NAM COLLEGE KALLIKKANDY

(Accredited by NAAC with 'B' Grade)

Vidyagiri, P O Kallikkandy, Kannur Dist., PIN 670693

PROGRAMME OUTCOMES,
PROGRAMME SPECIFIC OUTCOMES FOR ALL PROGRAMMES
COURSE OUTCOMES FOR ALL COURSES
(2017-18 & 2018-19)

PROGRAMME OUTCOME (PO)	**PO 1 Critical Thinking:** 1.1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions. 1.2. Develop the ability for progressive action after recognizing the presence of hegemonic ideology within certain dominant notions 1.3 Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives. **PO 2 Effective Citizenship:** 2.1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic. 2.2. Develop and practice gender sensitive attitudes, environmental awareness, empathetic social awareness about various kinds of discriminations. 2.3. Internalise certain highlights of the nation's and region's history. **PO3 Effective Communication:** 3.1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language 3.2. Learn to articulate, analyze, synthesize, and evaluate ideas and situations. 3.3. Generate hypotheses and articulate assent or dissent by employing both reason and creative thinking. **P04 Inter disciplinarily:** 4.1. Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind. 4.2. Understand the issues of environmental contexts and sustainable developments a basic interdisciplinary concern of all disciplines. 4.3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving

PROGRAMME SPECIFIC OUTCOMES (PSO)	**PSO1**. Understand the historical contexts behind the origin and development of English literature with a special focus on various movements and the important works belonging to such movements. **PSO2**. Understand the current methodological issues in the study of literature and apply various reading strategies employed to selected literary as well as cultural texts. **PSO 3**. Understand and apply the extended meaning of "English Literature" to various post-colonial and other writings in English. **PSO 4**. Understand the basics of disciplines like Film Studies, Culture Studies, Fine Arts, Women's Writing, Dalit Writings, Post-colonial writing, Indian writing in English, Malayalam Literature and Literatures in Translation. **PSO 5**. Understand and appreciate the interdisciplinary links that literary studies have with disciplines like Philosophy, History, Political Science, Sociology, Anthropology and the Sciences.

Semester	Course Code	Course title	Course outcome
I	**1A01ENG** **COMMON**	**COMMUNICATIVE ENGLISH - I**	**CO.1**. To help the students to select and use a variety of speaking, listening, and writing and listening strategies. **CO.2**. To aid in an overall development of knowledge and understanding of English Grammar and Phonetics . **CO.3**. To familiarize the students with the basics of oral communication and thus develop their ability to use English for performing vital communicative functions in academic, social and professional situations and to develop global intelligibility. **CO.4**. To follow the writing conventions correctly.

Semester	Course Code	Course title	Course outcome
I	1A02ENG COMMON	LANGUAGE THROUGH LITERATURE I	CO1. To improve students' insights about literature, humanity and social values in conjunction with the mechanics of writing such as grammar, register, generic conventions and disciplinary guidelines CO2. To enable the students to think critically about major issues raised in the reading. CO3. To develop the skills of analysis, synthesis, evaluation, interpretation, inference and application needed to fully appreciate a writer's ideas. CO4. To highlight the reciprocity of the relationship between writing and reading. CO5. To develop critical insights and faculties and to examine a work from various critical perspectives and initiate problem-solving activities through the use of lexical exercise
I	**1B01ENG**	**HISTORY OF ENGLISH LANGUAGE AND LITERATURE**	CO1. To teach the student to examine the ways in which different social, economic, political and cultural events have informed literary activity in English and to provide students with a historical sense of the evolution of the English Language. CO2.To help students historically conceptualise literature.. CO3. To acquire a comprehensive views of broad periods of English Literature CO4. To equip them with a sound knowledge of the internal development of the English language through the ages, with reference to key figures who have enriched the language CO5. To draw attention to the key points of conjunction between the internal dynamics of the language and the external forces. CO6.To focus on specific ways in which language has shaped the reactions , perceptions, and beliefs of local, national and global communities.

