



MES ASMABI COLLEGE

P. Vemballur (PO), Kodungallur, Thrissur (Dist.), Kerala, PIN - 680671

LEARNING OUTCOMES OF DIFFERENT PROGRAMMES OFFERED POST GRADUATE PROGRAMMES

NAME OF THE DEPARTMENT	DEPARTMENT OF ENGLISH	
PROGRAMME CODE AND PROGRAMME NAME	MA ENGLISH LANGUAGE AND LITERATURE	
PROGRAMME OUTCOMES(POs)	PO.1	Students should be able to master the representative literary and cultural texts within a significant number of historical, geographical, and cultural contexts.
	PO.2	Students should be able to master the critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres.
	PO.3.	Students should be able to identify, analyze, interpret and master the critical ideas, values, and themes that appear in literary and cultural texts and understand the way these ideas, values, and themes inform and impact culture and society, both now and in the past.
	PO.4	Students should be able to write analytically in a variety of formats, including essays, research papers, reflective writing, and critical reviews of secondary sources so that they should be able to ethically gather, understand, evaluate and synthesize information from a variety of written and electronic sources for research purposes.

	PO.5	Students should be able to understand the process of communicating and interpreting human experiences through literary representation using historical contexts and disciplinary methodologies.
PROGRAMME SPECIFIC OUTCOMES (PSOs)	PSO.1.	ENG1C01 BRITISH LITERATURE FROM CHAUCER TO THE EIGHTEENTH CENTURY To enable students to get a historical and literary perspective of British Literature from Chaucer's period to 18th C
	PSO.2.	ENG1C02 BRITISH LITERATURE: THE 19TH CENTURY To focus on the cultural, historical and literary changes that have taken during the period
	PSO.3.	ENG1C03 HISTORY OF ENGLISH LANGUAGE To Familiarize students with the various theories on the origin of English Language, to familiarize students with the various theories evolved in grammar in English

	PSO.4.	ENG1C04 INDIAN LITERATURE IN ENGLISH It enables them to compare Indian writers with world literature It makes the students familiar with Indian Literature, history of Indian writing in English and Indian English writers.
	PSO. 5.	ENG2C05 TWENTIETH CENTURY BRITISH LITERATURE UPTO WORLD WAR II To introduce students to the modern English Literature which includes different styles and genres like stream of consciousness technique, sprung rhythm, Freudian psychology, free verse etc.
	PSO.6.	ENG2C06 LITERARY CRITICISM AND THEORY PART I Understand the major trends, theories and concepts regarding literary theory.
	PSO.7	ENG2C07 AMERICAN LITERATURE It provides a comprehensive understanding of the various stages of American Literature which constitutes a major portion of English Literature
	PSO.8	ENG2C08 POSTCOLONIAL WRITINGS Understand the history of European Literature, to understand the socio-cultural practices that influenced the literature of European countries

	PSO.9	ENG3C09 TWENTIETH CENTURY BRITISH LITERATURE POST 1940 To train students in various modern perspectives readings in poetry, drama and fiction like gender, race, caste, ethnicity, religion, region etc.
	PSO.10	ENG3C10 LITERARY CRITICISM AND THEORY PART II To introduce the students the emerging trends in literary theory
	PSO.11	ENG3E03 WOMEN'S WRITING To create a new awareness among students concerning gender
	PSO.12	ENG3 E06 TEACHING OF ENGLISH To introduce students to the basic concepts and current developments in Language Teaching in General and English Language Teaching in particular

	PSO13.	ENG4C11 ENGLISH LITERATURE IN THE 21ST CENTURY To introduce various trends in prose, poetry and fiction in the 21 st century.
	PSO14	ENG4C12 DISSERTATION To encourage students to seriously pursue the preparation of project and research papers.
	PSO15	ENG4C13 COMPREHENSIVE VIVA VOCE To assess the knowledge of students in various genres of literature and to develop an ability for communicating ideas effectively
	PSO16	ENG4E14 INDIAN ENGLISH FICTION To familiarize the students with trends in Indian English fiction
	PSO17	ENGE18 MALAYALAM LITERATURE IN ENGLISH TRANSLATION To introduce the learners to movements and trends in Malayalam literature since the 1970's.
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		

	CO.1.	<p>ENG1CO1: BRITISH LITERATURE FROM THE AGE OF CHAUCER TO THE EIGHTEENTH CENTURY</p> <p>At the end of the course the student has learnt to;</p> <ol style="list-style-type: none"> 1. Appreciate and analyze independently the poems of Chaucer, Donne, Marvell, Milton, Dryden, Pope and Gray 2. Understand the concept & types of poetry reflecting the age and its importance 3. Appreciate and analyze independently the drama of Shakespeare, Webster, and Sheridan 4. Understand the concept & types of drama reflecting the age and its importance 5. Appreciate and analyze the prose and fictional narratives of Bacon, Swift and Fielding 6. Understand the concept & types of fiction reflecting the age and its importance
	CO.2.	<p>ENG1CO2: BRITISH LITERATURE: THE NINETEENTH CENTURY</p> <p>At the end of the course the student has learnt to;</p> <ol style="list-style-type: none"> 1. Appreciate and analyze independently the poems of Blake, Wordsworth, Coleridge, Shelley, Keats, Tennyson, Browning, and Arnold 2. Understand the concept & types of poetry reflecting the age and its importance 3. Appreciate and analyze independently the drama of Wilde, Shelley 4. Understand the concept & types of drama reflecting the age and its importance 5. Appreciate and analyze the prose and fictional narratives of Bronte, Dickens, Hardy and Lamb 6. Understand the concept & types of fiction reflecting the age and its importance
	CO.3.	<p>ENG1C03: HISTORY OF ENGLISH LANGUAGE</p> <p>At the end of the course the student has learnt to;</p> <ol style="list-style-type: none"> 1. Understand the basics of language 2. Understand Indo-European family of languages 3. Understand the different periods of English language 4. Understand the varieties of language 5. Understand the phonological concepts with general ideas about phonetics 6. Understand modern theories of grammar such as IC, TG
	CO.4.	<p>ENG1C04: INDIAN LITERATURE IN ENGLISH</p>
		<p>At the end of the course the student has learnt to;</p> <ol style="list-style-type: none"> 1. Appreciate and analyze independently the poems of Tagore, Aurobindo, Naidu, Duttetc 2. Understand the concept & types of poetry reflecting the age and its importance 3. Appreciate and analyze independently the drama of ManjulaPadmanabhan and Mahesh Dattani 4. Understand the concept & types of drama reflecting the age and its importance 5. Appreciate and analyze the prose and fictional narratives of Anand, Desai, Narayan, Nehru, Nandi Etc 6. Understand the concept & types of fiction reflecting the age and its importance

	CO.5	<p>EN2C05: TWENTIETH CENTURY LITERATURE UPTO WORLD WAR II</p> <p>At the end of the course the student has learnt to;</p> <ol style="list-style-type: none"> 1. Appreciate and analyze independently the poems of Hopkins, Yeats, Eliot, and Auden 2. Understand the concept & types of poetry reflecting the age and its importance 3. Appreciate and analyze independently the drama of Shaw, Eliot and Synge 4. Understand the concept & types of drama reflecting the age and its importance 5. Appreciate and analyze the prose and fictional narratives of Woolf, Leavis, Conrad, Joyce and Lawrence 6. Understand the concept & types of fiction reflecting the age and its importance
	CO.6.	<p>ENG2C06: LITERARY CRITICISM AND THEORY PART I</p> <p>Course outcome</p> <p>This course helped the learner to;</p> <ol style="list-style-type: none"> 1. Make use of the concepts of criticism as developed in Classical Age to later periods through the works of Aristotle, Johnson, Longinus, Sydney, and Coleridge 2. Make use of the concepts of criticism as developed in Indian Aesthetics such as Rasa, Dhvani and Vakrokti 3. Understand the ideas of criticism as presented by Eliot, Brooks, Frye and Shklovsky 4. Familiarize with critical terms and concepts proposed by Wilson, Derrida, Barthes and Showalter 5. Understand the concepts and use of them in the critical analysis 6. Realize the possible dimensions in literary criticism
	CO.7.	<p>ENG2C07: AMERICAN LITERATURE</p> <p>Course outcome</p> <p>This course helped the learner to;</p> <ol style="list-style-type: none"> 1. Appreciate the poetry of American writers such as Poe, Whitman, Dickinson, Frost, Stevens, Cummings, and Crane.
		<ol style="list-style-type: none"> 3. Appreciate drama of American playwrights such as O' Neill, Miller, Williams, and Baraka. 4. Appreciate the works of American fiction writers such as Melville, Twain, Faulkner. 5. Understand major prose writers such as Emerson, Thoreau 6. Appreciate the different traditions of writings in America

	CO.8.	<p>ENG2C08: POSTCOLONIAL WRITINGS</p> <p>At the end of the course the student has learnt to;</p> <ol style="list-style-type: none"> 1. Appreciate and analyze independently the drama of Soyinka, Lawler, Reaney and Karnad 2. Understand the concept of post-colonial drama with its infinite variety 3. Appreciate and analyze independently the fiction of Achebe, Naipaul, Lawrence, Hosseini and Seth 4. Understand the concept of fictional narratives in the post-colonial domains 5. Appreciate and analyze the emerging writers of post-colonial times 6. Understand the concept of postmodern fiction emerging from the new world
	CO.9.	<p>ENG3C09: TWENTIETH CENTURY BRITISH LITERATURE: POST 1940</p> <p>At the end of the course the student has learnt to;</p> <ol style="list-style-type: none"> 1. Appreciate and analyze independently the poems of Larkin, Hughes, Heaney and Hill 2. Understand the concept & types of poetry reflecting the age and its importance 3. Appreciate and analyze independently the drama of Beckett, Wesker, Pinter and Bond 4. Understand the concept & types of drama reflecting the age and its importance 5. Appreciate and analyze the prose and fictional narratives of Fowles, Greene, Sillitoe, and Lessing 6. Understand the concept & types of fiction reflecting the age and its importance
	CO 10.	<p>ENG3C10 LITERARY CRITICISM AND THEORY PART II</p> <ol style="list-style-type: none"> 1. Make use of the concepts of criticism as from structuralism and Cultural Materialism. 2. Understand the ideas of criticism as presented by Barthes, Derrida, Showalter and Montroe 3. Familiarize with critical terms and concepts proposed by Edward Said,Jonathan Bateand Graham Good 4. Understand the concepts and use of them in the critical analysis 5. Realize the possible dimensions in literary criticism
	CO11	<p>ENG3E03WOMEN'S WRITING</p> <p>At the end of the course the student has learnt to;</p> <ol style="list-style-type: none"> 1. Understand Women's voice as an alternative tradition in writing 2. Understand Feminism and Feminist movements 3. Appreciate gender issues 4. Understand the marginalization and subjugation of women 5. Appreciate the redefining of literary canon from the women's perspective 6. Appreciate the major representative pieces of essays elaborating on women's issues 7. Appreciate the major poetic and fictional narratives involving women's issues

	CO12	<p>ENG3E06 TEACHING OF ENGLISH</p> <ol style="list-style-type: none"> 1.Introduce students to basic concepts and current developments in language teaching. 2.Familiarising linguistic theories and its impact on language teaching 3.Introducing students to different teaching methods and their pedagogical implications. 4.Familiarising students to various classroom strategies ,techniques and teaching aids. 5.Introducing Teaching aids, lesson plans for teaching effectively different genres of literature
	CO13	<p>13ENG4 C11 ENGLISH LITERATURE IN THE 21ST CENTURY</p> <p>Course outcome This course helped the learner to;</p> <ol style="list-style-type: none"> 1. Appreciate and analyze independently the poems of Simon Armitage, Espada and Boland 2. Understand the concept & types of poetry reflecting the age and its importance. 3. Appreciate and analyze independently the drama of Tracy Letts, Lucy Kirkwood and Ayad Akhtar. 4. Understand the concept & types of drama reflecting the age and its importance. 5. Appreciate and analyze the prose and fictional narratives of Kazuo Ishiguro, Mohsin Hamid and Powers etc. 6. Understand the concept & types of fiction reflecting the age and its importance.
	CO14	<p>ENG4C12: DISSERTATION</p> <p>Course outcome This course helped the learner to;</p> <ol style="list-style-type: none"> 1. Implement the concepts acquired in Criticism course 2. Understand library work and data collection 3. Understand scientific data analysis with a humanities perspective 4. Understand presentation of facts methodically and objectively 5. Understand the latest format of presentation such as MLA 8 Edition 6. Understand how a brief presentation is done 7. Acclimatize himself/herself to the research work and preparing for higher levels of exploration and study

	CO15	<p>ENG4E14 INDIAN ENGLISH FICTION</p> <p>Course outcome This course helped the learner to;</p> <ol style="list-style-type: none"> 1. Appreciate and analyze independently the narratives of Mulk Raj AnandRohinton Mistry and Khushwant Singh. 2. Understand the concept of classical fiction in India 3. Appreciate and analyze independently the narratives of Anees Salim and Kiran Desai. 4. Understand the concept of the post Industrial Indian English Fiction 5. Appreciate and analyze the narratives of Deepak Unnikrishnanand Jumpa Lahiri 6. Understand the concept of Post-Colonial narratives from Indian emigrants
	CO16	<p>ENG4C 13 COMPREHENSIVE VIVA VOCE</p> <p>Course outcome The viva helped the learner to</p> <ol style="list-style-type: none"> 1.To assess the understanding of a student's knowledge of various concepts in literature. 2.To assess the communication skills of students. 3.To assess the critical thinking skills of the students. 4.To assess the research project undertaken by the students.
	CO17	<p>ENG4E14 INDIAN ENGLISH FICTION</p> <ol style="list-style-type: none"> 1. Appreciate and analyze independently the narratives of Mulk Raj AnandRohinton Mistry and Khushwant Singh. 2. Understand the concept of classical fiction in India 3. Appreciate and analyze independently the narratives of Anees Salim and Kiran Desai. 4. Understand the concept of the post Industrial Indian English Fiction 5. Appreciate and analyze the narratives of Deepak Unnikrishnanand Jumpa Lahiri 6. Understand the concept of Post-Colonial narratives from Indian emigrants

	CO18	ENG4E18 MALAYALAM LITERATURE IN ENGLISH TRANSLATION 1. Appreciate and analyses independently the poems of Kumaranasan, Vallathol, Ulloor 2. Understand the concept & types of poetry reflecting the Indian ethos at its innate and rich tradition 3. Appreciate and analyze independently the drama of N Krishnapillai, C.J. Thomas, Thoppil Bhasi 4. Understand the concept & types of drama reflecting the experimentation at the regional level 5. Appreciate and analyze the prose and fictional narratives of O Chandu Menon, Thakazhi and Basheer 6. Understand the concept & types of fiction reflecting the Indian narrative strategy at the regional level
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NAME OF THE DEPARTMENT	DEPARTMENT OF ECONOMICS	
PROGRAMME CODE AND PROGRAMME NAME	MA ECONOMICS (ECO)	
PROGRAMME OUTCOMES (POs)	PO.1	The students should be able to analyze the Socio-Political and Economic Issues related to national and international scenario.
	PO.2	This programme helps to understand the various Social, Political and Economic Institutions in the world and their working principles.
	PO.3.	Curriculum helps to create the capacity to Work effectively in a multi disciplinary environment.
	PO.4	The students should be able to find a career in Economics.
	PO.5	The students should be able to understand how the economic policies affect the common people through societal interactions.
	PO.6	The students should be able to utilize the research spheres of Economics.
PROGRAMME SPECIFIC OUTCOMES (PSOs)	PSO.1. ECO 1 C01	Students should be able to develop knowledge about production, demand, market and pricing.
	PSO.2. ECO 1 C02	Students should be able to develop knowledge about monetary policy and its implications in economy.
	PSO.3.	Students should be able to develop knowledge about economic planning in India and recent

	ECO 1 C03	changes in our economy.
	PSO.4. ECO 1 C04	Gain knowledge regarding the implications of mathematical tools in economic planning.
	PSO. 5. ECO 2 C05	Students will understand how external factors affect the functions of markets.
	PSO.6. ECO 2 C06	Students should be able to develop knowledge about the major Govt. mechanisms used to rectify economic issues in a country
	PSO.7.EC O 2 C07	Able to understand the role of the public sector in economic development.
	PSO.8 ECO 2 C08	Students should be able to develop knowledge about various statistical tools used for data interpretation.
	PSO.9 ECO 3	Students should be able to develop knowledge about the role of International trade in economic

	CO9	development.
	PSO.10 ECO 3 C10	Helps to understand the basic theories of economic growth and development.
	PSO.11 ECO 3 C11	Students should be able to develop knowledge about the recent trends in banking trends.
	PSO.12 ECO 3 C12	Students will understand the use of mathematics and statistics in economic analysis.
	PSO.13 ECO 4 C13	Students will able to understand how foreign markets influence economic development of a country.

	PSO.14 ECO 4 C14	Students will able to understand the working principles of the Money market and Capital market.
	PSO.15 ECO4 C 17	Students should be able to develop knowledge about the role of Demand forecasting, Time value of money and Capital budgeting in business.
	PSO.16 ECO4 C24	Helps to understand the role of people's participation in the Panchayath Raj system.
		Semester I
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO 1 C01 Micro Economics theory and applications I
	CO.1.	To introduce the basic principles of economic theory
	CO.2.	To introduce the basic principles of Pricing strategies
	CO.3.	To introduce the pricing mechanism.
	CO.4.	To analyses the different consumer theories
	CO.5	To provide the basic business aptitude.
	CO.6.	To understand the basic techniques of economic analysis
	CO.7.	To understand the different market condition
	CO.8.	To know about managerial decision making process
	CO.9.	To aware about the decision making under risky situations
	CO 10.	Provide knowledge about limit pricing theories
COURSE CODE,		ECO 1 C02 Macroeconomics theories and policies

COURSE NAME AND COURSE OUTCOMES (COs)		
	CO.1.	To give an strong micro foundation to the monetary theory
	CO.2.	To familiarize the students with the basic difference between classical and Keynesian economics.
	CO.3.	To understand the national income concept.
	CO.4.	To gives the idea about Keynesian theory of employment.
	CO.5	To understand the theories of consumption function.

	CO.6.	To introduce the basic concepts of monetary economics.
	CO.7.	To provide the knowledge about the aggregate economic activity.
	CO.8.	To introduce the demand and supply theory of money
	CO.9.	To gives an idea about how to make an investment
	CO 10.	To make aware when goods market and money market be in equilibrium
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO 1 C03 Indian Economy- Problems and Policies
	CO.1.	To understand the key issues facing the Indian economy.
	CO.2.	To create awareness about the working of different forms of Gov.'s in India.
	CO.3.	To understand the development policies adopted in India.
	CO.4.	To familiarize national income concepts.
	CO.5	To understand the structure of Kerala economy.
	CO.6.	To introduce the changes in post liberal economies in India.
	CO.7.	To familiarize about India's International trade
	CO.8.	To gives an idea about the decentralized administration in Kerala
	CO.9.	To make them know how Kerala model of development exist
	CO 10.	To gives an exposure about how development and environment interrelated
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO 1 C04 Quantitative methods for economics Analysis I

	CO.1.	To provide quantitative skills to collect, analyze and interpret the analytical data.
	CO.2.	To provide basics for research.
	CO.3.	Gives basic mathematical techniques for economic students.
	CO.4.	To give the basic foundations of statistical analysis.

	CO.5	To understand the different techniques for analyzing the data.
	CO.6.	To understand the trends with the help of statistical tools.
	CO.7.	To provide various tools which helps for decision making
	CO.8.	To familiarize the concept of differential calculus
	CO.9.	To gives an idea about how to utilize the optimum resources
	CO 10.	To Provide an idea about probabality and its applications in real life
		Semester II
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO 2 C05 Micro Economics theory and applications II
	CO.1.	To analyses the cost conditions of the industries
	CO.2.	To understand the Decision making in market
	CO.3.	To understand the concept of input output analysis
	CO.4.	To give awareness about the market conditions
	CO.5	To insist an entrepreneurial skill among the students
	CO.6.	To provide an idea about how externalities affect the market
	CO.7.	To introduce the general equilibrium concept
	CO.8.	To make aware how decision making leads to social welfare
	CO.9.	To provide an idea about how lemon market influence the general market
	CO 10.	To provide an idea about distribution theory
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO 2 C06 Macroeconomics theories and policies II
	CO.1.	To provide knowledge about monetary transactions
	CO.2.	To understand the theories of inflation
	CO.3.	To understand about the unemployment problem
	CO.4.	To understand about the macroeconomic principles
	CO.5	To provide knowledge about business cycle
	CO.6.	To provide knowledge about goods market and money market equilibrium
	CO.7.	To understand the Keynesian and monetarist approach to inflation

	CO.8.	To provide an idea about how the labor market be in equilibrium
	CO.9.	To know about the under employment equilibrium
	CO 10.	To understand the effectiveness of monetary and fiscal policies under fixed exchange rates
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO 2 C07 Public Finance theory and practice
	CO.1.	To introduce the basic principles of fiscal economics
	CO.2.	To understand the difference between public and private finance
	CO.3.	To understand the source of public expenditure
	CO.4.	To understand the source of public revenue
	CO.5	To make awareness about budget preparation
	CO.6.	To give an idea about central state financial relations
	CO.7.	To gives an idea about the functions of modern welfare states
	CO.8.	To understand the various stages involved in budget preparation
	CO.9.	To gives an idea about functional finance
	CO 10.	To provide the complete structure of Indian system
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO 2 C08 Quantitative methods for economics Analysis II
	CO.1.	To predict future level of sales by using probability distributions
	CO.2.	To provide the mathematical skill among the students
	CO.3.	To provide knowledge about the profit maximizing conditions of the firm
	CO.4.	To give an idea about various tools used for sales forecasting
	CO.5	To impart skills in mathematical and statistical techniques
	CO.6.	Provide meaningful study in theoretical and applied economics
	CO.7.	To make aware about the concept and practical applications of normal distribution
	CO.8.	To provide the importance of various tools of hypothesis testing
	CO.9.	To understand various research methodology tools
	CO 10.	To provide the importance ANOVA
		Semester

		III
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO3C09 International Trade
	CO.1.	To provide knowledge about the foreign exchange market
	CO.2.	To aware about the exchange rate systems
	CO.3.	To provide knowledge about the international economic organizations
	CO.4.	To provide knowledge about the BOP conditions of a nation
	CO.5	To provide awareness about the govt. Policies in international trade
	CO.6.	To analyses the foreign exchange crisis
	CO.7.	To provide the importance of international trade in economic development
	CO.8.	To make aware about the development in trade theories
	CO.9.	To introduce the concept of foreign trade multiplier
	CO 10.	To make aware about the relevance of economic integration in the world
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO 3 C10 Growth and Development
	CO.1.	To introduce the concepts of growth and development
	CO.2.	To understand the models of growth
	CO.3.	To know about the growth rate
	CO.4.	To compare the development status of different countries
	CO.5	To analyses the trends in development
	CO.6.	To know the difference between growth and development
	CO.7.	To know about the development gap concepts
	CO.8.	To know about the grand theories
	CO.9.	To show the importance of endogenous growth theories
	CO 10.	To identify the limits to growth
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO3 C11 Banking-theory and practice

	CO.1.	To provide knowledge about the International Banking Institutions
	CO.2.	To understand about the recent trends in banking sector
	CO.3.	To provide the latest developments in financial sector
	CO.4.	To provide basic knowledge about money market
	CO.5	To familiarize students with the changing scenario of Indian banking
	CO.6.	To provide a basic understanding of the Central bank autonomy
	CO.7.	To gives an idea about the real world banking structure
	CO.8.	To make aware about modern banking technologies
	CO.9.	To develop the skills which is necessary for banking sector
	CO 10.	Too understand the working of new development banks
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO3 C 12 Basic Econometrics
	CO.1.	To provide knowledge about the scope of econometrics
	CO.2.	To prove economic theories mathematically
	CO.3.	To analyses how to maximize profit of the firms and industries
	CO.4.	To understand about the interrelationship between different sectors in an economy
	CO.5	To understand the cost benefit analysis
	CO.6.	To understand the decision making process in industries
	CO.7.	To help the students to use mathematical tools in economics
	CO.8.	To introduce the basics of linear regression model
	CO.9.	To make aware about the Gauss Makov theorem
	CO 10.	To introduce the various econometrics problems
		Semester IV
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO4 C13 International Finance
	CO.1.	To provide knowledge about the BOP conditions of a nation
	CO.2.	To provide knowledge about the foreign exchange market

	CO.3.	To aware about the exchange rate systems
	CO.4.	To provide knowledge about the international economic organizations
	CO.5	To understand the basic concepts of Portfolio investments
	CO.6.	To provide awareness about the govt. Policies in international trade
	CO.7.	To provide knowledge about the evolution of IMF
	CO.8.	To familiarize the international monetary system
	CO.9.	To understand the importance of multinational corporations
	CO 10.	To know about the theories of foreign exchange rate
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO 4 C 14 Financial Markets
	CO.1.	To understand the functions of capital market
	CO.2.	To identify the intermediaries in the financial sector
	CO.3.	To make aware about the instruments in the money market
	CO.4.	To know about the players of Indian money market
	CO.5	To identify the functions of Intermediaries in the Development of Capital market
	CO.6.	To understand the difference between primary and secondary market
	CO.7.	To assess the working of SEBI
	CO.8.	To analyses the Financial sector reforms in the country
	CO.9.	To know about the derivative market
	CO 10.	To provide knowledge about global financial market

COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO4 C 17 Elective 1 Business Economics
	CO.1.	To enhance entrepreneurial skill among the students
	CO.2.	To understand the importance of demand forecasting
	CO.3.	To aware about the investment criteria under risk and uncertain conditions
	CO.4.	To provide data about the time series analysis
	CO.5	To provide information about decision tree analysis
	CO.6.	To aware about the investment criteria under certainty conditions

	CO.7.	To understand the growth strategies of the firm
	CO.8.	To understand the demand forecasting methods and its importance in business world
	CO.9.	To calculate the time value of money
	CO 10.	To understand the concept of capital budgeting
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ECO4 C24 Elective 2 Local Level Planning
	CO.1	To provide information about the decentralization process in India
	CO.2	To provide information about the constitutional amendments related to decentralization process in India
	CO.3	To aware about the panchayath raj institutions
	CO.4	To understand the decentralized planning process in Kerala
	CO.5.	Provide information about the types of projects for implementing various programmes
	CO.6.	To provide knowledge about panchayath raj and municipalities act
	CO.7.	To give an idea regarding peoples participations in local level administration
	CO .8.	To give an outlook about social development through different areas
	CO.9	To realize the importance of development among peoples of rural areas
	CO.10	To provide knowledge about the project evaluation techniques.

Name of the programme and out comes	Name of the course	Course outcomes
<p>M.Sc Botany</p> <p>PO.1. Knowledge and understanding of: The range of plant diversity in terms of structure, function and environmental relationships</p> <p>PO.2 The evaluation of plant diversity and classification based on British flora</p> <p>PO.3. Understand the advanced areas of biological sciences with special reference to Botany and its applied branches</p> <p>PO.4 The role of plants in the functioning of the global ecosystem.</p> <p>PO.5 Ability to suggest innovative programs to care for nature and life for sustainable development.</p> <p>PO.6 Statistics as applied to biological data</p>	<p>BO01CT01. Phycology, Bryology, Pteridology and Gymnosperms</p>	<p>CO.1. To understand various classification of Algae, Bryophytes, Pteridophytes and Pteridophytes</p> <p>CO.2. To understand morphology of Cryptogams and Gymnosperms</p> <p>CO.3. To acquire a basic knowledge about the economic importance Cryptogams and Gymnosperms.</p> <p>CO.4. To understand the origin and evolution of bryophytes.</p> <p>CO.5. To understand the phylogenetic importance of Gymnosperms.</p> <p>CO.6. To understand the contribution of Indian pteridologists.</p> <p>CO.7. To study the biological importance of planktons.</p> <p>CO.8. To create a basic knowledge on Fossil Pteridophytes and Gymnosperms</p> <p>CO.9. To study the reproduction of lower groups and Gymnosperms</p> <p>CO 10. To create an awareness on the geological time scale</p>
	<p>BO01CT02 Mycology and Lichenology,</p>	<p>CO.1. To impart basic knowledge about lower plants such as , fungi, Lichen</p> <p>CO.2. This will give an account on the habitat, anatomy, classification other members of living</p>

	Microbiology and Plant Pathology	<p>world</p> <p>CO.3. To understand the basic knowledge about microorganisms like Bacteria, Cyanobacteria, Viruses</p> <p>CO.4. To understand Microbial ecology and Agricultural Microbiology.</p> <p>CO.5 To study the principles of Plant Pathology and plant disease management.</p> <p>CO.6. To study various symptoms of plant disease and the process of infection</p> <p>CO.7. To understand the life cycle pattern of different fungal and bacterial group</p> <p>CO.8. To study the economic importance of fungi and bacteria</p> <p>CO.9. The impart knowledge on the ecological significance of lichen</p> <p>CO 10. To study the role of cyanobacteria as bio fertilizer</p>
	BO01CT03 Angiosperm Anatomy, Angiosperm Embryology, Palynology and Lab Techniques	<p>CO.1. To gain knowledge of plant cells, tissues and their functions.</p> <p>CO.2. To make connections between plant anatomy and the other major disciplines of biology</p> <p>CO.3. To identify and compare structural differences among different taxa of vascular plants</p> <p>CO.4. To know the structure and development of monocot and dicot embryos.</p> <p>CO.5 To compare the function and morphology of pollen grains.</p> <p>CO.6. Describe and illustrate modern and fossil spores and pollen grains</p> <p>CO.7. To study the formation of wood in Angiosperms</p> <p>CO.8. To create an awareness on anomalous secondary growth in Dicots and Monocots</p> <p>CO.9. To the structure and functions of Angiosperm ovule</p> <p>CO 10. To know the use of different types of Stains</p>
	BO02CT05; Cell Biology, Molecular Biology and Biophysics	<p>CO.1. Discuss the most significant discoveries and their impacts on the development of molecular biology.</p> <p>CO.2. Explain the fundamental principles of phylogeny and systematics of the living world, with the application of the principles of classification</p> <p>CO.3. Link the structure of tissues, organs, organ systems and organisms with their functions in plants</p> <p>CO.4. Compare the structure of eukaryotic cells with prokaryotic cells and with the structure of viruses</p> <p>CO.5 To understand about mutation and cancer, DNA repairing mechanisms.</p> <p>CO.6. To acquire knowledge about PH and buffer solutions, Chromatography, Electrophoresis, Centrifugation, colorimetry and spectrophotometry.</p> <p>CO.7. To study the mitotic and meiotic abnormalities</p> <p>CO.8. To acquire knowledge on Programmed cell death and Aging</p> <p>CO.9. Discuss mutation and its consequences</p> <p>CO 10. To study molecular Phylogenetics</p>

	BO02CT06 Cytogenetics, Genetics, Biostatistics, Plant Breeding and Evolution	CO.1. To describe linkage ,crossing over and mutations CO.2. To have knowledge of the nature and function of genes, processes of inheritance CO.3. To describe cell division in plants. CO.4. To explain the structure of Cell components and their functions. CO.5 To understand linkage and gene mapping. CO.6. To understand about different aspects of plant breeding like selection, hybridization, mutation breeding, polyploidy breeding and biotechnological approaches. CO.7. To study application of statistics in biological research CO.8. To acquire knowledge on experimental designs CO.9. To gather information biotechnological approaches in plant breeding CO 10. To study the intellectual property right and farmers right
	BO02CT07 Plant Ecology, Conservation Biology, Phytogeography and Forest Botany	CO.1. To understand the concepts of plant Ecology CO.2. To enhance the knowledge in wide array of plant and their interaction with the environment CO.3. To understand the productivity and energy flow in different ecosystems. CO.4. To understand various threats to the environment. CO.5 To understand various strategies of conservation. CO.6. To enhance the knowledge of social forestry and agroforestry CO.7. To study the patterns of plant distribution CO.8. To enhance interest on Biodiversity conservation CO.9. To study the influence of forest on environment CO 10. To identify threatened and endangered plant species
	BO01CP04 ; Practicals	CO.1. To collect and study the different types of algae, fungi, bryophytes, pteridophytes, gymnosperms mentioned in the syllabus CO.2. To prepare herbarium sheets of algae, pteridophytes etc. CO.3. To analyze the morphological and structural features of bryophytes and pteridophytes CO.4. To identify the fossil pteridophytes and gymnosperms CO.5 To prepare semi and permanent microslide preparations CO.6. To analyze the pollen morphology and study of different types of ovules CO.7. To examine the sex organs of algae, fungi, bryophytes, pteridophytes, gymnosperms. CO.8. To study the Anatomy of bryophytes, pteridophytes, gymnosperms. CO.9. To collect and preserve the Algae and Fungi CO 10. To extract Dicot embryo from Ovule
	BO02CP08; Practicals	CO.1. To observe various stages of mitosis and meiosis, and isolation of plastids and Mitochondria

		<p>CO.2. Working about the problems of molecular genetics</p> <p>CO.3. Preparation of buffers and measurement of pH</p> <p>CO.4. Preparation of karyotype and ideogram of plant cells</p> <p>CO.5 Working about the problems from linkage, population genetics and quantitative genetics.</p> <p>CO.6. Determination of minimum size of quadrat suitable for an area.</p> <p>CO.7. To demonstrate hybridization process in plants</p> <p>CO.8. To prepare Histograms on the basis of biological data</p> <p>CO.9. To identify the special Chromosomes</p> <p>CO 10. To identify various meiotic stages</p>
	BO03CT9 Plant Physiology, Metabolism and Biochemistry	<p>CO.1. To study about the properties of water, ascent of sap and mineral nutrition in plants</p> <p>CO.2. To study the nitrogen metabolism of plants</p> <p>CO.3. To understand about the major physiological process like, respiration and photosynthesis in plants</p> <p>CO.4. To study about the roles of phytohormones and their structure</p> <p>CO.5 To analyze the physiological adaptations under stress conditions in plants</p> <p>CO.6. To familiarize with the major biochemical pathways in plants</p> <p>CO.7. To study the carbohydrate metabolism</p> <p>CO.8. To create an awareness on Fat metabolism</p> <p>CO.9. To understand the synthesis of nucleotides</p> <p>CO 10. To study about secondary metabolites</p>
	BO03CT10 Angiosperm Morphology, Angiosperm Taxonomy and Plant Resources	<p>CO.1. To study the principles of taxonomy of angiosperms</p> <p>CO.2. To know the local flora</p> <p>CO.3. To get training in the identification of angiospermous taxa</p> <p>CO.4. To appreciate the diversity of morphological traits in different angiosperm taxa</p> <p>CO.5 To study about the origin and evolution of various plant organs</p> <p>CO.6. To study the modern trends in taxonomy</p> <p>CO.7. To study how to make herbarium of selected plants</p> <p>CO.8. To study taxonomic Key of various plants</p> <p>CO.9. To study morphological variations of angiosperm families</p> <p>CO. 10. To understand resources from plants of different families</p>
	BO03CT11. Biotechnology and Bioinformatics	<p>CO.1. Discuss the most significant discoveries and theories through the historical progress of biological scientific discoveries, and their impacts on the development of biotechnology.</p> <p>CO.2. To study the basic aspects of plant tissue culture</p> <p>CO.3. To understand the different methods in biotechnology.</p> <p>CO.4. To appreciate the major applications of genetic engineering</p> <p>CO.5 To study the major methods in bioinformatics</p>

		<p>CO.6. To study the characters of large biological data using software</p> <p>CO.7. To familiarize DNA sequencing</p> <p>CO.8. To understand transgenic technology in plants</p> <p>CO.9. To study cloning and its objectives</p> <p>CO 10. To understand gene patenting</p>
	BO03CP12: Practicals	<p>CO.1. To determine different kinds of pigments by leaf extraction</p> <p>CO.2. To estimate protein content by using Biuret reagent</p> <p>CO.3. To collect and study the different types of flora mentioned in the syllabus</p> <p>CO.4. To understand preparation of culture media</p> <p>CO.5 To acquire graphic processing skill by studying different kinds of software packages</p> <p>CO.6. To understand enzyme extraction</p> <p>CO.7. To estimate seed viability using TTLC</p> <p>CO.8. To determine water potential of plant tissue</p> <p>CO.9. To prepare taxonomic keys of available plants</p> <p>CO 10. To collect plant resources from important plants</p>
	Elective BOT4E01-2. Environmental Biology and Biodiversity Conservation	<p>CO.1. Students will earn adequate knowledge in Population and Community Ecology including Human Population Dynamics</p> <p>CO.2. A deeper understanding various thoughts on Ecology and Eco philosophy of International and Indian ecophilosophers and scientists</p> <p>CO.3. A detailed understanding of Biodiversity, Biodiversity management, databases and sustainable use</p> <p>CO.4. An understanding of Wetlands, Mangroves and Forest Types of Kerala and Global perspective on conservation, Preservation and Restoration of biomes and ecosystems</p> <p>CO.5 A brief outline of modern concept and term in ecology and biodiversity such as IPR, Ecological FootPrint, Cybernetics and role of NGOs and Educational institutions in Conservation</p> <p>CO.6. A brief understanding of Climate Change and its impacts and disaster management</p> <p>CO.7. A detailed understanding of Major Global Environmental Challenges</p> <p>CO.8. An understanding of Conservation and protection of environment and International and National Environmental Laws</p> <p>CO.9. A detailed understanding on the impact of population increase.</p> <p>CO 10. To create a thorough knowledge on the Ramsar site of Kerala</p>
	BOT4E02-2 Pathology of Plantation Crops and Spices	<p>CO.1. To understand the basic principles of Plant Pathology</p> <p>CO.2. To determine different kinds of pathogens of crop plants</p> <p>CO.3. To analyze the major pest of crop plants</p>

		<p>CO.4. A detailed understanding on fungicides and mode of application, mode of action and side effects of antibiotics</p> <p>CO.5. An understanding of chemistry, mode of application and mode of action of Bactericides</p> <p>CO.6. An understanding of chemistry, mode of application and mode of action of Pesticides</p> <p>CO.7. To analyze the different biocontrol agents for disease management</p> <p>CO.8. To acquire knowledge about plant protectants- major sources, active principles, mode of application and mode of action</p> <p>CO.9. To familiarize Integrated pest and disease management.</p> <p>CO.10. Students will earn adequate knowledge in Etiology and control measures of different diseases</p>
	Practicals of Elective paper I	<p>CO.1. Field level knowledge on local Ecosystems, Its environment and biodiversity</p> <p>CO.2. Practical understanding of Waste Water Treatment</p> <p>CO.3. Physical and Chemical analysis of Soil and Water</p> <p>CO.4. Practical knowledge on Community Studies, Mapping and biological spectrum</p> <p>CO.5 Practical understanding of Ecological succession</p> <p>CO.6. Field visit and study of hillock ecosystem</p> <p>CO.7. Practical knowledge on quality of water through Dissolved Oxygen and BOD</p> <p>CO.8. To have practical knowledge on estimation of soil calcium</p> <p>CO.9. Practical knowledge on determining particle size of soil</p> <p>CO 10. To prepare album based on different types of pollution.</p>
	Practicals of Elective paper II	<p>CO.1. Knowledge about the isolation of fungal and bacterial pathogens</p> <p>CO.2. Acquire the practical knowledge about the preparation of different nutrient media</p> <p>CO.3. Knowledge about the identification of pathogens</p> <p>CO.4. Field level knowledge on collection and preservation of diseased parts</p> <p>CO.5. Practical knowledge on collection and preparation of morphological and microscopic drawings and photographs</p> <p>CO.6. To acquire knowledge about the identification of the diseases at field and lab levels.</p> <p>CO.7. A detailed understanding of demonstration of Koch's postulates and preparation of an illustrated report</p> <p>CO.8. To familiarize major plant protection activities in the station and submission of reports</p> <p>CO.9. Understand different methods of preservation</p> <p>CO.10. To analyze the importance of spices</p>

Name of the programme and out comes	Name of the course	Course outcomes
Msc physics (FIRST SEMESTER)	1.Classical mechanics	1. Explain the fundamental concepts in Lagrangian and Hamiltonian formulation in mechanics. 2. Apply the concepts of Lagrangian, Hamiltonian, Action, Poisson brackets, canonical transformations and their subsequent development to Heisenberg's matrix mechanics and Schrodinger's wave mechanics, to carry out numerical problems. 3. Develop the analytical and mathematical skills for describing the dynamics of rigid bodies. It could be applied to practical situations. This can be applied to spectroscopic analysis of samples. 4. Explain the theory of small oscillations. Small oscillations are part and parcel of all bound physical systems. 5. Elucidate the concepts in nonlinear dynamics and chaos. These techniques can be directly applied in nonlinear physics and also to verify various experimental results.
	2.Mathematical physics	1. Describe coordinate systems appropriate for different physical problems. Applies it to solve Laplace's equation in different coordinate systems. 2. Perform transformation operations and get the corresponding transformation matrices. Learns procedures for matrix diagonalisation 3. Distinguish the class of objects called tensors, their classifications and use. Understand differential equations of special nature and the ways to solve them. 4. identify differential equations of special nature and the ways to solve them. 5. Illustrate special functions as solutions to problems in atomic, molecular nuclear, and solid state physics etc. and will put them in use. 6. Distinguish Fourier series and integral transforms of different types and their properties. This will enable him/her to analyze or solve different mathematical problems in physical sciences.
	3.Electrodynamics and plasma physics	1. Explain the significance of displacement current and Maxwell's equations and general electromagnetic wave equations, their solutions in terms of potentials and fields. Another basic concept of physics called gauge transformation will be understood. Multipole expansion of the potentials, fields and multipole moments of different orders will be learned. 2. Describe the propagation of electromagnetic waves through free space and the consequences of reflection from different types of boundaries. These have important consequences in wave propagation.

