronics	CO1	Account for the emergence and development of quantum concepts in Physics.
		CO2	Describe the bases behind interaction between light and matter and account for the most common spectroscopic methods, their possibilities and limitations for studies of molecules in the IR, UV and Raman spectroscopy.
		CO3	Achieve basic ideas on various electronic components and circuits.
MP3C01	Vector calculus, differential equations and analytic geometry	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	To introduce ordinary differential equations
SEMESTER 4			
CH4C01	Physical optics, laser physics and Superconductivity	CO1	Explain the propagation of light in various media on the basis of wave mechanics.
		CO2	Present various aspects of the foundations, design, operation and application of lasers.
		CO3	Understand the basic properties of superconductors and their applications
MP4C01	Fourier series, differential equations, numerical analysis, and abstract algebra	CO1	Learn Fourier series and Legendre Polynomials
		CO2	To introduce partial differential equations
		CO3	Study elementary numerical techniques
		CO4	To introduce abstract algebra topics such as groups, rings and fields.

Name of the Programme: BSc Botany			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
ZY1C01 U	Animal Diversity – Non-Chordata	CO1	To learn the physiological and anatomical peculiarities of some invertebrate phyla through type study.
		CO2	To learn the unity of life with rich diversity of organisms & evolutionary significance of certain invertebrate fauna
CH1C01	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.

BC1CM T01	Elementary Biochemistry	CO1	Understand basic principle of different types of chemical interactions in biological systems,
		CO2	Understand the basics of membrane biochemistry
		CO3	Have a good understanding of the basics of plant biochemistry
		CO4	Have a basic understanding of biochemical separation techniques
SEMESTER 2			
ZY2C02 U	Animal Diversity – Chordata	CO1	Students will become aware of the economic importance of some chordates.
		CO2	Students will learn the physiological and anatomical peculiarities of some vertebrate species through type study.
		CO3	Helps to stimulate the students' curiosity in vertebrates living associated with them.
CH2C01	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.
CH2C02	Volumetric Analysis	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
BC2CMT 02	Biomolecules	CO1	Describe structural characteristics of simple organic biomolecules
		CO2	Describe their biologically important derivatives indicating the constituent units, linkage between them.
BC2CM P01	Practical- Biomolecules	CO1	Develop the qualitative skills
		CO2	Have a sound knowledge on basic protocols for identification of biomolecules
SEMESTER 3			
ZY3C03 U	Human Physiology and Immunology	CO1	Helps to make the student aware of the health related problems, their origin and treatment.
		CO2	Students will understand how efficiently our immune system work in our body.
		CO3	Help students to acquire knowledge about preventing common diseases rather than curing.
CH3C01	Advanced Inorganic and Organic Chemistry	CO1	Develops an interest in various branches of organic chemistry.
		CO2	Basic understanding of nuclear chemistry and heterocyclic compounds
BC3CMT 03	Enzymology and Metabolism	CO1	Understand the basics of enzyme catalysis
		CO2	Explain the major pathways of carbohydrate, protein and lipid metabolism
SEMESTER 4			
ZY4C04 U	Applied Zoology	CO1	Students will understand the technology for utilising ecofriendly organisms around them for beneficial purpose.
		CO2	Students will be equipped with self employment opportunities with scientific knowledge to perform profitably & confidently.
CH4C01	Advanced Bio-organic Chemistry	CO1	This part of the curriculum deals with biological aspects of chemistry, which help students to understand medicinal chemistry, useful in daily life
		CO2	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
BC4CMT 04	Nutritional and Clinical Biochemistry	CO1	Explain and schematize the nutritional and biological importance of vitamins and minerals.
		CO2	Explain the clinical significance of organ based function tests
		CO3	Describe the biochemical basis of some important metabolic disorders.
BC4CMP 04	Practical- Nutritional and Clinical Biochemistry	CO1	Familiarize with the protocols of quantitative analysis of biomolecules using colorimetric technique.
		CO2	Familiarize with qualitative analysis of body fluids.