Semester	Course Code	Course title	Course outcome
II	2A03ENG COMMON	COMMUNICATIVE ENGLISH II	CO1. To equip the students with a command of the English language through learner centred and activity oriented methods. CO2. To train the student in basic research, taking part in academic discussions, writing academic assignments, presenting at student seminars, managing studies, including time management and learning to use English in a range of study contexts. CO3. To apply oral communication skills to interviews, group presentations, formal presentations, and impromptu situations. CO4. To train the student to write fluently for a variety of occasions, audiences and purposes, making appropriate choices regarding style, tone, level of detail and organization.
II	2A04ENG COMMON	LANGUAGE THROUGH LITERATURE II	CO1. To enhance the awareness of students regarding vital issues pertaining to the environment. CO2. To sensitize students about the continuing nature of global environmental problems. CO3. To initiate concrete action to save the environment and to instill civic consciousness CO4. To enhance vocabulary from their context in the reading, evolving a content-based approach which will subsequently help the students to use words and idioms in personalized context
II	2B02ENG	STUDIES IN PROSE	CO1. To engage in in-depth reading of the works of masters of prose, which will help in the formation of an effective prose style. CO2. To enable the student to analyse the relationships among authors and elements of literature, including tone, point of view, style and theme. CO3. To examine a literary selection from several critical perspective

Semester	Course Code	Course title	Course outcome
III	3A05ENG COMMON	READINGS IN PROSE AND POETRY	CO1. To enable students to understand the different stylistic, thematic and technical qualities present in the literature of different cultures and historical periods and the specific ways in which language has shaped the reactions, perceptions and beliefs of the local, national, and global communities. CO2. To help the student understand the timeless significance of good literature which transcends the limitations and peculiarities of the age it was written in. CO3. To help the student acquire an understanding that language and literature are primary means by which culture and human values are transmitted. CO4. To help the student understand the subtleties of literary devices , techniques, images and sounds used in non-fiction and poetry.
III	3B03ENG	LINGUISTICS	CO1. To provide clear and detailed explanations of the basic building blocks of the language, grammar, usage, spelling and punctuation. CO2• To enable students integrate a sound knowledge of grammar into life skills as well as academic contexts CO3. To help students to refine vocabulary for interpersonal, academic and workplace situations, including figurative, idiomatic and technical meanings and make highly effective word choices CO4. To help students write fluently for a variety of occasions, audiences, and purposes, and to make appropriate choices regarding style, stone, level of detail and organization CO5. To help the students to speak language accurately with the right pronunciation, word and sentence stress and into national global intelligibility.
III	3B04ENG	ENGLISH IN THE INTERNET ERA	CO1. To help students to effectively integrate multimedia and technology into learning CO2. To enable the student to use a variety of electronic media, such as the Internet, information services and desk-top publishing software programs, to create, revise, retrieve and verify information CO3. To help the student to select and use appropriate study and research skills and tools according to the type of information being gathered or organized from information services CO4. To familiarize the students with the most recent developments in the integration of Web 2.0 technologies with literature.

Semester	Course Code	Course title	Course outcome
IV	**4A05ENG COMMON**	**STUDIES IN FICTION AND DRAMA**	**CO1.** To teach the student to respond critically to drama and fiction, formulate insights about the texts, learn to construct meaning and identify the characteristics that distinguish literary forms. **CO2.** To help the student understand the power of language and production elements that contribute to the effectiveness of a specific medium. CO3.To enable the student to understand why certain literary works are considered classics and to identify universal themes prevalent in the literature of all cultures. **CO4.** To teach the student to analyse the effectiveness of complex elements of plot, such as setting, major events, problems, conflicts and resolutions. **CO5**. To understand the relationships between and among elements of literature, including characters, plot, setting, tone, point of view and theme.
IV	4B05ENG	STUDIES IN POETRY	**CO1.**To help the students respond effectively as well as critically to poetry. **CO2**. To help the student to understand the different stylistic, thematic and technical qualities present in the poetry of different cultures and historical periods. **CO3**. To enable the student to identify the characteristics that distinguish different poetic forms and genres and to identify universal themes prevalent in the literature of all cultures. **CO4**. To introduce the student to the diversely experimental and vigorously innovative modes of poetry and to identify universal themes prevalent in the literature of all cultures.
IV	4A06ENG	LITERARY CRITICISM	CO1. To acquaint the students with fundamental and influential ideas that have a bearing on literary creation and understanding of literature. CO2. To awaken students' appreciative and critical faculties and so encourage their development as readers of literature. CO3. To provide the students with an adequate understanding of literary/critical terminology, key concepts, technical terms and theories. CO4. To develop a critical temper in the students and familiarize them with received ideas that enjoy universal reception in the context of literary study. CO5. To give a clear explanations of the links and the disagreements between different thinkers and schools.