		<p>3. Discusses propagation of electromagnetic waves through confined media like waveguides and cavity resonators.</p> <p>4. Enables to appreciate the magnificent results of the blending of relativity and electrodynamics and motivated to take up a course on quantum field theory, the study of fields, interactions and symmetries.</p> <p>5. Understand the criteria for a medium to be called plasma and the various properties of it.</p>
	4. Electronics	<p>1. Analyze characteristics of JFET and MOSFET and their specific applications.</p> <p>2. Distinguish the basic characteristics of light emitting and light sensing devices and illustrate the basic concepts behind integrating electronic and photonic devices suitably for microwave communication.</p> <p>3. Classify characteristics of op-amps and their implementation in various elementary level applications.</p> <p>4. Identify the basics of logic gates, flip flops and registers and the designing of counters, satisfying specific conditions. Understands RAM and D/A converter and basic features of specific microprocessors.</p>

Name of the programme and out comes	Name of the course	Course outcomes
1. Msc physics (SECOND SEMESTER)	1. Quantum mechanics-I	<p>1. Appreciate the importance and implication of vector spaces. Will be able to use Dirac ket and bra notations. Use operators and will be able to solve eigenvalue problems. Understand generalized uncertainty principle in quantum mechanics and the need for quantum mechanical formalism and its basic principles.</p> <p>2. Explain time evolution of quantum mechanical systems and learn different time evolution approaches -Schrodinger picture and Heisenberg picture. Apply different approaches in quantum dynamics to various fundamental problems.</p> <p>3. Develop a better understanding of the mathematical foundations of spin and angular momentum. Make use of spherical harmonics to compute Clebsch - Gordon coefficients.</p> <p>4. Apply Schrodinger's equation to central potential problems, to solve various quantum mechanical problems. 5. Understand invariance principles based on symmetry of the system and establish the associated conservation laws. These quantum mechanical concepts will be applied to analyze the ground state of the Helium atom. Here it will be understood that all symmetry elements possess the mathematical property of groups.</p>

	2.Mathematical physics-II	<p>1.In general, physical phenomena are expressed in equations involving complex quantities. Sometimes we get complex solutions to equations. Solving such problems requires special procedures. On completing this module he/she will gain the skill for solving and interpreting such problems.</p> <p>2.Acquire preliminary training in group theory. All symmetry elements possess the mathematical property of groups. Concepts of group theory will help to solve problems in quantum mechanics. It is quantum mechanics that gives more stress on symmetry than classical mechanics.</p> <p>3. Apply the techniques of calculus of variation to diverse problems in physics.</p> <p>4. Apply the Green's function technique to solve problems showing causality relationships.</p>
	3.Statistical mechanics	<p>1. Understand macroscopic and the microscopic states, thermodynamic potentials, basic concepts of entropy, Liouville's theorem and its consequences. Also the students will have an understanding of the connection between statistics and thermodynamics.</p> <p>2. Have a detailed understanding of different canonical ensembles.</p> <p>3.Develop an understanding of the statistical behavior of Bose-Einstein and Fermi Dirac systems.</p>
	4.Computational physics	<p>1. Write computer programs using core python Create .</p> <p>2. Use advanced mathematical modules like Numpy and Pylab in python programs for solving mathematical and physical problems and also to present the result visually using graphs and charts.</p> <p>3. Solve numerically mathematical problems like interpolation, curve fitting, integration etc. and to write python programs for these.</p> <p>4. Solve numerically mathematical problems like differential equations, Fourier transforms etc. and also to write python programs for these.</p> <p>5. Analyze by simulating simple physical problems in physics like one-dimensional and two-dimensional motion, harmonic oscillator, radioactive disintegration, chaos, solution of Schrodinger equation etc., using python programs by applying the knowledge acquired for the course.</p>
Name of the programme and out comes	Name of the course	Course outcomes
1.Msc Physics (THIRD SEMESTER)	1.Quantum Mechanics-II	<p>1. Understand time independent perturbation theory and to apply it to harmonic and anharmonic oscillators, and learn the fine structure and hyperfine splitting of Hydrogen atoms in the presence of external magnetic and electric fields.</p> <p>2. Apply methods like Ritz variational technique and WKB approximation to quantum mechanical systems.</p>

		<p>3. Interpret time dependent perturbation theory and apply it to describe radiative transitions in atoms. Understand Fermi's Golden rule and learn Born approximation.</p> <p>4. Explain the theory of scattering and apply the method of partial waves to scattering by central potential and square well potential.</p> <p>5. Identify the principles of relativistic quantum mechanics and apply to Dirac particles, Klein-Gordon equation. Also understand the concept of spinors and the non-relativistic limit and Hole theory.</p>
	2.Nuclear and Particle physics	<p>1. Interpret the properties of nucleus, binding energy, angular momentum, two nucleon scattering, spin dependence, tensor force, partial wave concept and the theory of deuteron structure.</p> <p>2. Elucidate the theory of various types of nuclear decay, selection rules of transition, concept of parity and multipole moments.</p> <p>3. Compare various nuclear models and nuclear processes like fission and fusion. Will be able to apply it to various nuclear systems in the chart of nuclides.</p> <p>4. Demonstrate the working of one or two nuclear radiation detectors of different types and the signal processing and analyzing units.</p> <p>5. Compare basic interactions and classify the elementary particles. Interactions are linked with the concept of symmetry and conservation laws. Understand Sakata model, Gellmann- Okubo mass formula, Quark mode and their significance.</p>
	3. Solid state physics	<p>1. Analyze the structure of materials based on X-ray diffraction and interpret it on the basis of the theory understood.</p> <p>2. Distinguish different excitations in crystals. Properties of quasi particles could be explained. Arrive at proper explanation of specific heat.</p> <p>3. Explain free electron model and interpret the properties of metals. Gain a deeper understanding of the energy bands based on the properties of carriers.</p> <p>4. Interpret properly the thermal, electrical and magnetic properties of materials. Will enable the student to understand the current research going on in the related areas.</p> <p>5. Illustrate using phase diagrams, phase transitions in materials leading to superconductivity and different types of superconductors.</p>
	4.Introduction to nanoscience and technology	<p>1. Comprehend the basic principles of nanoscience and nanotechnology.</p> <p>2. Have an idea of the structure of nanoparticles.</p> <p>3. Explore the size dependence of various properties.</p> <p>4. Evaluate different quantum systems in zero, one, two and three dimensions at the nanoscale.</p> <p>5. Predict the quantum effect on the properties of nano materials.</p>

Name of the programme and out comes	Name of the course	Course outcomes
1.Msc Physics (FOURTH SEMESTER)	1.Atomic and molecular spectroscopy	1. Understand the behavior of atoms and molecules and their interactions with electromagnetic waves. 2. Apply the behavior of a nonrigid rotor and understand the microwave spectroscopy. 3. Distinguish between Raman and IR spectroscopy and elucidate on the features of Raman spectrum. 4. Explain electronic spectroscopy and applications Analyze 5. Identify the structure of the sample from spin resonance and Mossbauer spectra.
	2. Synthesis , characterization techniques and application of nano materials	1. Identify the different physical and chemical methods of synthesis of nanomaterials . 2. Understand the working principles of optical property and compositional and morphological analysis related instrumentation techniques . 3. Learn the fundamentals of electrical and magnetic property related instrumentation techniques. 4. Recognize different applications of nanomaterials in physics, chemistry and medicinal areas. 5. Have a basic idea of nanomachines and nanodevices.
	3.Biophysics	1. Appreciate the physical mechanism of plant and animal tissues . 2. Identify and understand the foundations of Bio photonics and Bio sensing. 3. Understand basic principles, mechanisms of action and applications of biosensors in different scenarios. 4. Analyze biomaterials and composites through theory and experiments. 5. Understand the applications of biomaterials in Medicine. and dentistry

Name of the programme and out comes	Name of the course	Course outcomes
1.Msc physics (FIRST SEMESTER)	1.Classical mechanics	1. Explain the fundamental concepts in Lagrangian and Hamiltonian formulation in mechanics.

		<p>2. Apply the concepts of Lagrangian, Hamiltonian, Action, Poisson brackets, canonical transformations and their subsequent development to Heisenberg's matrix mechanics and Schrodinger's wave mechanics, to carry out numerical problems.</p> <p>3. Develop the analytical and mathematical skills for describing the dynamics of rigid bodies. It could be applied to practical situations. This can be applied to spectroscopic analysis of samples.</p> <p>4. Explain the theory of small oscillations. Small oscillations are part and parcel of all bound physical systems.</p> <p>5. Elucidate the concepts in nonlinear dynamics and chaos. These techniques can be directly applied in nonlinear physics and also to verify various experimental results.</p>
	2.Mathematical physics	<p>1. Describe coordinate systems appropriate for different physical problems. Applies it to solve Laplace's equation in different coordinate systems.</p> <p>2. Perform transformation operations and get the corresponding transformation matrices. Learns procedures for matrix diagonalisation</p> <p>3. Distinguish the class of objects called tensors, their classifications and use. Understand differential equations of special nature and the ways to solve them.</p> <p>4. identify differential equations of special nature and the ways to solve them.</p> <p>5. Illustrate special functions as solutions to problems in atomic, molecular nuclear, and solid state physics etc. and will put them in use.</p> <p>6. Distinguish Fourier series and integral transforms of different types and their properties. This will enable him/her to analyze or solve different mathematical problems in physical sciences.</p>
	3.Electrodynamics and plasma physics	<p>1. Explain the significance of displacement current and Maxwell's equations and general electromagnetic wave equations, their solutions in terms of potentials and fields. Another basic concept of physics called gauge transformation will be understood. Multipole expansion of the potentials, fields and multipole moments of different orders will be learned.</p> <p>2. Describe the propagation of electromagnetic waves through free space and the consequences of reflection from different types of boundaries. These have important consequences in wave propagation.</p> <p>3. Discusses propagation of electromagnetic waves through confined media like waveguides and cavity resonators.</p> <p>4. Enables to appreciate the magnificent results of the blending of relativity and electrodynamics and motivated to take up a course on quantum field theory, the study of fields, interactions and symmetries.</p> <p>5. Understand the criteria for a medium to be called plasma and the various properties of it.</p>

	4.Electronics	<p>1.Analyse characteristics of JFET and MOSFET and their specific applications.</p> <p>2.Distinguish the basic characteristics of light emitting and light sensing devices and illustrate the basic concepts behind integrating electronic and photonic devices suitably for microwave communication.</p> <p>3.Classify characteristics of op-amps and their implementation in various elementary level applications.</p> <p>4. Identify the basics of logic gates, flip flops and registers and the designing of counters, satisfying specific conditions. Understands RAM and D/A converter and basic features of specific microprocessors.</p>
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Name of the programme and out comes	Name of the course	Course outcomes
1.Msc physics (SECOND SEMESTER)	1. Quantum mechanics-I	<p>1.Appreciate the importance and implication of vector spaces. Will be able to use Dirac ket and bra notations. Use operators and will be able to solve eigenvalue problems. Understand generalized uncertainty principle in quantum mechanics and the need for quantum mechanical formalism and its basic principles.</p> <p>2. Explain time evolution of quantum mechanical systems and learn different time evolution approaches -Schrodinger picture and Heisenberg picture. Apply different approaches in quantum dynamics to various fundamental problems.</p> <p>3.Develop a better understanding of the mathematical foundations of spin and angular momentum. Make use of spherical harmonics to compute Clebsch - Gordon coefficients.</p> <p>4.Apply Schrodinger's equation to central potential problems, to solve various quantum mechanical problems. 5.Understand invariance principles based on symmetry of the system and establish the associated conservation laws. These quantum mechanical concepts will be applied to analyze the ground state of the Helium atom. Here it will be understood that all symmetry elements possess the mathematical property of groups.</p>
	2.Mathematical physics-II	<p>1.In general, physical phenomena are expressed in equations involving complex quantities. Sometimes we get complex solutions to equations. Solving such problems requires special procedures. On completing this module he/she will gain the skill for solving and interpreting such problems.</p> <p>2.Acquire preliminary training in group theory. All symmetry elements possess the mathematical property of groups. Concepts of group theory will help to solve problems in</p>

		<p>quantum mechanics. It is quantum mechanics that gives more stress on symmetry than classical mechanics.</p> <p>3. Apply the techniques of calculus of variation to diverse problems in physics.</p> <p>4. Apply the Green's function technique to solve problems showing causality relationships.</p>
	3.Statistical mechanics	<p>1. Understand macroscopic and the microscopic states, thermodynamic potentials, basic concepts of entropy, Liouville's theorem and its consequences. Also the students will have an understanding of the connection between statistics and thermodynamics.</p> <p>2. Have a detailed understanding of different canonical ensembles.</p> <p>3. Develop an understanding of the statistical behavior of Bose-Einstein and Fermi Dirac systems.</p>
	4.Computational physics	<p>1. Write computer programs using core python Create .</p> <p>2. Use advanced mathematical modules like Numpy and Pylab in python programs for solving mathematical and physical problems and also to present the result visually using graphs and charts.</p> <p>3. Solve numerically mathematical problems like interpolation, curve fitting, integration etc. and to write python programs for these.</p> <p>4. Solve numerically mathematical problems like differential equations, Fourier transforms etc. and also to write python programs for these.</p> <p>5. Analyze by simulating simple physical problems in physics like one-dimensional and two-dimensional motion, harmonic oscillator, radioactive disintegration, chaos, solution of Schrodinger equation etc., using python programs by applying the knowledge acquired for the course.</p>
Name of the programme and out comes	Name of the course	Course outcomes
1.Msc Physics (THIRD SEMESTER)	1.Quantum Mechanics-II	<p>1. Understand time independent perturbation theory and to apply it to harmonic and anharmonic oscillators, and learn the fine structure and hyperfine splitting of Hydrogen atoms in the presence of external magnetic and electric fields.</p> <p>2. Apply methods like Ritz variational technique and WKB approximation to quantum mechanical systems.</p> <p>3. Interpret time dependent perturbation theory and apply it to describe radiative transitions in atoms. Understand Fermi's Golden rule and learn Born approximation.</p>

		<p>4. Explain the theory of scattering and apply the method of partial waves to scattering by central potential and square well potential.</p> <p>5. Identify the principles of relativistic quantum mechanics and apply to Dirac particles, Klein-Gordon equation. Also understand the concept of spinors and the non-relativistic limit and Hole theory.</p>
	2.Nuclear and Particle physics	<p>1. Interpret the properties of nucleus, binding energy, angular momentum, two nucleon scattering, spin dependence, tensor force, partial wave concept and the theory of deuteron structure.</p> <p>2. Elucidate the theory of various types of nuclear decay, selection rules of transition, concept of parity and multipole moments.</p> <p>3. Compare various nuclear models and nuclear processes like fission and fusion. Will be able to apply it to various nuclear systems in the chart of nuclides.</p> <p>4. Demonstrate the working of one or two nuclear radiation detectors of different types and the signal processing and analyzing units.</p> <p>5. Compare basic interactions and classify the elementary particles. Interactions are linked with the concept of symmetry and conservation laws. Understand Sakata model, Gellmann- Okubo mass formula, Quark mode and their significance.</p>
	3. Solid state physics	<p>1. Analyze the structure of materials based on X-ray diffraction and interpret it on the basis of the theory understood.</p> <p>2. Distinguish different excitations in crystals. Properties of quasi particles could be explained. Arrive at proper explanation of specific heat.</p> <p>3. Explain free electron model and interpret the properties of metals. Gain a deeper understanding of the energy bands based on the properties of carriers.</p> <p>4. Interpret properly the thermal, electrical and magnetic properties of materials. Will enable the student to understand the current research going on in the related areas.</p> <p>5. Illustrate using phase diagrams, phase transitions in materials leading to superconductivity and different types of superconductors.</p>
	4.Introduction to nanoscience and technology	<p>1. Comprehend the basic principles of nanoscience and nanotechnology.</p> <p>2. Have an idea of the structure of nanoparticles.</p> <p>3. Explore the size dependence of various properties.</p> <p>4. Evaluate different quantum systems in zero, one, two and three dimensions at the nanoscale.</p> <p>5. Predict the quantum effect on the properties of nano materials.</p>

Name of the programme and out comes	Name of the course	Course outcomes
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1.Msc Physics (FOURTH SEMESTER)	1.Atomic and molecular spectroscopy	<ol style="list-style-type: none"> 1. Understand the behavior of atoms and molecules and their interactions with electromagnetic waves. 2. Apply the behavior of a nonrigid rotor and understand the microwave spectroscopy. 3. Distinguish between Raman and IR spectroscopy and elucidate on the features of Raman spectrum. 4. Explain electronic spectroscopy and applications Analyze 5. Identify the structure of the sample from spin resonance and Mossbauer spectra.
	2.Synthesis , characterization techniques and application of nano materials	<ol style="list-style-type: none"> 1. Identify the different physical and chemical methods of synthesis of nanomaterials . 2. Understand the working principles of optical property and compositional and morphological analysis related instrumentation techniques . 3. Learn the fundamentals of electrical and magnetic property related instrumentation techniques. 4. Recognize different applications of nanomaterials in physics, chemistry and medicinal areas. 5. Have a basic idea of nanomachines and nanodevices.
	3.Biophysics	<ol style="list-style-type: none"> 1. Appreciate the physical mechanism of plant and animal tissues . 2. Identify and understand the foundations of Bio photonics and Bio sensing. 3. Understand basic principles, mechanisms of action and applications of biosensors in different scenarios. 4. Analyze biomaterials and composites through theory and experiments. 5. Understand the applications of biomaterials in Medicine. and dentistry

NAME OF THE DEPARTMENT	PG Department of Commerce	
PROGRAMME CODE AND PROGRAMME NAME	MCC M com Finance	
PROGRAMME OUTCOMES(POs)	PO.1	The students will develop an ability to apply knowledge acquired in problem solving.
	PO.2	Ability to work in teams with enhanced communication and inter-personal skills The students will be ready for employment in functional areas like Accounting, Taxation, Banking, Insurance and Corporate Law.
	PO.3.	Ability to start entrepreneurial activities

	PO.4	To inculcate ethical values, team work, leadership and managerial skills.
	PO.5	Students will exhibit inclination towards pursuing professional courses such as CA/ CS/ CMA/CFA etc.
	PO.6	Students will enable to enter in the field of Research in Finance and Management.
PROGRAMME SPECIFIC OUTCOMES (PSOs)	PSO.1.	Apply multidisciplinary domain knowledge comprising of accounting, finance, operations, marketing and human resources management to select suitable project proposal.
	PSO.2.	Apply the conceptual and practical business knowledge to identify and solve organizational problems using a systematic and analytical decision-making approach.
	PSO.3.	Assess global opportunities and challenges to contribute towards firm's growth through strategies such as mergers, acquisitions and international expansion.
	PSO.4.	Evaluate the implications of changing environmental factors on organization.
	PSO. 5.	Demonstrate knowledge, skills & positive attitude to work individually or as multi-disciplinary teams in a dynamic organizational environment.
	PSO.6.	Exhibit ability to identify and organize data; synthesize and analyze to abstract meaning from information, in order to share knowledge to the key stakeholders.
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	Semester 1	MCM1C01: Business environment and policy
	CO.1.	To familiarise students with the concepts of macro and micro environment of business
	CO.3.	To know about the concept of Quality circle
	CO.4.	To familiarise the students with the structure of Indian Economy
	CO.5	To study the Profile of Indian Economy
	CO.6.	To familiarize the Industrial policy
	CO.7.	To study the impact of FDI in retail sector
	CO.8.	To get an idea about the problems and consequences of foreign trade policy
	CO.9.	To Study about MNC and its importance
	CO 10.	To study the International agreements
		MCM1C03: Quantitative technique for business decision
	CO.1.	To acquaint students with important quantitative techniques, which enable sound business decision making.
	CO.2.	To impart various tools available for non-parametric test like Chi-square test, Wilcoxon Signed Rank test, Mann Whitney U test etc.

	CO.3.	To familiarize about the basics of quantitative techniques.
	CO.4.	To provide understanding about tests of significance by parametric tests like Z test, t test, F test and ANOVA.
	CO.5	To make students learn the process of applying appropriate quantitative techniques for validating findings and interpreting results.
	CO.6.	To understand Statistical Quality Control like process control, product control through X chart, R chart, P chart, C chart.
	CO.7.	To gain deep understanding on various methods available for Correlation.
	CO.8.	Application of Regression in Prediction
	CO.9.	Practical Knowledge about SPSS
	CO.10	Practical knowledge about other softwares used in the field of Quantitative Techniques
		MCM1C05:Advanced Management accounting
	CO.1.	To enable the students to know the applications of accounting tools, techniques and concepts in managerial decision making process.
	CO.2.	To understand the theoretical concept of Management accounting.
	CO.3.	To impart different cost concepts and classifications.
	CO.4.	To get insight about absorption costing and marginal costing.
	CO.5	To acquire knowledge about emerging cost approaches.
	CO.6.	To understand the uses of different investment appraisal methods in capital investment decision
	CO.7.	To understand the use of CVP analysis in decision making under different situations.
	CO.8.	To understand the different methods of computation of cost of capital.
	CO.9.	To know the concept of cost control, cost reduction and value analysis and value engineering.
	CO.10	To gain knowledge on different performance measurement methods
		MCM1C02: Corporate Governance and Business Ethics
	CO.1.	Students will be able to understand the business ethics.
	CO.2.	The student will be able to analyze corporate social Responsibility
	CO.3.	The student will be able to analyze various ethical codes in corporate governance.
	CO.4.	Students will be able to analyze the Employees conditions and Business Ethics.
	CO.5	Students will be able to determining the quality of an organizations internal controls

	CO.6.	Students will be able to analyze the importance of an organization's Corporate Governance
	CO.7.	Students will be able to determining an organization's susceptibility to loss or fraud
	CO.8.	Students will be able to Inner Conscience and its Linkage to Governance
	CO.9.	Students will be able to Corporate Governance System Worldwide, Corporate Disclosure and Investor Protection in India
	CO.10	Students will be able to Ethical Issues related to Advertisements, Finance, Investment, Technology and Ethical Dilemma
		MCM1C05: Organizational theory and practice.
	CO.1.	To familiarize the students with the different psychological process
	CO.2.	To impart the knowledge about leadership and communication
	CO.3.	To give an idea about different behavioral patterns of employees when they are in an individual, group, part of a structure.
	CO.4.	To understand Group behavior and team cohesiveness existing in the organizations
	CO.5	To give an orientation about application of Transactional Analysis psychology in an organizational settings
	CO.6.	To understand about the concept of perception, personality and attitude
	CO.7.	To understand the concept of Group cohesiveness.
	CO.8.	To get a thorough knowledge about conflict management.
	CO.9.	To know the methods of grievance handling.
	CO.10	To get an awareness about change management.
	Semester 2	MCM2C096:International Business
	CO.1.	To evaluate the complexities of international business and globalization from home versus host-country, and regional, cultural perspectives.
	CO.2.	To study the various risk management techniques
	CO.3.	To get an idea about the MNC and TNC
	CO.4.	To study about the factors affecting the foreign investment
	CO.5	To study the foreign institutional investment and know about the globalization of Indian business
	CO.6.	To study the international marketing decisions
	CO.7.	To study about the international organizations
	CO.8.	To study about the sez, free trade zones etc
	CO.9.	To evaluate the future opportunities of international business activities

	CO.10	To get an overall idea about the international business
		MC2C06: Advanced Corporate Accounting
	CO.1.	To provide basic knowledge about IFRS
	CO.2.	To describe the Role of IASB
	CO.3.	To examine the Accounting for Group Companies
	CO.4.	To Analysis of the capital profit
	CO.5	Explain the concept of Accounting for the corporate Restructuring
	CO.6.	To help the students understand the techniques of restructuring and liquidating the corporate entities.
	CO.7.	Treatments of items in Internal – external merger of the companies.
	CO.8.	To enable the students to solve the problem of voyage accounts.
	CO.9.	To enable the students to solve the problem of farm accounts.
	CO.10	To explain the concept of Human Resource Accounting
		MCM2C08: Strategic cost accounting
	CO.1.	To provide basic knowledge about Cost Management
	CO.2.	To provide basic knowledge about the Concept of ABC
	CO.3.	To Analyse the concept of Kaizen Costing
	CO.4.	To help the students to understand the issues in Business process reengineering
	CO.5	To help the students to understand the Just in time Technique
	CO.6.	To explain value chain analysis
	CO.7.	To explain internal and supplier linkages
	CO.8.	To enable the students to solve the problems in Costing in Service Sector
	CO.9.	To enable the students to solve the problem of Joint product and by-product
	CO.10	To explain the concept of Standard Costing & variance analysis
		MCM2C10: Management science
	CO.1.	To familiarize students with concepts of management science and tools supporting decision making
	CO.2.	To enable students to apply Management science techniques in appropriate decision situations.
	CO.3.	To equip the students with basic idea about different management science techniques
	CO.4.	To give an idea about linear programming problem
	CO.5	To give an orientation about network analysis
	CO.6.	To give an idea about queuing theory

	CO.7.	To acquire knowledge about simulation techniques.
	CO.8.	To acquire knowledge about Programme Evaluation Review Technique.
	CO.9.	To give an orientation about Critical Path Method.
	CO.10	To know about the practical applications of Operations Research in the field of Management.
		MC2C10: Advanced Strategic management
	CO.1.	To provide idea about basic concept of strategic management.
	CO.2.	To understand the concept of management and the various methods available for its analysis
	CO.3.	To aware about strategic choice like stability, growth and defensive strategies
	CO.4.	To know the strategic implementation through planning and allocation of resources.
	CO.5	To gain knowledge about Corporate Governance and Business ethics and its interdependence.
	CO.6.	Acquire knowledge about Corporate governance practices in India.
	CO.7.	Acquire knowledge about certificate of Corporate Governance.
	CO.8.	Familiarize with the issues in Corporate Governance
	CO.9.	To know about CSR
	CO.10	Thorough knowledge about Strategic planning.
		MCM3 C11: FINANCIAL MANAGEMENT
	CO.1.	To Familiarize with the financial function and to analyze the operating and tax environment for financial decisions.
	CO.2.	To get an idea about short term finance and long term finance sources of fund.
	CO.3.	To understand the concept of working capital and estimate the working capital requirements.
	CO.4.	To identify the mathematical various models and techniques of cash management, inventories management and receivables management.
	CO.5	To understand the concept of cost of capital and its components.
	CO.6.	To study the importance and relevance of cost of capital
	CO.7.	To discuss the procedure of measurement of specific costs, WACC, CAPM and the overall cost of capital
	CO.8.	To understand the concept and meaning of capital structure and optimum capital structure.
	CO.9.	To identify various factors determining the capital structure of companies.
	CO.10	To present various approaches for capital structure in determining the value of the firm. To understand the mechanics and practices of dividend payment

		MC3C12:Income Tax Law, Practice and tax planning 1
	CO.1.	To enable students to understand computation of taxable income under different heads of income.
	CO.2.	To give insight about the assessment of agriculture income.
	CO.3.	To familiarize the concept of clubbing of incomes and aggregate of income
	CO.4.	To give idea about set off and carry forward of losses
	CO.5	To give insight about the income exempt from taxes, deductions, rebate and relief of tax
	CO.6.	To impart insight about the assessment of individuals and HUF.
	CO.7.	To impart knowledge about Computation of Total Income, Tax liability and Application of Alternate Minimum Tax on AOP/BOI.
	CO.8.	To provide basic awareness about Income Tax Authorities and payment of tax.
	CO.9.	To gain knowledge about the procedure for assessment of Income Tax.
	CO.10	To equip the procedure about the filing of return of Income.
		MCM3C13: Research Methodology
	CO.1.	To understand the process of doing research and its techniques
	CO.2.	To familiarize the students with formulation of research problem
	CO.3.	To equip the students with basic idea about sampling and sampling techniques
	CO.4.	To give an idea about different data collection techniques and methods
	CO.5	To give an orientation about various data analysis and interpretation tools
	CO.6.	To impart the skills of reporting the research findings
	CO.7.	To know reference techniques.
	CO.8.	To impart knowledge relating to plagiarism
	CO.9.	To give orientation about styles of reporting.
	CO.10	To impart knowledge about presentation of research report
	Semester 4	MC4C14: Financial Derivatives and Risk Management
	CO.1.	To get an awareness to the students about Financial derivatives.
	CO.2.	To acquaint the students to understand market risk, its types and risk management
	CO.3.	To acquaint the students to understand market risk, its types and risk management
	CO.4.	To acquaint the students to understand market risk, its types and risk management To familiarize more about futures contracts.
	CO.5	To understand Hedging with stock index and types of members, margining system in India.
	CO.6.	To gain knowledge on various options and option markets in NSE and BSE.

	CO.7.	To familiarize types of options- call and put.
	CO.8.	To get an awareness about option Pricing models.
	CO.9.	To impart the various swaps available in the markets.
	CO.10	To understand Risk management function of swap transactions
		MCM3E(F) 1 Financial markets and Institutions
	CO.1.	To get an awareness regarding Indian Financial system.
	CO.2.	To have a knowledge about innovative financial instruments
	CO.3.	To understand the working of commodity and debt markets .
	CO.4.	To understand the importance of financial services
	CO.5	To understand the concept of financial derivatives
	CO.6.	To understand the various developmental financial institutions
	CO.7.	To get an idea about various foreign investment opportunities
	CO.8.	To get an awareness regarding the functioning of mutual funds
	CO.9.	To understand the insurance sector and its regulatory measures in india
	CO.10	To understand the importance of NBFCs in providing financial services
		MCM3 E (F) 2: Investment Management
	CO.1.	To get an awareness about investment and different investment alternatives.
	CO.2.	To study the different types of risk in stock market.
	CO.3.	To get an awareness about types of bonds and bond investment analysis
	CO.4.	To gain knowledge in the bond return and valuation.
	CO.5	To equip awareness in the stock return and valuation.
	CO.6.	To give insight about the efficient market theory.
	CO.7.	To familiarize equity, fundamental and Technical analysis.
	CO.8.	To know more about portfolio analysis and portfolio selection.
	CO.9.	To understand about portfolio management.
	CO.10	To give an overview about security analysis and portfolio management.
		MC4 E (F) 03: STRATEGIC FINANCIAL MANAGEMENT

	CO.1.	To build an understanding among students about the concepts, vital tools and techniques used for financial decision making by a business firm
	CO.2.	To know about financial goals and strategy through SCV, MVA, MBV, EVA, IGR, SGR
	CO.3.	To get awareness about financial strategy for capital structure.
	CO.4.	To give an overview into lease financial strategy
	CO.5	To inculcate merger strategy of strategic financial management
	CO.6.	To instill take over strategy of strategic financial management
	CO.7.	To get an awareness regarding SEBI Take Over Code
	CO.8.	To get an over view regarding different modes of Acquisition.
	CO.9.	To know about capital budgeting
	CO.10	To know about capital structure theories.
		MCM4C15: Income Tax Law, Practice and tax planning 1I
	CO.1.	To acquaint the students with theoretical and practical knowledge of tax planning and management techniques.
	CO.2.	To give insight about the tax planning in respect of residential status
	CO.3.	To familiarize tax planning with reference to all five heads of income for individuals
	CO.4.	To provide knowledge about the assessment of taxable income of companies and determination of corporate tax liability.
	CO.5	To equip awareness in the tax planning of individuals under different heads.
	CO.6.	To gain knowledge in the tax planning and managerial decisions under different situation.
	CO.7.	To familiarize the students with major and latest provisions of the India tax laws and related judicial pronouncements pertaining to various assesses with a view to derive maximum possible tax benefits admissible under the law.
	CO.8.	To give awareness about tax planning about SEZ, EPZ and EOUs.
	CO.9.	To impart rules of tax planning in respect of make or buy, own or lease, repair or replace, export or domestic sales
	CO.10	Familiarize with tax planning of all assesses.
		MCM4 EF03: International finance
	CO.1.	Demonstrate knowledge of basic theorems of exchange rate determination.
	CO.2.	Interest rates and inflation rate
	CO.3.	The role of arbitrage in keeping the foreign exchange market efficient
	CO.4.	Apply knowledge of foreign exchange hedging
	CO.5	To identify and manage the foreign exchange risks faced by globally active firm

	CO.6.	Demonstrate the ability to select global financing strategies .
	CO.7.	Enable the students to propose solutions that will take advantage of opportunities in the global financial markets.
	CO.8.	Provide benefit of relevant stakeholders in the global financial markets

NAME OF THE DEPARTMENT	Commerce	
PROGRAMME CODE AND PROGRAMME NAME	MCC M com marketing	
PROGRAMME OUTCOMES(POs)	PO.1	The students will develop an ability to apply knowledge acquired in problem solving.
	PO.2	Ability to work in teams with enhanced communication and interpersonal skills The students will be ready for employment in functional areas like Accounting, Taxation, marketing. ,various regulations
	PO.3.	Ability to start entrepreneurial activities
	PO.4	To inculcate ethical values, team work, leadership and managerial skills.
	PO.5	Students will exhibit inclination towards pursuing professional courses such as CA/ CS/ CMA/CFA etc.
	PO.6	Students will be able to enter in the field of Research in Finance and Management.
PROGRAMME SPECIFIC OUTCOMES (PSOs)	PSO.1.	Apply multidisciplinary domain knowledge comprising accounting, finance, operations, marketing ,services ,retailing and human resources management to select suitable project proposals.
	PSO.2.	Apply the conceptual and practical business knowledge to identify and solve organizational problems using a systematic and analytical decision-making approach.
	PSO.3.	Assess global opportunities and challenges to contribute towards the firm's growth through strategies such as mergers, acquisitions and international expansion.
	PSO.4.	Evaluate the implications of changing environmental factors on organization.
	PSO. 5.	Demonstrate knowledge, skills & positive attitude to work individually or as multi-disciplinary teams in a dynamic organizational environment.