Name of the Programme: BSc Zoology			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
BO1C01 U	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.
CH1C01	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.
BC1CM T01	Elementary Biochemistry	CO1	Understand basic principle of different types of chemical interactions in biological systems,
		CO2	Understand the basics of membrane biochemistry
		CO3	Have a good understanding of the basics of plant biochemistry
		CO4	Have a basic understanding of biochemical separation techniques
SEMESTER 2			
BO2C02 U	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.
CH2C01	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.
CH2C02	Volumetric Analysis	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
BC2CMT 02	Biomolecules	CO1	Describe structural characteristics of simple organic biomolecules
		CO2	Describe their biologically important derivatives indicating the constituent units, linkage between them.
BC2CM P01	Practical- Biomolecules	CO1	Develop the qualitative skills
		CO2	Have a sound knowledge on basic protocols for identification of biomolecules
SEMESTER 3			
BO3C03 U	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
CH3C01	Advanced Inorganic and Organic Chemistry	CO1	Develops an interest in various branches of organic chemistry.
		CO2	Basic understanding of nuclear chemistry and heterocyclic compounds
BC3CMT 03	Enzymology and Metabolism	CO1	Understand the basics of enzyme catalysis
		CO2	Explain the major pathways of carbohydrate, protein and lipid metabolism
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.
CH4C01	Advanced Bio-organic Chemistry	CO1	This part of the curriculum deals with biological aspects of chemistry, which help students to understand medicinal chemistry, useful in daily life
		CO2	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
BC4CMT 04	Nutritional and Clinical Biochemistry	CO1	Explain and schematize the nutritional and biological importance of vitamins and minerals.
		CO2	Explain the clinical significance of organ based function tests
		CO3	Describe the biochemical basis of some important metabolic disorders.
BC4CMP 04	Practical- Nutritional and Clinical Biochemistry	CO1	Familiarize with the protocols of quantitative analysis of biomolecules using colorimetric technique.
		CO2	Familiarize with qualitative analysis of body fluids.

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

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
RLS1C1	Use of information & communication technology	CO1	To impart the concepts of ICT & Education Technology in Physical Education and sports.
		CO2	To develop understanding about various concepts of computer fundamentals and applying technology in teaching learning situation.
SEMESTER 2			
RLS2B3	Sports massage technique	CO1	To understand the concept of massage in sports
		CO2	To acquire the skills required for Spa Therapy
SEMESTER 3			
RLS3C1	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 5			
RLS5C1	Sports physiotherapy	CO1	An advanced understanding of the recent knowledge base in areas of sports physiotherapy.
		CO2	Advanced clinical skills and techniques applicable to relevant physiotherapy areas, including assessment techniques, clinical reasoning and decision-making skills in developing treatment plans and comprehensive patient management in sports.
		CO3	A capacity to undertake detailed searching, analysis and interpretation of computerised medical literature databases.
		CO4	An ability to promote evidence-based practice in sports physiotherapy.
RLS5C2	Advertising and public relation	CO1	Be aware of and comply with law and regulations in the field of public relations, advertising, brand communication, marketing communication, persuasive communication, communication management, and corporate communications
		CO2	Approach the dynamics of the field with an integrated perspective
		CO3	Explain main concepts and the relationships of these concepts
		CO4	Be informed of, both practically and conceptually, in the field of public relations, advertising,

RLS5C3	Disaster management	CO1	Understanding foundations of hazards, disasters and associated natural/social phenomena.
		CO2	Familiarity with disaster management theory (cycle, phases)
		CO3	Methods of community involvement as an essential part of successful DRR.
SEMESTER 6			
RLS6B3	Sports Recreation & leisure Law & risk management	CO1	The learner will be able to Understand health and safety requirements of employees in sport and active leisure.
		CO2	Understand risks and hazards in sport and active leisure.
		CO3	Understand how to respond to accidents, incidents and emergencies in sport and leisure

Name of the Programme: BCom (Common to BCom with Finance & Taxation and BCom with Computer Applications)

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
CM01BA 901	Perspectives 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
SEMESTER 2			
CM02BA 901	Business Communication and Management Information System	CO1	To familiarize the importance of communication in business
		CO2	To enable the students to use apt form of communication relevant to various business situations
		CO3	To build up communication skill among the students

Name of the Programme: BCA

Course Code	Course Title	Course Outcomes	
SEMESTER 1			
MT01C AC01	Mathematics	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.