Semester	Course Code	Course title	Course outcome
V	5B07ENG	MODERN CRITICAL THEORY	CO1. To provide the students with an adequate understanding of literary/critical terminology, concepts, technical terms and theories. CO2.To develop a critical temperament in the students. CO3. To stimulate debate and enhance understanding of literature in the context of social structure, gender relations, national identity and so on. CO4. To introduce the students to some of the best writings in the field of criticism practice and the formation of theory
V	5B08ENG	DRAMA–THEORY AND LITERATURE	CO1. To foster a mature understanding of drama and dramaturgy. CO2. To help the student understand the characteristics of major types of drama as well as the classical and medieval precedents that are important for a consideration of drama as a genre. CO3. To equip the student in matters concerning diction and generic expectation- the appropriate styles, conventions and registers of language for a given play. CO4. To enable the student to analyze the textual functions of drama as a powerful vehicle of social change. CO5.To acquire an understanding of the broader intellectual, cultural and social history that gave rise to the growth of drama.
V	5B09ENG	STUDIES IN FICTION	CO1. To acquaint the students with the distinctive qualities of imaginative writing, such as novels and short fiction, their complex history of development and the reasons for the abiding popularity of these genres. CO2. To analyze the effectiveness of complex elements of plot, such as setting, major events, problems, conflicts, and resolutions. CO3. To enable the student to understand the novel in the context of its pre-modern history as well as its modern international form. CO4. To offer the student a masterful insight into basic values of human nature that abide in the fictional form.

Semester	Course Code	Course title	Course outcome
V	5D01ENG OPEN COURSE	OPEN COURSE ENGLISH FORCOMPETITIVE EXAMS	CO1. To familiarize students with the language items required to take competitive examinations at various levels and to equip them with the methodology of approaching the said items. different mass media. CO2. To acquaint the students with the basics of English grammar and to enrich their vocabulary. CO3.To provide opportunities for the students to improve their listening and reading comprehension skills CO4. To familiarize the students with the questions that are commonly asked in competitive exams.
VI	6B11ENG	PROJECT	CO1. To broaden the perspectives of the students and train them in research writing based on information gathered from outside sources CO2. To provide students training in documentation and research methodology. CO3. To foster an understanding of the mechanics of writing. CO4. To learn to structure information or informed ideas logically and effectively. CO5. To learn to present and interpret information gathered through an extensive study of a subject.
VI	6B12ENG	MALAYALAM LITERATURE IN TRANSLATION	. CO1. To draw the attention of the student to the literary talents operating in Kerala . CO2. To provide a sense of rootedness and historical continuity. CO3.To learn to subject the very practice of translation to ideological scrutiny. CO4. To make possible the critical discussion of texts, literary movements and cultural phenomena in Kerala.
VI	6B13ENG	NEW LITERATURES IN ENGLISH	CO1. To initiate students into a discussion of the cultural differences in literary texts produced from the New World and identify different theoretical assumptions and practices in literature. CO2. To introduce the learner to the growth and development of literatures outside Britain CO3. To learn to construct alternative readings of history CO4. To learn to critique the relations of power in colonial contexts and newly independent states. CO5. To learn to subject the economic, political, social and cultural axioms of imperialism to a thorough interrogation.