	PSO.6.	Exhibit ability to identify and organize data; synthesize and analyze abstract meaning from information, in order to share knowledge to the key stakeholders.
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	Semester1	MC1C01: Business environment & Policy
	CO.1.	To familiarize students with the concepts of macro and micro environment of business
	CO.3.	To know about the concept of Quality circle
	CO.4.	To familiarize the students with the structure of Indian Economy
	CO.5	To study the Profile of Indian Economy
	CO.6.	To familiarize the Industrial policy
	CO.7.	To study the impact of FDI in retail sector
	CO.8.	To get an idea about the problems and consequences of foreign trade policy
	CO.9.	To Study about MNC and its importance
	CO 10.	To study the International agreements
	CO.1.	To know the concept of corporate Governance
	CO.2.	To get knowledge about the importance of corporate governance
	CO.3.	To get the knowledge about various stakeholders
	CO.4.	To understand the theories and models of corporate governance
	CO.5	To know the various committees of corporate governance
	CO.6.	To familiarize IFRS and its importance in reporting

	CO.7.	To understand the clause 49 guidelines issued by SEBI
	CO.8.	To know the elements of corporate governance
	CO.9.	To familiarize importance of ethics in business
	CO.10	To know the styles and values of management
		MC1C03: Quantitative technique for business decision
	CO.1.	To acquaint students with important quantitative techniques, which enable sound business decision making.
	CO.2.	To impart various tools available for non-parametric test like Chi-square test, Wilcoxon Signed Rank test, Mann Whitney U test etc.
	CO.3.	To familiarize about the basics of quantitative techniques.
	CO.4.	To provide understanding about tests of significance by parametric tests like Z test, t test, F test and ANOVA.
	CO.5	To make students learn the process of applying appropriate quantitative techniques for validating findings and interpreting results.
	CO.6.	To understand Statistical Quality Control like process control, product control through X chart, R chart, P chart, C chart.
	CO.7.	To gain deep understanding on various methods available for Correlation.
	CO.8.	Application of Regression in Prediction
	CO.9.	Practical Knowledge about SPSS
	CO.10	Practical knowledge about other softwares used in the field of Quantitative Techniques
		MC1C04: Management Theory & Organizational Behavior
	CO.1.	To familiarize the students with the different psychological process
	CO.2.	To impart the knowledge about leadership and communication

	CO.3.	To give an idea about different behavioral patterns of employees when they are in an individual, group, part of a structure.
	CO.4.	To understand Group behavior and team cohesiveness existing in the organizations
	CO.5	To give an orientation about application of Transactional Analysis psychology in an organizational settings
	CO.6.	To understand about the concept of perception, personality and attitude
	CO.7.	To understand the concept of Group cohesiveness.
	CO.8.	To get a thorough knowledge about conflict management.
	CO.9.	To know the methods of grievance handling.
	CO.10	To get an awareness about change management.
		MC1C05:Advanced Management Accounting
	CO.1.	enable the students to know the applications of accounting tools, techniques and concepts in managerial decision making process.
	CO.2.	To understand the theoretical concept of Management accounting.
	CO.3.	To impart different cost concepts and classifications.
	CO.4.	To get insight about absorption costing and marginal costing.
	CO.5	To acquire knowledge about emerging cost approaches.
	CO.6.	Understand the uses of different investment appraisal methods in capital investment decision
	CO.7.	To understand the use of CVP analysis in decision making under different situations.
	CO.8.	To understand the different methods of computation of cost of capital.
	CO.9.	To know the concept of cost control, cost reduction and value analysis and value engineering.
	CO.10	To gain knowledge on different performance measurement methods
	Semester 2	MC2C06: Advanced Corporate Accounting

	CO.1.	To provide basic knowledge about IFRS
	CO.2.	To describe the Role of IASB
	CO.3.	To examine the Accounting for Group Companies
	CO.4.	To Analysis of the capital profit
	CO.5	Explain the concept of Accounting for the corporate Restructuring
	CO.6.	To help the students understand the techniques of restructuring and liquidating the corporate entities.
	CO.7.	Treatments of items in Internal – external merger of the companies.
	CO.8.	To enable the students to solve the problem of voyage accounts.
	CO.9.	To enable the students to solve the problem of farm accounts.
	CO.10	To explain the concept of Human Resource Accounting
		MC2C07: Advanced Strategic Management
	CO.1.	To provide ideas about the basic concept of strategic management.
	CO.2.	To understand the concept of management and the various methods available for its analysis
	CO.3.	To aware about strategic choice like stability, growth and defensive strategies
	CO.4.	To know the strategic implementation through planning and allocation of resources.
	CO.5	To gain knowledge about Corporate Governance and Business ethics and its interdependence.
	CO.6.	Acquire knowledge about Corporate governance practices in India.
	CO.7.	Acquire knowledge about certificates of Corporate Governance.
	CO.8.	Familiarize with the issues in Corporate Governance

	CO.9.	To know about CSR
	CO.10	Thorough knowledge about Strategic planning.
		MC2C08: Advanced Cost Accounting
	CO.1.	To understand the concept of cost accounting
	CO.2.	To acquire knowledge of process costing
	CO.3.	To give awareness about modern techniques of costing
	CO.4.	To understand different types of costing
	CO.5	To understand the concept of Activity Based Costing
	CO.6.	To aware about the concept JIT
	CO.7.	To familiarize with Life cycle costing
	CO.8.	To familiarize with throughput Accounting
	CO.9.	To impart the knowledge about strategic costing
	CO.10	To impart knowledge of Activity Based Budgeting.
		MC2C09: International Business
	CO.1.	To evaluate the complexities of international business and globalization from home versus host-country, and regional, cultural perspectives.
	CO.2.	To study the various risk management techniques
	CO.3.	To get an idea about the MNC and TNC
	CO.4.	To study about the factors affecting the foreign investment
	CO.5	To study the foreign institutional investment and know about the globalization of Indian business

	CO.6.	To study the international marketing decisions
	CO.7.	To study about the international organizations
	CO.8.	To study about the sez, free trade zones etc
	CO.9.	To evaluate the future opportunities of international business activities
	CO.10	To get an overall idea about the international business
		MCM2C10: Management Science
	CO.1.	To familiarize students with concepts of management science and tools supporting decision making
	CO.2.	To enable students to apply Management science techniques in appropriate decision situations.
	CO.3.	To equip the students with basic idea about different management science techniques
	CO.4.	To give an idea about linear programming problem
	CO.5	To give an orientation about network analysis
	CO.6.	To give an idea about queuing theory
	CO.7.	To acquire knowledge about simulation techniques.
	CO.8.	To acquire knowledge about Programme Evaluation Review Technique.
	CO.9.	To give an orientation about Critical Path Method.
	CO.10	To know about the practical applications of Operations Research in the field of Management.
	Semester 3	MCM3C11: Financial Management
	CO.1.	To get an awareness regarding the concept of financial management in an organization
	CO.2.	To have a knowledge about innovative financial instruments

	CO.3.	To understand the working of Indian financial system
	CO.4.	To understand the importance of cost of capital
	CO.5	To understand the concept of capital structure
	CO.6.	To understand the various dividend policies
	CO.7.	To get an idea about various foreign investment opportunities
	CO.8.	To get an awareness regarding the modern techniques of financial management
	CO.9.	To understand the types of leverage
	CO.10	To understand the importance of Working capital
		MCM3C12:Income Tax Law and Practice-Tax planning 1
	CO.1.	To enable students to understand computation of taxable income under different heads of income.
	CO.2.	To give insight about the assessment of agriculture income.
	CO.3.	To familiarize the concept of clubbing of incomes and aggregate of income
	CO.4.	To give idea about set off and carry forward of losses
	CO.5	To give insight about the income exempt from taxes, deductions, rebate and relief of tax
	CO.6.	To impart insight about the assessment of individuals and HUF.
	CO.7.	To impart knowledge about Computation of Total Income, Tax liability and Application of Alternate Minimum Tax on AOP/BOI.
	CO.8.	To provide basic awareness about Income Tax Authorities and payment of tax.
	CO.9.	To gain knowledge about the procedure for assessment of Income Tax.
	CO.10	To equip the procedure about the filing of return of Income.
		MCM3C13: Research Methodology

	CO.1.	To understand the process of doing research and its techniques
	CO.2.	To familiarize the students with formulation of research problem
	CO.3.	To equip the students with basic idea about sampling and sampling techniques
	CO.4.	To give an idea about different data collection techniques and methods
	CO.5	To give an orientation about various data analysis and interpretation tools
	CO.6.	To impart the skills of reporting the research findings
	CO.7.	To know reference techniques.
	CO.8.	To impart knowledge relating to plagiarism
	CO.9.	To give orientation about styles of reporting.
	CO.10	To impart knowledge about presentation of research report
	Semester 4	MCM4C14: Financial Derivatives and Risk Management
	CO.1.	To get an awareness to the students about Financial derivatives.
	CO.2.	To acquaint the students to understand market risk, its types and risk management
	CO.3.	To acquaint the students to understand market risk, its types and risk management
	CO.4.	To acquaint the students to understand market risk, its types and risk management To familiarize more about futures contracts.
	CO.5	To understand Hedging with stock index and types of members, margining system in India.
	CO.6.	To gain knowledge on various options and option markets in NSE and BSE.
	CO.7.	To familiarize types of options- call and put.
	CO.8.	To get an awareness about option Pricing models.

	CO.9.	To impart the various swaps available in the markets.
	CO.10	To understand Risk management function of swap transactions
		Income tax Law and Practice -Tax planning II
	CO.1.	To provide basic knowledge about assessment of partnership
	CO.2.	To provide basic knowledge about the Assessment of companies
	CO.3.	To Analyze the procedure for assessment
	CO.4.	To help the students to understand the Tax planning concepts
	CO.5	To help the students to understand the Tax planning for new business
	CO.6.	To explain Tax planning and managerial decision
	CO.7.	To understand the special tax provision
	CO.8.	To enable the students to solve problems on assessment of NRIs
	CO.9.	To enable the students to solve double taxation relief
	CO.10	To explain the concept of capital and revenue
	Marketing Elective Papers	MC3E (M) 01: ADVERTISING AND SALES MANAGEMENT
	CO.1.	It aims to understand the students about the concept of Advertising
	CO.2.	To familiarize the students' with the process of Advertising Management process
	CO.3.	To familiarize the student's with the Market analysis and sale forecasting
	CO.4.	To get an idea for the students about the Budget

	CO.5	To enable the students to understand about the - training and development
	CO.6.	To equip the students with the Evaluation of sales personnel
	CO.7.	To familiarize the students' with the process of effective selling
	CO.8.	To have an idea regarding advertising media.
	CO.9.	To have an idea regarding salesmanship
	CO.10	To enable the students to innovative techniques in advertising
		MC3E (M) 02: CONSUMER BEHAVIOR
	CO.1.	To help students develop basic understanding of the concepts and theories of consumer behavior
	CO.2.	To equip the students regarding the consumer buying process
	CO.3.	To understand the consumer needs and motivation
	CO.4.	To analyze the influence of culture in consumer behavior
	CO.5	To have an idea about models of consumer behavior
	CO.6.	To identify the areas of consumer research
	CO.7.	To evaluate the measurement of service quality
	CO.8.	To have an idea regarding techniques of service quality measures
	CO.9.	To have an idea regarding buying motives.

	CO.10	To understand the various factors influencing consumer behavior
		MC4 E (M) 03: SUPPLY CHAIN AND LOGISTICS MANAGEMENT
	CO.1.	To equip the students with good knowledge on logistics and supply chain management
	CO.2.	To have an idea about components of supply chain
	CO.3.	To understand the importance of supply chain in present market condition
	CO.4.	To know the role of manager in supply chain:
	CO.5	To have an idea about Logistics Management
	CO.6.	To have an idea of warehousing and store management
	CO.7.	To have a knowledge of commercial aspects in distribution management
	CO.8.	To get a knowledge regarding emerging trends in supply chain
	CO.9.	To understand the role of consumer data models in supply chain management
	CO.10	To have an idea regarding CRM
		MC4 E (M) 04: SERVICE MARKETING
	CO.1.	To impart basic idea about services and types of services
	CO.2.	To acquaint the students with various stages of new service development
	CO.3.	To understand the importance of service sector in economic development

	CO.4.	To understand the hospitality sector in services
	CO.5	To understand the hotel industry .
	CO.6.	To understand the importance of green marketing
	CO.7.	To understand the modes of marketing of educational services, public utility services etc
	CO.8.	To impart the knowledge regarding financial services
	CO.9.	To get an idea regarding customer relationship management.
	CO.10	To have an idea regarding health care services in india.

UNDERGRADUATE COURSES

NAME OF THE DEPARTMENT	AQUACULTURE	
PROGRAMME CODE AND PROGRAMME NAME	AQC B Sc AQUACULTURE	
PROGRAMME OUTCOMES (POs)	PO.1	Create scientific orientation in young minds.
	PO.2	Critical Thinking and Problem Solving ability.
	PO.3.	Environmental Awareness and sustainability.
	PO.4	Social commitment and gender equity orientation.
	PO.5	Human values and friendliness.
	PO.6	Participate in Nation building by introducing scientifically capable candidates.
	PO. 7	Experience a comprehensive range of scientific and systematic techniques.
	PO.8	Supplement trained manpower in both aquaculture and fisheries sector.
	PO.9	Able to impart technical skill necessary in both aquaculture and fisheries industry.
	PO. 10	Create local and global solutions for the challenges in this sector.
PROGRAMME SPECIFIC	PSO.1.	In-depth knowledge in the aquaculture industry which is established as a lucrative business.

OUTCOMES (PSOs)	PSO.2.	Entrepreneurial skills in aquafarming, ornamental fish keeping & breeding, hatchery technology, fish feed production and fish processing.
	PSO.3.	Expertise as fish nutritionist and fish veterinarian.
	PSO.4.	Skills as fishery biologist.
	PSO. 5.	Social outlook on pros and cons of aquaculture industry.
	PSO.6.	Computer and communication based skills in aquaculture and fisheries.

COURSE OUTCOMES (COs)**I. THEORY COURSES**

COURSE CODE & COURSE NAME	ACQ1 B01- BIOLOGY OF FISHES	
COURSE OUTCOMES (COs)	CO.1.	Basics of animal biology and fish taxonomy.
	CO.2.	Types of food and feeding strategies in finfishes and shellfishes.
	CO.3.	Types of fins in fishes and their role in swimming.
	CO.4.	Structure and role of sense organs in fishes, crustaceans and mollusks.
	CO.5.	Gut content analysis either by volumetric or gravimetric method for feed related studies.
	CO.6.	Determination of age of fish using either scales or otolith.
	CO.7.	Exposure on reproductive biology including anatomical supplementation.
	CO.8.	Physiology of digestion, excretion and osmoregulation.
	CO.9.	Physiology of circulation, respiration and endocrine system.
	CO 10.	Migration, biological clock and different types of rhythms in fishes.

COURSE CODE & COURSE NAME	AQC2 B03- FRESHWATER AQUACULTURE	
COURSE OUTCOMES (COs)	CO.1.	Basic understanding of agriculture, aquaculture and fisheries.
	CO.2.	Aquaculture scenario in Indian and global context.
	CO.3.	Types of aquaculture systems and criteria for selecting species for culture.
	CO.4.	Ecological concepts like productivity, carrying capacity, food chain and food web.
	CO.5.	Ecological cycles of Nitrogen, Phosphorus and Carbon.
	CO.6.	Pond fertilization and biological food production.
	CO.7.	Management of nursery, rearing and stocking ponds of cultivable fishes.
	CO.8.	Culture of air breathing fishes, prawns and mollusks.
	CO.9.	Integrated farming in aquaculture and concept of sustainability.
	CO 10.	Organizations involved in R&D in aquaculture.

COURSE CODE & COURSE NAME	AQC3 B05- FISHERIES & POPULATION DYNAMICS	
COURSE OUTCOMES (COs)	CO.1.	Riverine ecology and its capture fishery including scope for culture and river systems in India.
	CO.2.	Cold water fisheries and its status in India.
	CO.3.	Reservoir ecology, classification and fisheries in India.
	CO.4.	Estuarine ecology and its fisheries in India.
	CO.5.	Marine pelagic fishery resources of India.
	CO.6.	Marine demersal resources of India.
	CO.7.	Deep sea fishery and policy adopted by Govt. of India.
	CO.8.	Population dynamics in fishery science.
	CO.9.	Conservation and regulatory measures in fisheries, internationally and nationally.
	CO 10.	Organizations concerned with marine fisheries in Kerala, India and the world.

COURSE CODE & COURSE NAME	A11 – BIODIVERSITY- SCOPE AND RELEVANCE	
COURSE OUTCOMES (COs)	CO.1.	Define biodiversity and its components.
	CO.2.	List Biodiversity Hotspots in India.
	CO.3.	Understand the importance of Biodiversity.
	CO.4.	Memorize the magnitude of floral and faunal diversity.
	CO.5.	Understand the values and uses of Biodiversity.
	CO.6.	Prepare inventories of Biodiversity.
	CO.7.	Understand the significance of Biodiversity conservation.
	CO.8.	Prepare plans for biodiversity conservation.

COURSE CODE & COURSE NAME	A12 – RESEARCH METHODOLOGY	
COURSE OUTCOMES (COs)	CO.1.	Understand the scope of research.
	CO.2.	Study the terms and concepts associated with Research.
	CO.3.	Study the methods of data collection.
	CO.4.	Analyze the collected data.
	CO.5.	Prepare manuscripts.
	CO.6.	Know the types of publications.
	CO.7.	Prepare review papers and journal articles.
	CO.8.	Study the methods of data presentation, interpretation and charting.
	CO.9.	Study the methods of statistical analysis.

	CO 10.	Undertake independent research.
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COURSE CODE & COURSE NAME	AQC4 B07 – BRACKISHWATER AQUACULTURE & MARICULTURE	
COURSE OUTCOMES (COs)	CO.1.	Basic biology of the fish species used for costal aquaculture and mariculture.
	CO.2.	Introduction to various aspects of brackish water aquaculture practices.
	CO.3.	Basic idea about various mariculture practices in India and abroad.
	CO.4.	Ecofriendly and sustainable aquaculture incorporating CRZ and AAI.
	CO.5.	Traditional brackishwater fish cultivation practices in Indian states.
	CO.6.	Crustacean culture in brackishwater, both on a commercial and experimental basis.
	CO.7.	Problems faced during culturing in open waters and their solutions.
	CO.8.	Cultivation technology including nursery rearing of some brackishwater finfishes.
	CO.9.	Ample technical guidance to construct an ideal brackish water farm.
	CO 10.	Knowledge on artificial pearl production, current status and future prospects.

COURSE CODE & COURSE NAME	A13 – Natural Resources Management.	
COURSE OUTCOMES (COs)	CO.1.	Define natural Resources.
	CO.2.	Differentiate between conventional and non-conventional resources.
	CO.3.	Define all types of resources.
	CO.4.	Map the resources distribution.
	CO.5.	Know the significance of resources.
	CO.6.	Understand various types of energy.
	CO.7.	List the relevance of resource conservation.
	CO.8.	Study the methods of resource conservation.

COURSE CODE & COURSE NAME	A14 – INTELLECTUAL PROPERTY RIGHTS	
	CO.1.	Relevance of IPR in modern society.
	CO.2.	Genesis and development of IPR both in India and abroad.
	CO.3.	Better exposure on patent system in India including filing.
	CO.4.	An insight into copyright and rights covered.

COURSE OUTCOMES (COs)	CO.5.	Types of trademarks and its registration.
	CO.6.	Geographical indications in IPR.
	CO.7.	Industrial designs and its protection.
	CO.8.	Role of IPR in protecting biotechnological inventions.
	CO.9.	International organizations associated with IPR.
	CO 10.	Protection of plant breeders' rights and IPR.

COURSE CODE & COURSE NAME	AQC5 B09 – HATCHERY TECHNOLOGY OF AQUATIC ORGANISMS	
COURSE OUTCOMES (COs)	CO.1.	Creation of basic knowledge on the operation of commercial hatcheries.
	CO.2.	Current methodology and various techniques of commercial seed production.
	CO.3.	Design, development and operation of carp hatchery including hypophysation.
	CO.4.	Economically important species for aquaculture, current status and future prospects.
	CO.5.	Knowledge on new techniques for seed production like carp, crustaceans and molluscs.
	CO.6.	Quarantine and disease management in fish hatcheries.
	CO.7.	Types of feed in hatchery operation and their production.
	CO.8.	Sound knowledge for establishing a fish hatchery, backyard or commercial.
	CO.9.	Types of quality assessment methods in hatchery operation.
	CO 10.	Different types of chemicals used in transportation including packing.

COURSE CODE & COURSE NAME	AQC5 B10 – FISH PROCESSING TECHNOLOGY & QUALITY CONTROL	
COURSE OUTCOMES (COs)	CO.1.	Spoilage of fish and post harvest handling.
	CO.2.	Use of refrigerated and chilled seawater for preservation.
	CO.3.	Principles of freezing and canning of fish products.
	CO.4.	Knowledge on various preservation techniques.
	CO.5.	Importance of quality assurance in the seafood industry like HACCP.
	CO.6.	Principles of Drying, Smoking and Freeze-drying in the seafood industry.
	CO.7.	Modern methods of preservation.
	CO.8.	Risk factors and avoidance of hazards in the seafood industry.
	CO.9.	Quality standards in India and major importing countries like USA, Japan and EU.
	CO 10.	Packing and export of seafood from India.

COURSE CODE & COURSE NAME	AQC5 B11 – FISHING METHODS, FISHERY BY PRODUCTS & VALUE ADDED FISHERY PRODUCTS	
COURSE OUTCOMES (COs)	CO.1.	Different types of fishing crafts in Indian and world fisheries.
	CO.2.	Different types of boat building materials.
	CO.3.	Various types of gears used in fishery.
	CO.4.	Active and passive fishing gears.
	CO.5.	Destructive fishing methods in world fisheries.
	CO.6.	Fish aggregating devices and its application.
	CO.7.	Fish finding devices and conservation methods.
	CO.8.	FAO and CCRF
	CO.9.	Different types of fishery byproducts.
	CO 10.	Value addition in fishery products.

COURSE CODE & COURSE NAME	AQC5 B12 – BREEDING & REARING OF AQUARIUM FISHES	
COURSE OUTCOMES (COs)	CO.1.	Awareness on the potential ornamental fishes and their breeding habits
	CO.2.	Nutritional requirement of aquarium fish and its management.
	CO.3.	Traditional and commercial production of ornamental fishes.
	CO.4.	An idea about indigenous ornamental fishes.
	CO.5.	Knowledge on equipment used in aquariums.
	CO.6.	Knowledge on novel designs of aquarium keeping and maintenance.
	CO.7.	Importance of water quality and other parameters in aquarium keeping.
	CO.8.	Principle of management of diseases in aquarium fishes.
	CO.9.	Knowledge on mass production of aquarium plants.
	CO 10.	Studies on marine ornamental fishes and their breeding strategies.

COURSE CODE & COURSE NAME	AQC5 B13 – AQUACULTURE ENGINEERING & BIostatISTICS	
COURSE OUTCOMES (COs)	CO.1.	Familiarization with engineering aspects of aqua farms and hatcheries.
	CO.2.	Knowledge on statistics as applied to biology.
	CO.3.	Creating knowledge on different aspects of designing culture systems.
	CO.4.	Principles of design and construction of different farms.
	CO.5.	Knowledge on surveying related to aquaculture.
	CO.6.	Awareness on the equipment used in aqua farms, its maintenance and operation.
	CO.7.	Designing of commercial farms and hatcheries.

	CO.8.	Development of skills to analyze different methods of biological data collection.
	CO.9.	In depth analyses of biological data and to derive conclusions.
	CO 10.	Equipped to test the significance of results obtained.

COURSE CODE & COURSE NAME	AQC6 B17 – FISH GENETICS, BIOTECHNOLOGY & BIOINFORMATICS	
COURSE OUTCOMES (COs)	CO.1.	Development of basic idea about the principles of genetics and depict the hereditary mechanism in cultured species
	CO.2.	Acquaintance with the state of the art techniques in biotechnology as applied to the aquaculture industry.
	CO.3.	Familiarization with biological databases.
	CO.4.	Principles and procedures on genetic selection of fish.
	CO.5.	Biotechnological approach in genetic studies in fishes.
	CO.6.	Studies on new techniques of gene manipulation.
	CO.7.	Knowledge on biotechnological tools in aquaculture.
	CO.8.	Application of selective hybridization in fishes.
	CO.9.	Studies on the aspects like sex reversal to improve yield in aquaculture.
	CO 10.	Role of genetics in species identification.

COURSE CODE & COURSE NAME	AQC6 B18 – FISH PATHOLOGY & HEALTH MANAGEMENT	
COURSE OUTCOMES (COs)	CO.1.	Different types of Protozoan diseases in fishes and their management.
	CO.2.	Different types of Fungal diseases in fishes and their management.
	CO.3.	Different types of Bacterial diseases in fishes and their management.
	CO.4.	Different types of Viral diseases in fishes and their management.
	CO.5.	Nutritional deficiency diseases and their management.
	CO.6.	Studies on fish immunology and fish vaccination.
	CO.7.	Genetically and environmentally induced diseases in fish.
	CO.8.	Different types of diagnostic tools in fish disease management.
	CO.9.	Role of prophylaxis in fish disease management.
	CO 10.	Probiotics in fish disease management.

COURSE CODE & COURSE NAME	AQC6 B19 – FISHERY MICROBIOLOGY	
COURSE OUTCOMES (COs)	CO.1.	History and contributions of microbiology.
	CO.2.	Study on various microbes like virus, bacteria, fungus etc.
	CO.3.	Application of light and electron microscopy in microbiology.
	CO.4.	Prokaryotic and eukaryotic cells and their distribution.
	CO.5.	Strategies of reproduction in microbes.
	CO.6.	Isolation and culture techniques of bacteria.
	CO.7.	Role of aquatic microbes in pond productivity.
	CO.8.	Health significant bacteria in seafood.
	CO.9.	Food spoilage and its management.
	CO 10.	Biogeochemical cycles – N, P and S cycles.

COURSE CODE & COURSE NAME	AQC6 B20 – FISHERIES ECONOMICS, BUSINESS ADMINISTRATION, EXTENSION & TOURISM	
COURSE OUTCOMES (COs)	CO.1.	An overall idea of economic principles applicable in fisheries.
	CO.2.	Theories of production, demand, supply and return in terms of fishery industry.
	CO.3.	Classification of companies and its management.
	CO.4.	Concepts and theories of business applicable in fisheries industry.
	CO.5.	Management strategies in marketing, finance, production, administration and industrial relations.
	CO.6.	Types of market and fish marketing.
	CO.7.	Economic analysis of business organizations.
	CO.8.	Cost and earnings from aquaculture systems.
	CO.9.	Co-operative societies and their role in the fisheries sector.
	CO 10.	Extension and role of tourism for promoting economic growth in the fisheries sector.

II. OPEN COURSES FOR OTHER STREAMS (SEMESTER-V) & CORE ELECTIVE COURSES (SEMESTER-VI)

COURSE CODE & COURSE NAME	AQC5 D01 –ORNAMENTAL FISH CULTURE	
COURSE	CO.1.	Get an overview on the common ornamental fishes and their breeding habits.
	CO.2.	Idea about the breeding and rearing of ornamental fishes.
	CO.3.	Basic understanding of aquarium setting and aquarium accessories involved.
	CO.4.	Equipped to independently operate an ornamental fish breeding unit.

OUTCOMES (COs)	CO.5.	An overall idea about the materials used in the aquarium industry.
	CO.6.	To get an extra income through part time business as aquarium fish breeders and exporters.
	CO.7.	Awareness on the occurrence of major ornamental fish diseases and its management.
	CO.8.	Awareness about novel diagnostic tools in fish diseases.
	CO.9.	An idea regarding export value of ornamental fishes.
	CO 10.	Preparation of live and artificial feeds for ornamental fishes.

COURSE CODE & COURSE NAME	AQC5 D02 – VALUE ADDED FISHERY PRODUCTS	
COURSE OUTCOMES (COs)	CO.1.	Generating knowledge on different fish based value added products.
	CO.2.	Knowledge on various processes involved in fish and shellfish value addition.
	CO.3.	Awareness on by-products originating from fishes and their importance.
	CO.4.	Studies on fish mince based products and coated fishery products.
	CO.5.	To make an extra income through production of value added products.
	CO.6.	Principles, practices and significance of value addition in fish products.
	CO.7.	Knowledge on the equipment used for the production of different value added fishery products.
	CO.8.	An outlook regarding quality evaluation of the products.
	CO.9.	To prepare various products from fishes, packing and quality evaluation.
	CO 10.	Causes of spoilage of fish and its prevention.

COURSE CODE & COURSE NAME	AQC5 D03 – FISH PRESERVATION TECHNIQUES	
COURSE OUTCOMES (COs)	CO.1.	Post harvest fish handling techniques.
	CO.2.	Drying, smoking, canning and freeze-drying of fishery products.
	CO.3.	Knowledge about the storage and marketing of fishery products.
	CO.4.	Knowledge about advanced preservation techniques.
	CO.5.	Various opportunities related to the seafood industry.
	CO.6.	Studies on advanced techniques used in the processing industry.
	CO.7.	Basic requirements needed onboard for handling, storing and preserving fish.
	CO.8.	Knowledge on the major spoilage causing organisms in seafood and quality control.
	CO.9.	Information on waste management of fish or shellfish waste by converting them into valuable by-products.
	CO 10.	Knowledge on the need of basic requirements in fish outlets to retain quality of the fish or shellfish

COURSE CODE & COURSE NAME	AQC6 B24 (E01) – FISH BIOCHEMISTRY & NUTRITION	
COURSE OUTCOMES (COs)	CO.1.	Ability to manage feed and feeding in aquaculture farms.
	CO.2.	Thorough knowledge on feeding physiology, feed composition.
	CO.3.	Knowledge on aqua-feed production technology.
	CO.4.	Nutritional requirements of fish and production and supply of balanced diet.
	CO.5.	Knowledge on different feed components and its physiological significance.
	CO.6.	Knowledge on anti-nutritional factors present in feeds and its elimination.
	CO.7.	Knowledge on advanced techniques in feed preparation.
	CO.8.	Rationing and feeding strategy for optimum utilization of feed and better output.
	CO.9.	Importance of live feeds in fish nutrition.
	CO 10.	Estimations of feed capacity and animal capacity for better production, e.g. FCR.

COURSE CODE & COURSE NAME	AQC6 B24 (E02) – LIMNOLOGY & OCEANOGRAPHY	
COURSE OUTCOMES (COs)	CO.1.	Development of awareness on marine and freshwater systems.
	CO.2.	Exposure on common phyto and zooplanktons and benthos in freshwater.
	CO.3.	Ecological subdivisions of sea, temperature and salinity distributions in sea.
	CO.4.	Sound in sea- SOFAR channel and shadow zone.
	CO.5.	Currents in oceans and their effects.
	CO.6.	Concepts of water mass and thermocline.
	CO.7.	Generation and types of waves.
	CO.8.	Oceanographic instruments and their operation.
	CO.9.	Exploration and exploitation of major wealth from the ocean.
	CO 10.	Fisheries oceanography, application of GIS in fisheries and Coastal Zone Management.

COURSE CODE & COURSE NAME	AQC6 B23 (E03) – ENDOCRINOLOGY & REPRODUCTIVE BIOLOGY	
COURSE OUTCOMES (COs)	CO.1.	Major endocrine glands and functions in fish and shellfish.
	CO.2.	Reproductive biology of fish and shellfish.
	CO.3.	Anatomical exploration of sex organs in fish and shellfish.
	CO.4.	Principles and practice of induced breeding.
	CO.5.	Sex reversal and sexual dimorphism in fishes.
	CO.6.	Control of reproduction by hormones.
	CO.7.	Parental care in fishes.
	CO.8.	Fecundity in finfishes and shellfishes.

	CO.9.	Behavioral changes during reproduction in fishes.
	CO 10.	Eyestalk ablation as a technique of induced breeding in crustaceans and use of gonadotropic hormones in finfish.

III. PRACTICALS (CORE)

COURSE CODE & COURSE NAME	AQC1 B02 (P) – BIOLOGY OF FISHES	
COURSE OUTCOMES (COs)	CO.1.	Knowledge on biological specimen preparation.
	CO.2.	Morphometric measurements of fish age related studies.
	CO.3.	Separation and mounting of fish scales and age related assessments.
	CO.4.	Dissection studies of the digestive system of fish and shrimp.
	CO.5.	Different types of fins in fish relate the same to swimming behavior.
	CO.6.	Mounting of appendages of prawn and comparative study on their functions individually.
	CO.7.	Gut content analysis and correlate the same to the feeding behavior in fishes.
	CO.8.	Determination of ova diameter and assessing the reproductive status of female fish.
	CO.9.	Estimation of gonado-somatic index to find out ripeness of fish.
	CO 10.	Length-weight analysis of fish and its application in fishery science.

COURSE CODE & COURSE NAME	AQC2 B02 (P) – WATER & SOIL QUALITY PARAMETERS	
COURSE OUTCOMES (COs)	CO.1.	Exposure on chemical analyses.
	CO.2.	Preparation of chemicals and weighing.
	CO.3.	Refractometer and its use in determination of salinity.
	CO.4.	Digital pH meter and its use in determination of soil and water pH.
	CO.5.	Titrimetric experiments to determine alkalinity and dissolved oxygen.
	CO.6.	Calculations on lime requirements in ponds.
	CO.7.	Water transparency tests using Secchi disc and turbidimeter.
	CO.8.	Estimation of primary productivity by dissolved oxygen method.
	CO.9.	Analysis of grain size of different soil types.
	CO 10.	Estimation of organic carbon content in pond soil.

COURSE CODE & COURSE NAME	AQC3 B06 (P) –TAXONOMY, FISHERIES & FISHING TECHNOLOGY	
	CO.1.	Identification of fishes upto species level.
	CO.2.	Identification of commercially important prawns and mollusks.
	CO.3.	Analyses of different fish catch data and statistical derivation of their results and expression.

COURSE OUTCOMES (COs)	CO.4.	Studies on different fishing gears.
	CO.5.	Deck arrangements and mechanical supports for fishing in different fishing vessels.
	CO.6.	Classification and identification of fishing accessories.
	CO.7.	Studies on live and artificial baits.
	CO.8.	Studies on modern fishing gears and synthetic fibers.
	CO.9.	Classification and identification of fish hooks and knots.
	CO 10.	Exposure on fish detection devices.

COURSE CODE & COURSE NAME	AQC4 B08 (P) – AQUAFARM MANAGEMENT	
COURSE OUTCOMES (COs)	CO.1.	Identification of cultivable finfishes and shellfishes.
	CO.2.	Collection and identification of different phyto and zooplanktons from ponds.
	CO.3.	Different types of live feed preparation.
	CO.4.	Aquarium making, setting and its maintenance.
	CO.5.	Eradication methods of weeds, insects and predatory fishes from ponds.
	CO.6.	Preparation of different artificial pellet feeds for fishes.
	CO.7.	Methodology for calculation of earthwork in aquaculture ponds.
	CO.8.	Exposure of various equipment/instruments in farm and hatchery.
	CO.9.	Familiarization and identification of different larval stages of shrimp.
	CO 10.	Use of haemocytometer in enumeration of micro algae.

COURSE CODE & COURSE NAME	AQC5 B14 (P) – BREEDING & REARING OF AQUARIUM FISHES	
COURSE OUTCOMES (COs)	CO.1.	Acquiring knowledge on ornamental fish production and aquarium keeping.
	CO.2.	Develop entrepreneurship on ornamental fish breeding and rearing.
	CO.3.	Getting hands on exposure to students on various aspects of ornamental fish farming.
	CO.4.	Makes students able to identify commonly used aquarium fishes.
	CO.5.	Develops students' ability to construct aquariums with innovative designs.
	CO.6.	Develops an insight of the mechanical equipment used along with the aquarium.
	CO.7.	Develops a student's ability to identify the major disease by merely noticing symptoms.
	CO.8.	Develop ability to breed fishes in controlled environments.
	CO.9.	Develops knowledge in maintaining marine aquariums.
	CO 10.	Makes them self-sufficient to maintain ornamental fish farms.

COURSE CODE & COURSE NAME	AQC5 B15 (P) – FISH PROCESSING TECHNOLOGY	
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COURSE OUTCOMES (COs)	CO.1.	Basic idea on the fish processing techniques and quality control,
	CO.2.	Empowering students with present day technologies involved in fish processing.
	CO.3.	Firm understanding on the various quality requirements in the seafood industry.
	CO.4.	Ability to determine the moisture content in products.
	CO.5.	Get familiarized with the freezing equipment and their working.
	CO.6.	Develops skills in filleting fishes of different types.
	CO.7.	Makes them sufficient to develop innovative fishery products.
	CO.8.	Develops entrepreneurship skills by developing innovative strategies related to fish products.
	CO.9.	Makes students efficient to evaluate quality of fish through organoleptic evaluation.
	CO 10.	Develops their ability to convert low valued fishes into high market valued items.