ST01CA C01	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			
MT04C A903	Discrete Mathematics	CO1	Students should able to understand the basics of discrete probability and number theory, and be able to apply the methods from these subjects in problem solving.
		CO2	Students should able to use effectively algebraic techniques to analyze basic discrete structures and algorithms.
		CO3	Students should able to understand some basic properties of graphs and related discrete structures, and be able to relate these to practical examples.
		CO4	Students should able to understand asymptotic notation, its significance, and be able to use it to analyze asymptotic performance for some basic algorithmic examples.
SEMESTER 3			
ST03CA C01	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			
MT04C AC01	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	Communicati on Skills in English	CO1	To introduce the students to the speech sounds of English in order to enable them to listen to English and speak with global intelligibility.
		CO2	To enable the students to speak English confidently and effectively in a wide variety of situations.
		CO3	To help the students to improve their reading efficiency by refining their reading strategies.
FPR1G1T	Basic Principles Of Food Processing	CO1	To provide a basic sequence of steps to produce an acceptable and quality food product from raw materials.
		CO2	Study of scientific and technological advancements in food processing.
EES1G1T	Renewable Energy Sources	CO1	To explain concept of various forms of renewable energy
		CO2	To outline division aspects and utilization of renewable energy sources for both domestics and industrial applications
		CO3	To get an idea of Indian energy sector
SEMESTER 2			
ENCN2	Critical Thinking, Academic Writing and Presentation	CO1	To make the students aware of the fundamental concepts of critical reasoning and to enable them to read and respond critically, drawing conclusions, generalizing, differentiating fact from opinion and creating their own arguments.
		CO2	To assist the students in developing appropriate and impressive writing styles for various contexts.
		CO3	To help students rectify structural imperfections and to edit what they have written.
		CO4	To equip students for making academic presentations effectively and impressively.
FPR2G1T	Fruit And Vegetable Processing Technology	CO1	To provide a basic understanding of processing of fruits.
		CO2	To provide a basic understanding of processing of vegetables.

FPR2G1P	Fruit And Vegetable Processing Technology-Practical	CO1	To familiarize the students with processing of vegetables
		CO2	To familiarize the students with processing of fruits
EES2G1T	Introductory Environmental Studies	CO1	To create awareness about the importance of environment, its ecological balance and make him/her sensitive to the environment issues in every endeavor that he/she participates.
		CO2	To create awareness about ecological balance and make him/her sensitive to the environment issues in every endeavour that he/she participates.
SEMESTER 3			
FPR3G1T	Cereals and Pulses Processing Technology	CO1	To give a general outline about the principles, structure and composition, economic importance of different cereals, pulses and their products.
		CO2	To give a general outline about the different cereals, pulses and their products.
FPR3G1P	Cereals and Pulses Processing of Cereal Products	CO1	To give a general outline of the processing of different cereals, pulses and their products.
EES3G1T	Environmental Impact Assessment	CO1	To have an assessment of the impacts of manmade activities on the environment.
		CO2	To have an understanding of the possible remedies in this regard.
SEMESTER 4			
FPR4G1T	Fats and Oil Processing Technology	CO1	To give a general outline about the principles, structure and composition, economic importance
		CO2	To give a general outline about the storage and processing of fats and oils and their products.
FPR4G1P	Fat Analysis-Practical	CO1	To give foundation to fat analysis.
EES4G1T	Energy and Environment Management	CO1	To understand the methodology of energy management.
		CO2	To understand the methodology of environment management.
		CO3	To understand energy and environment audit.
SEMESTER 5			
SAG5G1T	Principles of Agribusiness Management	CO1	To familiarise with the fundamentals of information and communication management.
		CO2	To understand entrepreneurship strategies.
SAG5G2T	Tissue Culture	CO1	To get practiced with various aspects of tissue culture.
		CO2	To learn applications of tissue culture in crop improvement.
SAG5G2P	Tissue Culture-Practical	CO1	To understand about Plant Tissue Culture
		CO2	To Preparation and sterilization of media
FPT5G3T	Eco-Tourism	CO1	Make the students to opt various ecotourism programmes as a self employment stream