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VI	6B14ENG	INDIAN WRITING IN ENGLISH	CO1. To introduce the student to the extraordinary range and complexity of contemporary Indian writing in English and to draw attention to issues such as nature, culture and representation. CO2. To help the learner to approach Indian Writing in English as a corollary of the momentous contact between India and the Indian ethos on the one hand, and England, the English language and Western culture on the other. CO3. To help the learner to identify the Indian idiom of Indian Writing in English and the Indian sensibility that animates it. CO4. To experience the quintessence of this writing, apart from the prevailing tendencies and motivating forces that foreground it.
VI	6B15ENG	FILM STUDIES	CO1. To enable the undergraduate students to discuss film theories at a basic level and prepare them for a higher level of understanding and appreciation of contemporary films. CO2. To equip the undergraduate student with a historical perspective of world cinema. CO3. To accustom the student to a wide range of cinematic styles and techniques from canonical phases of cinematic history. CO4. To critically view the nature of representation on screen of class, race, gender, ethnicity and sexuality. CO5. To create a lively atmosphere of cinema debate in the classrooms with continuous use of audiovisual clippings from representative films based on the wide spectrum of film theories, styles and movement
VI	6B16(3)ENG ELECTIVE	WRITING FOR MEDIA	CO1. To equip students to see the differences in writing for different types of media and to identify media as deeply involved in social processes and change. CO2. To introduce students to the process of writing for media CO3. To enable students to understand the different requirements demanded by different mass media. CO4. To equip students with the required skills/ knowledge to write professionally for mass media, the visual and print media. CO5. To equip students to see the differences in writing for different types of media and to identify media as deeply involved in social processes and change.

MA ENGLISH	CONTENT PAGE
PROGRAMME OUTCOME (PO)	**PO 1. Creative Synthesis and Critical Thinking**: Students will learn a number of strategies for analyzing individual examples of literature and film, and for thinking synthetically about works that share a formal, generic, topical or historical impulse. **PO 2. Research/ Methods:** Students will Learn how to design and carry out original and persuasive research in English literature with particular attention to their chosen historical field(s) or research focus **PO 3.Interdisciplinarity:** Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind and to develop interdisciplinary competency **PO 4.Effective citizenship**: Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic
PROGRAMME SPECIFIC OUTCOMES (PSO)	**PSO.1**. To identify and understand the various ages in English literature and to have a holistic view about the literature produced during that time. **PSO.2.** To understand the literature and it's contexts till 20th century and also to introduce major theoretical postulations of 20th century. **PSO.3**. Trends and movements of British literature in 20th century and an introduction to the literatures in English from other nations. **PSO.4**. Contemporary and emerging trends in the studies of literature and theory and also introduction to Research.

Semester	Course Code	Course title	Course outcome
I	ENG1C01	British Literature: Chaucer to 17th Century	CO.1.Introduce British poetry, novel and drama from the age of Chaucer to the age of pope. CO. 2. Understand the socio-political context of the period from 14th century -17th centuries. CO. 3. Understand the theme, structure and style in British literature.
I	ENG1C02	British Literature: 18th Century	CO. I. Help students to discover the pleasures in reading fiction. CO.2. Understand gradual changes from reason to emotion in British literature CO.3. Highlight on the major features of neo-classicism and Enlightenment.

Semester	Course Code	Course title	Course outcome
I	ENG1C03	Literary Criticism	CO.1 Gets a firm grounding in a major methodological aspect of literary studies known as theory CO.2. Examines how literary criticism shapes literature and culture across centuries. CO.3 Recognize and critique the major arguments underlying critical writings.
I	ENG1C04	History and Structure of English Language	CO. 1 Offers an overview of the History of English Language from its origin to the present. CO. 2. Help students historically conceptualise literature CO.3. To acquire comprehensive views of broad periods of English literature.
II	ENG2C06	Literature of the Victorian	CO. 1. To enable students to understand the concept of marriage and sexuality, the concept of utilitarianism and its role in human life CO. 2.To enable students to understand the existing conflict between faith and doubt in Victorian society CO.3. To enable the students to trace the intellectual and autistics currents that caused the emergence of some unique literary forms and movements during that time
II	ENG2C07	Modern Literary Theory	CO1. To understand the different aspects of literary studies known as theory CO 2. Acquaint the students with the history of English criticism in terms of teaching of certain important texts and ideas of everlasting significance ingrained in them. CO.3. To cultivate critical perspective in students while practically training them to attempt critical engagements with text and context.
III	ENG3C08	Twentieth Century British Literature	CO.1.Take cognizance of the seminal socio-political and historical events of the twentieth century, which exerted a deep influence on life and literature of the time. CO.2.To understand and appreciate the broad spectrum of literary and artistic movements of the twentieth century and there by develop the critical acumen to comprehend the complementarities of the theme and techniques in the literary work. CO.3.To analyze and demonstrate the knowledge of the major literary movements of the period.