COURSE CODE & COURSE NAME	AQC6 B21 (P) - BIostatISTICS & COMPUTER APPLICATIONS	
COURSE OUTCOMES (COs)	CO.1.	Thorough understanding of components of computers.
	CO.2.	Formatting word document using mail merge.
	CO.3.	Exposure on computer software and its use.
	CO.4.	Fisheries data collection from public domain and its study.
	CO.5.	Statistical analysis using excel.
	CO.6.	Data analysis by ANOVA, t-test Chi-square test and F-test.
	CO.7.	Correlation and regression analysis of fishery data by computer program or software.
	CO.8.	Graphical representations of the data analysis by computer.
	CO.9.	Familiarization of different fishery related websites like FISHBASE.
	CO 10.	Analysis of biological data using statistical tools and its representation using appropriate computer tool.

COURSE CODE & COURSE NAME	AQC6 B22 (P) – FISHERY MICROBIOLOGY & PATHOLOGY	
COURSE OUTCOMES (COs)	CO.1.	Studies for identifying a diseased fish from a healthy one.
	CO.2.	Exposure on observing clinical symptoms, reporting and making inferences.
	CO.3.	Different types of sterilization techniques.
	CO.4.	Gram staining of bacteria.
	CO.5.	Exposure to light microscopy.
	CO.6.	Different types of bacterial inoculation and cultivation techniques.
	CO.7.	Bacterial media preparation for various bacteria.
	CO.8.	Identification of common fish parasites.
	CO.9.	Enumeration of bacteria, e.g. TPC.

	CO 10.	Maintaining a microbiology lab.
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Name of the programme	B.Sc Botany
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out comes	Name of the course	Course outcomes
<p>PO.1. Critical Thinking - Take informed actions after identifying the assumptions that frame students' thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at their ideas and decisions</p> <p>PO.2. Problem Solving- Understand and solve problems of relevance to society to meet the specified needs using the knowledge, skills and attitudes acquired</p> <p>PO.3. Effective Communication - Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by</p>	BOT1B01T Angiosperm Anatomy, Reproductive Botany and Palynology	<p>CO.1. Demonstrate the ability to differentiate plant organs by observing anatomical features.</p> <p>CO.2. Understand the non-living inclusions of plants and their significance.</p> <p>CO.3. Differentiate tissues and their functions.</p> <p>CO.4 Illustrate primary and secondary (normal and anomalous) structures of plant organs.</p> <p>CO.5 Explain various developmental details of angiosperms.</p> <p>CO.6 Realize the significance and applications of palynology</p>
	BOT2B02T Microbiology, Mycology, Lichenology and Plant Pathology	<p>CO.1. Understand basics of microbial life and their economic importance.</p> <p>CO.2. Develop general awareness on the diversity of microorganisms, fungi and lichens.</p> <p>CO.3. Analyze the ecological role played by bacteria, fungi and lichens</p> <p>CO.4. Identify plant diseases and find control measures.</p> <p>CO.5 Realize the significance of plant diseases as far as crop production is concerned.</p>
	BOT3B03T Phycology, Bryology and Pteridology	<p>CO.1. Appreciate the diversity and evolutionary significance of lower plant groups.</p> <p>CO.2 Classify algae, bryophytes and pteridophytes.</p> <p>CO.3 Understand the economic and ecological importance of lower plant groups.</p>
	BOT4B04T Methodology and Perspectives in Plant Science	<p>CO.1. Develop scientific temper and problem solving skills.</p> <p>CO.2. Undertake scientific projects and prepare project reports</p> <p>CO.3. Summarize, organize and display quantitative data and derive conclusions</p> <p>CO.4 Prepare permanent slides, applying the histochemical techniques</p>

<p>connecting people, ideas, books, media and technology</p> <p>PO.4. Effective Citizenship - Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering</p> <p>PO.5. Environment and Sustainability - Understand the issues of environmental contexts and sustainable development.</p> <p>PO.6. Self-directed and Life-long Learning - Acquire the ability to engage in independent and lifelong learning in the broadest context of socio-technological changes</p>	<p>BOT4B05P – Practical I</p>	<p>CO.1. To identify different types of Tissues, vascular bundles and stomata</p> <p>CO.2. To study the primary structure of stem, root, and leaf of dicots and monocots</p> <p>CO.3. To study the normal and anomalous secondary growth in monocots and dicots</p> <p>CO.4. To acquire basic skills of pH determination and preparation of solutions</p> <p>CO.5 Work out the problems related to mean, median, mode, standard deviation and Chi-square tests</p> <p>CO.6. To study the data representation methods viz. histograms, pie diagram etc</p> <p>CO.7. To acquire the method of simple staining and Gram staining of Curd</p> <p>CO.8. To identify various plant diseases, pathogen and symptoms and control measures</p> <p>CO.9. To familiarize the technique of algal herbariums.</p> <p>CO 10. To identify different lower plants like Algae, Bryophytes and Pteridophytes</p>
	<p>BOT5B06T Gymnosperms, Palaeobotany, Phytogeography and Evolution</p>	<p>CO.1. Understand the role of gymnosperms as a connecting link between pteridophytes and angiosperms</p> <p>CO.2. Appreciate the process of organic evolution.</p> <p>CO.3. Realize the importance of fossil study.</p> <p>CO.4. Understand the climatic conditions of the past and realize the changes happened</p> <p>CO.5. Recognize the phytogeographic zones of India.</p>
	<p>BOT5B07T Angiosperm Morphology and Systematics</p>	<p>CO.1. Appreciate the diverse morphology of angiosperms.</p> <p>CO.2. Identify and classify plants based on taxonomic principles.</p> <p>CO.3. Make scientific illustrations of vegetative and reproductive structures of plants.</p> <p>CO.4. Develop the skill of scientific imaging of plants.</p> <p>CO.5. Realize the importance of field study.</p> <p>CO.6. Change their attitude towards over exploitation of rare/endemic plants.</p>

	BOT5B08T Tissue Culture, Horticulture, Economic Botany and Ethnobotany	CO.1. Critically evaluate the advantages of tissue culture and horticulture over conventional methods of propagation. CO.2. Apply various horticultural practices in the field. CO.3. Experiment on the subject and try to become entrepreneurs. CO.4. Identify the economically important plants
	BOT5B09T Cell Biology and Biochemistry	CO.1. Appreciate the ultrastructure of a plant cell. CO.2. Enumerate the functions of each cell organelle. CO.3. Draw and explain the structure of biomolecules.
	Open Course BOT5D02T Applied Botany	CO.1. Develop general awareness on applied aspects of Plant science. CO.2. Realize the role of plants in everyday life. CO.3. Apply vegetative propagation methods in everyday life. CO.4..Realize the economic importance of plants
	BOT6B10T Genetics and Plant Breeding	CO.1. Appreciate the facts behind heredity and variations. CO.2. Understand the basic principles of inheritance. CO.3. Solve problems related to classical genetics. CO.4. Predict the pattern of inheritance. CO.5. Understand various plant breeding techniques. CO.6. Realize the role of plant breeding in increasing crop productivity
	BOT6B11T. Biotechnology, Molecular Biology and Bioinformatics	CO.1. Analyze the role of biotechnology in daily life. CO.2. Understand the basic aspects of bioinformatics. CO.3. Explain the concepts in molecular biology.
	BOT6B12T Plant Physiology and Metabolism	CO.1. Identify the physiological responses of plants. CO.2. Analyze the role of external factors in controlling the physiology of plants. CO.3. Explain the metabolic processes taking place in each cell. CO.4 Appreciate the energy fixing and energy releasing processes taking place in cells
	BOT6B13T Environmental Science	CO.1. Realize the importance of ecological studies. CO.2. Develop environmental concern in all their actions and practise Reduce, Reuse and Recycle. CO.3. Try to reduce pollution and environmental hazards and change their attitude towards throwing away plastic wastes.

		<p>CO.4. Spread awareness of the need for conservation of biodiversity and natural resources.</p> <p>5. Analyze the reasons for climate change and find out ways to combat it.</p>
	<p>Elective BOT6B14T Genetics and Crop Improvement</p>	<p>CO.1. Understand various techniques employed for increasing crop productivity.</p> <p>CO.2. Identify diseases affecting crop plants.</p> <p>CO.3. Attain general awareness on various crop research stations of the country</p>
	<p>Practical II BOT6B15P</p>	<p>CO.1. To understand the morphology and Anatomy of gymnosperm materials like Cycas, Pinus and Gnetum</p> <p>CO.2. To understand the phytogeographical zones of India and World</p> <p>CO.3. To understand different types of inflorescences and fruits mentioned in the syllabus.</p> <p>CO.4. To observe the morphological features of Dicot and Monocot plants mentioned in the syllabus</p> <p>CO.5 To observe and study the taxonomic features of two members from each family mentioned in the syllabus.</p> <p>CO.6 To identify various stages of mitosis and meiosis</p> <p>CO.7 To observe different types of special chromosomes</p> <p>CO.8 To analyze qualitatively carbohydrates and proteins</p> <p>CO.9. To observe different types of Placentation</p> <p>CO 10. To identify different economically and ethnobotanical important plants.</p>
	<p>Practical III BOT6B16P</p>	<p>CO.1. To work out problems related to monohybrid cross, Dihybrid cross, testcross and epistasis</p> <p>CO.2. To work out problems related to chromosome mapping.</p> <p>CO.3. To learn the technique of emasculation and hybridization.</p> <p>CO.4. To learn the various experiments related to plant physiology.</p> <p>CO.5 To learn different experiments related to plant growth</p> <p>CO.6 To learn the basic aspects of bioinformatics.</p> <p>CO.7 To learn extraction of DNA from plant tissue</p> <p>CO.8 To Familiarizing with the different databases</p> <p>CO.9. To understand morphological and anatomical characteristics of plant groups</p> <p>CO 10. To understand about various types of plant communities</p>

BSc PHYSICS**Programme Specific Outcomes**

PSO1: Understand the basic concepts of fundamentals of mechanics, properties of matter and electrodynamics

PSO2: Understand the theoretical basis of quantum mechanics, relativistic physics, nuclear physics, optics, spectroscopy, solid state physics, astrophysics, statistical physics, photonics and thermodynamics

PSO3: Understand and apply the concepts of electronics in the designing of different analog and digital circuits

PSO4: Understand the basics of computer programming and numerical analysis

PSO5: Apply and verify theoretical concepts through laboratory experiments

Name of the programme and out comes	Name of the course	Course outcomes
BSc Physics	1. PHY1 B01: MECHANICS – I	1. Understand and apply the basic concepts of Newtonian Mechanics to Physical Systems 2. Understand and apply the basic idea of work-energy theorem to physical systems 3. Understand and apply the rotational dynamics of rigid bodies
	2. PHY 2 B02: MECHANICS – II	1. Understand the features of non-inertial systems and fictitious forces 2. Understand and analyze the features of central forces with respect to planetary forces 3. Understand the basic ideas of Harmonic Oscillations 4. Understand the analyze the basic concepts of wave motion
	3. PHY3B03: ELECTRODYNAMICS I	1. Understand and apply the fundamentals of vector calculus 2. Understand and analyze the electrostatic properties of physical systems 3. Understand the mechanism of electric field in matter.

		<ol style="list-style-type: none"> 4. Understand and analyze the magnetic properties of physical systems 5. Understand the mechanism of magnetic field in matter.
	4. PHY4B04: ELECTRODYNAMICS II	<ol style="list-style-type: none"> 1. Understand the basic concepts of electrodynamics 2. Understand and analyze the properties of electromagnetic waves 3. Understand the behavior of transient Currents 4. Understand the basic aspects of ac circuits 5. Understand and apply electrical network theorems
	5.PHY5B06: COMPUTATIONAL PHYSICS	<ol style="list-style-type: none"> 1.Understand the Basics of Python programming 2. Understand the applications of Python modules 3. Understand the basic techniques of numerical analysis 4. Understand and apply computational techniques to physical problems
	6. PHY5B07: QUANTUM MECHANICS	<ol style="list-style-type: none"> 1. Understand the particle properties of electromagnetic radiation 2. Describe Rutherford – Bohr model of the Atom 3. Understand the wavelike properties of Particles 4. Understand and apply the Schrödinger equation to simple physical systems 5. Apply the principles of wave mechanics to the Hydrogen atom
	7. PH5B08: OPTICS	<ol style="list-style-type: none"> 1. Understand the fundamentals of Fermat's principles and geometrical optics 2. Understand and apply the basic ideas of interference of light 3. Understand and apply the basic ideas of diffraction of light 4. Understand the basics ideas of polarization of light

		5. Describe the basic principles of holography and fiber optics
	8. PHY5B09: ELECTRONICS (ANALOG & DIGITAL)	<ol style="list-style-type: none"> 1. Understand the basic principles of rectifiers and dc power supplies 2. Understand the principles of transistor 3. Understand the working and designing of transistor amplifiers and oscillators 4. Understand the basic operation of Op – Amp and its applications 5. Understand the basics of digital electronics
	9. PHY6B10: THERMODYNAMICS	<ol style="list-style-type: none"> 1. Understand the zero and first laws of Thermodynamics 2. Understand the thermodynamics description of the ideal gas 3. Understand the second law of thermodynamics and its applications 4. Understand the basic ideas of entropy 5. Understand the concepts of thermodynamic potentials and phase transitions
	10. PHY6B11: STATISTICAL PHYSICS, SOLID STATE PHYSICS, SPECTROSCOPY & PHOTONICS	<ol style="list-style-type: none"> 1. Understand the basic principles of statistical physics and its applications 2. Understand the basic aspects of crystallography in solid state physics 3. Understand the basic elements of Spectroscopy 4. Understand the basics ideas of microwave and infra red spectroscopy 5. Understand the fundamental ideas of photonics
	11. PHY6B12: NUCLEAR PHYSICS AND PARTICLE PHYSICS	<ol style="list-style-type: none"> 1. Understand the basic aspects of nuclear structure and fundamentals of radioactivity 2. Describe the different types of nuclear reactions and their applications 3. Understand the principle and working of particle detectors 4. Describe the principle and working of particle accelerators 5. Understand the basic principles of

		elementary particle physics
	12. PHY6B13: RELATIVISTIC MECHANICS AND ASTROPHYSICS	<ol style="list-style-type: none"> 1. Understand the fundamental ideas of special relativity 2. Understand the basic concepts of general relativity and cosmology 3. Understand the basic techniques used in Astronomy 4. Describe the evolution and death of stars 5. Describe the structure and classification of galaxies
	13. PHY6B14 (EL2): NANOSCIENCE AND TECHNOLOGY	<ol style="list-style-type: none"> 1. Understand the elementary concepts of Nanoscience 2. Understand the electrical transport mechanisms in nanostructures 3. Understand the applications of quantum mechanics in nanoscience 4. Understand the fabrication and characterization techniques of nanomaterials 5. Enumerate the different applications of nanotechnology
	PHY4B05: PRACTICAL I	<ol style="list-style-type: none"> 1. Apply and illustrate the concepts of properties of matter through experiments 2. Apply and illustrate the concepts of electricity and magnetism through experiments 3. Apply and illustrate the concepts of optics through experiments 4. Apply and illustrate the principles of electronics through experiments
	PHY6B15: PRACTICAL II	<ol style="list-style-type: none"> 1. Apply and illustrate the concepts of properties of matter through experiments 2. Apply and illustrate the concepts of electricity and magnetism through experiments 3. Apply and illustrate the concepts of optics And spectroscopy through experiments 4. Apply and illustrate the principles of heat through experiments

	PHY6B16: PRACTICAL III	<ol style="list-style-type: none"> 1. Apply and illustrate the principles of semiconductor diode and transistor through experiments 2. Apply and illustrate the principles of transistor amplifier and oscillator through experiments 3. Apply and illustrate the principles of digital electronics through experiments 4. Analyze and apply computational techniques in Python programming
	PHY6B17(P) – PROJECT	<ol style="list-style-type: none"> 1. Understand research methodology 2. Understand and formulate a research Project 3. Design and implement a research project 4. Identify and enumerate the scope and limitations of a research project
	OPEN COURSE PHY5D01(1): NON CONVENTIONAL ENERGY SOURCES	<ol style="list-style-type: none"> 1. Understand the importance of non conventional energy sources 2. Understand basic aspects of solar energy 3. Understand basic principles of wind energy Conversion 4. Understand the basic ideas of geothermal and biomass energy and recognize their merits and demerits 5. Understand the basic ideas of oceans and chemical energy resources and recognize their merits and demerits
	PHY1C01: Properties of matter & Thermodynamics	<ol style="list-style-type: none"> 1. Understand the basic principles of Elasticity 2. Understand the concepts of surface tension 3. Understand the aspects of viscosity 4. Understand the basic principles of thermodynamics
	PHY2C02: Optics, Laser & Electronics	<ol style="list-style-type: none"> 1. Understand the basic concepts of interference and diffraction 2. Understand the concepts of polarization 3. Understand the fundamentals of electronics 4. Understand the important principles of laser physics

	PHY3C03: Mechanics, Relativity, Waves and Oscillations	<ol style="list-style-type: none"> 1. Understand the basic ideas of frames of reference and the principles of conservation of energy and momentum 2. Understand the concepts of relativity 3. Understand the basic ideas of oscillations and waves 4. Understand the basic ideas of modern physics
	PHY4C04: Electricity, Magnetism and Nuclear physics	<ol style="list-style-type: none"> 1. Understand the basic ideas of static and current electricity 2. Understand the concepts of magnetism 3. Describe the fundamental concepts of nuclear physics 4. Understand the basic ideas of cosmic rays and elementary particles

BSc MATHEMATICS

PROGRAMME SPECIFIC OUTCOME

The students will be able to

Demonstrate basic manipulative skills in Algebra , Geometry , Trigonometry and beginning calculus Demonstrate proficiency in writing proofs

Investigate and apply mathematical problems and solutions in a variety of contexts related to Science , Technology , Business and Industry and illustrate these solutions using symbolic, numeric or graphical methods

Communicate mathematical ideas both orally and in writing

Apply technology tools to solve the problems

Apply critical thinking and communication skills to solve applied problems

Perform abstract Mathematical reasoning

Learn independently

Analytical and theoretical skills to model and solve mathematical problems

Develops skills for lifelong learning

COURSE OUTCOME

MAT 1B 01 - FOUNDATIONS OF MATHEMATICS

Students will be able to

Solve financial mathematical problems, exponential growth and decay problems.

Learn how to understand and how to construct correct mathematical arguments.

Distinguish between valid and invalid mathematical arguments.

The ability to apply formal techniques and systematically codify deductively valid arguments.

The ability to translate natural language sentences into precise symbolic form and rigorously evaluate standard inferences.

Study the fundamental discrete structure on which all other discrete structures are built, namely, the set. Identify sets, different properties of sets, set operation and Set identities.

Understand the different methods for representing the relationship between sets.

Apply the different properties of injections, surjections, bijections, compositions, and inverse functions.

Understand how the equivalence classes of an equivalence relation partition a set into disjoint nonempty subsets.

Obtain a relation that is reflexive, anti symmetric, and transitive. These are properties that characterize relations used to order the elements of sets.

MAT 2B 02 -CALCULUS

Students will be able to

Apply the techniques of multivariable calculus to problems in Mathematics , Physical Sciences, Engineering , Commerce and Social Sciences

Apply optimization techniques to the problems in Physical modeling , Economics and Population dynamics

Solve system of linear equations by use of matrix.

Compute limits, derivatives ,definite and indefinite integrals of algebraic, logarithmic and exponential functions

Analyze functions and their graphs as informed by limits and derivatives.

Calculate limits in indeterminate forms by a repeated use of L' Hospital's rule

MAT 3B 03 - CALCULUS AND ANALYTIC GEOMETRY

Students will be able to

Will improve in Mathematics, Science, Engineering and analytical skills

Interpret and draw inferences from mathematical models such as formulas, graphs, tables and schematics

Use algebraic, arithmetical, geometric and statistical methods to solve problems

Estimate and check mathematical results for reasonableness

Recognize the limits of mathematical and statistical methods

Find one sided and two sided limits

MAT 4B 04 - THEORY OF EQUATIONS, MATRICES

Students will be able to

demonstrate a variety of problem solving techniques

Solve systems of linear equations using multiple methods, including Gaussian elimination and matrix inversion.

Carry out matrix operations, including inverses and determinants.

Demonstrate understanding of the concepts of vector space and subspace.

Demonstrate understanding of linear independence, span, and basis.

Determine eigenvalues and eigenvectors and solve eigenvalue problems.

Apply principles of matrix algebra to linear transformations.

Demonstrate understanding of inner products and associated norms.

MAT 5B 05 -VECTOR CALCULUS

Students will be able to

To communicate mathematical ideas using symbols and notations correctly and presenting solutions in a clear and organised way.

Sketch level curves of the graph of a function of two variables.

Understand the two path criterion to show that a limit does not exist and apply it to solve problems about limits.

Calculate first and second partial derivatives.

Calculate directional derivatives and gradients. Apply gradient to solve problems involving steepest ascent and normal vectors to level curves.

State and apply method for finding absolute maxima and minima of a function of two variables on a closed bounded domain.

Develop a conceptual understanding of what it means to optimize a function of two variables subject to a single constraint.

Apply the method of Lagrange Multipliers to solve such constrained optimization problems.

Explain the concept of a vector field and make sketches of simple vector fields in the plane. Provide geometric and physical explanations of the integral of a vector field over a curve.

Explain concept of a conservative vector field, state and apply theorems that give necessary and sufficient conditions for when a vector field is conservative, and describe applications to physics.

Recognize the statements of Green's Theorem, Stokes' Theorem and the Divergence Theorem and understand how they are generalizations of the Fundamental Theorem of Calculus. Be aware of applications of these theorems in Physics and Mechanical Engineering.

MAT 5B 06 -ABSTRACT ALGEBRA

Students will be able to

To engage in analyzing, solving and computing real world applications of finite and discrete mathematics

Demonstrate understanding of the relationships between abstract algebraic structures with familiar numbers systems such as the integers and real numbers.

Demonstrate understanding of and the ability to work within various algebraic structures.

Describe and generate groups, rings, and fields.

Relate abstract algebraic constructs to more familiar number sets and operations and see from where the constructs derive.

Identify examples of specific constructs.

Identify and differentiate between different structures and understand how changing properties give rise to new structures.

Explain the theory behind relations and functions and identify domains and images of functions, based on the structures given.

Explain how functions may relate seemingly dissimilar structures to each other and how knowing properties of one structure allows

us to know the same properties in the related structure, if certain functions exist between them.

MAT 5B 07 -BASIC MATHEMATICAL ANALYSIS

To improve and outline a logical thinking, ability of working independently and with groups

Have the knowledge of basic properties of field of real analysis

Illustrate how take up responsibility

Ability to apply theorems in a correct mathematical way

Define and recognize the real functions and its limits

Able to perform basic algebraic manipulation with complex numbers

MAT 5B 08 -DIFFERENTIAL EQUATIONS

Students will be able to

Solve applied problems in engineering and physics

Distinguish between linear, nonlinear, partial and ordinary differential equations

Solve the problems choosing the most suitable method

Use an adequate scientific language to formulate the basic concepts of the course

Understand the difficulty of solving problems and applications of ordinary and partial differential equations

Will be able to use the Laplace transform in finding the solution of linear differential equations.

MAT 5D 03 -MATHEMATICS FOR SOCIAL SCIENCES

Students will be able to

To have the knowledge, experience and motivation to bring the tools of mathematics to bear on real world problems

Engage in analyzing , solving and computing real world applications of finite and discrete mathematics

Represent mathematical concepts verbally , symbolically, visually and numerically

Interpret mathematical models given verbally or by formulas, graphs , tables or schematics and draw inferences from them

Identify, sketch and evaluate functions

Solve linear, system of linear and quadratic equations, exponential and logarithmic equations

MAT 6B 09 -REAL ANALYSIS

Students will be able to

To use technology appropriately to investigate and solve mathematical and statistical problems and write clear and precise proofs

Use the properties of real numbers in algebraic problems

Develop a deeper understanding of calculus including defining terms, proving theorems about functions, sequences, series , limits, continuity, derivatives, Riemann integrals and sequence of functions

Explain why mathematical thinking is valuable in daily life

Understand the arithmetical properties of the rational and real numbers

Perform and model basic operations on real numbers

MAT 6B 10 -COMPLEX ANALYSIS

Students will be able to

To demonstrate accurate and efficient use of complex analysis techniques applied to diverse situations in physics, engineering and other mathematical contexts

Demonstrate ability to think critically by proving mathematical conjectures and establishing theorems from complex analysis

Demonstrate skills in communicating mathematics orally and in writing

Perform basic algebraic manipulation with complex numbers

Understand geometric interpretation of complex numbers

Demonstrate accurate and efficient use of complex analysis techniques

MAT 6B 11 -NUMERICAL METHODS

Students will be able to

Use numerical methods in modern scientific computing

Demonstrate understanding of common numerical methods and how they are used to obtain approximate solutions to mathematical problems.

Derive numerical methods for various mathematical operations and tasks, such as interpolation, differentiation, integration, the solution of linear and nonlinear equations, and the solution of differential equations.

Analyze and evaluate the accuracy of common numerical methods.

Get the skills, knowledge and attitudes required to determine approximate numerical solutions to mathematical problems which cannot always be solved by conventional analytical techniques, and to demonstrate the importance of selecting the right numerical technique for a particular application, and carefully analyzing and interpreting the results obtained.

Transfer ideas and experience Numerical Analysis Techniques, work effectively both in a team and independently, apply the best computational methods to solve real-life and Engineering applications via computational packages such as MATLAB or Mathematica and develop his ability to self appraise and reflect on practice relevant to Numerical Analysis.

MAT 6B 12 -NUMBER THEORY AND LINEAR ALGEBRA

Students will be able to

Analyze and communicate quantitative data and mathematical reasoning verbally, graphically, symbolically and numerically.

Development of core skills

Research Skills

Effective Communication

Academic and Professional Preparation.

Use computational techniques and algebraic skills essential for the study of systems of linear equations, matrix algebra, vector spaces, eigenvalues and eigenvectors, orthogonality and diagonalization. (Computational and Algebraic Skills).

Use visualization, spatial reasoning, as well as geometric properties and strategies to model, solve problems, and view solutions, especially in R^2 and R^3 , as well as conceptually extend these results to higher dimensions. (Geometric Skills).

Critically Analyze and construct mathematical arguments that relate to the study of introductory linear algebra. (Proof and Reasoning).

Use technology, where appropriate, to enhance and facilitate mathematical understanding, as well as an aid in solving problems and presenting solutions (Technological Skills).

Communicate and understand mathematical statements, ideas and results, both verbally and in writing, with the correct use of

mathematical definitions, terminology and symbolism (Communication Skills).

Work collaboratively with peers and instructors to acquire mathematical understanding and to formulate and solve problems and present solutions (Collaborative Skills).

MAT 6B 13(E02) -LINEAR PROGRAMMING

Students will be able to

Improve computational, algebraic, geometric, technological, communicative and collaborative skills

Use visualization, special reasoning , geometric properties and strategies to model and solve the problems

Collect , organize and display data as well as use appropriate statistical methods to analyze data and make inferences and predictions

Critically analyze and construct mathematical arguments

Use technology to enhance and facilitate mathematical understanding, solving problems and presenting solutions

Communicate and understand mathematical statements, ideas and results with correct use of mathematical definitions, technology and symbolism

DEPARTMENT OF ECONOMICS

Programme Outcomes:

The learners are expected to demonstrate the following:

Critically evaluate and apply the theories and techniques of economics.

Demonstrate subject-specific 'thinking' skills that are readily transferable to problem solving and decision making in a wider context.

Enhance their lifelong learning, employing a range of practical and professional skills.

Find, evaluate, synthesize and use information from a variety of sources

Articulate an awareness of the social and community contexts within their disciplinary field

Programme Specific Outcomes

PO.1: The students should be able to understand the fundamental concepts and theoretical propositions of Economic thoughts.

PO.2: An understanding of the methodology by which economic ideas are framed, tested and modified.

PO.3: The students should be able to understand how the economic policies of the government and Governmental institutions affect the common people.

PO.4: The students will be able to find an opportunity to take up a career in economics and related areas.

PO.5: The students will be able to find an opportunity to venture into research in economics and there by contribute to the creation of knowledge.

PO.6: The students will be able to develop the capacity to analyse the socio-political and economic issues in the language of an economist.

COURSE NAME AND COURSE OUTCOMES (COs)

Microeconomics I (ECO1B01)

Upon completion of this chapter students will able to

CO.1. To introduce the basic principles of economic theory.

CO.2. To provide basic understanding of Individual economic agents

CO.3. To introduce the pricing mechanism

CO.4. To analyze the different consumer theories.

CO.5 To provide the basic business aptitude.

CO.6. To gives an idea about positive and normative economics

CO.7. The course provides the basics of elasticity concepts and its importance in decision making CO.8. To understand the concept of consumer surplus

CO.9. To understand the basics concepts of production

CO 10. To gives an idea about utility concept

Course Title and Code Macroeconomics I ECO2 B02

Upon completion of this chapter students will able to

CO.1. To provide the knowledge about the aggregate economic activity.

CO.2. To familiarize the students with the basic difference between classical and Keynesian economics.

CO.3. To understand the national income concept.

CO.4. To give the idea about Keynesian theory of employment.

CO.5 To understand the theories of consumption function.

CO.6. To introduce the basic concepts of monetary economics.

CO.7. To give a deep knowledge how external factors affect the domestic economy

CO.8. To understand the wage price flexibility

CO.9. To understand the use of fiscal policy

CO 10. To understand the investment function

Course Title and Code Quantitative Methods for Economic Analysis - I ECO3 B03**Upon completion of this chapter students will able to**

- CO.1. To provide quantitative skills to collect, analyse and interpret the analytical data.
- CO.2. To provide basics for research.
- CO.3. Gives basic mathematical techniques for economic students.
- CO.4. To give the basic foundations of statistical analysis
- CO.5 To understand the different techniques for analyzing the data
- CO.6. To understand the trends with the help of statistical tools.
- CO.7. Improve the mathematical skills which is required in real life
- CO.8. To provide knowledge about various tools required for data validation
- CO.9. To give an overall idea about basics of statistics
- CO 10. To understand the most important concepts like correlation and regression .

Microeconomics II ECO3 B04**Upon completion of this chapter students will able to**

- CO.1. To understand the basic market structure
- CO.2. To analyze the cost conditions of the industries
- CO.3. To understand the decision making in market.
- CO.4. To provide knowledge about price mechanism
- CO.5 To give awareness about the market conditions
- CO.6. To insist an entrepreneurial skill among the students
- CO.7. The course give idea about various cost theories
- CO.8. To give an outlook to an economic society
- CO.9. To understand the concept of price rigidity in business world
- CO 10. To gives an idea about cartels

Quantitative Methods for Economic Analysis II ECO4 B05

Upon completion of this chapter students will able to

- CO.1. To provide the mathematical skill among the students
- CO.2. To provide knowledge about the profit maximizing conditions of the firm
- CO.3. Gives brief differential calculus
- CO.4. To impart skills in mathematical and statistical techniques
- CO.5 Provide meaningful study in theoretical and applied economics
- CO.6. To provide awareness about census and population surveys
- CO.7. To know about index numbers and their uses
- CO.8. To understand the time series analysis
- CO.9. To understand the criterions used for various statistical census
- CO 10. To introduce the concept of probability.

Macroeconomics II ECO4 B06**Upon completion of this chapter students will able to**

- CO.1. To provide knowledge about monetary transactions
- CO.2. To understand the theories of inflation
- CO.3. To understand about the unemployment problem
- CO.4. To understand about the macro economic principles
- CO.5 To provide knowledge about business cycle
- CO.6. To provide knowledge about goods market and money market equilibrium
- CO.7. To understand the theories of money
- CO.8. To understand the different concepts related to money
- CO.9. To gives an idea about the theories of demand and supply of money
- CO 10. To understand the trade cycle theories

Fiscal Economics ECO5 B07**Upon completion of this chapter students will able to**

- CO.1. To introduce the basic principle of fiscal economics.
- CO.2. To understand the difference between public and private finance.
- CO.3. To understand the source of public expenditure.
- CO.4. To make awareness about budget preparation.
- CO.5 To gives an idea about central state relations.
- CO.6. To understand the source of public revenue.
- CO.7. To know about the public debt management in India
- CO.8. To identify the basic principles underlined in federal finance CO.9. To know about the volume of parallel economy in India .

Indian Economic Development ECO5 B08

Upon completion of this chapter students will able to

- CO.1. To understand the key issues facing the Indian economy.
- CO.2. To create awareness about the working of different forms of Gov.'s in India.
- CO.3. To understand the development policies adopted in India.
- CO.4. To familiarise national income concepts.
- CO.5 To understand the structure of Kerala economy.
- CO.6. To introduce the changes in post liberal economies in India.
- CO.7. To understand the development and structural changes in Indian Economy
- CO.8. To understand the importance of planned economy
- CO.9. To know about the New Economic Policy
- CO 10. To gives an idea about the new welfare programmes introduced by India Government

Economics of Capital Market ECO5 B09

Upon completion of this chapter students will able to

- CO.1. To understand money market and capital market.
- CO.2. To providing a platform to take up a carrier in finance sector.
- CO.3. To familiarize different financial assets.

- CO.4. To understand the new issue market.
- CO.5 To understand the capital market structure.
- CO.6. To understand the various stock exchanges in the world.
- CO.7. To present the globalised world financial institutions.
- CO.8. To trace out the defects of Indian financial system
- CO.9. To gives an idea about Government securities market
- CO 10. To understand the role of SEBI in Indian capital market

Mathematical Economics ECO5 B10

Upon completion of this chapter students will able to

- CO.1. To help the students to use mathematical tools in economics
- CO.2. To prove economic theories mathematically
- CO.3. To analyses how to maximise profit of the firms and industries
- CO.4. To understand about the interrelationship between different sectors in an economy
- CO.5 For cost benefit analysis
- CO.6. To understand the decision making process in industries
- CO.7. To identify the mathematical models fit for various economic theories
- CO.8. To introduce the various marginal concepts
- CO.9. For achieving equilibrium
- CO 10. For representing input output analysis

Financial Economics ECO6 B11

- CO1: to familiarize the students with the basic concepts in financial economics along with some of the basic.
- CO2: the student will be able to develop comprehensive knowledge on the role of finance in the operation of an economy.
- CO3: It also enables them to know the operation of the Indian Financial System and activities in the financial markets.

International Economics ECO6 B12

Upon completion of this chapter students will able to

- CO.1. To provide knowledge about the foreign exchange market
- CO.2. To aware about the exchange rate systems
- CO.3. To provide knowledge about the international economic organizations
- CO.4. To provide knowledge about the BOP conditions of a nation
- CO.5 To provide awareness about the govt. Policies in international trade
- CO.6. To analyses the foreign exchange crisis
- CO.7 To understand the difference between internal and international trade
- CO.8 To provide the importance of international trade in economic development

CO.9 To introduce the concept free trade

CO.10 To know about the trade regimes exist

Development of Economic Thought ECO6 B13

CO1: Student should be able to review of the history of economic thinking and economic analysis

CO2: to provide students with understanding of historical evolution of economic

CO3: student will be able to identify the major ideas associated with each group or thinker studied, and thereby the origins of contemporary theory are better comprehended

CO4: Students are also expected to identify theories that radically differ from modern mainstream theory, and thereby recognize that the theoretical basis of economics has been, and continues to be, contested.

Economics of Growth and Development ECO6 B14

CO.1. To make awareness about the political economy.

CO.2. To provide basic approach towards development and planning.

CO.3. To understand the theories of development.

CO.4. To make awareness about the trends in development in different countries in the world.

CO.5 To give an idea about economic planning.

CO.6. To understand the issues in development.

CO.7. To understand the working of five year plans in India

CO.8. To make aware about the importance of environment in economic development

CO.9. To help to analyse the concept of poverty

CO 10. To understand the stage theory in economic development

Project work/Research Methodology ECO6

CO1: It intends to provide exposure to the fundamentals of techniques and methods in social research.

CO2: It helps them to equip themselves the ability to understand and participate in the process of economic research.

CO3 It also helps to familiarize the student with the quantitative and qualitative strategies of research in social science.