		CO2	Make the students to aware about the usefulness of ecotourism in the conservation of natural resources.
		CO3	Help the students to assess various ecotourism programmes.
SEMESTER 6			
SAG6G1T	Government Policies and Programmes related to agriculture	CO1	To acquaint with various Government Policies related to Agriculture in Kerala and India.
		CO2	To familiarise with five year plans and Panchayathiraj system in India.
SAG6G2T	Computer Hardware and Networking	CO1	Understand the hardware components of a system.
		CO2	Understand basic issues in installing and using software.
		CO3	Understand how a network functions and the issues of network security.

Name of the Programme: BVoc Food Processing Technology			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
ENCN1	Communication Skills in English	CO1	To introduce the students to the speech sounds of English in order to enable them to listen to English and speak with global intelligibility
		CO2	To enable the students to speak English confidently and effectively in a wide variety of situations.
		CO3	To help the students to improve their reading efficiency by refining their reading strategies
HORIG1T	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
HORIG1P	Fundamentals of Horticulture -Practical	CO1	To develop skill in propagation and cultivation aspects of horticultural crop
EES1G1T	Renewable Energy Sources	CO1	To explain concept of various forms of renewable energy.
		CO2	To outline division aspects and utilization of renewable energy sources for both domestics and industrial applications
SEMESTER 2			
ENCN2	Critical Thinking, Academic Writing and Presentation	CO1	To make the students aware of the fundamental concepts of critical reasoning and to enable them to read and respond critically, drawing conclusions, generalizing, differentiating fact from opinion and creating their own arguments.
		CO2	To assist the students in developing appropriate and impressive writing styles for various contexts

		CO3	To help students rectify structural imperfections and to edit what they have written.
		CO4	To equip students for making academic presentations effectively and impressively.
HOR2G1T	Plantation Crops, Spices and Fruits	CO1	To acquaint with the cultivation aspects of Plantation crops, spices and fruit crops.
HOR2G1P	Plantation Crops, Spices and Fruits- Practical	CO1	To acquire skill on cultivation aspects of Plantation crops, spices and fruit crops
EES2G1T	Introductory Environmental Studies	CO1	To create awareness about the importance of environment, its ecological balance and make him/her sensitive to the environment issues in every endeavour that he/she participates.
SEMESTER 3			
HOR3G1T	Protected cultivation of Horticultural crops	CO1	To familiarize with protected cultivation structures and cultivation practices.
HOR3G1P	Protected cultivation of Horticultural crops- Practical	CO1	To practice with protected cultivation practices of important crops.
EES3G1T	Environmental Impact Assessment	CO1	To have an assessment of the impacts of manmade activities on the environment.
SEMESTER 4			
HOR4G1T	Landscape designing and indoor gardening	CO1	To get awareness on designing and laying out of a landscape
HOR4G1P	Landscape designing and indoor gardening- Practical	CO1	To develop skill in planning and planting of garden lawn.
		CO2	To develop skill in preparation of different types of gardens.
EES4G1T	Energy And Environment Management	CO1	To understand the methodology of energy management.
		CO2	To understand the methodology of environment management.
		CO3	To understand energy and environment audit.
SEMESTER 5			
FPT5G1T	Sensory Evaluation	CO1	To understand different aspects of sensory science and its application.
FPT5G1P	Sensory Evaluation- Practical	CO1	To understand different aspects of various sensory parameters and its application in food quality analysis.
FPT5G2T	Sanitation and Hygiene	CO1	To know the principles and applications of sanitation in food industry.
FPT5G3T	Eco-Tourism	CO1	Make the students to opt various ecotourism programmes as a self employment stream.