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III	ENG3C09	Linguistics	CO: 1Understand the origin of language and the development of writing. CO.2.Comprehend basic grammatical and semantic categories of English. CO.3.Grasp the complexity of language as a communication system shaped by cognitive, cultural and social factors.
III	ENG3C10	Indian Writing in English	CO. 1.To understand how Indian writing in English evolved through a process of tradition and experiment, of imitation and innovation, of convention and revolt. CO.2.Take cognizance of the emergence of nationalist and pan-Indian ideologies in colonial and post- colonial India and its role in shaping the literary works. CO.3.Analyse and appreciate the idea of 'Indianans' and 'Indian sensibility' inscribed in the works of both Indian writers and also writers if Indian Diaspora.
III	ENG3C11	American Literature	CO.1.Comprehend the implications and reverberations of American freedom struggle. CO.2.Well informed about the evolution of American literature and the different cultural backgrounds of American authors and the themes, and their different writing style. CO.3.Comprehend the unyielding American dream.
IV	ENG 4C12	Postcolonial Writings	CO.1.To identifies and understands the context and perspectives of post colonial studies. CO.2. To have an in-depth knowledge about the ideas, perspectives and politics of major post colonial texts. CO.3. To enable students to develop critical perspectives leading to alternative interpretations and knowledge.
IV	ENG 4C13	Women's Writing	CO.1. To identify, understand, and critically evaluate issues and facts concerning identity, sex, gender and the social functions of these factors. CO.2. To critically appreciate some texts that discuss the issues of gender and sex. CO.3. To create critical perspectives among the students and to help them to form a larger worldview while interacting with the society

Semester	Course Code	Course title	Course outcome
IV	ENG 4C14	Film Studies	CO.1. To equip students with knowledge about the fundamentals of cultural studies and film studies. CO.2. to understand the major theoretical perspectives on film and to and to enable the students to develop their own critical thinking about films. CO.3. To enable the students to engage in critical appreciation of various cultural productions including films.
IV	ENG 4C 15	Comprehension	CO1. To mend the learning gaps that might have occurred across the lengths of the course. CO2. To have a holistic view of what they have learnt by emphasizing the broader scope of the course. CO.3. To enable the students to revisit and revise the various course materials so as to help them optimize the attainment of the various course objectives.
IV	ENG PR 16	Project	CO.1. To enable the students to take their knowledge and understanding to the level of application and creativity. CO.2. To initiate them to the fundamentals of critical studies and research CO.3. To familiarize the Research Methodology.
IV	ENG 4C 17	Viva-Voce	CO.1 To evaluate the student's performance apart from the written exam. CO. 2. To check how far the students attain the various course objective.
I SEMESTER (ELECTIVE)	ENG1EO3	Media Studies	CO.1. Makes a better understanding on professional media industry and to the forms of writings for mass media. CO.2. understand the specificities and possibilities of the different kinds of media CO.3. familiarize the students with the latest trends in media.
II SEMESTER (ELECTIVE)	ENG2E05	World Drama	CO.1 Introduce students to important ages and movements in word drama CO.2 . Make them aware of the great diversity of theatre in different parts of the world. CO.3 Focuses in the alternative traditions of drama present in the non-western world.
III SEMESTER (ELECTIVE)	ENG3E08	European Fiction	CO.1. To introduce the students to historical background of the European classical literature CO.2. To acquaint the students with various literary terms and its implementation and significance in European writing. CO.3. make the students acquainted with the world famous novelists and their literary outputs

PROGRAMME OUTCOME (PO)	**PO 1. Critical Thinking:** Acquire critical thinking which enables self-critical abilities and problem-solving capacities among the pupils **PO 2. Effective Citizenship**: Learn to participate in nation building in tune with modern democratic values and ideals including gender equality, environmental awareness, and to fight against all kinds of discriminations. **PO 3. Effective Communication:** Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language. **PO 4. Interdisciplinary**: Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind and to develop interdisciplinary competency
PROGRAMME SPECIFIC OUTCOMES (PSO)	**PSO.1**. Understand factual and conceptual aspects of historical changes in multiple areas of the world **PSO.2.** Think contextually and critically about the past to understand human experiences **PSO.3**. Analyze why and how historical events take place based on the verification of diverse evidences and arguments **PSO.4**. Design and write research papers based on primary and secondary sources **PSO.5**. Make logical oral presentation of factual and theoretical knowledge of historical events and changes **PSO.6**. Develop rational, humanitarian, democratic and secular outlook based on historical knowledge and contemporary societal, economic and political issues