CO4: After completing this course the student should also be able to develop research project and work with a research problem

NAME OF THE DEPARTMENT	DEPARTMENT OF ENGLISH	
PROGRAMME CODE AND PROGRAMME NAME	BA ENGLISH LANGUAGE AND LITERATURE	
PROGRAMME OUTCOMES(POs)	PO.1	To attain eligibility for higher studies in English language and literature/Linguistics
	PO.2	To attain eligibility for joining professional courses in teaching/journalism
	PO.3.	To attain eligibility and skill for entering into a profession based on language skills

PROGRAMME SPECIFIC OUTCOMES (PSOs)	PSO.1.	ENG1B01: Introducing Literature To introduce the students to literary texts and their unique conventions and contours-the linguistic, the social, the cultural and the political
	PSO.2.	ENG2B02: Appreciating Poetry To critically analyse various perspectives in poetry aided by an understanding of the basic elements in poetry.
	PSO.3.	ENG3B04: English Grammar and Usage To prepare the students to learn how to use the language with a proper knowledge of the nuances of structure and usage of language.
	PSO.4.	ENG4B05 APPRECIATING FICTION To help students identify and appreciate various writing styles of fiction To read between the lines and understand the overt and covert meanings and to critically assess ideas seen in a passage
	PSO. 5.	ENG4B06: Literary Criticism and Theory It trains the students to become better teachers who understand the nuances of literature The students are encouraged to take up literary reviews in a serious manner
	PSO.6.	ENG5B07: Appreciating Drama and Theatre To revive the students' interest in the drama form To familiarise students with different kinds of theatre and the varied techniques used To develop students' theatrical skills and make them aware of drama script.
	PSO 7	ENG5B09: Language and Linguistics Make students aware about the importance of oral and written communication emphasising the role of grammar in it. Make students realize the equal importance of form and meaning in a language, especially with relation to English Language
	PSO 8	ENG5B10: Indian Writing in English It enables them to compare Indian writers with world literature

	PSO 9	<p>ENG6B11: Voices of Women It enables the students to understand the evolution of Feminism as a socio-cultural and political movement It familiarises students the major women writers of world literature</p>
	PSO 10	<p>ENG6B12: Classics of World Literature To hone the sensibility of the student to appreciate the great classics , to understand their universal quality and thereby achieve a broader perspective of life.</p>
	PSO 11	<p>ENG6B13: Film Studies To introduce students to films studies as a discipline and to develop in them analytical and critical skills so that they can appreciate cinema as an independent form.</p>
	PSO 12	<p>ENG6B14: New Literatures in English To enable the students to understand the implications of colonialism and decolonization on literary texts</p>

	PSO 13	ENG 6B15 LITERATURE OF THE MARGINALIZED To introduce to the students the various aspects of marginality and how the question of marginality gets reflected in literature through revolutionary, indigenous and autonomous ways of expression
	PSO 14	ENG6B21: Project To introduce to the students the basic elements of research writing.
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		
	CO.1.	ENG1B01: Introducing Literature Course outcome 1.To introduce students to the language of literature, i.e., the meaning-making devices, verb phrases, collocations, linkers, sense groups and their functions in the literary text 2. To train the students to identify the linguistic structures of poetic texts: symbols, metaphors, and other tropes and equip them in poetic conventions 3. To recognize diverse points of view within a single text and to understand the rationale of polyphony 4. To prepare students in reading literary/cultural texts closely, beyond the literal. 5. To enable students to recognize the dominant voice/s within the text and its agendas 6. To encourage questioning the text in order to perceive marginalized voices - the voices of the child, Dalit, transgender and female 7. To comprehend how the subaltern perspectives question and counter the privileged voices in the mainstream text

	CO.2.	<p>ENG2B02: Appreciating Poetry Course outcome</p> <ol style="list-style-type: none"> 1. Understand and appreciate a poem 2. Synthesize multi-fold elements of poetry for insightful reading having understood prosody 3. Understand the nuances of different genres and forms of poetry 4. Understand the different periods in English and American poetic tradition 5. Identify multiple perspectives in reading poetry 6. Compare great compositions in poetry 7. Motivate himself/herself to attempt creative writing
	CO.3.	<p>ENG3B03: Appreciating Prose Course outcome</p> <ol style="list-style-type: none"> 1. Understand and appreciate an excellent piece of prose 2. Develop insightful reading for understanding articles and classic literary prose 3. Understand the nuances of different types of prose writing 4. Understand the different periods in English literary tradition with respect to prose 5. Identify multiple perspectives in reading prose 6. Compare great compositions in journalistic styles 7. Motivate himself/herself to attempt compositions in prose writing
	CO.4.	<p>ENG3B04: English Grammar and Usage Course outcome</p> <ol style="list-style-type: none"> 1. To familiarize the students with the key concepts of English grammar and to use them more sensitively in their day-to-day communication needs. 2. To help students towards a better language use through the understanding of the sentence patterns in English. 3. To help the students develop a sense of English grammar, idioms, syntax, semantics and their usage. 4. To develop the logical and analytical skills in the use of language for communication. 5. To familiarize students with contemporary English usage.

	CO.5	<p>ENG4B05 APPRECIATING FICTION</p> <ol style="list-style-type: none"> 1. Understand and appreciate an excellent piece of fiction as well as short fiction 2. Develop insightful reading for understanding modes of fictional narratives 3. Understand the nuances of different types of fictional presentation 4. Understand the different periods in English and American literary tradition with respect to fiction 5. Identify multiple perspectives in reading fiction 6. Compare great compositions in characterisation, plot, narratives, techniques of presentation etc 7. Motivate himself/herself to attempt short compositions
	CO.6	<p>ENG4B06: Literary Criticism and Theory</p> <p>Course outcome</p> <ol style="list-style-type: none"> 1. Make use of the concepts of criticism as developed in Classical Age 2. Make use of the concepts of criticism as developed in Indian Aesthetics 3. Understand the ideas of criticism as presented by Wordsworth, Saussure, Eliot, Showalter 4. Familiarize with critical terms and concepts 5. Understand the concepts and use of them in the critical analysis 6. Make these things for project work 7. Realize the possible dimensions in literary criticism
	CO.7.	<p>ENG5B07: Appreciating Drama and Theatre</p> <p>Course outcome</p> <ol style="list-style-type: none"> 1. Understand and appreciate dramatic writing 2. Develop insightful reading for understanding classic works of drama 3. Understand the nuances of different types of drama and to distinguish terms like theatre, drama and play 4. Understand the different periods in English literary tradition with respect to drama 5. Identify multiple perspectives in reading drama 6. Appreciate great compositions in drama and to understand concepts like characterisation, plot, structure, theme, dialogue, setting, etc 7. Getting essential information about different traditions of world dram

	CO.8.	<p>ENG5B09: Language And Linguistics Course outcome This course helped the learner to;</p> <ol style="list-style-type: none"> 1.Develop the ability to transcribe words. 2.Understand what Language is in connection with Society and its variations 3.Understand what Linguistics is and its scientific nature 4.Understand different branches of linguistics 5.Understand the major approaches of Linguistics such as Synchronic and Diachronic etc 6.Understand Phonetics and the different categories
	CO.9.	<p>ENG5B10: Indian Writing in English</p> <ol style="list-style-type: none"> 1. Understand what Indian literature is 2. Understand and appreciate different literary movements in India with relation to Colonial times 3. Understand different literary trends with relation to Post Independence period 4. Understand the major themes in Indian Poetic tradition 5. Understand the Indian ethos as expressed in the fiction prescribed 6. Appreciate the political and social picture as represented in the short fiction prescribed 7. Appreciate the political and social picture as represented in the prose writing prescribed
	CO.10.	<p>ENG6B11: Voices of Women Course outcome This course helped the learner to;</p> <ol style="list-style-type: none"> 1. Understand Women's voice as an alternative tradition in writing 2. Understand Feminism and Feminist movements 3. Appreciate gender issues 4. Understand the marginalization and subjugation of women 5. Appreciate the redefining of literary canon from the women's perspective 6. Appreciate the major representative pieces of essays elaborating on women's issues 7. Appreciate the major poetic and fictional narratives involving women's issues

	CO 14	<p>ENG 6B15 LITERATURE OF THE MARGINALIZED</p> <p>Course outcome This course helped the learner to;</p> <ol style="list-style-type: none"> 1. To sensitize the students on issues pertaining to the marginalized 2. To educate the students about the evolving patterns of generic and other technical possibilities that the marginalized use to represent their predicament. 3. To communicate to the students how marginality is very often a contextual factor related to the socio cultural reality. 4. To discuss how the question of marginality has evolved by giving space to new and till now avoided categories of outcastes, bodily and culturally and how such people develop their own styles of articulation and subsequent theoretical foundations
	CO 15	<p>ENG6B21: Project</p> <p>Course outcome This course helped the learner to;</p> <ol style="list-style-type: none"> 1. Implement the concepts acquired in Methodology / Criticism courses 2. Understand library work and data collection 3. Understand data analysis 4. Understand presentation of facts methodically 5. Understand the latest format of presentation such as MLA 8 Edition 6. Understand how a brief presentation is done 7. Acclimatise himself/herself to the research work and preparing for higher levels of exploration and study

NAME OF THE DEPARTMENT	PG Department of Commerce	
PROGRAMME CODE AND PROGRAMME NAME	BCB B.com Co-operation	
PROGRAMME OUTCOMES(POs)	PO.1	Students would gain a thorough grounding in the fundamentals of Commerce and Finance.
	PO.2	The commerce and finance focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce and business

	PO.3	The all-inclusive outlook of the course offer a number of value based and job oriented courses ensures that students are trained into up-to-date. In advanced accounting courses beyond the introductory level, affective development will also progress to the valuing and organizationlevels.
	PO.4	Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.
	PO.5	Learners will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.
	PO.6	Leaners will acquire the skills like effective communication, decision making, problem solving in day to day business affairs.
PROGRAMME SPECIFIC OUTCOMES (PSOs)	PSO.1	Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals. Students will be able to demonstrate knowledge in setting up a computerized set of accounting books.
	PSO.2	Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
	PSO.3	Learners can also acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.
	PSO.4	Learners will be able to do higher education and advance research in the field of commerce and finance.
	PSO.5	Students will be able to work in the Co-operative field and can apply their Knowledge and skills in the Co-operative sector.
	PSO.6	Students will be able to provide consultancy, guidance and other services for the promotion of Co-operative sector.
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	Semester1	BC1B01- Business Management
	CO.1.	To familiarize the students with current management practices.
	CO.3.	To know more about major contributions made by various management experts during different periods.
	CO.4.	To impart the knowledge about different functions of management.
	CO.5	To understand the leadership styles.
	CO.6.	To understand the importance of ethics in business.
	CO.7.	To understand the importance of motivation in business.
	CO.8.	To acquire knowledge about ethical practices for effective management.
	CO.9.	To understand the emerging concepts in management.
	CO 10.	To impart knowledge about the importance of modern approaches in management.
		BCM1C01- Managerial Economics

	CO.1.	To impart the basics of managerial economics.
	CO.2.	To familiarize with demand and supply and its application.
	CO.3.	To know the process and methods of demand forecasting.
	CO.4.	To insight the theory of consumer behavior.
	CO.5	To give an insight about the tools and techniques of cost minimization.
	CO.6.	To familiarize the law of production and law of returns.
	CO.7.	To give over all understanding of market structure.
	CO.8.	To impart the concept of macroeconomics particularly Indian economy.
	CO.9.	To help the students to understand the application of economic principles in business management.
	CO.10	To impart a brief description about inflation in India.
	Semester 2	BCM2B02: Financial Accounting.
	CO.1.	To equip the students with the skill of preparing financial statements of sole traders.
	CO.2.	To familiarize with the computation and preparation of depreciation accounting.
	CO.3.	To impart knowledge about the accounts of single entry system.
	CO.4.	To know the accounting procedures of issue of shares.
	CO.5	To give an insight into the accounting aspects of issue of shares.
	CO.6.	To enable the students to acquire knowledge about the preparation of financial statements of joint stock companies.
	CO.7.	To help the students to understand the accounting for banking company.
	CO.8.	To give overall understanding of accounting for insurance company.
	CO.9.	To give insight about the profit determination of life insurance.
	CO.10	To enable the students to acquire knowledge about financial reporting standards
		BCM2C02: Marketing Management
	CO.1.	To impart necessary knowledge which help the student to choose a carrier in the field of marketing.
	CO.2.	To enable the students to acquire knowledge about e- marketing.
	CO.3.	To understand the factors influencing buying behaviour and their motives.
	CO.4.	To familiarize modern marketing trends.
	CO.5	To impart knowledge about product, product mix, product life cycle, product pricing etc.
	CO.6.	To familiarize with the physical distribution of goods and services.
	CO.7.	To know different promotional techniques used for product marketing.
	CO.8.	To understand critically on various issues regarding advertisements.
	CO.9.	To understand rural marketing and its importance.
	CO.10	To understand Sales promotion techniques.
	Semester 3	BC3A11: Basic numerical Methods
	CO.1.	To understand the Mathematics of Finance like simple and compound interest.
	CO.2.	To understand set operations, fundamental ideas about matrices and their operational rules.
	CO.3.	To understand theory of equations and problems on business application.

	CO.4.	To enable the students for applying linear and simultaneous equations in business
	CO.5	To study about the presentation of data by diagrammatic and graphical method.
	CO.6.	To Know about Arithmetic Progression and Geometric Progression and practical application.
	CO.7.	To enable the students to acquire the knowledge of mathematics and statistics.
	CO.8.	To understand statistics and their importance in our life.
	CO.9.	To study the statistical tools and their applications.
	CO.10	To know about measures of Central Tendency like mean ,median and Mode.
		BC3A12: Professional Business Skills
	CO.1.	. To update and expand professional skills of the students.
	CO.2.	To equip the students to effectively utilize the digital knowledge resources for their study.
	CO.3.	To identify the IT scope for knowledge skills for higher education, IPR, Educational software,academic services.
	CO.4	To familiarize the students about electronic learning facilities such as MOOC, Online libraries etc.
	CO.5	To familiarize the students about the professionalization among the organisations
	CO.6	. To familiarize the students about Cyber addictions.
	CO.7.	. To give brief knowledge about Digital marketing and digital marketing environment
	CO.8.	To understand the concept of Green computing
	CO.9	. To know the Security issues.
	CO.10 .	To know about Cyber-crimes.
	CO .11	To understand the concept of business data analysis
		BC3B03: Business Regulations
	CO.1.	To familiarize the students to certain statutes concerning and affecting business organizations in their operations.
	CO.2.	To aware about Indian Contract Act, 1872 and its terms
	CO.3.	To familiarize special contracts related to Indemnity, Guarantee, Bailment and Pledge.
	CO.4.	To provide insight about the Sale of Goods Act, 1930
	CO.5	To know about The Consumer Protection Act, 1986
	CO.6.	To understand The Limited Liability Partnership Act, 2008.
	CO.7.	To understand the classification of Partnership forms.
	CO.8.	To familiarize the concept of Free consent in Indian Contract Act.
	CO.9.	To understand the concept of Caveat emptor
	CO.10	To know the role of Limited liability partners.
		BC3B04: Corporate Accounting
	CO.1.	To help the students to acquire conceptual knowledge of the fundamentals of the corporate accounting and the techniques of preparing the financial statements.
	CO.2.	To held to acquire the knowledge about Asset based Accounting Standards
	CO.3.	To know the revenue and liability based Accounting Standards .

	CO.4.	To get an awareness about IAS (Ind AS) 20, IAS (Ind AS) 17 & IFRS2/ Ind AS102
	CO.5	To understand the treatment of items in Accounting For Joint Stock Companies.
	CO.6.	To held to acquire the knowledge about Presentation of Single Entity Financial Statements Covered by IFRS Convergence (IAS 1 and Ind AS 1).
	CO.7.	To get an idea about the preparation of financial statements: Statement of Financial Position (SOFP), Statement of Profit or Loss (SOPL), Statement of changes in Equity (SOCE) and Cash Flow Statement (SOCF).
	CO.8.	To identify the treatment of Business Combinations And Consolidated Statements (IFRS 3,10,13 and Ind AS103, Ind AS 27, Ind AS 28).
	CO.9.	To acquire the knowledge about Accounting For Electricity Companies.
	CO.10	To acquire knowledge about the preparation of final accounts of electricity companies.
		BCMC03: Human Resource Management
	CO.1.	To familiarize the students with the different aspects of managing human resources in an organization.
	CO.2.	To equip the students with basic knowledge and skills required for the acquisition.
	CO.3.	Development and retention of human resources.
	CO.4.	To provide insight about performance appraisal and career planning
	CO.5	To aware about the compensation management
	CO.6.	To hold awareness about the mechanism of grievance redressal system.
	CO.7.	To understand the term Performance appraisal.
	CO.8.	To know the Modern techniques of performance appraisal.
	CO.9.	To know the Training needs in the field of human resources.
	CO.10	To know the method of Incentives system existed in organisations.
	Semester 4	BC4A13: Entrepreneurship Development
	CO.1.	To familiarize the students with the concept of entrepreneurship.
	CO.2.	To identify and develop the entrepreneurial talents of the students.
	CO.3.	To understand the factors affecting entrepreneurial growth.
	CO.4.	To identify the role of entrepreneurs in economic development.
	CO.5	To aware about the role of promotional institutions such as KINFRA, KITCO, MSME & DIC
	CO.6.	To provide knowledge in project report preparation.
	CO.7.	To gain insight into the identification of business opportunities in the context of Kerala.T
	CO.8.	To generate innovative business ideas in the emerging industrial scenario.
	CO.9.	To get an idea about business incubation.
	CO.10	To know about the setting up of business incubation centres.
		BC4A14: Banking and Insurance

	CO.1.	To enable the students to acquire knowledge about basics of banking and insurance and to familiarise the students with the modern trends in banking.
	CO.2.	To know an idea about origin and development of banking, different categories of banking in India.
	CO.3.	To know about central bank and its functions in our country.
	CO.4.	To know different types of Accounts and procedure for opening and operating the accounts of different customers.
	CO.5	To get an awareness about different negotiable instruments in use.
	CO.6.	To equip the students with different e-banking products and services.
	CO.7.	To enable the students to acquire knowledge about basics of and insurance.
	CO.8.	To know the various kinds of insurance.
	CO.9.	To understand the general principles of life insurance and general insurance.
	CO.10	To enable the students relate to different types of insurance policies.
		BC4B05: Cost Accounting
	CO.1.	To familiarize the students with the various concepts and elements of cost.
	CO.2.	To create cost consciousness among the students.
	CO.3.	To equip the students with basic idea about the preparation cost sheets
	CO.4.	To give an idea about different methods of costing
	CO.5	To give an orientation about material, labour and overhead costs for producing a product
	CO.6.	To impart the idea about cost controlling techniques
	CO.7.	To understand the concept of Budget& Budgetary Control
	CO.8.	To make awarens regarding the treatment of Office expense.
	CO.9.	To understand about Standard costing
	CO.10	To solve transportation problems.
		BC4B06: Corporate Regulations
	CO.1.	To familiarise the students with corporate law and to make them aware of the importance of corporate governance in the management of organisations
	CO.2.	To get knowledge about Companies Act, 2013.
	CO.3.	To equip the students about the knowledge regarding formation of companies.
	CO.4.	To give an insight about the issue of share capital.
	CO.5	To familiarise about the management of companies.
	CO.6.	To understand the company meetings .
	CO.7.	To understand the duties of a company Secretary.
	CO.8.	To understand the Qualifications of a company secretary.
	CO.9.	To Acquire thorough knowledge about SEBI
	CO.10	To understand the Winding up of a Company
		BC4C04: Quantitative techniques for Business

	CO.1.	To familiarise the students with the use of quantitative techniques in managerial decision making.
	CO.2.	To introduce basics of quantitative techniques
	CO.3.	To give insight into the probability theorems.
	CO.4.	To aware about correlation and regression analysis.
	CO.5	To understand different theoretical distributions
	CO.6.	To familiarise the steps in decision making
	CO.7.	To aware about the decision tree analysis
	CO.8.	To give an insight about Linear Programming
	CO.9.	To enable the students for mathematical model formation of LPP
	CO.10	To equip the students for solving LPP model using graphic method
	Semester 5	BC5BO7: Accounting for Management
	CO.1.	To enable the students to understand the concept and relevance of management accounting.
	CO.2.	To provide the students an understanding about the use of accounting and costing data for planning, control, and decision making
	CO.3.	To understand the recent trends in management reporting
	CO.4.	To familiarise various tools of analysis and interpretation of financial statements
	CO.5	Like comparative statements, trend analysis, common size statements.
	CO.6.	To give a deep understanding about ratio analysis.
	CO.7.	To impart detailed knowledge about fund flow statements.
	CO.8.	To impart knowledge about cash flow statements.
	CO.9.	To equip managerial decision making by using marginal costing.
	CO.10	To understand Cost Volume Profit Analysis and decision making
		BC5BO8: Business Research Methods
	CO.1.	To enable students for acquiring basic knowledge in business research methods
	CO.2.	To familiarise with different types of business research.
	CO.3.	To give insight about the phases of business research
	CO.4.	To impart the components of a research design
	CO.5	To gain knowledge in the various types of research design .
	CO.6.	To equip the students with data collection methods in detail
	CO.7.	To develop basic skills in students to conduct survey, researches and case studies.
	CO.8.	To impart insight in the data measurement and scaling

	CO.9.	To give knowledge in the descriptive and inferential analysis of the collected data.
	CO.10	To equip the students in the preparation of research report.
		BCM5B09: Income Tax Law and accounts
	CO.1.	To impart basic knowledge and equip the students with application of principles and provisions of Income Tax Act, 1961 up-to-date.
	CO.2.	To familiarise the treatment of agricultural income and calculation of gross total income
	CO.3.	To familiarise the treatment of agricultural income and calculation of gross total income
	CO.4.	To understand the computation of income from salaries
	CO.5	To gain knowledge about the computation of income from house property
	CO.6.	To attain the ability to calculate profits and gains of business or profession.
	CO.7.	To equip insight in the calculations of capital gains.
	CO.8.	To solve the problems relating to Income from other source.
	CO.9.	To equip the students to calculate Gross Total Income.
		BC5B10:Co-Operative Theory and Practice
	CO.1.	To provide conceptual clarity and theoretical base in co-operation
	CO.2.	To provide an overall idea about important types of co-operatives.
	CO.3.	To know an idea about co-operation and principles of co-operation.
	CO.4.	To know in detail the different economic systems.
	CO.5	To study the difference between co-operation and other economic systems.
	CO.6.	To get insight into co-operative education and training.
	CO.7.	To enable the student to get knowledge about the different training institute for co-operative education.
	CO.8.	To familiarise NCUI and its role in co-operative education.
	CO.9.	To impart knowledge about the students to know the different co-operatives and co-operative credit agencies.
	CO.10	To familiarise the role of different Apex institutions in the co-operative movement.
		BC5B11: Legal Environment for Co-Operatives
	CO.1.	To enable the students to get idea about Co-operative legislation in India, its features and importance.
	CO.2.	To familiarize Co-operative Credit Societies Act, 1904 and Co-operative Societies act, 1912.
	CO.3.	To acquire section wise understanding of Kerala Co-operative Societies Act, 1969.
	CO.4.	To know the management of Co-operative societies.
	CO.5	To get insight into membership of co-operative society and their qualifications and disqualifications
	CO.6.	To understand the procedure for inspection of co-operative societies.
	CO.7.	To familiarise the stages of settlement of dispute.

	CO.8.	To enable the student to get knowledge about liquidation procedure.
	CO.9.	To get insight into the administrative setup of Co-operative department.
	CO.10	To impart salient features of Banking Regulation Act, 1949 and its impact on co-operative management
		BC5D03-Basic Accounting Open Course
	CO.1.	To provide basic knowledge about Accounting
	CO.2.	To describe the Role of Accounting in business
	CO.3.	Concept of Accounting principles & Conventions
	CO.4.	To explain the concept of Management accounting
	CO.5	To detailed study of the Cash book
	CO.6.	To detailed study about the subsidiary book
	CO.7.	To explain the concept of purchase book
	CO.8.	To help the students to understand the issues in sales return book
	CO.9	To help the students to understand the sales day book
	CO.10	To explain trial balance & Financial Statements
	Semester 6	BCM6B12: Income tax and GST
	CO.1.	To impart basic knowledge and equip the students with application of principles and provisions of Income Tax Act, 1961 up-to-date.
	CO.2.	To familiarise the treatment of agricultural income and calculation of gross total income
	CO.3.	To make aware about agriculture income, residential status and incidence/charge of tax.
	CO.4.	To understand the computation of income from salaries
	CO.5	To gain knowledge about the computation of income from house property
	CO.6.	To attain the ability to calculate profits and gains of business or profession.
	CO.7.	To equip insight in GST Act 2016
	CO.8.	To solve the problems relating to Income from other source.
	CO.9.	To equip the students to calculate Gross Total Income.
	CO.10	To enable the students to make assessment of Individuals.
		BCM6B13: Auditing
	CO.1.	To impart knowledge about auditing principles, procedures and techniques in accordance with current legal requirements and professional standards.

	CO.2.	To give conceptual understanding of auditing, its classification, advantages and limitations.
	CO.3.	To familiarize with internal control, internal check and internal audit.
	CO.4.	To understand the procedure of conducting an audit.
	CO.5.	To understand the procedure for conducting vouching.
	CO.6.	To acquire knowledge about verification and valuation of assets and liabilities.
	CO.7.	To acquire knowledge about different approaches to auditing.
	CO.8.	To know how to prepare a company auditor report.
	CO.9.	To familiarize about tax audit and management audit.
	CO.10	To know special areas of Audit and recent trends in auditing.
		BC6B14: International Co-Operative Movement
	CO.1.	To enable the students to acquire knowledge about evolution and development of co-operative movement in the world.
	CO.2.	To get an awareness about co-operative movement in different foreign countries.
	CO.3.	To know about co-operatives and employment in Africa.
	CO.4.	To understand ACCOSCA –NAIROBI- KENYA.
	CO.5.	To study about COCOA co-operatives in Sierre Leones.
	CO.6.	To familiarise the contributions of Prominent co-operators in the co-operative movement.
	CO.7.	To familiarize KNCU- TANZANIA.
	CO.8.	To know more about ICA and other Apex bodies.
	CO.9.	To know the role of International Organizations in the Development of Co-operative movement.
	CO.10	To get an idea about inter cooperative relations.
		BC6B15:Co-Operative Management and Administration
	CO.1.	To enable the students to acquire knowledge about the co-operative management and administration.
	CO.2.	To familiarize the students with accounting and auditing of co-operation.
	CO.3.	To gain knowledge about the role of management in the development of co-operative organizations.
	CO.4.	To understand the concept of co-operative leadership.
	CO.5.	To provide knowledge in co-operative accounting
	CO.6.	To give an insight into the co-operative audit.
	CO.7.	To know the role of Registrar of Co-operative Societies.
	CO.8.	To Know the procedure of Co-operative Audit.
	CO.9.	To familiarize the students regarding the System of Co-operative Administration.
	CO.10	To know the election procedure in the Co-operative sector.

NAME OF THE DEPARTMENT	Commerce
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PROGRAMME CODE AND PROGRAMME NAME	BCB, B.com Finance	
PROGRAMME OUTCOMES(POs)	PO.1	Students would gain a thorough grounding in the fundamentals of Commerce and Finance.
	PO.2	The commerce and finance focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce and business
	PO.3.	The all-inclusive outlook of the course offers a number of value based and job oriented courses ensures that students are trained up-to-date. In advanced accounting courses beyond the introductory level, affective development will also progress to the valuing and organization levels.
	PO.4	Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.
	PO.5	Learners will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.
	PO.6	Learners will acquire the skills like effective communication, decision making, problem solving in day to day business affairs.
PROGRAMME SPECIFIC OUTCOMES (PSOs)	PSO.1.	Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals. Students will be able to demonstrate knowledge in setting up a computerized set of accounting books.
	PSO.2.	Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
	PSO.3.	Learners can also acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.
	PSO.4.	Learners will be able to do higher education and advance research in the field of commerce and finance.
	PSO. 5.	Learners will be involved in various co-curricular activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.
	PSO.6.	Learners will gain thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, finance, auditing and marketing.
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	Semester1	BC1B01- Business Management
	CO.1.	To familiarize the students with current management practices.
	CO.3.	To know more about major contributions made by various management experts during different periods.
	CO.4.	To impart knowledge about different functions of management.

	CO.5	To understand the leadership styles.
	CO.6.	To understand the importance of ethics in business.
	CO.7.	To understand the importance of motivation in business.
	CO.8.	To acquire knowledge about ethical practices for effective management.
	CO.9.	To understand the emerging concepts in management.
	CO 10.	To impart knowledge about the importance of modern approaches in management.
		BC1C01- Managerial Economics
	CO.1.	To impart the basics of managerial economics.
	CO.2.	To familiarize with demand and supply and its application.
	CO.3.	To know the process and methods of demand forecasting.
	CO.4.	To insight the theory of consumer behavior.
	CO.5	To give an insight about the tools and techniques of cost minimization.
	CO.6.	To familiarize the law of production and law of returns.
	CO.7.	To give overall understanding of market structure.
	CO.8.	To impart the concept of macroeconomics particularly Indian economy.
	CO.9.	To help the students to understand the application of economic principles in business management.
	CO.10	To impart a brief description about inflation in India.
	Semester 2	BC2B02: Financial Accounting.
	CO.1.	To equip the students with the skill of preparing accounts for banking companies.
	CO.2.	To know the role and objectives of accounting standards.
	CO.3.	To equip with requirements of international accounting standards.
	CO.4.	To enable the students to acquire knowledge about financial reporting standards and to understand corporate accounting methods.
	CO.5	To impart knowledge about the accounts of corporate entities not covered by IFRS Convergence.
	CO.6.	To give basic knowledge about the preparation of financial statements of non -corporate entities not covered by IFRS Convergence.
	CO.7.	To impart knowledge about accounting for insurance companies.
	CO.8.	To give insight about the profit determination of life insurance.
	CO.10	To equip the students to know the difference between IndAS and IFRS.
		BC2C02: Marketing Management

	CO.1.	To impart necessary knowledge which helps the student to choose a career in the field of marketing.
	CO.2.	To enable the students to acquire knowledge about e- marketing.
	CO.3.	To understand the factors influencing buying behavior and their motives.
	CO.4.	To familiarize modern marketing trends.
	CO.5	To impart knowledge about product, product mix, product life cycle, product pricing etc.
	CO.6.	To familiarize with the physical distribution of goods and services.
	CO.7.	To know different promotional techniques used for product marketing.
	CO.8.	To understand critically on various issues regarding advertisements.
	CO.9.	To understand rural marketing and its importance.
	CO.10	To understand Sales promotion techniques.
	Semester 3	BC3A11: Basics numerical methods
	CO.1.	To understand the Mathematics of Finance like simple and compound interest.
	CO.2.	To understand set operations, fundamental ideas about matrices and their operational rules.
	CO.3.	To understand theory of equations and problems on business application.
	CO.4.	To enable the students for applying linear and simultaneous equations in business
	CO.5	To study the presentation of data by diagrammatic and graphical method.
	CO.6.	To Know about Arithmetic Progression and Geometric Progression and practical application.
	CO.7.	To enable the students to acquire the knowledge of mathematics and statistics.
	CO.8.	To understand statistics and their importance in our life.
	CO.9.	To study statistical tools and their applications.
	CO.10	To know about measures of Central Tendency like mean, median and Mode.
		BC3A12: Professional Business Skills
	CO.1.	To update and expand basic Informatics skills of the students.
	CO.2.	To equip the students to effectively utilize the digital knowledge resources for their study.
	CO.3.	To identify the IT scope for knowledge skills for higher education, IPR, Educational software, academic services.
	CO.4.	To get knowledge about cyber law and social informatics related to IT and society, opportunities and threats.
	CO.5	To familiarize the students about programmes for Office Management and operating systems like Windows, Linux and UNIX.
	CO.6.	To familiarize the students about Cyber addictions.

	CO.7.	To give brief knowledge about E governance
	CO.8.	To understand the concept of Green computing
	CO.9.	To know the Security issues.
	CO.10	To know about Cyber-crimes.
		BC3B03: Business Regulations
	CO.1.	To familiarize the students to certain statutes concerning and affecting business organizations in their operations.
	CO.2.	To aware about Indian Contract Act, 1872 and its terms
	CO.3.	To familiarize special contracts related to Indemnity, Guarantee, Bailment and Pledge.
	CO.4.	To provide insight about the Sale of Goods Act, 1930
	CO.5	To know about The Consumer Protection Act, 1986
	CO.6.	To understand The Limited Liability Partnership Act, 2008.
	CO.7.	To understand the classification of Partnership forms.
	CO.8.	To familiarize the concept of Free consent in Indian Contract Act.
	CO.9.	To understand the concept of Caveat emptor
	CO.10	To know the role of Limited liability partners.
		BC3B04: Corporate Accounting
	CO.1.	To help the students to acquire conceptual knowledge of the fundamentals of corporate accounting and the techniques of preparing the financial statements.
	CO.2.	To held to acquire the knowledge about Asset based Accounting Standards
	CO.3.	To know the revenue and liability based Accounting Standards .
	CO.4.	To get an awareness about IAS (Ind AS) 20,IAS (Ind AS) 17 & IFRS2/ Ind AS102
	CO.5	To understand the treatment of items in Accounting For Joint Stock Companies.
	CO.6.	To acquire the knowledge about Presentation of Single Entity Financial Statements Covered by IFRS Convergence (IAS 1 and Ind AS 1).

	CO.7.	To get an idea about the preparation of financial statements: Statement of Financial Position (SOFP), Statement of Profit or Loss (SOPL), Statement of changes in Equity (SOCE) and Cash Flow Statement (SO CF).
	CO.8.	To identify the treatment of Business Combinations And Consolidated Statements (IFRS 3,10,13 and Ind AS103, Ind AS 27, Ind AS 28).
	CO.9.	To acquire the knowledge about Accounting For Electricity Companies.
	CO.10	To acquire knowledge about the preparation of final accounts of electricity companies.
		BC3C03: E-Commerce Management
	CO.1.	To enable the student to understand the basics of E – Commerce.
	CO.2.	To Gain a practical orientation to E-Commerce and E- Business management.
	CO.3.	To understand the business models of e-commerce.
	CO.4.	To be aware about marketing strategies and e-commerce websites.
	CO.5	To give an insight into the Electronic Payment System.
	CO.6.	To discuss the legal & ethical issues and regulatory framework of e-commerce
	CO.7.	To equip the students for creating Websites.
	CO.8.	To aware regarding the Security issues in E Commerce
	CO.9.	To know the Legal aspect in E Commerce
	CO.10	To aware the students regarding the physical distribution in E commerce.
	Semester 4	BC4A13: Entrepreneurship Development
	CO.1.	To familiarize the students with the concept of entrepreneurship.
	CO.2.	To identify and develop the entrepreneurial talents of the students.
	CO.3.	To understand the factors affecting entrepreneurial growth.
	CO.4.	To identify the role of entrepreneurs in economic development.
	CO.5	To aware about the role of promotional institutions such as KINFRA, KITCO, MSME & DIC
	CO.6.	To provide knowledge in project report preparation.
	CO.7.	To gain insight into the identification of business opportunities in the context of Kerala.T
	CO.8.	To generate innovative business ideas in the emerging industrial scenario.
	CO.9.	To get an idea about business incubation.
	CO.10	To know about the setting up of business incubation centres.

BC4A14: Banking and Insurance		
	CO.1.	To enable the students to acquire knowledge about basics of banking and insurance and to familiarize the students with the modern trends in banking.
	CO.2.	To know an idea about the origin and development of banking, different categories of banking in India.
	CO.3.	To know about the central bank and its functions in our country.
	CO.4.	To know different types of Accounts and procedure for opening and operating the accounts of different customers.
	CO.5.	To get an awareness about different negotiable instruments in use.
	CO.6.	To equip the students with different e-banking products and services.
	CO.7.	To enable the students to acquire knowledge about basics of insurance.
	CO.8.	To know the various kinds of insurance.
	CO.9.	To understand the general principles of life insurance and general insurance.
	CO.10.	To enable the students to relate to different types of insurance policies.
BC4B05: Cost Accounting		
	CO.1.	To familiarize the students with the various concepts and elements of cost.
	CO.2.	To create cost consciousness among the students.
	CO.3.	To equip the students with basic idea about the preparation cost sheets
	CO.4.	To give an idea about different methods of costing
	CO.5.	To give an orientation about material, labour and overhead costs for producing a product
	CO.6.	To impart the idea about cost controlling techniques
	CO.7.	To understand the concept of Budget & Budgetary Control
	CO.8.	To make awareness regarding the treatment of Office expenses.
	CO.9.	To understand about Standard costing
	CO.10.	To solve transportation problems.
BC4B06: Corporate Regulations		
	CO.1.	To familiarize the students with corporate law and to make them aware of the importance of corporate governance in the management of organizations
	CO.2.	To get knowledge about Companies Act, 2013.
	CO.3.	To equip the students with knowledge regarding the formation of companies.
	CO.4.	To give an insight about the issue of share capital.
	CO.5.	To familiarize with the management of companies.
	CO.6.	To understand the company meetings .
	CO.7.	To understand the duties of a company Secretary.