		CO2	Make the students to aware about the usefulness of ecotourism in the conservation of natural resources.
		CO3	Help the students to assess various ecotourism programmes
SEMESTER 6			
FPT6G1T	Food Toxicology	CO1	Provide students with a basic understanding of the principles of toxicology.
		CO2	Provide students an in depth understanding of how the science of toxicology is applied to chemical food and feed safety, including food regulation and risk assessment
FPT6G2T	Computer Hardware and Networking	CO1	Understand the hardware components of a system.
		CO2	Understand basic issues in installing and using software.
		CO3	Understand how a network functions and the issues of network security.

SKILL COMPONENT

Name of the Programme: BVoc Sustainable Agriculture			
Course Code	Course Title	Course Outcomes	
SEMESTER 1			
SAG1S1T	Fundamentals of Agronomy	CO1	To enable the students to acquire knowledge on importance of agriculture.
		CO2	To acquire knowledge on various types of farming.
		CO3	To study the fundamentals of agronomy and classification of field crops.
SAG1S1P	Fundamentals of Agronomy - Practical	CO1	To familiarize with cultivation aspects of cereals and millets.
		CO2	To familiarize with cultivation of pulses and tuber crops
SAG1S2T	Fundamentals of Horticulture	CO1	To acquaint with importance of horticultural crops.
		CO2	To understand the basic principles and types of plant propagation.
		CO3	To understand the division of and classification of crops
SAG1S2P	Fundamentals of Horticulture - Practical	CO1	To develop skill in propagation of horticultural crops
		CO2	To develop skill in aspects of horticultural crops
SAG1S3T	Fundamentals of Entomology and Insect ecology	CO1	To familiarize with insect pests
		CO2	To understand about the Insect ecology

SAG1S3P	Fundamentals of Entomology and Insect ecology-Practical	CO1	To develop skill in different IPM practices in insect pest management
		CO2	To familiarize with insect morphology
SAG1S11	Setting up of crop museum	CO1	To develop skill in setting up of a crop museum for major field crops
SEMESTER 2			
SAG2S1T	Plantation Crops, Spices and Fruits	CO1	To acquaint with the cultivation aspects of Plantation crops, spices and fruit crops.
		CO2	Management practices of crops gaining importance
SAG2S1P	Plantation Crops, Spices and Fruits-Practical	CO1	To acquire skill on cultivation aspects of Plantation crops, spices and fruit crops
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.
FPT3SII	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 Nutraceuti cals	CO1	To understand the basics of nutraceuticals and functional foods.
		CO2	To study the significance of nutraceuticals and their role in disease prevention.
		CO3	To identify new strategies for marketing of traditionally known nutraceuticals.

FPT4S1I	Internship/ field work	CO1	To develop basic skills of food processing
		CO2	To expose to a particular job , profession or an industry.
		CO3	To gain skills that can be applied to future jobs
SEMESTER 5			
FPT5S1T	Food Packaging	CO1	To be familiar with different methods and materials used for packaging.
		CO2	To understand the technology behind packaging.
FPT5S2T	Technology of Beverages	CO1	To enable the students to get an up to date knowledge about fermented foods and beverages.
FPT5S3T	Drying Technology	CO1	To be familiar with different methods of drying.
		CO2	To understand the technology behind drying.
FPT5S1I	Internship/ field work	CO1	To develop basic skills of food processing
		CO2	To expose to a particular job , profession or an industry.
		CO3	To gain skills that can be applied to future jobs.
SEMESTER 6			
FPT6SIT	Analytical Methods in Food Processing.	CO1	To know the principles and applications of different techniques used in food and nutrition research
		CO2	To gain knowledge about different instruments used in food analysis.
FPT6SIP	Analytical Methods in Food Processing- Practical	CO1	To gain knowledge about different instruments used in food analysis.
FPT6S3 T	Entrepreneu rship Developme nt	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/Diss ertation	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.