Semester	Course Code	Course title	Course outcome
I	**IBO1HIS**	**Social Formation in Early India**	CO. 1 Identify the sources for the study of early Indian history and culture CO.2 Recognize early Indian settlements, centers of political and cultural importance CO.3 Demonstrate factual and theoretical knowledge of social, economic, cultural and political transformations in early India CO. 4 Analyze and Explain the significance of different religious and philosophical trends in ancient India.
II	**2B02HI**	**Social Formations in India: Continuity and Change**	CO. I Identify the major changes in the transition from ancient to medieval CO.2.To discern the historiographical schools on Early medieval India CO.3.Analyse the concept of Indian Feudalism in the context of decline of the Gupta empire, land grant system and demonetization CO.4 Critically evaluate the feudalism debate

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III	3B03HIS	Methodology and Perspectives of Social Science	CO.1 Familiarize Social Science methodology CO.2.Analyze the concept of Objectivity in Social Science CO.3 Conceptualize the interdisciplinarity of social science CO.4 Discern the postmodern theories of social science
III	3B04HIS	Culture in Transition	CO. 1 Recognize the geographic locations of Greek and Roman states and medieval towns CO. 2 Understand the broad pattern of political and cultural changes in Medieval Europe CO. 3 Discuss cultural and intellectual legacies of Greek and Roman civilizations to Modern West CO. 4 Evaluate cultural differences between ancient and medieval societies in Europe
IV	4B05HIS	Kerala History and Culture in Pre-Modern Period	CO. 1 Identify sources for the study of ancient and medieval Kerala history CO.2 Locate prehistoric and early historic settlements, ports, towns and political boundaries in Kerala CO.3 Describe social, economic, political and cultural formations of Kerala in ancient and medieval times CO.4 Produce monographs on any aspects of Kerala history using primary and secondary sources
IV	4B06HIS	Ideologies and Revolutions in the modern World	CO. 1 Understand origin, stages and results of selected revolutions in the modern world CO. 2 Analyze and explain different interpretations of world revolutions CO. 3 Relate the results of modern world revolutions to contemporary developments in the world CO.4 Produce written work on ideological, humanistic and secular aspects of any of the modern world revolutions
V	5B07HIS	Social Formation in Medieval India	CO1.Understand socio-political formations in Medieval India CO 2. Describe the evolution of Indo-Saracenic art and architecture CO 3. Analyze and explain the formation of secular political values in India CO 4. Locate centers of cultural, political and commercial importance

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V	5B08HIS	Social Movements and Political Awakening in Modern Kerala	CO.1 Understand factual knowledge of modern Kerala history CO.2 Explain political, social, cultural, religious and intellectual factors that led to the formation of modern Kerala CO.3 Analyze and discern the influence of caste and communal organizations in Kerala society and politics CO.4 Understand the significance of secular and egalitarian values and forces in the making of the cultural identity of Kerala
IV	4B06HIS	Ideologies and Revolutions in the modern World	CO. 1 Understand origin, stages and results of selected revolutions in the modern world CO. 2 Analyze and explain different interpretations of world revolutions CO. 3 Relate the results of modern world revolutions to contemporary developments in the world CO.4 Produce written work on ideological, humanistic and secular aspects of any of the modern world revolutions
V	5B09 HIS	HISTORIOGRAPHY	CO: 1 Understand basic terms, concepts and categories of historiography CO: 2 Describe the origin and growth of history as a branch of knowledge from ancient times CO: 3 Analyze and explain ideological and methodological foundations of historical writing in ancient, medieval and modern period in world history CO. 4 Discuss the relevance of interdisciplinary research and objectivity in historical writings
V	5B10HIS	Method and Writing of History	CO. 1 Distinguish between primary and secondary sources CO. 2 Use historical and interdisciplinary methods of research and research tools CO. 3 Analyze and synthesize historical data collected from different sources CO. 4 Create reasonable arguments and interpretations with the support of documentary evidences
V	5B11HIS	Archival Studies and Social Informatics	CO.1 Familiarize theories and concepts of Archival science CO. Understand the context of archives keeping in the modern world CO.3. Conceptualize the developments in Social informatics CO.4 Use online sources for the study of history