	CO.8.	To understand the Qualifications of a company secretary.
	CO.9.	To Acquire thorough knowledge about Sebi
	CO.10	To understand the Winding up of a Company
		BC4C04: Quantitative techniques for Business
	CO.1.	To familiarize the students with the use of quantitative techniques in managerial decision making.
	CO.2.	To introduce basics of quantitative techniques
	CO.3.	To give insight into the probability theorems.
	CO.4.	To aware about correlation and regression analysis.
	CO.5	To understand different theoretical distributions
	CO.6.	To gain knowledge in statistical inferences by using hypothesis.
	CO.7.	To familiarize Non parametric tests.
	CO.8.	To get detailed knowledge about Anova test.
	CO.9.	To familiarize Parametric tests.
	CO.10	To know the concept of Normal distribution
	Semester 5	BC5BO7: Accounting for Management
	CO.1.	To enable the students to understand the concept and relevance of management accounting.
	CO.2.	To provide the students an understanding about the use of accounting and costing data for planning, control, and decision making
	CO.3.	To understand the recent trends in management reporting
	CO.4.	To familiarize various tools of analysis and interpretation of financial statements
	CO.5	Like comparative statements, trend analysis, common size statements.
	CO.6.	To give a deep understanding about ratio analysis.
	CO.7.	To impart detailed knowledge about fund flow statements.
	CO.8.	To impart knowledge about cash flow statements.
	CO.9.	To equip managerial decision making by using marginal costing.
	CO.10	To understand Cost Volume Profit Analysis and decision making
		BC5BO8: Business Research Methods
	CO.1.	To enable students for acquiring basic knowledge in business research methods
	CO.2.	To familiarize with different types of business research.
	CO.3.	To give insight about the phases of business research

	CO.4.	To impart the components of a research design
	CO.5	To gain knowledge in the various types of research design .
	CO.6.	To equip the students with data collection methods in detail
	CO.7.	To develop basic skills in students to conduct survey, researches and case studies.
	CO.8.	To impart insight in the data measurement and scaling
	CO.9.	To give knowledge in the descriptive and inferential analysis of the collected data.
	CO.10	To equip the students in the preparation of research reports.
		BC5B09: Income tax law and Accounts
	CO.1.	To impart basic knowledge with the application of principles and provisions of income tax act, 1961 amended up to date
	CO.2.	To equip the students with basic concept of income , person assessee, assessment year etc.,
	CO.3.	To get an awareness regarding computation of income under various heads
	CO.4.	To provide insight to calculate income from house property
	CO.5	To aware about the profit and gains of business or profession
	CO.6.	To hold awareness about the calculation of income from house property under different circumstances
	CO.7.	To understand the deductions , allowable expenses and non-allowable expenses
	CO.8.	To know the capital gains
	CO.9.	To know the practical way of calculating income under various heads
	CO.10	To get a basic idea regarding the income tax
		BC5B10: financial markets and services
	CO.1.	To get an awareness regarding the Indian Financial system.
	CO.2.	To have an insight regarding the functioning of money market and capital market
	CO.3.	To have a knowledge about innovative financial instruments
	CO.4.	To have an idea about various money market instruments
	CO.5	To understand the importance of financial services
	CO.6.	To understand the importance of capital market in an economy
	CO.7.	To understand the various regulatory mechanism relating to financial markets
	CO.8.	To understand the insurance sector and its regulatory measures in india
	CO.9.	To impart the basic concept of depository and depository participants

	CO.10	To understand the various developmental financial institutions
		BC5B11: financial management
	CO.1.	To know the meaning and nature of financial management
	CO.2.	To know the concept of risk and return
	CO.3.	To know the meaning and nature of capital budgeting
	CO.4.	To know capital budgeting under risk adjusted discount rate
	CO.5	To know about the term cost of capital and its components
	CO.6.	To know the different source of finance
	CO.7.	To know how to calculate the cost of equity, debt and preference capital
	CO.8.	To familiarize the theories of dividend
	CO.9.	To know the concept of working capital and its types
	CO.10	To know the concept of cash management and its different Methods
		BC5D02 - Basics of Entrepreneurship And Management Open Course
	CO.1.	To Understand the concept of business
	CO.2.	To Know the Social Responsibility of business.
	CO.3.	To Get an idea about the Entrepreneurship
	CO.4.	To Know about the Principles of management
	CO.5	To Get a clear picture about Functions of Management
	CO.6.	To detailed study about the concept of micro, small and medium enterprises
	CO.7.	To explain the concept of types of organization
	CO.8.	To help the students to understand the forms of business enterprises
	CO.9.	To help the students to understand concept of leadership
	CO.10	To explain the controlling activity
	Semester 6	BC6B12: Income Tax and GST
	CO.1.	To impart basic knowledge and equip the students with application of principles and provisions of Income Tax Act, 1961 up-to-date.
	CO.2.	To familiarize the treatment of agricultural income and calculation of gross total income
	CO.3.	To make aware about agriculture income, residential status and incidence/charge of tax.
	CO.4.	To understand the computation of income from salaries
	CO.5	To gain knowledge about the computation of income from house property
	CO.6.	To attain the ability to calculate profits and gains of business or profession.

	CO.7.	To equip insight in GST Act 2016
	CO.8.	To solve the problems relating to Income from other sources.
	CO.9.	To equip the students to calculate Gross Total Income.
	CO.10	To enable the students to make assessments of Individuals.
		BC6B13: Auditing
	CO.1.	To impart knowledge about auditing principles, procedures and techniques in accordance with current legal requirements and professional standards.
	CO.2.	To give conceptual understanding of auditing, its classification, advantages and limitations.
	CO.3.	To familiarize with internal control, internal check and internal audit.
	CO.4.	To understand the procedure of conducting an audit.
	CO.5	To understand the procedure for conducting vouching.
	CO.6.	To acquire knowledge about verification and valuation of assets and liabilities.
	CO.7.	To acquire knowledge about different approaches to auditing.
	CO.8.	To know how to prepare a company auditor report.
	CO.9.	To familiarize about tax audit and management audit.
	CO.10	To know special areas of Audit and recent trends in auditing.
		BC6B14 :Financial Derivatives
	CO.1.	To get a clear picture about the types of financial derivatives
	CO.2.	To understand the economic functions of derivative contracts.
	CO.3.	To get knowledge about the major participants of derivative market
	CO.4.	To aware students about the regulatory framework for derivatives trading in india
	CO.5	To equip students with knowledge about forward contract and future contract
	CO.6.	To know about types of SWAPS and OPTIONS
	CO.7.	To understand about the Participants in a derivative market
	CO.8.	To know more about the types of future contracts
	CO.9.	To know them Trading strategies in stock futures.
	CO.10	To get an idea about Types of swaps.
		BC6B15: Fundamentals of Investments
	CO.1.	To know the term investment and investment process
	CO.2.	To know the various source of financial information
	CO.3.	To get an idea about fixed income securities such as Bonds

	CO.4.	To know various approaches to security analysis.
	CO.5	To know the fundamental analysis and technical analysis
	CO.6.	To familiarize dividend capitalization models.
	CO.7.	To know the role of SEBI and stock exchanges in protecting investors.
	CO.8.	To know the grievances of investors and their redressal system.
	CO.9.	To know the role of SEBI and stock exchanges in protecting investors
	CO.10	To know the investors' awareness and activism about Insider trading.

NAME OF THE DEPARTMENT	B.Com Computer Application	
PROGRAMME CODE AND PROGRAMME NAME	BCB B.com Computer Application	
PROGRAMME OUTCOMES(POs)	PO.1	Students would gain a thorough grounding in the fundamentals of Commerce and Finance.
	PO.2	The commerce and finance focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce and business
	PO.3.	The all-inclusive outlook of the course offer a number of values based and job oriented courses ensures that students are trained into up-to-date. In advanced accounting courses beyond the introductory level, affective development will also progress to the valuing and organization levels.
	PO.4	Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.
	PO.5	Learners will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.
	PO.6	Leaners will acquire the skills like effective communication, decision making, problem solving in day to day business affairs.
PROGRAMME SPECIFIC OUTCOMES (PSOs)	PSO.1.	Study of this program will provide wide knowledge both in commerce and Computer software applications.
	PSO.2.	Program includes various accounting courses, enables the students to gain theoretical and problem solving ability of the students.
	PSO.3.	Business software applications courses like Tally will enable the students to start a small software business of self-employment.
	PSO.4.	Courses of this program provide bright future in the IT fields, Software, Banks, Companies, BPOs and KPOs.

	PSO. 5.	This program courses consist of both theoretical as well as good practical exposures to the students in the relevant areas to meet the industries expectations.
	PSO.6.	These courses have opened the floodgates in the area of computers and other core industries, and other professional studies CA, ICWA etc.
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	Semester1	BC1B01- Business Management
	CO.1.	To familiarize the students with current management practices.
	CO.3.	To know more about major contributions made by various management experts during different periods.
	CO.4.	To impart the knowledge about different functions of management.
	CO.5	To understand the leadership styles.
	CO.6.	To understand the importance of ethics in business.
	CO.7.	To understand the importance of motivation in business.
	CO.8.	To acquire knowledge about ethical practices for effective management.
	CO.9.	To understand the emerging concepts in management.
	CO 10.	To impart knowledge about the importance of modern approaches in management.
		BC1C01- Managerial Economics
	CO.1.	To impart the basics of managerial economics.
	CO.2.	To familiarize with demand and supply and its application.
	CO.3.	To know the process and methods of demand forecasting.
	CO.4.	To insight the theory of consumer behavior.
	CO.5	To give an insight about the tools and techniques of cost minimization.
	CO.6.	To familiarize the law of production and law of returns.
	CO.7.	To give over all understanding of market structure.
	CO.8.	To impart the concept of macroeconomics particularly Indian economy.
	CO.9.	To help the students to understand the application of economic principles in business management.
	CO.10	To impart a brief description about inflation in India.
	Semester 2	BC2B02: Financial Accounting.
	CO.1.	To equip the students with the skill of preparing accounts for banking companies.
	CO.2.	To know the role and objectives of accounting standards.

	CO.3.	To equip with requirements of international accounting standards.
	CO.4.	To enable the students to acquire knowledge about financial reporting standards and to understand corporate accounting methods.
	CO.5	To impart knowledge about the accounts of corporate entities not covered by IFRS Convergence.
	CO.6.	To give basic knowledge about the preparation of financial statements of non -corporate entities not covered by IFRS Convergence.
	CO.7.	To impart knowledge about accounting for insurance companies.
	CO.8.	To give insight about the profit determination of life insurance.
	CO.9.	To give an insight in the preparation of corporate entities not covered by IFRS convergence.
	CO.10	To equip the students to know the difference between IAS and IFRS.
		BC2C02: Marketing Management
	CO.1.	To impart necessary knowledge which help the student to choose a carrier in the field of marketing.
	CO.2.	To enable the students to acquire knowledge about e- marketing.
	CO.3.	To understand the factors influencing buying behavior and their motives.
	CO.4.	To familiarize modern marketing trends.
	CO.5	To impart knowledge about product, product mix, product life cycle, product pricing etc.
	CO.6.	To familiarize with the physical distribution of goods and services.
	CO.7.	To know different promotional techniques used for product marketing.
	CO.8.	To understand critically on various issues regarding advertisements.
	CO.9.	To understand rural marketing and its importance.
	CO.10	To understand Sales promotion techniques.
	Semester 3	BC3A11: Basics numerical methods
	CO.1.	To understand the Mathematics of Finance like simple and compound interest.
	CO.2.	To understand set operations, fundamental ideas about matrices and their operational rules.
	CO.3.	To understand theory of equations and problems on business application.
	CO.4.	To enable the students for applying linear and simultaneous equations in business
	CO.5	To study about the presentation of data by diagrammatic and graphical method.
	CO.6.	To Know about Arithmetic Progression and Geometric Progression and practical application.
	CO.7.	To enable the students to acquire the knowledge of mathematics and statistics.
	CO.8.	To understand statistics and their importance in our life.
	CO.9.	To study the statistical tools and their applications.

	CO.10	To know about measures of Central Tendency like mean, median and Mode.
		BC3A12: Professional Business Skills
	CO.1.	To update and expand basic Informatics skills of the students.
	CO.2.	To equip the students to effectively utilize the digital knowledge resources for their study.
	CO.3.	To identify the IT scope for knowledge skills for higher education, IPR, Educational software, academic services.
	CO.4.	To get knowledge about cyber law and social informatics related to IT and society, opportunities and threats.
	CO.5	To familiarise the students about programmes for Office Management and operating systems like Windows, Linux and UNIX.
	CO.6.	To familiarize the students about Cyber addictions.
	CO.7.	To give brief knowledge about E governance
	CO.8.	To understand the concept of Green computing
	CO.9.	To know the Security issues.
	CO.10	To know about Cyber-crimes.
		BC3B03: Business Regulations
	CO.1.	To familiarize the students to certain statutes concerning and affecting business organizations in their operations.
	CO.2.	To aware about Indian Contract Act, 1872 and its terms
	CO.3.	To familiarise special contracts related to Indemnity, Guarantee, Bailment and Pledge.
	CO.4.	To provide insight about the Sale of Goods Act, 1930
	CO.5	To know about The Consumer Protection Act, 1986
	CO.6.	To understand The Limited Liability Partnership Act, 2008.
	CO.7.	To understand the classification of Partnership forms.
	CO.8.	To familiarize the concept of Free consent in Indian Contract Act.
	CO.9.	To understand the concept of Caveat emptor
	CO.10	To know the role of Limited liability partners.
		BC3B04: Corporate Accounting

	CO.1.	1. To help the students to acquire conceptual knowledge of the fundamentals of the corporate accounting and the techniques of preparing the financial statements.
	CO.2.	To help to acquire the knowledge about Asset based Accounting Standards
	CO.3.	To know the revenue and liability based Accounting Standards .
	CO.4.	To get an awareness about IAS (Ind AS) 20,IAS (Ind AS) 17 & IFRS2/ Ind AS102
	CO.5	To understand the treatment of items in Accounting For Joint Stock Companies.
	CO.6.	To help to acquire the knowledge about Presentation of Single Entity Financial Statements Covered by IFRS Convergence (IAS 1 and Ind AS 1).
	CO.7.	To get an idea about the preparation of financial statements: Statement of Financial Position (SOFP),Statement of Profit or Loss (SOPL),Statement of changes in Equity (SOCE) and Cash Flow Statement (SOCF).
	CO.8.	To identify the treatment of Business Combinations And Consolidated Statements (IFRS 3,10,13 and Ind AS103, Ind AS 27, Ind AS 28).
	CO.9.	To acquire the knowledge about Accounting For Electricity Companies.
	CO.10	To acquire knowledge about the preparation of final accounts of electricity companies.
		BC3C03: HUMAN RESOURCE MANAGEMENT
	CO.1.	To familiarize the students with the different aspects of managing human resources
	CO.2.	To equip the students with basic knowledge and skills required for the acquisition.
	CO.3.	Development and retention of human resources
	CO.4.	To provide insight about performance appraisal and career planning
	CO.5	To aware about the compensation management
	CO.6.	To hold awareness about the mechanism of grievance redressal system.
	CO.7.	To know the method of Incentives system existed in organizations
	CO.8.	To know the Training needs in the field of human resources
	CO.9.	To understand the term Performance appraisal
	CO.10	To know the Modern techniques of performance appraisal.
	Semester 4	BC4A13: Entrepreneurship Development

	CO.1.	To familiarise the students with the concept of entrepreneurship.
	CO.2.	To identify and develop the entrepreneurial talents of the students.
	CO.3.	To understand the factors affecting entrepreneurial growth.
	CO.4.	To identify the role of entrepreneurs in economic development.
	CO.5	To aware about the role of promotional institutions such as KINFRA, KITCO, MSME & DIC
	CO.6.	To provide knowledge in project report preparation.
	CO.7.	To gain insight into the identification of business opportunities in the context of Kerala.T
	CO.8.	To generate innovative business ideas in the emerging industrial scenario.
	CO.9.	To get an idea about business incubation.
	CO.10	To know about the setting up of business incubation centers.
		BC4A14: Banking and Insurance
	CO.1.	To enable the students to acquire knowledge about basics of banking and insurance and to familiarise the students with the modern trends in banking.
	CO.2.	To know an idea about origin and development of banking, different categories of banking in India.
	CO.3.	To know about central bank and its functions in our country.
	CO.4.	To know different types of Accounts and procedure for opening and operating the accounts of different customers.
	CO.5	To get an awareness about different negotiable instruments in use.
	CO.6.	To equip the students with different e-banking products and services.
	CO.7.	To enable the students to acquire knowledge about basics of and insurance.
	CO.8.	To know the various kinds of insurance.
	CO.9.	To understand the general principles of life insurance and general insurance.
	CO.10	To enable the students relate to different types of insurance policies.
		BC4B05: Cost Accounting
	CO.1.	To familiarize the students with the various concepts and elements of cost.
	CO.2.	To create cost consciousness among the students.
	CO.3.	To equip the students with basic idea about the preparation cost sheets
	CO.4.	To give an idea about different methods of costing
	CO.5	To give an orientation about material, labour and overhead costs for producing a product

	CO.6.	To impart the idea about cost controlling techniques
	CO.7.	To understand the concept of Budget& Budgetary Control
	CO.8.	To make awareness regarding the treatment of Office expense.
	CO.9.	To understand about Standard costing
	CO.10	To solve transportation problems.
		BC4B06: Corporate Regulations
	CO.1.	To familiarise the students with corporate law and to make them aware of the importance of corporate governance in the management of organisations
	CO.2.	To get knowledge about Companies Act, 2013.
	CO.3.	To equip the students about the knowledge regarding formation of companies.
	CO.4.	To give an insight about the issue of share capital.
	CO.5	To familiarise about the management of companies.
	CO.6.	To understand the company meetings .
	CO.7.	To understand the duties of a company Secretary.
	CO.8.	To understand the Qualifications of a company secretary.
	CO.9.	To Acquire thorough knowledge about Sebi
	CO.10	To understand the Winding up of a Company
		BC4C04: Quantitative techniques for Business
	CO.1.	To familiarise the students with the use of quantitative techniques in managerial decision making.
	CO.2.	To introduce basics of quantitative techniques
	CO.3.	To give insight into the probability theorems.
	CO.4.	To aware about correlation and regression analysis.
	CO.5	To understand different theoretical distributions
	CO.6.	To gain knowledge in statistical inferences by using hypothesis.
	CO.7.	To familiarize Non parametric tests.
	CO.8.	To get detailed knowledge about Anova test.
	CO.9.	To familiarize Parametric tests.
	CO.10	To know the concept of Normal distribution
	Semester 5	BC5B07: Accounting for Management

	CO.1.	To enable the students to understand the concept and relevance of management accounting.
	CO.2.	To provide the students an understanding about the use of accounting and costing data for planning, control, and decision making
	CO.3.	To understand the recent trends in management reporting
	CO.4.	To familiarize various tools of analysis and interpretation of financial statements
	CO.5	Like comparative statements, trend analysis, common size statements.
	CO.6.	To give a deep understanding about ratio analysis.
	CO.7.	To impart detailed knowledge about fund flow statements.
	CO.8.	To impart knowledge about cash flow statements.
	CO.9.	To equip managerial decision making by using marginal costing.
	CO.10	To understand Cost Volume Profit Analysis and decision making
		BC5B08: Business Research Methods
	CO.1.	To enable students for acquiring basic knowledge in business research methods
	CO.2.	To familiarize with different types of business research.
	CO.3.	To give insight about the phases of business research
	CO.4.	To impart the components of a research design
	CO.5	To gain knowledge in the various types of research design .
	CO.6.	To equip the students with data collection methods in detail
	CO.7.	To develop basic skills in students to conduct survey, researches and case studies.
	CO.8.	To impart insight in the data measurement and scaling
	CO.9.	To give knowledge in the descriptive and inferential analysis of the collected data.
	CO.10	To equip the students in the preparation of research report.
		BC5B09: Income tax law and Accounts
	CO.1.	To impart basic knowledge with the application of principles and provisions of income tax act, 1961 amended up to date
	CO.2.	To equip the students with basic concept of income , person assessee, assessment year etc.,
	CO.3.	To get an awareness regarding computation of income under various heads
	CO.4.	To provide insight to calculate income from house property
	CO.5	To aware about the profit and gains of business or profession
	CO.6.	To hold awareness about the calculation of income from house property under different circumstances
	CO.7.	To understand the deductions , allowable expenses and non-allowable expenses

	CO.8.	To know the capital gains
	CO.9.	To know the practical way of calculating income under various heads
	CO.10	To get a basic idea regarding the income tax
		BC5B10: BUSINESS APPLICATIONS OF COMPUTERS
	CO.1.	To make the students aware of various computer and operating systems
	CO.2.	To introduce the concept of network system and information technology
	CO.3.	To know about the basic components of computers
	CO.4.	To enable the students about the uses of the various applications
	CO.5	To familiarize IT Act and major provisions of IT Act
	CO.6.	To know about the various applications of computers
	CO.7.	To familiarize the students with the computer frauds
	CO.8.	To know about the various business applications of computers
	CO.9.	To know about the information technology
	CO.10	To enable the students an overall idea about the technological application
		BC5B11: BUSINESS INFORMATION SYSTEM
	CO.1.	To enable the students to identify the basic importance of information technology.
	CO.2.	To Make sure that the students realize the application level of information technology in various level of business.
	CO.3.	To get knowledge about use of data and information in various levels of business.
	CO.4.	To capture idea regarding basic information system
	CO.5	To find out different types of database management systems
	CO.6.	To get acquainted in various types of software.
	CO.7.	To get an idea about the enterprise resource planning
	CO.8.	To know about the implementation of ERP
	CO.9.	To know about the Business process reengineering
	CO.10	To know about the various problems of BPR
		BC5D01-E COMMERCE
	CO.1.	To give an introduction to ecommerce
	CO.2.	To give an idea about the meaning and concept of e-commerce
	CO.3.	To know about the to know about the to know about the electronic
	CO.4.	To provide the information relating to the important features and benefits of e-commerce
	CO.5	Understand The E-Commerce structure
	CO.6.	To familiarize students with the models of e-commerce
	CO.7.	To understand the students with the emergence of internet as a competitive advertising media

	CO.8.	To know the models how Internet payment system
	CO.9.	To understand the students with the emergence of internet as a competitive advertising media
	CO.10	To know the models how Internet payment system
	Semester 6	BC6B12: Income Tax and GST
	CO.1.	To impart basic knowledge and equip the students with application of principles and provisions of Income Tax Act, 1961 up-to-date.
	CO.2.	To familiarise the treatment of agricultural income and calculation of gross total income
	CO.3.	To make aware about agriculture income, residential status and incidence/charge of tax.
	CO.4.	To understand the computation of income from salaries
	CO.5	To gain knowledge about the computation of income from house property
	CO.6.	To attain the ability to calculate profits and gains of business or profession.
	CO.7.	To equip insight in GST Act 2016
	CO.8.	To solve the problems relating to Income from other source.
	CO.9.	To equip the students to calculate Gross Total Income.
	CO.10	To enable the students to make assessment of Individuals.
		BC6B13: Auditing and corporate governance
	CO.1.	To impart knowledge about auditing principles, procedures and techniques in accordance with current legal requirements and professional standards.
	CO.2.	To give conceptual understanding of auditing, its classification, advantages and limitations.
	CO.3.	To familiarize with internal control, internal check and internal audit.
	CO.4.	To understand the procedure of conducting audit.
	CO.5	To understand the procedure for conducting vouching.
	CO.6.	To acquire knowledge about verification and valuation of assets and liabilities.
	CO.7.	To acquire knowledge about different approaches to auditing.
	CO.8.	To know how to prepare company auditor report.
	CO.9.	To familiarize about tax audit and management audit.
	CO.10	To know special areas of Audit and recent trends in auditing.
		BC6B14: OFFICE AUTOMATION TOOLS

	CO.1.	To enable the students about word and parts of window and to understand the creation of tables and its various features
	CO.2.	To understand the Excel and also its various features
	CO.3.	Enable the students regarding the power point and creating slides in Microsoft power point
	CO.4.	Understand the Internet and its various applications
	CO.5	Get a clear idea about the applications of distributed computing
	CO.6.	To know about the various internet protocols
	CO.7.	To know about the technological foundation in India
	CO.8.	To know about the Domain Name system
	CO.9.	To understand the Internet Protocol applications of internet in business
	CO.10	To know about the applications of internet in education and governance
		BC6B15:COMPUTERIZED ACCOUNTING WITH TALLY
	CO.1.	Understand the basic knowledge about Tally
	CO.2.	Familiarize with the various tally vouchers
	CO.3.	Get an idea about the cost centers and cost category
	CO.4.	To know the creation of cost centers
	CO.5	To understand the creation of stock groups
	CO.6.	Understand the creation of various tally vouchers
	CO.7.	Enable the students to get an idea about the advanced inventory and various reorder levels
	CO.8.	Familiarize them how the maintain various levels of inventory
	CO.9.	Enable the students the know the technological advantages of Tally
	CO.10	Understand the students with the GST and Tally

BC6B16 PROJECT AND VIVA VOCE

	CO.1	Generate an attitude towards research
	CO.2	Able to process the data

NAME OF THE DEPARTMENT	PG Department of Commerce and Management Studies	
PROGRAMME CODE AND PROGRAMME NAME	BBA , Bachelor of Business Administration	
PROGRAMME OUTCOMES(POs)	PO.1	To provide adequate basic understanding about Management Education among the students.
	PO.2	To offer a number of specializations and practical exposures which would equip the student to face the modern-day challenges in business
	PO.3.	To inculcate Entrepreneurial skills.
	PO.4	Learners will acquire the skills like effective communication, decision making, problem solving in day to day business affairs in an ethical manner
	PO.5	Learners will be able to prove proficiency with the ability to engage in competitive exams.
	PO.6	To foster thinking minds that are sensitive to societal needs and issues thus making them good human beings and responsible members of the society.
PROGRAMME SPECIFIC OUTCOMES (PSOs)	PSO.1.	Analyse the theoretical knowledge with the practical aspects of organizational setting and techniques or management.
	PSO.2.	Develop knowledge, understanding and subject skills related to the principles and practice of modern business administration with a more in depth knowledge of Marketing.
	PSO.3.	Understand the micro and macro marketing environment.
	PSO.4.	Gain a firm foundation, in key areas of accountancy and finance, economics and business management and business skills to give flexibility to suit interests and career aspirations.
	PSO. 5.	Understand the problems faced by the business sector in the Current scenario.
	PSO.6.	Provide the opportunity to carry out research on an agreed topic, within the broader area of business but with a focus towards Marketing.
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	Semester1	BBA1B01ManagementTheory andPractices
	CO.1.	To familiarize the students with current management practices.
	CO.3.	To know more about major contributions made by various management experts during different periods.
	CO.4.	To impart the knowledge about different functions of management.
	CO.5	To understand the leadership styles.

	CO.6.	To understand the importance of ethics in business.
	CO.7.	To understand the importance of motivation in business.
	CO.8.	To acquire knowledge about ethical practices for effective management.
	CO.9.	To understand the emerging concepts in management.
	CO 10.	To impart knowledge about the importance of modern approaches in management.
		BB1C01- Managerial Economics
	CO.1.	To impart the basics of managerial economics.
	CO.2.	To familiarize with demand and supply and its application.
	CO.3.	To know the process and methods of demand forecasting.
	CO.4.	To insight the theory of consumer behavior.
	CO.5	To give an insight about the tools and techniques of cost minimization.
	CO.6.	To familiarize the law of production and law of returns.
	CO.7.	To give over all understanding of market structure.
	CO.8.	To impart the concept of macroeconomics particularly Indian economy.
	CO.9.	To help the students to understand the application of economic principles in business management.
	CO.10	To impart a brief description about inflation in India.
	Semester 2	BBA2B02: Financial Accounting.
	CO.1.	To equip the students with the skill of preparing financial statements of proprietary organizations.
	CO.2.	To know the role and objectives of accounting standards.
	CO.3.	To equip with requirements of international accounting concepts and conventions.
	CO.4.	To enable the students to acquire the skills for preparing books of accounts of business organisation
	CO.5	To impart knowledge about the accounts of corporate entities not covered by IFRS Convergence.
	CO.6.	To give basic knowledge to the students in respect of accounting of issue of securities, accounting for hire purchase transactions and the accounting of branches.
	CO.7.	To impart knowledge about instalment system.
		BBA2B03: Marketing Management
	CO.1.	To impart necessary knowledge which help the student to choose a carrier in the field of marketing.
	CO.2.	To enable the students to acquire knowledge about e- marketing.
	CO.3.	To understand the factors influencing buying behaviour and their motives.

	CO.4.	To familiarize modern marketing trends.
	CO.5	To impart knowledge about product, product mix, product life cycle, product pricing etc.
	CO.6.	To familiarize with the physical distribution of goods and services.
	CO.7.	To know different promotional techniques used for product marketing.
	CO.8.	To understand critically on various issues regarding advertisements.
	CO.9.	To understand rural marketing and its importance.
	CO.10	To understand Sales promotion techniques.
	Semester 3	BBA3A11: Basic Numerical Methods
	CO.1.	To enable the students to acquire the knowledge of financial mathematics like simple and compound interest.
	CO.2.	To understand set operations, fundamental ideas about matrices and their operational rules.
	CO.3.	To understand theory of equations and problems on business application.
	CO.4.	To enable the students for applying linear and simultaneous equations in business
	CO.5	To study about the presentation of data by diagrammatic and graphical method.
	CO.6.	To Know about Arithmetic Progression and Geometric Progression and practical application.
	CO.7.	To understand descriptive statistics and their applications.
	CO.8.	To know about measures of Central Tendency like mean ,median and Mode.
		BBA3A12- Professional Business Skills
	CO.1.	To update and expand business data analysis.
	CO.2.	To familiarize the students about e-learning and equip the students to effectively utilize the digital knowledge resources for their study.
	CO.3.	To get knowledge about professionalism
	CO.4.	To familiarise the students about Socio_Cyber Informatics.
	CO.5.	To familiarize the students about e-learning.
	CO.6.	To give brief knowledge about digital marketing
	CO.7.	To understand the concept of e-governance.
	CO.8.	To know the Security issues.
	CO.9.	To know about e- waste and Green Computing.
		BBA3B04CorporateAccounting
	CO.1.	To familiarise the students with the use of accounting standards.
	CO.2.	To introduce the fundamental Indian accounting standard and equip the students with skills for preparing corporate accounts.
	CO.3.	To prepare annual financial statements for companies and compute accounting ratios.

	CO.4.	To aware about cash flow statement.
	CO.5	To understand and apply fundamental IndASs on inventories
	CO.6.	To gain knowledge about accounting transactions in respect of redemption of preference shares.
	CO.7.	To familiarize accounting transactions in respect of debentures.
		BBA3B05 FinancialManagement
	CO.1.	To familiarise the students with the meaning, nature, tools and practices of financial management.
	CO.2.	To enable the students know about investment, financing and dividend decisions.
	CO.3.	To get an idea about capital budgeting and its nature.
	CO.4.	To enable students to find out NPV, IRR, ARR etc. as a part of capital budgeting decisions.
	CO.5	To know about working capital and its types.
	CO.6.	To understand cash management and receivables management.
	CO.7.	To know about capital structure theories.
	CO.8.	To enable students to find out the cost of various capital structures.
	CO.9.	To know about dividend decisions.
	CO.10	To familiarise the principles of dividend policy.
		BBA3C02BusinessRegulations
	CO.1.	To familiarize the students to certain statutes concerning and affecting business organizations in their operations.
	CO.2.	To aware about Indian Contract Act, 1872 and its terms
	CO.3.	To familiarise special contracts related to Indemnity, Guarantee, Bailment and Pledge.
	CO.4.	To provide insight about the Sale of Goods Act, 1930
	CO.5	To know about The Consumer Protection Act, 1986
	CO.6.	To understand The Limited Liability Partnership Act, 2008.
	CO.7.	To understand the classification of Partnership firms.
	CO.8.	To know the role of Limited liability partners.
	Semester 4	BBA4A13EntrepreneurshipDevelopment
	CO.1.	To familiarise the students with the concept of entrepreneurship.
	CO.2.	To identify and develop the entrepreneurial talents of the students.
	CO.3.	To understand the factors affecting entrepreneurial growth.
	CO.4.	To identify the role of entrepreneurs in economic development.
	CO.5	To aware about the role of promotional institutions such as KINFRA, KITCO, MSME & DIC
	CO.6.	To provide knowledge in project report preparation.
	CO.7.	To gain insight into the identification of business opportunities in the context of Kerala.
	CO.8.	To generate innovative business ideas in the emerging industrial scenario.
	CO.9.	To understand the general principles of life insurance and general insurance.
	CO.10	To enable the students relate to different types of insurance policies.

BBA4A14 Banking and Insurance		
	CO.1.	To enable the students to acquire knowledge about basics of banking and insurance and to familiarise the students with the modern trends in banking.
	CO.2.	To know an idea about origin and development of banking, different categories of banking in India.
	CO.3.	To know about central bank and its functions in our country.
	CO.4.	To know different types of Accounts and procedure for opening and operating the accounts of different customers.
	CO.5.	To get an awareness about different negotiable instruments in use.
	CO.6.	To equip the students with different e-banking products and services.
	CO.7.	To enable the students to acquire knowledge about basics of and insurance.
	CO.8.	To know the various kinds of insurance.
	CO.9.	To understand the general principles of life insurance and general insurance.
	CO.10.	To enable the students relate to different types of insurance policies.
BBA4B06 Cost & Management Accounting		
	CO.1.	To familiarise the students with the management accounting concepts and its application for decisionmaking.
	CO.2.	To enable the students about computation of Stock levels and labour cost.
	CO.3.	To get an idea about overhead allocation.
	CO.4.	To enable students to prepare job cost sheet.
	CO.5.	To know about standard costing.
	CO.6.	To understand cash management and receivables management.
	CO.7.	To know about budgeting.
	CO.8.	To enable students to prepare process account and contract account.
	CO.9.	To know about marginal costing.
	CO.10.	To familiarise the difference between Cost Accounting, Financial accounting and Management accounting.
BBA4C03 Corporate Regulations		
	CO.1.	To familiarise the students with corporate law and to make them aware of the applications of importance of company law in the management of organisations.
	CO.2.	To understand the features and different types of companies
	CO.3.	To get an idea about formation of companies.
	CO.4.	To familiarize students with the document of companies.
	CO.5.	To know about understand the share capital and other relevant provisions of the same
	CO.6.	To understand management, corporate governance, corporate social responsibility and some basic aspects of SEBI.

	CO.7.	To know about the provisions of conducting meetings and also the winding up procedure of companies.
		BBA 4C04 Quantitative Techniques for Business
	CO.1.	To familiarise the students with the use of quantitative techniques in managerial decision making.
	CO.2.	To introduce basics of quantitative techniques
	CO.3.	To give insight into the probability theorems.
	CO.4.	To aware about correlation and regression analysis.
	CO.5	To understand different theoretical distributions
	CO.6.	To gain knowledge in statistical inferences by using hypothesis.
	CO.7.	To familiarize Non parametric tests.
	CO.8.	To get detailed knowledge about Anova test.
	CO.9.	To familiarize Parametric tests.
	CO.10	To know the concept of Normal distribution
	Semester 5	BBA5B07 Human resource Management
	CO.1.	To familiarize the students with the different aspects of managing human resources in an organization.
	CO.2.	To equip the students with basic knowledge and skills required for the acquisition.
	CO.3.	To get a knowledge about development and retention of human resources.
	CO.4.	To provide insight about performance appraisal and career planning
	CO.5	To understand about the compensation management.
	CO.6.	To hold awareness about the mechanism of grievance redressal system.
	CO.7.	To understand the term Performance appraisal.
	CO.8.	To know the Modern techniques of performance appraisal.
	CO.9.	To know the Training needs in the field of human resources.
	CO.10	To know the method of Incentives system existed in organisations.
		BBA5B08 Business Research Methods
	CO.1.	To enable students for acquiring basic knowledge in business research methods
	CO.2.	To familiarise with different types of business research.
	CO.3.	To give insight about the phases of business research
	CO.4.	To impart the components of a research design
	CO.5	To gain knowledge in the various types of research design .
	CO.6.	To equip the students with data collection methods in detail
	CO.7.	To develop basic skills in students to conduct survey, researches and case studies.
	CO.8.	To impart insight in the data measurement and scaling
	CO.9.	To give knowledge in the descriptive and inferential analysis of the collected data.

	CO.10	To equip the students in the preparation of research report.
		BBA5B09 OperationsManagement
	CO.1.	Able to define 'operations' and 'operations management'.
	CO.2.	Able to identify the roles and responsibilities of operations managers in different organizational contexts.
	CO.3.	Able to identify operational and administrative processes.
	CO.4.	Able to examine the types of transformation processes occurring within operations.
	CO.5	Able to define the roles and responsibilities of operations managers and the challenges they face.
	CO.6.	Able to identify the selection of plant location, and plant layout.
	CO.7.	Able to know about the estimation of capital requirement and maintenance management.
	CO.8.	Able to know about capacity planning and it's importance.
	CO.9.	Able to know about work measurement and methods of work measurement.
	CO.10	Able to know the concept "Quality control" and various quality control measures.
		BBA5B10ConsumerBehaviour
	CO.1.	To enable the students to acquire knowledge about the nature of consumer behaviour
	CO.2.	To familiarize the students with types of consumer behavior and their role.
	CO.3.	To gain knowledge about the consumer needs and motivation.
	CO.4.	To understand the concept of measurement of consumer attitudes.
	CO.5	To provide knowledge about dynamics and consumer reference graphs
	CO.6.	To give an insight into the models of consumers.
	CO.7.	To know the purchase decision process.
	CO.8.	To Know the consumer research.
	CO.9.	To familiarize the students regarding measuring customer satisfaction
	CO.10	To know customer satisfaction and analyzing survey results..
		BBA5B11: Product and BrandManagement
	CO.1.	To enable the student to new product development.
	CO.2.	To give experience in the application of concepts in modern business world
	CO.3.	To acquaint the students with concepts and techniques of brand management.
	CO.4.	To be aware about products, levels, and Product-Life-Cycle.
	CO.5	To give an insight into legal and ethical aspects of packaging.
	CO.6.	To discuss product Portfolio.
	CO.7.	To equip the students for developing effective advertising programmes and new products.
	CO.8.	To be aware regarding brand loyalty.
	CO.9.	To know about green packaging and labeling.
		BBA5D01-Hospitality Management Open Course

	CO.1.	To know the concept of hospitality and its historical background.
	CO.2.	To familiarize the tourism hospitality industry.
	CO.3.	To get an idea about the hotel industry, tourism travel industry.
	CO.4.	To know about domestic and international hospitality industry.
	CO.5	To know tourism management, tourism planning and its steps.
	CO.6.	To familiarize the organizational structure for tourism industry.
	CO.7.	To enable the students to asses tourism demand.
	CO.8.	To familiarize the basic concepts of tourism marketing.
	CO.9.	To know about hotel management and its basic concepts.
	CO.10	To familiarize the classification of hotels.
	Semester 6	BBA6B12 Organisational Behaviour
	CO.1.	Students are able to understand the importance of study of employee behavior in an organisation.
	CO.2.	Able to understand the ethical and unethical issues related to organization and itsit's impact.
	CO.3.	Students are able to get an idea about motivational concepts and theories.
	CO.4.	To impart the students regarding the conflict management techniques.
	CO.5	Able to know the techniques of organizational development.
	CO.6.	Able to understand the concepts of organizational change.
	CO.7.	Students are able to identify the various leadership styles and the role of leaders in the decision making process.
	CO.8.	Able to understand about the communication system in the organization.
	CO.9.	Able to understand the concept of organizational development and its process.
	CO.10	Know the individual process in organization such as learning, perception, individual difference and motivation.
		BBA6B13 Management Science
	CO.1.	To familiarize students with the importance of management science in business
	CO.2.	To equip the students with the application of management science in business
	CO.3.	To familiarize students with the application of game theory in business practices
	CO.4.	To enable students about application of linear programming
	CO.5	To equip the students with the application of transportation problems
	CO.6.	To equip the students with the application of Network analysis
	CO.7.	To equip the students with the application of CPM
	CO.8.	To enable students about application of testing of time cost analysis
	CO.9.	To familiarize students with the application PERT
	CO.10	To familiarize students with the application of network analysis techniques

		BBA6B14.Project Management
	CO.1.	To understand the concept of managing a project
	CO.2.	To able the students to analyze the viability of a project.
	CO.3.	To illuminate the project appraisal.
	CO.4.	To clarify the concept of project financing.
	CO.5	To elucidate the concept of project Implementation and Control
		BBA6 15 Advertising and SalesPromotion
	CO.1.	To enable the students to acquire basic knowledge about advertisement and sales promotion activities.
	CO.2.	To impart basic ideas about the process of advertisement.
	CO.3.	To get an idea regarding the developing an effective advertisement copy.
	CO.4.	To acquaint the students with various sales promotion strategies towards traders and consumers.
	CO.5	To impart the basic concept of advertisement budget.
	CO.6.	To understand the concept of an advertising agency.
	CO.7.	To understand the importance of trade promotion.
	CO.8.	To understand the students regarding the importance of social media in advertising.
	CO.9.	To understand the concept of economic, social & ethical aspects of advertising.
	CO.10	To get a knowledge about the role of media in advertising
		BBA 6B16 Supply Chain and LogisticsManagement
	CO.1.	To impart knowledge and understanding to students on Supply Chain Management and its relevance to today's business decision making.
	CO.2.	To gain the knowledge of possibilities of efficient optimization and management of operation in Logistics Management and also the ability to apply them in the enterprise reality.
	CO.3.	The students will be able to examine the details of planning and control processes in logistics management.
	CO.4.	To familiarize students with the various logistics operations and their importance in improving the business
	CO.5	To know about the role of the Government in controlling international trade and its impact on Logistics andSupplyChain.
	CO.6.	To understand Transportation Selection.
	CO.7.	To know about International Logistics and Supply Chain Management.
		BBA6B17 Project and viva voce
	CO.1	Generate an attitude towards research
	CO.2	Able to process the data

NAME OF THE DEPARTMENT	MASS COMMUNICATION AND JOURNALISM
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PROGRAMME NAME AND PROGRAMME CODE	BA MASS COMMUNICATION AND JOURNALISM(JOU)
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PROGRAMME OUTCOME (PO)	PROGRAMME SPECIFIC OUTCOME (PSO)	COURSE CODE, CO COURSE NAME AND COURSE OUTCOMES (CO)
PO.1 Aim of the programme is to make effective oral presentations on a variety of topics in public settings	PSO.1.It familiarizes the students with the basic elements of mass communication	CO.1. JOU1B01 Fundamentals of Mass Communication It enabled the students to assess media effects and basic elements of mass communication
PO.2 Recognize the connection between journalism/media freedoms and democracy	PSO.2. It helped students to gain knowledge regarding history of journalism and broadcasting	CO.2. JOU2B02 History of Journalism and Broadcasting Helped to understand the foundation on which the Indian journalism stands gain knowledge regarding history of journalism and broadcasting
PO.3. They will understand and be able to apply relevant case law involving journalism, the First Amendment, and	PSO.3.Enabled them to understand the different perspective of media from different context	CO.3. JOU3B03 : Reporting for Newspapers It gave basic knowledge regarding concept of news ,reporting and its basic

other mass media issues		
PO.4 Students will be able to write a variety of mass media products, including news stories, press releases	PSO.4.This course provided them an introduction to the world of advertising	CO.4. JOU3B04 Editing for Newspapers It equipped students with knowledge in error free copy writing
PO.5 will be able to create and design emerging media products, including blogs, digital audio, digital video		CO.5. Course CODE: JOU4B05 Course title: Design and Pagination It introduced the students to the principles of news paper and magazine make up
PO.6 to maintain balance between freedom of the press and freedom of the society.		CO.6 JOU4B06 Course title: Radio Production This course is intended to explore the art of audio production
		CO.7. JOU5B07 Course title: Introduction to Mass Communication Theories Enabled them to understand the different perspective of media from different context CO.8. : JOU5B08 Course title: Introduction to Television Production <ul style="list-style-type: none"> • It provided fundamentals of TV production

		<p>CO.9. JOU5B09 Course title: Corporate CommunicationFurnished students with fundamentals of PR</p> <hr/> <p>CO.10. : JOU5B10 Course title: Advertising It enabled students to critically analyze advertisements</p> <p>CO.11: : JOU5B11 Course title: Photo Journalism A basic understanding of photography is imparted to the students</p> <p>CO.12 : JOU6B12 : Media Laws and Ethics It provide students with an exposure to the fundamentals of media law</p> <p>CO.13 : JOU6B13 Course title: Online Journalism This course provides an introduction to internet and online journalism</p> <p>CO 14:JOU6B14 Course title: Introduction to Cinema This course provided a brief theoretical background in to facilitate film appreciation</p> <p>CO15: JOU6B15 Economic and Business Reporting This course provided students an outlook of business journalism</p>
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Name of the programme and outcomes	Name of the course	Course outcomes
B.Sc PSYCHOLOGY PO.1 Developing ability to develop Critical Thinking. PO.2 Effective Communication PO.3. Social Interaction PO.4 Effective Citizenship PO.5 Ethics PO.6 Life Skill Application PO.7 Research Orientation PO.8 Understand Diagnostic criteria PO.9 Understand Psycho-Social influence. PO10. Develop Leadership Quality among Students. PO11. Human Values and Empathy	1. PSYB01 : Basic themes in Psychology I	CO.1. This course is to generate interest in Psychology To understand the history of Psychology. CO.2. Understand the basics of various theories in Psychology CO.3. To provide basic knowledge about systems and processes of attention and perception CO.4. To make familiar the basic concept of the field of Psychology and applications of Psychology in everyday life.
	2. PSYB02 : Basic themes in psychology II	To generate interest in Psychology, to understand different cognitive processes , to make familiar the basic concept of the field of Psychology, to provide a basic idea about motivation and its related theories and applications of Psychology in everyday life Introduction to creative thinking, and to create awareness about problem solving and its related strategies.
	3. PSY3B01 : Psychological Measurement and Testing	CO.1. This course includes major parts of research and Psychological test creation. CO.2. It gives an brief idea for the student to conduct an psychological research using research methodology. CO.3. Major key points are discussed in this course to make student familiar with all research aspects.
	4. PSY4B01 : Individual Differences	CO.1. This course includes compiled information about Intelligence and Personality. CO.2. This course includes theory and application of measurement of this variables. CO.3. This trains the student to have an brief idea about the creation and objectivity of this Tests.
	5. PSY4B02 : Experimental Psychology Practical –I	CO.1. To nurture the ability in students to understand oneself and others CO.2. To develop the skills of testing and scientific reporting in Psychology CO.3. To familiarize the students to various psychological tests CO.4. To create awareness about various psychological assessment tools CO.5 To generate an interest in working of the community with a psychological outlook CO.6. To develop an interest in psychometrics CO.7. To acquire skills for conducting a test

<p>PO.12. Understand the basics of human mind and behaviour PO.13. Practical application of behavioral theories</p>		<p>CO.8. To know about tests related to depression CO.9.To understand tests related to personality CO 10. To know about characteristics of a test</p>
<p>PO.14. Generate interest in Psychology PO.15. Creates awareness about psychological research PO. 16. Demonstrate empathetic social concern PO.17. Nurturing the ability to understand oneself and others</p>	<p>6. PSY5B01: Abnormal Psychology I</p>	<p>CO.1. To enable students to understand the concepts of abnormal behaviour. CO.2. To familiarize with the history of abnormal psychology CO.3. To encourage students to know different therapeutic techniques in management of different psychological disorders. CO.4. To develop awareness about different causal factors of psychopathology CO.5 To understand stress disorders and its causal factors CO.6. To give foundations about different anxiety disorders and its causal factors CO.7. To make students capable of understanding somatoform disorders and dissociative disorders CO.8. To understand about somatoform disorders CO.9.To understand about dissociative disorders CO 10. To understand about myths and facts about mental illness</p>
	<p>7. PSY5B02: Social Psychology</p>	<p>CO.1. Understand and explain behaviour in social settings CO.2. To understand what is attitude, its nature, formation, and function CO.3. Explain the psychological aspects of various social phenomena CO.4. To create awareness about the management of human behaviour in group settings CO.5 To familiarise with prosocial behaviour and its related theories CO.6. To familiarise with aggression and its related theories CO.7. To understand about the dynamics of interpersonal relationships CO.8. To understand history of social psychology CO.9.To gain understanding about latest social psychology experiments CO 10. Critically evaluate the different theoretical perspectives in social settings</p>
	<p>8. PSY5B03: Developmental Psychology I</p>	<p>CO.1. To provide an understanding about human development in Psychological perspective. CO.2. To gain knowledge about human development CO.3. To make familiar with different factors that influence development CO.4. To provide a basic idea about human development and its related theories CO.5 To understand different cognitive development CO.6. To make familiar the basic concept of prenatal development CO.7. To create awareness about major psychological changes along with physical and cognitive development.</p>

		CO.8. Applications of developmental Psychology in everyday life CO.9. Introduction to language development
	9. PSY5B04: Psychological Counselling	CO.1. Understand the fundamentals of counselling and psychotherapy CO.2. To develop an awareness of different strategies and techniques. CO.3. To familiarise the different the process of counselling and psychotherapy CO.4. To able to understand applications of psychotherapy CO.5 To understand group counselling and psychotherapy CO.6. To create awareness about different areas of specialization CO.7. To understand counselling in older adults CO.8. To know about adolescent counselling CO.9.To understand about skills of counselling CO 10. To understand about Eagan model.
	10. PSY5B05-04 Health Psychology	CO.1. To understand the need and significance of health psychology CO.2. Detailed awareness of stress and management CO.3. To familiarize the different theories of changing health habits CO.4. To familiarize with health enhancing and compromising behaviours CO.5 To get an understanding of psychological aspects of chronic illness CO.6. To know about theoretical aspects of health enhancing behaviour CO.7. To understand about different models CO.8. To know about heath related behaviours CO.9.To understand about heath and its characteristics. CO 10. To understand about terminal illness.
	11. PSY5D02 :Life Skill Application (open course)	CO.1. This course includes the 10 core life skill training CO.2. Training in Empathy, self awareness, Survival Skills, Effective communication and Negotiating skills for students.
	12. PSY6B01: Abnormal Psychology II	CO.1. To develop an awareness about personality disorders and causal factors. CO.2. To provide an understanding of substance abuse and dependence disorders CO.3. To understand about mood disorders CO.4. Provide the basis for schizophrenia and causal factors CO.5 To know about causal factors and treatment of different disorders CO.6. To understand delusional disorders and causal factors CO.7. To understand knowledge about reducing of substance abuses. CO.8. To know different therapeutic techniques for reducing depression CO.9.To understand the therapeutic techniques for managing different types of mood disorders CO 10. To understand cognitive behavioural therapy,and other psychotherapies.

	13. PSY6B02: Applied Social Psychology	CO.1. To familiarize the theoretical concept and research methods in applied psychology CO.2. To give knowledge about application of social psychology in counselling psychology CO.3. To give knowledge about application of social psychology in media CO.4. To give knowledge about application of social psychology in education and class room CO.5 To understand the major social issues in India CO.6. To give knowledge about application of social psychology to positive wellbeing CO.7. To give knowledge about application of social psychology in clinical psychology CO.8. To give knowledge about application of social psychology in health CO.9.To understand about history of socialpsychology CO 10. To give theoretical knowledge about group behavior.
	14. PSY6B03: Developmental Psychology II	CO.1. Offers foundation on emotional development of lifespan periods. CO.2. To understand about social development of lifespan periods. CO.3. To familiarize the theories of attachment CO.4. To provide the basis for moral development CO.5 To study the vocational development and adjustment in adulthood CO.6. To provide basic idea of adjustment after retirement. CO.7. To create an awareness on psychological issues when facing death. CO.8. To know about the characteristics of late adulthood CO.9. To understand the period of late adulthood. CO 10.To understand about the theories of aging and gerontology
	15. PSY6B04: Life Skill Development	CO.1. Promote life skill education CO.2. Enhance self confidence and self esteem CO.3. Develop abilities for adaptive and positive behaviour CO.4. Promotes critical thinking abilities CO.5 To improve communication skills CO.6. Understanding presentation skills CO.7. To improve anger management skills CO.8. Understanding various relaxation techniques and time management skills CO.9.To know about relationship skills CO 10. To understand about creative thinking, problem solving and decision making
	16. PSY6BO5: ORGANIZATIONA L BEHAVIOR	Co.1.Get a detailed information about the concept of OB Co.2.Provide basic idea about organization structure , OB model Co.3.Get detailed knowledge about various concepts like attitude,perception,impression management Co.4.Enable them to understand about group its theories Co.5.Understand various theories of motivation Co.6.Provide basic idea about TA

		<p>Co.7.Make an awareness about the idea of conflict, types sources</p> <p>Co.8.Explain work stress its causes and management</p> <p>Co.9.Understand balancing work and life</p> <p>Co.10.Enable them to aware of organizational development its objectives</p>
	17. PSY6B06: Experimental Psychology Practical –II	<p>CO.1. To nurture the ability in students to understand oneself and others</p> <p>CO.2. To develop the skills of testing and scientific reporting in Psychology</p> <p>CO.3. To familiarize the students to various psychological tests</p> <p>CO.4. To create awareness about various psychological assessment tools</p> <p>CO.5 To generate an interest in working of the community with a psychological outlook</p> <p>CO.6. To develop an interest in psychometrics</p> <p>CO.7. To acquire skills for conducting a test</p> <p>CO.8. To know about tests related to depression</p> <p>CO.9.To understand tests related to personality</p> <p>CO 10. To know about characteristics of a test</p>
	18. PSY6B07: Experimental Psychology Practical- III	<p>CO.1. To develop the skill in conducting Psychometrics.</p> <p>CO.2. To make students capable to do analysis and initiate implementation on basis of results.</p> <p>CO.3. To learn about Intelligence and how to Measure it.</p> <p>CO.4. To Classify Human Nature based on the Psychometric Test.</p> <p>CO.5. To categorize human Personality by Assessing the related traits and factors.</p> <p>CO.6. To Analyze Student behavior and Aptitude to make better Academic Development.</p> <p>CO.7. To Understand areas of human adjustments and analyze them to give better implication.</p> <p>CO.8. To Apply the Psychometric tools for group based research to bring better outcome in society.</p> <p>CO.9. To Estimate stimulus response and reaction based on Psychomotor ability.</p> <p>CO.10. To understand motivation level of a Person to predict better implication to increase Productivity.</p>
	19. PSY6B08: Project	<p>CO.1. To learn to develop an objectivity to start an research on human behavior.</p> <p>CO.2. To Assess the previous impact by learning previous data based on the Topic</p> <p>CO.3. To create Hypothetical statements to assess or measure the objective.</p> <p>CO.4. To Select an Population to be studied on based on the Research Methods.</p> <p>CO.5. To understand the measurement and testing features in research.</p> <p>CO.6. To Learn more about development of Psychological tools and its development.</p> <p>CO.7. To develop skill to create effective research design and Applicability of the plan.</p> <p>CO.8. To understand more about Psychological Statistics and Measurement of Variables.</p>

		CO.9. To understand and Apply both Quantitative and Qualitative research methods. CO.10. To conduct and write and research Thesis on Basis of APA Fromat.
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NAME OF THE DEPARTMENT	COMPUTER APPLICATIONS	
PROGRAMME CODE AND PROGRAMME NAME	BCA	
		BCA1B01 Computer Fundamentals & HTML
	CO.1.	To equip the students with the fundamentals of computer
	CO.2.	To learn the basics of computer organization
	CO.3.	To equip the students to write algorithm and flow chart for solving simple problems
	CO.4.	To learn the basics of Internet and webpage design
	CO.5	To understand the concept of Boolean algebra and number systems
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To get a general understanding of the various types of memory
	CO.7.	To learn the basics of hardware components
	CO.8.	To learn the types of computer languages and translators
	CO.9.	To be able to do conversions from one number system to another
	CO 10.	To learn the basics of HTML and CSS page design
		BCA1C01- Mathematical Foundations for Computer Applications
	C0.1.	To learn basic principles of linear algebra
	C0.2.	To learn basic principles of vectors
	CO.3.	To learn methods of solving linear system of equations
	C0.4.	To learn basic principles of differential calculus
	C0.5.	To learn basic principles of integral calculus
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	C0.6.	To learn the concept of ordinary differential equations

	CO.7.	To learn the concept of definite integrals
	CO.8.	To learn the concept of matrix
	CO.9.	To learn the concept of rank and linear independence
	CO.10.	To learn the concept of inverse of a matrix
		BCA1CO2-Discrete Mathematics
	CO.1.	To learn mathematical logic
	CO.2.	To learn Boolean algebra
	CO.3.	To learn concept of set theory
	CO.4.	To learn idea of relation

	CO.5.	To learn types of relations
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To know algebra of circuits and its applications
	CO.7.	To learn concept of graph theory
	CO.8.	To learn different types of graphs.
	CO.9.	To learn the concept of isomorphism on graphs.
	CO.10.	To know the concept of tree and its properties
		BCA2B02 Problem Solving Using C
	CO.1.	To equip the students with the fundamental principles of problem solving concepts
	CO.2.	To learn the concept of programming
	CO.3.	To study C language
	CO.4.	To equip the students to write programs for solving simple computing problems
	CO.5.	To familiarize with integrated development environment
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To learn the various C operators and library functions
	CO.7.	To understand decision making and flow of control in C
	CO.8.	To learn the concept of pointers
	CO.9.	To be able to create simple files and process them
	CO.10.	To learn the concept of user-defined functions
		BCA2B03-Programming Laboratory I:Programming in C & HTML
	CO.1.	To make the students learn programming environments

	CO.2.	To practice procedural programming concepts.
	CO.3.	To make the students equipped to solve mathematical or scientific problems using C
	CO.4.	To learn how to implement various data structures.
	CO.5	To provide opportunity to students to use data structures to solve real life problems
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To learn to find the factorial of a number using C
	CO.7.	To learn to replace a part of the string with another string
	CO.8.	To learn to find the sum of digits and reverse of a number using C
	CO.9.	To learn to design a page to display the BSc Computer Science syllabus by using the List tag.
	CO 10.	To learn to create HTML pages using HYPERLINKS
		BCA2C03- Financial & Management Accounting
	CO.1.	Introduction on accounting and its general application.
	CO.2.	Briefly explain the Problem solving in journal, subdivision of journal, ledger and cash book.

	CO.3.	Explain the concept and problem solving in financial statement i.e., Trading and profit and loss account and balance sheet
	CO.4.	Understanding on various tools for financial statement analysis.
	CO.5	Explain the idea and problems solve in marginal costing.
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	Understanding the concept of standard costing problems solve in material, labour and overheads.
	CO.7.	Explain the theme of budgeting and problems solve in budget.
	CO.8.	To learn the concept of ratio analysis.
	CO.9.	To learn the concept of invitation to management accounting.
	CO 10.	To learn the concept of fund flow statement.
		BCA2C04-Operations research
	CO.1.	To get a general introduction in solving linear programming problems
	CO.2.	To get methods for solving linear system of equations
	CO.3.	To get general understanding of network analysis technique
	CO.4.	To get general understanding of mathematical models
	CO.5	To know the advantages and usage of mathematical models

COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To know the concept of assignment problems
	CO.7.	To know the concept of assignment problems.
	CO.8.	To know the concept of network scheduling
	CO.9.	To know advantages of network scheduling
	CO 10.	To know the idea of sequencing problems
		BCA311-Basic numerical skills
	CO.1.	To understand about Sets and matrices and its applications in business
	CO.2.	To enable the students for applying linear and simultaneous equations in business
	CO.3.	To understand the concept of Arithmetic Progression.
	CO.4.	To understand basic knowledge of statistics and presentation of data by diagrammatic and graphical method
	CO.5.	To know about the concept of Measures of central tendency

COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To know about the various measures of variation
	CO.7.	To understand the students about the various index numbers
	CO.8.	To understand the concept of geometric progression.
	CO.9.	To understand the concept of simple interest.
	CO.10.	To understand the concept of compound interest calculation.
		BCA3A12-General Informatics
	CO.1.	To learn the basic principles of Operating system
	CO.2.	To learn the computer networks and topology
	CO.3.	To get the basic of information technology
	CO.4.	To get the basic of DNA computing, cloud computing
	CO.5	To knowledge the skill for higher education

COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To get academic search technique
	CO.7.	To understand social informatics
	CO.8.	To learn cyber ethics and security issues
	CO.9.	Realize programs for office management
	CO 10.	To understand Linux office and database software
		BCA3B04-Data Structures Using C
	CO.1.	To introduce the concept of data structures
	CO.2.	To make the students aware of various data structures
	CO.3.	To equip the students implement fundamental data structures
	CO.4.	To get a general understanding of algorithms complexity and asymptotic notations
	CO.5.	To understand various string operations
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To get a general understanding of arrays and operations on arrays
	CO.7.	To learn the basic concepts of stacks and queues and operations done
	CO.8.	To understand the various types of trees and tree traversals
	CO.9.	To be able to write programs so that students can use data structures to solve real life problems
	CO.10.	To make the students equipped to solve mathematical or scientific problems using C

		BCA3C05- Computer Oriented Numerical And Statistical Methods
	CO.1.	To learn floating point arithmetic
	CO.2.	To learn how to solve linear equations

	CO.3.	To learn numerical differentiation.
	CO.4.	To learn numerical integration.
	CO.5.	To learn the basis of statistics.
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To learn the basis of probability theory
	CO.7.	To learn the idea of random variables
	CO.8.	To learn types of random variables
	CO.9.	To get an idea about comparison between correlation and regression
	CO.10.	To get an idea about curve fitting
		BCA3C06-Theory of Computation
	CO.1.	To get a general introduction to grammar
	CO.2.	To get a general understanding of languages
	CO.3.	To get a general understanding of the theory of computation
	CO.4.	To learn concept of automata
	CO.5.	To learn concept of Turing machine
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To learn concept of sets

	CO.7.	To learn the concept of relations
	CO.8.	To learn the concept of induction
	CO.9.	To learn the concept of push down automata
	CO.10.	To learn the concept of regular sets

		BCA4A13-Entrepreneurship development
	CO.1.	1. To understand the concept of Entrepreneurship.
	CO.2.	2. To impart entrepreneur skills among students.
	CO.3.	3. To know the various types of entrepreneurship.
	CO.4.	4. To understand the various training programmes.
	CO.5.	5. To make project appraisal
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	6. To understand the concept of importance of entrepreneurship in economic development.
	CO.7.	7. To learn the entrepreneurship's impact
	CO.8.	8. To understand the various institutes
	CO.9.	9. To understand the e business.
	CO.10.	10. To understand the organisation result.
		A14-Basics of Audio & Video
	CO.1.	To discuss between speech, music and noise
	CO.2.	To discuss concept of Stereophony
	CO.3.	Understand microphones and its importance in recording and reproduction of sound process
	CO.4.	To describe various type of loudspeakers and their attributes
	CO.5.	To discuss different kinds of equalizers
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To discuss noise reduction techniques
	CO.7.	To understand concept of Magnetic Recording on Tape
	CO.8.	To discuss the concept of multi-track sequencing
	CO.9.	To understand relationship of tape and bandwidth
	CO.10.	To describe the video compression technique and standards
		BCA4B05-Database Management System & RDBMS

	CO.1.	To learn the basic concept of database system concepts
	CO.2.	To learn the database administrator
	CO.3.	To get the basic of entity relationship model
	CO.4.	To get the basic of relational data models and their relations
	CO.5.	To knowledge the relational database design
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To get relations and key
	CO.7.	To understand sql concepts
	CO.8.	To learn sql commands, logical operators, and functions
	CO.9.	Realize transaction management
	CO.10.	To learn concurrency control
		BCA4B06-Programming Laboratory II:Data Structures & RDBMS
	CO.1.	To make the students equipped to solve mathematical or scientific problems using C
	CO.2.	To provide opportunity to students to use data structures to solve real life problems
	CO.3.	To learn how to implement various data structures
	CO.4.	To learn how to sort a list of strings
	CO.5.	To learn how to implement stacks using arrays and do stack operations
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To learn how to sort a singly linked list
	CO.7.	To learn how to create databases
	CO.8.	To learn how to use query tools
	CO.9.	To learn how to write sql scripts
	CO.10.	To learn how to write programs involving multiple tables

		BCA4C07-E-Commerce
	CO.1.	To discuss about History and Emergence of Ecommerce
	CO.2.	To discuss E-challenges in India
	CO.3.	To Understand Business Models for Ecommerce
	CO.4.	To know E business models
	CO.5.	To know difference between traditional and modern marketing
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To know Internet Standards and Specifications
	CO.7.	To understand E-Security
	CO.8.	To discuss Information System Security
	CO.9.	To understand concept of Digital Payment
	CO.10.	To describe various E- Payment System
		BCA4C08-Computer Graphics
	CO.1.	To learn basics of computer graphics
	CO.2.	To learn to do animation
	CO.3.	To learn how to draw lines
	CO.4.	To learn line drawing algorithm
	CO.5.	To learn window to viewport transformation
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To learn two dimensional transformation
	CO.7.	To learn basics of LED & LCD
	CO.8.	To learn color models
	CO.9.	To learn color applications
	CO.10.	To learn scan conversion of line

		BCA5B07-Java Programming
	CO.1.	To learn GUI Application development in JAVA
	CO.2.	To practice programming in Java
	CO.3.	To learn Java programming environments
	CO.4.	To review OOP concepts
	CO.5.	To learn J2EE Environment

COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To learn networking concept in Java
	CO.7.	To learn OOP features
	CO.8.	To enhance programming Environment
	CO.9.	To learn concept of Applets
	CO.10.	To learn concept of JDBC
		BCA5B08-Computer Organization & Architecture
	CO.1.	To learn the basics of computer organization & architecture
	CO.2.	To make students aware of the memory hierarchy and types of memory
	CO.3.	To get a general understanding of an instruction cycle
	CO.4.	To learn the various addressing modes
	CO.5.	To understand the concept of micro programmed control unit
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To get a general understanding of the register and stack organization
	CO.7.	To learn the basics of parallel processing
	CO.8.	To learn the types of pipelining
	CO.9.	To learn the classification of computers
	CO.10.	To be able to differentiate between CISC and RISC machines
		BCA6B14-Computer Networks
	CO.1.	To Introduce Computer Networks
	CO.2.	To learn concept of Computer Network Models
	CO.3.	To know Data Link Layer services and protocols

	CO.4.	To learn Error and Flow Control Mechanisms in Networks
	CO.5.	To learn Network Layer services and protocols
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)	CO.6.	To learn various Routing protocols
	CO.7.	To know various Transport Layer protocols
	CO.8.	To learn Network Management protocols..
	CO.9.	To know about Network Configuration
	CO.10.	To learn Network Administration

COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		BCA5B10-Principles of Software Engineering
	CO.1.	To learn engineering practices in Software Devolvment
	CO.2.	To learn the software and software engineering
	CO.3.	To realize software engineering requirements
	CO.4.	To get the basic of building the requirement model
	CO.5.	To knowledge the software modelling with UML
	CO.6.	To understand design processing technique
	CO.7.	To understand structured coding technique
	CO.8.	To learn modern programming language feature
	CO.9.	Realize software quality assurance
	CO.10.	To understand software maintainance
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		BCA6B11-Android Programming
	CO.1.	To Introduce Android Computing Platform
	CO.2.	To learn concept of Android Programming
	CO.3.	To get knowledge in Android Programming Environment
	CO.4.	To practice in Android Programming
	CO.5.	To learn User Interface in Android
	CO.6.	To learn GUI Application development in Android
	CO.7.	To work with Android Menus
	CO.8.	To learn creation of Android Layout
	CO.9.	To know about Android Data persistence

	CO.10.	To learn SQLite Database
COURSE CODE, COURSE		BCA6B12-Operating Systems

NAME AND COURSE OUTCOMES (COs)		
	CO.1.	To learn objectives & functions of Operating Systems
	CO.2.	To understand processes & its life cycle
	CO.3.	To learn & understand various memory & scheduling algorithms
	CO.4.	To have an overall idea about the latest developments in Operating systems
	CO.5.	To learn the concept of deadlock
	CO.6.	To learn the concept of Mutual Exclusion
	CO.7.	To learn the concept of Multi-tasking
	CO.8.	To learn the concept of File Management
	CO.9.	To learn the concept of Device Management
	CO.10.	To learn the concept of Processor Management
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		BCAA6B17 Software testing and Quality Assurance
	CO.1.	To learn the basic principles of software testing
	CO.2.	To learn the phases of software project
	CO.3.	To understand types of testing
	CO.4.	To understand why system testing is done
	CO.5.	To knowledge the challenges of software testing
	CO.6.	To get academic search technique
	CO.7.	To understand social informatics
	CO.8.	To learn cyber ethics and security issues
	CO.9.	To understand linux office and database software
	CO.10.	Realize programs for office management
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		BCA6B09 Web Programming Using PHP
	CO.1.	To discuss about Web Document
	CO.2.	To discuss concept of Web Programming

	CO.3.	To Understand JavaScript
	CO.4.	To know Client side Programming
	CO.5.	To understand PHP
	CO.6.	To know Server side Programming
	CO.7.	To understand working of PHP
	CO.8.	To discuss the concept of String Functions

	CO.9.	To understand relationship PHP and PostgreSQL
	CO.10.	To describe PostgreSQL

COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		BCA6B14 Programming Laboratory III: Lab Exam of Java & PHP Programming
	CO.1.	To practice how to interact with databases through PHP
	CO.2.	To practice developing dynamic websites
	CO.3.	To practice PHP Programming
	CO.4.	To practice client side and server side scripting
	CO.5.	To design websites
	CO.6.	To write a JavaScript program to find area and circumference of shapes
	CO.7.	To design a webpage to illustrate image rollover
	CO.8.	To create a login page using database
	CO.9.	To design a PHP page to implement a login screen using sessions
	CO.10.	To design a PHP page to illustrate the use of meter HTML element

COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		BCAA6B17 Microprocessor and Applications
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	CO.1.	To learn the basics of 16 bit microprocessor
	CO.2.	To learn the 8086 architecture
	CO.3.	To get the basic of addressing modes
	CO.4.	To get the basic instruction set
	CO.5.	To knowledge the assembler directives
	CO.6.	To get knowledge the control directives
	CO.7.	To understand peripheral interface
	CO.8.	To learn cyber ethics and security issues
	CO.9.	Realize architecture of peripheral devices

	CO.10.	To understand advanced microprocessor
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		BCS5D01 Introduction to Computers & Office Automation
	CO.1.	To Introduce Computer and Computer Peripherals
	CO.2.	To learn concept Internet
	CO.3.	To know Documentation using Word Processor
	CO.4.	To learn MS Office and Open Office Writer
	CO.5.	To learn Electronic Spreadsheet
	CO.6.	To know MS Excel and Openoffice Calc
	CO.7.	To work with PowerPoint and Presentations
	CO.8.	To learn MS PowerPoint and Openoffice Impress
	CO.9.	To get a general introduction to office automation packages
	CO.10.	To know about Office Automation tools

Department of Arabic

BA/BSC/BCOM Arabic Course Outcome

Course	Course Outcome	Analysis of Course Outcome
Common Additional Language Course-I (BA/BSC)	To enjoy the Arabic language through stories,poems To acquire the Vocabularies of Arabic language	Students enjoyed many Arabic short stories; poems and they acquainted its Modern authors
Common Additional Language Course-II	To practice the use of Arabic language in various situations To enjoy the Arabic language through Prose ,stories and poems	Practiced different types of conversation in various situations Students enjoyed many Arabic short stories , poems with its authors

Common Additional Language Course-III	To enjoy the Arabic language through Drama ,poems	Students enjoyed many Arabic short stories , Drama, poems and they acquainted its Modern authors
Common Additional Language Course-IV	To acquaint students Indian culture and civilization especially Kerala , To enjoy Indian Arabic literature and acquaint Indian Arabic Authors	Students can understood the contribution of Indian Arabic writers to the Arabic literature, also like they can understood our ancient Kerala history .
Common Additional Language Course-I (BCOM/BBA)	To practice the use of Arabic language in various situations To acquire banking terms and vocabularies, Bill model, different types of commercial letters etc	Acquired banking terms and vocabularies ,Bill model , different types of commercial letters etc
Common Additional Language Course-II	To enjoy the Arabic language through Prose ,Poems and stories Practice translation from Arabic to English and English to Arabic	Practiced translation from Arabic to English and English to Arabic Students enjoyed many Arabic short stories , Drama, poems and they acquainted its Modern authors
Common Additional Language Course-I (BA/BSC Other Pattern)	Practice translation from Arabic to English and English to Arabic To practice the use of Arabic language in various situations	Practiced different types of conversation in various situations Practiced translation from Arabic to English and English to Arabic

Common Additional Language Course-II	To practice the use of Arabic language in various situations like Airport, Restaurant Bank etc To enjoy the Arabic language through Stories ,poems etc	Students enjoyed many Arabic short stories , poems and they acquainted its Modern authors
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DEPARTMENT OF HINDI

Name of the programme and out comes	Name of the course	Course outcomes
1.BA/BSC 2.B. Com/BBA	1.Prose and Drama	1.Approach literary texts in terms of genre, gender and the canon 2.understand and use academic coventions. 3.exposed to the origin and development of Hindi drama.
	2.Grammar and translation	1.Understand the different between spoken and written Hindi. 2.Understand the different ways in which grammar has been described. 3.Define the effects of translation theories on translation practice.
	3.Poetry in Hindi	1.Understand the common techniques underlying free verse and traditional forms of poetry. 2.Identify personal experience that can be used when writing poems 3.Understand the basic terminology and practical elements of poetry.
	4.Novel and short stories	1.Enables the students to analyze literature and fiction using appropriate theoretical, Historical. 2.students get to know various cultural and construction of gender. 3.
	5.prose forms in Hindi Literature	1.Approach literary texts in terms of genre, gender and the canon.

		<p>2. understand and use academic conventions referencing and bibliography.</p> <p>3. The learner will be aware of socio-political and economic conditions of the society from different periods.</p>
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DEPARTMENT OF MALAYALAM

Name of the programme and out comes	Name of the course	Course outcomes
.MALAYALAM	.1st Semester BA/BSC	<p>1. Students understood about ancient writers of Malayalam language like, Kunjhan nambiar, Ezhuthachan, Poonthanam, Cherussery, etc. and also understood the specialities of ancient literature.</p> <p>2. understood specialities of ancient literature, and got awareness about poets and short story writers.</p> <p>3. . They could also possible to increase their knowledge about progress in different periods of Malayalam short stories.</p>
	2. 1st semester (B.COM/BBA)	<p>1. By studying travelogue, they got the knowledge about the different culture and nations .2. By studying essays based on social, literature and cultural they got knowledge about the changes happened in our social. literature and language in our state.3. They also got knowledge about novel literature by studying novel. They also understood about presentation of human life in novel writings</p>
	3. 1st semester(B.SC Other pattern)	<p>1. By studying travelogues, student able to understand about the culture and arts in different countries and regions.2. By studying stories and poems of Ashitha, Padmarajan, edassery, sugathakumari, sachithanandhan and KGS , students got knowledge about their features presented in their short stories and poems.</p> <p>3. Students could possible to enter science and cultural fields through literature and language, by the study of this semester.</p>
	4. 2nd semester(BA/ B.SC)	<p>1. Students could understand about the modern poem and history of literature By studying poems of Kumaranasan, Edassery and Vyloppilly, students got the knowledge about their contribution given in literature.</p>

		<p>2. By studying poems of akkitham, Ayyappa panikkar and attoor, student got basic knowledge about the different and variety of writings from modern period to recent period.. Students also got the knowledge about criticism literature branch</p> <p>3. Students could able to develop ,interest and knowledge about their own language and literature through literature enjoyment.They could also possible to increase their knowledge about progress in different periods of Malayalam literature.</p>
	5. 2nd semester(B.COM/ BBA)	<p>1. Students understood about writers of Malayalam language like, Vallathol, NN Kakkadu, Vijayalakshmi, etc. and also understood the specialities of their literature</p> <p>2. They could also possible to increase their knowledge about progress in different periods of Malayalam short stories. By studying stories of VKN, S Hareesh, TV Kochubava, Sara Joseph.</p> <p>3. Students got knowledge about their features presented in their short stories.</p>
	2nd sem (B.SC Other pattern)	<p>1. By studying stories of Bhasheer, NS Madhavan, Priya AS, students got knowledge about their features 2. presented in their short stories They also got knowledge about novel literature by studying novel. 3. Student got the knowledge about the drama art and Malayalam drama theatre</p>
	3rd sem(BA/B.SC)	<p>1. They could also possible to increase their knowledge about progress in different periods of Malayalam short stories. They also got an idea about how to write a good autobiography and its features by studying autobiography literature</p> <p>2. By studying travelogues, student able to understand about the culture and arts in different countries and regions.</p> <p>3. They could also possible to increase their knowledge about progress in different periods of Malayalam literature</p>
	4th sem(BA/B.SC)	<p>1. Through cultural studies ,they could able to understand about tribals and their way of life. Students also got a knowledge about how to get a good translation and what are the things to be taken while making good translation.</p> <p>2. They also got knowledge about novel literature by studying novel.</p> <p>3. Student got the knowledge about the drama art and Malayalam drama theatre Travelogues and short stories. By studying translation ,students could able to increase their writing ability and handle different languages By studying cultural study, they understood their own history and heritage.</p>

PHYSICAL, HEALTH AND LIFE SKILLS EDUCATION COURSE

- CO1. To provide students a general concept of physical education and fitness.
- CO2. To provide knowledge and understanding regarding health and nutrition.
- CO3. To familiarize the students regarding safety education and health promotive measures for day to day life.
- CO4. To promote and understand the value of sports for life skill development.

COMPLEMENTARY COURSES

Course outcome of complementary statistics(BSc mathematics)

INTRODUCTORY STATISTICS

Upon completion of this chapter you will be able to:

- Summarize data graphically by displaying data using methods from descriptive statistics
- interpreting data in tables graphically by using histograms, frequency distributions, box-and whisker (five-number summary)
- find measures of central tendency for data sets: mean, median, and mode
- find measures of variation for data sets: standard deviation, variance, and range;
- relative positions of data and distinguish among scales of measurements and their implications
- distinguish between populations and samples
- identify the standard method of obtaining data and the advantages and disadvantages of each.

PROBABILITY THEORY :

On successful completion of the course students will be able to:

1. Calculate probabilities by applying probability laws and theoretical results.
2. Identify an appropriate probability distribution for a given discrete or continuous random variable and use its properties to calculate probabilities.

3. Derive probability distributions of functions of random variables.
4. Derive expressions for measures such as the mean and variance of common probability distributions using calculus and algebra.
5. Calculate probabilities for joint distributions including marginal and conditional probabilities.
6. For jointly distributed random variables calculate their covariance and correlation and determine whether they are independent.
7. Apply results from large-sample theory and the Central Limit Theorem to approximate a sampling distribution.

STATISTICAL INFERENCE

Upon completion of this chapter you will be able to:

- Explain the concept of estimation of parameters
- Calculate the problems related to point estimation and interval estimation
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- Explain the concepts of Testing of Hypotheses, (Large Sample Tests small sample test)
- Solve the problems related to Testing of Hypotheses, (Large Sample Tests small sample test)

APPLIED STATISTICS

Upon completion of this chapter you will be able to:

1. Students will have a solid foundation of mathematical processes at a level comparable to that of students graduating with a BS in statistics at other universities. Processes should include (but are not limited to) a proficiency in collection, organization, design, and drawing inferences from data using appropriate statistical methodology and problem solving skill.
2. Students will demonstrate their ability to apply statistics in other fields at an appropriate level and demonstrate their ability to apply knowledge acquired from their major to real world models.
3. Students will demonstrate mastery of data analysis and statistical concepts by communicating critically reasoned analysis through written and oral presentations.
4. Students will acquire up-to-date skills and/or applications of computer and statistical programming related to future career choices.
5. To understand the purpose and function of statistical quality control
6. Conduct a one-way and two way Analysis of Variance (ANOVA) hypothesis test.
7. To become familiar with basic methods of statistical process control
8. construct simple price, quantity, and value indexes;
9. construct special-purpose (composite) indexes;
10. interpret indexes to identify trends in a data set.

CONSOLIDATED COURSE OUTCOME OF COMPLEMENTARY STATISTICS(BSc MATHEMATICS)

Upon completion of this chapter you will be able to:

- Summarize data graphically by displaying data using methods from descriptive statistics, interpreting data in tables graphically by using histograms, frequency distributions, box-and whisker (five-number summary); find measures of central tendency for data sets: mean, median, and mode; find measures of variation for data sets: standard deviation, variance, and range; relative positions of data and distinguish among scales of measurements and their implications; distinguish between populations and samples; and identify the standard method of obtaining data and the advantages and disadvantages of each.
- Find simple probabilities and probabilities of compound events and compute probabilities using the complement, discrete probability distributions, apply concepts of sample space, the binomial probability distribution.
- Standardize a normally distributed random variable, use normal distribution tables to find probabilities for normally distributed random variables and the t-distribution, and use the Central Limit Theorem to find probabilities for sampling distributions.
- Construct and interpret confidence intervals for proportions and means.
- Identify the basics of hypothesis testing and perform hypothesis testing for means, proportions and standard deviations from one population, and difference of means and proportions from two populations, including finding and interpreting p-value and examining Type I and Type II error.
- Find linear least-squares regression equations for appropriate data sets, graph least-square regression equations on the scatter plot for the data sets, and find and apply the coefficient of correlation.
- Use the chi-square distribution to test independence and to test goodness of fit.
- Conduct a one-way Analysis of Variance (ANOVA) hypothesis test.
- Select an appropriate hypothesis test and interpret the result using p-value; use appropriate statistical technique to analyze and interpret applications based on data related to business, social sciences, psychology, life sciences, health sciences or education, and interpret results using technology-based statistical analysis.
- Construct a histogram for a given set of data. This can be done by hand or with a graphing calculator.
- Construct a single-sample confidence interval, and draw an appropriate conclusion. This can be done by hand or with a graphing calculator.
- Construct a single-sample hypothesis test based on a given claim, and draw an appropriate conclusion. This can be done by hand or with a graphing calculator
- Understand the purpose and function of statistical quality control

CHEMISTRY

Course Outcome

SEMESTER I

Course Code: CHE1C01

Complementary Course I: GENERAL CHEMISTRY

1. Basic knowledge about acidity or basicity enables one to be aware of the pros and cons of various habits he/she maintain in his/her daily life.
2. Awareness about various analytical methods and their applications help one to be vigilant when he consumes products from market.
3. Nuclear chemistry and its applications make one to assess, determine and understand about various matters like how to improve agricultural efficiency, whether the food we purchase is sterilised or not, how the good and efficient is the treatment for cancer etc.
4. Knowledge about bioinorganic chemistry equips one to understand various biological processes and any anomaly about it is present at all.

Course Outcome

SEMESTER II

Course Code: CHE2C02

Complementary Course II: PHYSICAL CHEMISTRY

1. Learning thermodynamics is of utmost importance in understanding various things we come across in daily life. Thermodynamics has several types of Applications in our daily life:
2. Knowledge about crystals and liquid crystals too helps one to understand the chemistry behinds watches, LCD, communications lines, microprocessors etc
3. Understand about communications Lines
4. Knowledge on Colligative properties helps one to understand so many processes deeply.
5. Understanding of electro chemistry help the students to get a grip on the chemistry behind many processes.

Course Outcome**SEMESTER III****Course Code: CHE3C03****Complementary Course III: ORGANIC CHEMISTRY**

1. Learning organic chemistry probably has a lot to do with understanding about medicines and the actions behind it. Cleansing or sterilising agents works on the principles of organic chemistry as well. Polimers, plastics and petrochemical products doesn't have any different story too.
2. Organic chemistry in diagnosis aims to check for the organic functional group levels as a parameter of the disturbed substance in the body.

Course Outcome**SEMESTER IV****Course Code: CHE4C04****Complementary Course IV: PHYSICAL AND APPLIED CHEMISTRY**

1. The application of physical chemistry in daily life is the phenomenon whereas the law of physical and chemistry applied in things that are happening everyday in our life.
2. The awareness about the principles of the subject helps one to understand the chemistry behind whatever processes he/she come across which works on the principles of physical chemistry.

DEPARTMENT OF HISTORY

Name of the programme and out comes	Name of the course	Course outcomes
BA ECONOMICS	1.modern indian history (1857 to the present)I	1.understand British colonialism. 2.understand erly struggles against the British. 3.critically evaluating British rule.
	2.modern Indian history (1857 to the present)II	1.patriotism 2.national integration 3.familiar with great leaders
BA English	3.social and cultural history of Britain. I	1.understand British cultural formation 2.understand early polity and society of great Britain. 3.trace the origin and development of the English language.
	4.social and cultural history of Britain. II	1. Understand modern England 2.analyze the euro centric world

NAME OF THE DEPARTMENT	Department of Political Science	
PROGRAMME CODE AND PROGRAMME NAME	B A Economics ECO	
PROGRAMME OUTCOMES (POs)	PO.1	Not Applicable
	PO.2	

	PO.3.	
	PO.4	
	PO.5	
	PO.6	
PROGRAMME SPECIFIC OUTCOMES (PSOs)	PSO.1.	Not Applicable
	PSO.2.	
	PSO.3.	
	PSO.4.	
	PSO. 5.	
	PSO.6.	
		Semester I
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ICP1 CO1: INDIAN CONSTITUTION AND POLITICS: Basic Features
	CO.1.	To understand historical evolution of the Indian Political system
	CO.2.	To provide foundation stones for the study of Indian Constitution.
	CO.3.	To provide information's about the historic episodes of Indian national movement
	CO.4.	To gives an idea about Socio political Reform Movements
	CO.5	To provide the historic understanding about the formation of Constituent Assembly of India.
	CO.6.	To analyses the meaning of Preamble to the Constitution

	CO.7.	The understand fundamental duties of a Indian citizen
	CO.8.	To understand Directive Principles of State Policy
	CO.9.	To give an understanding about right citizenship
	CO 10.	To gives an understanding about the Fundamental Rights mentioned in the constitution
		Semester II
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ICP2 CO2: INDIAN CONSTITUTION AND POLITICS: Governmental Structures.
	CO.1.	To understand the nature of Indian Federalism
	CO.2.	To analyze the division of powers mentioned in the Constitution
	CO.3.	To provide knowledge about Parliamentary form of government
	CO.4.	To understand the powers of President of India
	CO.5	To give awareness about the how a law is passed in India
	CO.6.	To make awareness about position of Prime minister of India
	CO.7.	To give analysis about judicial structure of the country
	CO.8.	To give an insite in to various procedures followed in Indian parliament
	CO.9.	To gives an idea about the importance of independence of judiciary
	CO 10.	To understand the dynamics of judicial activism
		Semester III

COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ICP 3 CO3: INDIAN CONSTITUTION AND POLITICS: Political Dynamics
	CO.1.	To provide a study of National political parties
	CO.2.	To provide Knowledge about the features Indian Party System
	CO.3.	Gives basic Knowledge about Regionalism in India
	CO.4.	To understand the different types of regional political parties
	CO.5	To give the basic foundations of Electoral Process
	CO.6.	To understand composition powers and functions of The Election Commission of India

	CO.7.	To understand the importance of Amendment procedure
	CO.8.	To provide knowledge about major constitutional amendments
	CO.9.	To understand the powers and function of UPSC
	CO 10.	To give an overall idea about civil service system of India
		Semester IV
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		ICP4 CO4: INDIAN CONSTITUTION AND POLITICS: Federal Dynamics and Decentralisation

	CO.1.	To provide an in-depth view of Centre-State relations in India
	CO.2.	To understand the nature of Indian Federalism
	CO.3.	To provide basic knowledge about Legislative, Administrative and Financial relations between the Union and the States
	CO.4.	To provide a basic understanding of 73rd and 74th Amendment Acts.
	CO.5	To familiarize students about the concept of Panchayathi Raj in India
	CO.6.	To gives an idea about the Reservation issues
	CO.7.	To understand the Challenges to Indian Democracy - Communalism, Religious Fundamentalism and Criminalisation of Politics.
	CO.8.	The students get familiarize about the nature of Finance Commission& Planning Commission
	CO.9.	The course helps to build a Secular and democratic attitude among Students
	CO 10.	To give an outlook about National Development Council
NAME OF THE DEPARTMENT	Department of English	
PROGRAMME CODE AND PROGRAMME NAME	B A English ENG	

PROGRAMME OUTCOMES (POs)	PO.1.	Not Applicable
	PO.2.	

	PO.3.	
	PO.4.	
	PO.5	
	PO.6.	
PROGRAMME SPECIFIC OUTCOMES (PSOs)	PO.1.	Not Applicable
	PO.2.	
	PO.3	
	PO.4	
	PO.5	
	PO.6	
		Semester I
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		PS 1 CO1: POLITICAL SCIENCE: AN INTRODUCTION
	CO.1.	Give brief Description about historical origin of the subject
	CO.2.	To provide knowledge about the importance of study political science
	CO.3.	To provide awareness about Meaning and nature Political Science
	CO.4.	To analyse Traditional approaches to study the subject
	CO.5	Provide study on the impact of Behavioural and Post-Behavioural approaches

	CO.6.	To provide awareness about Marxian approach in political analysis
	CO.7.	To understand the importance of Evolutionary theory and Marxian Theory
	CO.8.	To know about state and its elements
	CO.9.	To understand the concept of sovereignty
	CO 10.	To introduce the importance of Monistic and Pluralistic interpretations of sovereignty

		Semester II
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		PS 2 CO2: POLITICAL SCIENCE: Ideas and Concepts
	CO.1.	To familiarize the ideas of Liberty – Equality, Justice
	CO.2.	To impart students about the basic Knowledge about Law
	CO.3.	To evaluate the Meaning and Dimensions of Rights and Duties.
	CO.4.	Make the students aware on dynamics of a Political System
	CO.5	To make awareness about the importance of Human Rights

	CO.6.	To familiarize the ideas of Power - Influence- – Legitimacy and Authority.
	CO.7.	To introduce Input Output analysis and Structural Functional analysis.
	CO.8.	To taught about the relevance of Political Culture and Political Socialisation
	CO.9.	To familiarize the necessity for Representation of Minorities.
	CO 10.	To make aware about various aspects of Political Modernisation and Political Development.
		Semester III
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		PS 3CO3: POLITICAL SCIENCE: Structures and Processes

	CO.1.	To provide the basic understanding about the Theory of Separation of Powers -
	CO.2.	To familiarize the students about the Organs of Government
	CO.3.	To understand the functions of Legislature
	CO.4.	To give overall idea about Executive – Judiciary and
	CO.5	To understand the Unitary and Federal forms of government
	CO.6.	To introduce the basic concepts of Parliamentary and Presidential forms of government
	CO.7.	To give a deep knowledge about Judicial review and judicial activism
	CO.8.	To understand the Elections and Representation
	CO.9.	To understand the roles of Political Parties and Pressure Groups

	CO 10.	To understand the nature of Interest Groups their types and functions
		Semester IV
COURSE CODE, COURSE NAME AND COURSE OUTCOMES (COs)		PS 4CO4: POLITICAL SCIENCE: Political Ideologies
	CO.1.	To understand the key aspects of Individualism and Liberalism,
	CO.2.	To understand the dynamics of Gandhism
	CO.3.	To create awareness about Marxism
	CO.4.	To familiarise the idea of Democracy – Meaning and Postulates
	CO.5	To understand types of democracies
	CO.6.	To understand the Concept of Fascism in a critical manner
	CO.7.	To introduce the changes in Conditions for the success of Democracy
	CO.8.	To give an idea on the Direct Democratic Devices - Referendum – Initiative – Plebiscite – Recall

	CO.9.	To know about the idea of Public Opinion– Role of Public Opinion in Democracies.
	CO 10.	To gives a detailed information about the and Agents of Public Opinion

DEPARTMENT OF VOCATIONAL STUDIES

NAME OF THE DEPARTMENT	DEPARTMENT OF VOCATIONAL STUDIES FISH PROCESSING TECHNOLOGY	
PROGRAMME CODE AND PROGRAMME NAME	B.VOC. FPT VOCATIONAL DEGREE IN FISH PROCESSING TECHNOLOGY	
PROGRAMME OUTCOMES (POs)	PO.1.	Create scientific knowledge and skills
	PO. 2.	Create ability for critical thinking
	PO.3.	Able to systematic problem solving
	PO.4.	Environmental awareness and Social commitment
	PO.5.	Human values and friendliness
	PO.6.	Experience a comprehensive range of scientific and systematic techniques.
	PO.7.	Supplement trained manpower in fisheries sector
	PO.8.	Able to impart technical skill necessary in fishery industry
	PO.9.	Create local and global solutions for the challenges in fishery sector
PROGRAMME SPECIFIC OUTCOMES (PSOs)	PSO.1.	Develop a mix of skills relating to a profession and appropriate content of General Education
	PSO.2.	Able to achieve fisheries (food) sector opportunities at graduate level
	PSO.3.	Graduates apart from meeting the needs of local and national industry are also expected to be equipped to become part of the global workforce.
	PSO.4.	Students have adequate knowledge and skills, so that they are work ready at each exit point of the programme.
	PSO.5.	emphasis to Communication skill, Presentation skill, Health and Safety, Industrial Psychology, Environmental awareness, Entrepreneurship development and other relevant subjects in the field.
	PSO.6.	language skills enhances the employability outside the state
	PSO.7.	Computer and network awareness helps to keep updated in the fisheries field

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		GEC1 PH01- FISH PHYSIOLOGY & TAXONOMY
COURSE OUTCOMES (COs)	CO.1.	Basic physiological features and taxonomy of fishes
	CO.2.	Digestive systems in commercially important fish and non -fish aquatic organisms
	CO.3.	Respiratory system of fish, Crustaceans and molluscs
	CO.4.	Circulatory system of Fishes, Crustaceans and Molluscs.
	CO.5.	Excretory system of Fishes
	CO.6.	Accessory respiratory organs of commercially important fishes
	CO.7.	Endocrine systems and their involvement in different functions in Fishes, Crustaceans and Molluscs
	CO.8.	Scientific classification of commercially important Fishes, Crustaceans and Molluscs.

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC1 AQ 01- FISH HARVESTING TECHNOLOGY
COURSE OUTCOMES (COs)	CO.1.	Indian Marine and Inland Fishery Resources
	CO.2.	Indian Fishery Regulations
	CO.3.	Marine Capture Fishery of commercially important fishes and non-fishes
	CO.4.	Fishing Crafts and Gear – Accessories, Design and maintenance
	CO.5.	Fishing accessory equipment
	CO.6.	Different kinds of fishing nets and its operations
	CO.7.	Fishing methods followed in India

I. THEORY COURSE

COURSE CODE AND COURSE NAME		SDC1 AQ 02- FISH NUTRITION
COURSE OUTCOMES (COs)	CO.1.	Feeding habits and adaptations of Fishes, Crustaceans, Molluscs
	CO.2.	Nutritional requirements of Fishes
	CO.3.	Vitamins – its adequacy and inadequacy
	CO.4.	Kinds of feed ingredients and additives
	CO.5.	Fish feed formulation and manufacturing processes
	CO.6.	Importance and nutritive value of live feeds
	CO.7.	Feed management and feeding strategies in culture systems

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC1 AQ 03 - TECHNOLOGY OF FOOD PRESERVATION
COURSE OUTCOMES (COs)	CO.1.	Types of foods and its preservation
	CO.2.	Basic microbiology and its application in food preservation
	CO.3.	Microorganisms associated with food and its classification
	CO.4.	Food preservation methods by low temperature
	CO.5.	Food preservation methods by high temperature
	CO.6.	Methods of food preservation by controlling moisture
	CO.7.	Methods of food preservation by applying irradiation

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		GEC2 FM 02 - FOOD MICROBIOLOGY
COURSE OUTCOMES (COs)	CO.1.	Scope of food microbiology
	CO.2.	characteristics of microorganisms associated with food
	CO.3.	Food characteristics that entice the microbial growth
	CO.4.	Kinds of food and their microbial spoilage
	CO.5.	Application of microorganisms in industrial (food) basis
	CO.6.	Food borne infections
	CO.7.	Laboratory cultivation of microorganisms
	CO.8.	Isolation and identification of microorganisms associated with food
	CO.9.	Principles and methods of controlling microorganisms in food products
	CO.10.	Rapid detection methods of microorganisms and its application in food industry

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC2 AQ 05 - FOOD SAFETY IN SEAFOOD INDUSTRY
COURSE OUTCOMES (COs)	CO.1.	Microbial standards to be followed in seafood industry
	CO.2.	Sanitary practises to be followed in seafood industry
	CO.3.	Sources and control measures of microbial contamination
	CO.4.	Potential non microbial food infections associated with seafood
	CO.5.	Food borne pathogens associated with seafood
	CO.6.	Water borne and environmental pathogens of public health significance
	CO.7.	Isolation and identification of microorganisms associated with seafood
	CO.8	Significance of cross contamination in seafood industry
	CO.9.	Quality control measures in seafood industry
	CO.10.	Laboratory requirements and practices in seafood industry
	CO.11.	Packaging materials and types for seafood products
	CO.12.	Potential health hazards and risks associated with seafood products

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC2 AQ 06 - FISH BIOCHEMISTRY AND SPOILAGE
COURSE OUTCOMES (COs)	CO.1.	Biochemical constituents in fish , Crustaceans and Molluscs
	CO.2.	Carbohydrate, Protein, non-protein and fatty acid composition and its significance in fishes
	CO.3.	Changes occurring in chemical composition of seafood products during preservation and storage
	CO.4.	Post mortem changes occurring in chemical composition of fish muscle
	CO.5.	Causes and indices of seafood spoilage
	CO.6.	Organoleptic evaluation of seafood spoilage
	CO.7.	Assessment of fish Quality
	CO.8	Sanitary and phytosanitary requirements in seafood industry
	CO.9.	Instruments used for quality assessment of seafood products
	CO.10.	Instruments and biochemical analysis of the fish muscle constituents

I. THEORY COURSE

COURSE CODE AND COURSE NAME		SDC2 AQ07 - POST HARVEST HANDLING OF FISH
COURSE OUTCOMES (COs)	CO.1.	Hygienic handling practises of fish on board
	CO.2.	Quality parameters of ice and water used for fish processing
	CO.3.	Transportation conditions of fresh and processed fish
	CO.4.	Methods and significance of on board pre- treatment of fish
	CO.5.	Types of freezing techniques in seafood industry
	CO.6.	Packaging materials and methods in seafood industry
	CO.7.	Storage conditions of processed seafood products
	CO.8	Quality management of fishery products
	CO.9.	Waste management in seafood industry
	CO.10.	Sanitary facilities in seafood industry

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		GEC3 EFI 03 - ENTREPRENEURSHIP IN FOOD INDUSTRIES
COURSE OUTCOMES (COs)	CO.1.	Types and trends in Entrepreneurial ventures in foods and nutrition
	CO.2.	Qualities and skills needed for an entrepreneur
	CO.3.	Resource requirements for a business
	CO.4.	Steps involved to start an entrepreneurial venture
	CO.5.	Funding sources in India for entrepreneurial venture
	CO.6.	Marketing strategy of food product business
	CO.7.	Business regulations in India
	CO.8	Franchising and outsourcing a business
	CO.9.	Intellectual property rights registration
	CO.10.	Government and non -government funding agencies in India
	CO.11.	Product pricing and profit generation analysis tools

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		GEC3 GI 03 - GENERAL INFORMATICS
COURSE OUTCOMES (COs)	CO.1.	Types and developmental history of computers
	CO.2.	Introduction to basic hardware and software of the computer
	CO.3.	Networking- wireless networking systems and the internet
	CO.4.	Social networking and security systems
	CO.5.	Networking in the office
	CO.6.	Knowledge resources on the internet
	CO.7.	Computer operating systems
	CO.8.	Computer localization

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC3 AQ09 - FREEZING TECHNOLOGY IN SEAFOOD PLANTS
COURSE OUTCOMES (COs)	CO.1.	Techniques and principles of freezing in seafood industry
	CO.2.	kinds of freezing techniques used in seafood industry
	CO.3.	Treatments of products prior to freezing
	CO.4.	Physical and chemical changes of stored frozen products
	CO.5.	Bacterial and sensory changes in fishery products in storage
	CO.6.	Preparation and grading of the seafood for freezing
	CO.7.	Cold storage facilities of a seafood industry

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC3 AQ10 - THERMAL PROCESSING OF FISHERY PRODUCTS
COURSE OUTCOMES (COs)	CO.1.	Principles and concepts in thermal processing of fishery products
	CO.2.	Sterility and pasteurization techniques of fishery products
	CO.3.	Principles and method of canning process in seafood
	CO.4.	Application of hurdle technology in preserving seafood products
	CO.5.	Principles of irradiation process
	CO.6.	Changes occurring in irradiated products

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC3 AQ11 - OPERATION MANAGEMENT OF FISH PROCESSING PLANTS
COURSE OUTCOMES (COs)	CO.1.	Fundamentals of processing plant design and lay-out
	CO.2.	Functions and construction of refrigeration system in seafood industry
	CO.3.	Preventive maintenance of machinery and equipment of fish processing plants
	CO.4.	Legislation and standards of effluent discharge
	CO.5.	Measurement techniques and instruments used in seafood industry
	CO.6.	Mechanisms and modes of fishery extension and their impact on capture fisheries and fisher livelihoods
	CO.7.	Role of different organizations in fishery extension

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		GEC4 FB04 - FOOD BIOTECHNOLOGY
COURSE OUTCOMES (COs)	CO.1.	Significance of Biotechnology in food processing and preservation
	CO.2.	Genetically modified plants and animals
	CO.3.	Microbial biotechnology- Genetically modified microorganisms
	CO.4.	Use of microbes in the production of alcohol products
	CO.5.	Use of Biotechnology for the production of enzymes
	CO.6.	Applications of Biotechnology in food waste management
	CO.7.	Applications of Biotechnology in development of value added products
	CO.8.	Use of nanoparticles for delivery of bioactive constituents
	CO.9.	Applications of Nutrigenomics in the food industry

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		GEC4 FPD04 - FOOD PRODUCT DEVELOPMENT AND ANALYSIS

COURSE OUTCOMES (COs)	CO.1.	Hypothetical proposal for new food product development
	CO.2.	Sensory evaluation of foods
	CO.3.	Food Product Development laboratory trials
	CO.4.	Development of the product and modifications for innovation
	CO.5.	Preparing a flow chart indicative of the operational processes
	CO.6.	Identifying suitable packaging material for food products
	CO.7.	Nutritive value estimation by biochemical methods
	CO.8.	Microbial Shelf Life Studies at various altered conditions
	CO.9.	Estimation of physiochemical changes in food

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC4 AQ13 - ECONOMICS AND MARKETING IN SEAFOOD TRADE
COURSE OUTCOMES (COs)	CO.1.	Definition, scope and role of fishery economics
	CO.2.	Production economics catch and effort studies
	CO.3.	methodological issues in the estimation of fish catch and fishing effort
	CO.4.	Economic theories and growth models of fish resource development and exploitation
	CO.5.	Fishery resource management
	CO.6.	Functions of fish marketing, Markets and market structure
	CO.7.	Regulations and approaches to fish marketing development.
	CO.8.	value addition in fish marketing
	CO.9.	Computer application in marketing management
	CO.10.	Characteristics of demand and supply of fish and fishery product
	CO.11.	Price analysis determination of fish and fishery products

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC4 AQ14 - FISHERY BY-PRODUCTS AND VALUE ADDITION
COURSE OUTCOMES (COs)	CO.1.	Nutritional importance of fish meal and quality requirements
	CO.2.	Production processes of fish meal
	CO.3.	Nutritional importance of fish oil and methods to impart stability to fish oils on storage
	CO.4.	Products and methods of production of by products from shrimp waste

	CO.5.	Methods of production of fish protein concentrate
	CO.6.	Production and nutritive value of fish silage
	CO.7.	Types of fishery by products and its use
	CO.8.	Production and trend of value added products

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC4 AQ15 - QUALITY CONTROL, INSPECTION AND CERTIFICATION IN SEAFOOD
COURSE OUTCOMES (COs)	CO.1.	Significance of quality control in food processing
	CO.2.	quality concept and application in fish trade
	CO.3.	Quality assessment of fish and fishery products
	CO.4.	HACCP and Good manufacturing practices in seafood industry
	CO.5.	Quality evaluation techniques for seafood
	CO.6.	Standards for fish and fishery products
	CO.7.	National and International Quality standards
	CO.8.	Seafood certification systems
	CO.9.	ISO 22000:2006
	CO.10.	Microbial quality standards for major importing countries like USA, Japan, EEC

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		EC5 NFF05 - NUTRACEUTICALS AND FUNCTIONAL FOODS
COURSE OUTCOMES (COs)	CO.1.	Current trends in the use of functional foods and nutraceuticals
	CO.2.	Specific Functional Foods and their bioactive constituents.
	CO.3.	Probiotics and Fermented Foods as sources of Probiotics
	CO.4.	major nutraceuticals and their health applications

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		GEC5 ME05 - MARINE ECOLOGY
COURSE OUTCOMES (COs)	CO.1.	Classification of marine environment
	CO.2.	Structure, composition, adaptations of marine ecosystem
	CO.3.	Marine zoogeography with reference to Indian Arctic and Antarctic Oceans.
	CO.4.	Population ecology of marine system

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC5 AQ17 - CURED AND DRIED FISHERY PRODUCTS
COURSE OUTCOMES (COs)	CO.1.	Principles of drying and dehydration
	CO.2.	Different types of dryers and processing
	CO.3.	Curing of fatty and lean fish
	CO.4.	different methods of fermentation
	CO.5.	Indigenous products and their principles of preservation

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC5 AQ18 - PACKING AND LABELLING OF FISH AND FISHERY PRODUCTS
COURSE OUTCOMES (COs)	CO.1.	technological aspects of packaging fishery products
	CO.2.	packaging standards for domestic and international trade
	CO.3.	development of protective packaging for fishery products
	CO.4.	Methods of testing for packaging materials for their physical properties
	CO.5.	Types of packaging in seafood industry
	CO.6.	national and international, legislation on labelling
	CO.7.	Nutritional labelling and education act
	CO.8.	The US/ International labelling requirements (Codex/ Indian standards for labelling)

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC5 AQ19 - STORAGE AND TRANSPORTATION OF FISHERY PRODUCTS
COURSE OUTCOMES (COs)	CO.1.	intrinsic and extrinsic factors affecting quality of fish
	CO.2.	Changes in Fish muscle during freezing and in the cold storage
	CO.3.	Layout and factors to be considered during storage
	CO.4.	microbiological and sensory changes during chill storage

	CO.5.	Types of cold storage in seafood industry
	CO.6.	Transportation of raw fish to local markets and processing centres
	CO.7.	Classification of transport vehicles in fishery sector
	CO.8.	Importance of maintaining cold chain in seafood sector

I. THEORY COURSE		
COURSE CODE AND COURSE NAME		SDC5 AQ20 - INSTRUMENTATION IN FISH PROCESSING AND ANALYSIS
COURSE OUTCOMES (COs)	CO.1.	Working principles of light microscopes
	CO.2.	Probe meters for pH, temperature, chlorine check
	CO.3.	High performance liquid chromatography and Chromatographic separation methods.
	CO.4.	Southern and northern blotting techniques
	CO.5.	PCR-Principles and application in Fisheries for disease diagnosis

II. PRACTICAL COURSE		
COURSE CODE AND COURSE NAME		SDC1 AQ04(P) TAXONOMY, FISHERIES AND FISHING TECHNOLOGY
COURSE OUTCOMES (COs)	CO.1.	Knowledge on biological specimen preparation
	CO.2.	Dissection studies on digestive system of fish
	CO.3.	Knowledge on morphometric measurement of fish specimen
	CO.4.	Mounting of fish scales to analyse the type
	CO.5.	Estimation of fecundity of prawn

II. PRACTICAL COURSE		
COURSE CODE AND COURSE NAME		SDC3 AQ12(P) FOOD MICROBIOLOGY
COURSE OUTCOMES (COs)	CO.1.	Knowledge on different types of sterilization technique
	CO.2.	Gram staining of bacteria
	CO.3.	Exposure on light microscopy
	CO.4.	Bacterial media preparation for various bacteria
	CO.5.	Enumeration of bacteria
	CO.6.	Knowledge on bacterial inoculation techniques
	CO.7.	Bacterial isolation and identification techniques

B.VOC TOURISM AND HOSPITALITY MANAGEMENT

Name of the programme and out comes	Name of the course	Course outcomes
B Voc Tourism and Hospitalit y Managem ent	GEC1FT03 Fundamentals of Tourism	To invoke interests in students with the basic concepts of tourism studies
	SDC1IT16 Information Technology for Tourism Business	To understand the basic computing skills
	SDC1HM17 Hospitality Management	To provide an overview of the hospitality industry.
	SDC1GS18 Guiding Skills for Tourism	To acquire an in-depth knowledge about the profession of tour guiding and escorting.
	GEC2PP06 Tourism Principles and Practices	To familiarise the students with the basic principles and practices and philosophies of tourism
	SDC2TO20 Travel Agency and Tour Operation Management	To understand the working mechanism of the travel agency and tour operator
	SDC2FA21 Financial Accounting	To familiarise the students with the basic accounting terminologies and capable of journalising, posting and preparing final accounts
	SDC2EM22 Event Management	To familiarize with basic concepts and practices in event management
	GEC3PM09 Principles of Management	To provide basic knowledge in the principles of management.
	SDC3CH24	To understand the cultural and tourism background of Kerala

	Cultural History & Tourism Resources of Kerala	
	SDC3TC25 Tour Packaging and Costing	To familiarise with tour planning, packaging and costing
	SDC3HR26 Human Resource Management	To give a conceptual understanding of human resource practices in organisations.
	GEC4ET12 Eco Tourism	To familiarise the students with the concept of Eco Tourism Principles and Trends
	SDC4FO28 Front Office Operations	To familiarise with the front office operations.
	SDC4AF29 Air Fares and Ticketing	To equip the students to understand the mechanism of airline ticketing and fare calculation. (All the Fares and NUC's should be provided in the question paper itself).
	SDC4ED30 Entrepreneurship Development	To recognise and appreciate the potential opportunities of becoming an entrepreneur in tourism industry
	GEC5MT13 Principles of Marketing	To equip the students the basics of marketing.
	GEC5BR14 Business Regulatory Framework for Tourism	To familiarise the students with the legal aspects of tourism
	SDC5TM15 Transportation Management	To learn about various types of transportation and understand the relationship between transportation and tourism
	SDC5TP32 Tourism Products of India	To study the tourism products and potentials of India
	SDC5ET33 Emerging Trends in Tourism	To study the innovative practices in the tourism industry
	SDC5PO34 Tourism Policy and Planning	To learn about policy making and planning in tourism sector

B.VOC (LOGISTICS MANAGEMENT)

Name of the programme and out comes	Name of the course	Course outcomes
1. B.VOC (LOGISTICS MANAGEMENT)	1. IT for business 2. Business Mathematics 3. Fundamentals of Accounting 4. Introduction to Logistics	<ul style="list-style-type: none"> ● To familiarize the students with the office automation and communication technologies used in business ● To enable the students to acquire knowledge of business mathematics and their applications in business. ● To equip the students with the skill of preparing accounts and financial statements. ● To understand the process of logistics in an organization
	1. Principles of Management 2. Domestic Logistics Management 3. Warehouse Management 4. Transportation and Distribution Management	<ul style="list-style-type: none"> ➤ To understand the students about the process of business management and its functions ➤ To familiarize the students with the concepts,tools and practices of domestic logistic management ➤ To familiarize the students with the concepts,tools and practices of warehouse management ● To familiarize the students with the concepts,tools and practices of transportation management ➤
	1. Business Communication	<ul style="list-style-type: none"> ➤ To enable the students with the concepts,tools and practices

	<p>2. Business Statistics 3. Principles of Logistics Information Systems 4. Inventory Management 5. Shipping and Ocean Freight Logistics Management</p>	<p>of business communication in an organisation</p> <ul style="list-style-type: none"> ➤ To enable students to describe data and make evidence based decisions using inferential statistics that are based on well-reasoned statistical arguments. ➤ To familiarize the students with the concepts, tools and practices of logistics information systems ➤ To enable the students with the concepts, tools and practices of inventory management ● To familiarize the students with the concepts ,tools and practices of shipping and ocean freight logistics management
	<p>1. Entrepreneurship Development 2. Managerial Economics 3. Supply Chain Management 4. International Logistics Management 5. Export and Import - Policies & Procedures</p>	<ul style="list-style-type: none"> ● To impart knowledge about the role of entrepreneurship institutions in India ➤ To familiarize the students with the concepts, tools and practices of managerial economics in business management ● To familiarize the students with the concepts, tools and practices of supply chain management. ● To familiarize the students with the concepts, tools and practices of international logistics management. ● To familiarize the students with the procedures of export and import between countries
	<p>1. Marketing Management 2. Human Resource Management 3. Banking & Insurance Management 4. Operations Management</p>	<ul style="list-style-type: none"> ● To acquaint the students with the marketing principles and practices ● To familiarize the students with the different aspects of managing Human resource in the organization ● To familiarize students with the modern trends in banking ● To learn about the decisions and processes of operation management in a business firm

	5. Retail management 6. Air Cargo Logistics Management	<ul style="list-style-type: none"> ● To give an overview of the conceptual aspects of retail marketing management ● To familiarize the students with the concepts, tools and practices of Air cargo logistics management ●
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Name of the Programme: B.Voc. Digital Film Production

Course Outcome:

To make students familiar with the techniques of Digital Filmmaking and make them expert in their field or specialization such as Cinematography, Direction, Video Editing, Art Director, etc. Also make them aware of development of Film Making and essential theories that help to make perfect films of their own.

Program Outcome:

- Demonstrate basic techniques of Filmmaking.
- Demonstrate proficiency in script writing and content writing.
- Communicate ideas with the help of digital visuals.
- Apply digital technology in Cinematography, Sound Production & Video Editing.
- Apply critical thinking and communication skills to solve applied problems

- Perform art forms such as Drama, Acting, etc.

Program Specific Outcome:

- Demonstrate basic film production skills in camera, editing, sound mixing, etc.
- Gain exposure to a variety of genres of Films and related fields such as Italian Films, Hollywood, Bollywood, Iranian films, Indian Films, etc.
- Gain experience in Filmmaking.