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VI	**6B12**	**Indian Historiography**	CO.1.Understand the historical traditions and writings in Ancient and Medieval India CO.2 Demonstrate comprehensive understanding of the origin and growth of major schools of modern Indian historiography CO.3 Explain theoretical and methodological differences in historical writings CO.4 Develop a critical approach in assessing the work of a historian
VI	**6B13HIS**	**Problems in Contemporary World**	CO.1.understand major political issues and events in the world since World War II. CO.2Analyze international problems in the context of diverse political interests and ideological movements CO.3.Interpret the present political issues in relation with pertinent international events in the twentieth century CO.4.Develop anti-colonial and anti-racist attitude and universal citizen concept
VI	**6B14HIS**	**Colonialism and Transformation of Indian Society**	CO.1 Understand Context of colonialism CO.2.Analyze the political, social and economic background of Social reform movement and its role in the making of modern India CO.3.Understand the nature of the revolt of 1857 and its impact CO.4 Analyze the role of modern Education in the Indian National Movement
VI	**6B15HIS**	**Freedom Struggle in India**	CO.1 Understand political, social and economic background of freedom struggle CO.2 Specify major stages of freedom struggle and their ideological distinctions CO.3 Analyze the role of nationalist movement in the making of modern India CO.4 Develop an attitude of nationalism cutting across limited boundaries of religion and caste in order to resist communal forces

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VI	**6B16HIS**	**PROJECT**	CO.1 Learn how to select a research topic and prepare research plan/proposal CO.2 Understand processes of data collection and research methods CO.3 Undertake critical analysis of data and make interpretations CO.4 Prepare a well written and authentic research work with proper references and select bibliography
V (OPEN COURSE)	VD01HIS (OPEN COURSE)	Social Reform Movement in Kerala (OPEN COURSE)	CO.1.Understand the role of Western education, missionary activities and indigenous reform movements in the making of modern Kerala CO.2.Evaluate the ideas, programmes and tactics of social reformers CO.3. Promote critical thinking about various social and religious issues in Kerala CO.4.Analyze and explain secular foundations of Kerala society
HISTORY COMPLEMENTARY COURSES FOR BA ENGLISH PROGRAMME			
I	IC01HIS	Evolution of Social and Cultural Life in England	CO.1 Identify geographical features and early settlements CO.2 Understand the evolution of social and political life in England CO.3 Describe the origin and growth of English language and literature CO.4 Analyze and explain historical background of social and cultural transitions
II	2C02HIS	Social and Cultural History of Modern England	CO.1 Understand the growth of English literature in different stages CO.2 Explain the political and social history of modern England CO.3 Analyze how history of England and English literature are intertwined CO.4 Assess new features of new literary trends in English

PROGRAMME OUTCOME (PO)	**PO 1. Critical Thinking** 1.1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions. 1.2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions. 1.3 Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives. **PO 2. Effective Citizenship** 2.1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic. 2.2. Develop and practice gender sensitive attitudes, environmental awareness, empathetic social awareness about various kinds of marginalization and the ability to understand and resist various kinds of discriminations. 2.3. Internalize certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernization of the post-colonial society. **PO 3. Effective Communication** 3.1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language 3.2. Learn to articulate, analyze, synthesize, and evaluate ideas and situations in a well-informed manner. 3.3. Generate hypotheses and articulate assent or dissent by employing both reason and creative thinking. **PO 4.Interdisciplinarity** 4.1. Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind. 4 4.2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines. 4.3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solvi and evolving a comprehensive perspective.
PROGRAMME SPECIFIC OUTCOMES (PSO)	**PSO 1**: Understand the basic concepts and tools of Mathematical logic, Set theory, Number theory, Geometry, Calculus, Algebra, Abstract structures, Linear Alge Analysis, Laplace transforms, Fourier series, Graph theory, and Optimization and methods of proofs. **PSO 2:** Model real world problems into Mathematical problems and find solutions understand the application of Mathematics in other Sciences and Engineering

Semester	Course Code	Course title	Course outcome
I	1B01 MAT	Differential Calculus	**CO1**: Understand limit of a function, limit laws, Continuity, Inverse functions and their derivatives **CO2-** Understand Rolle's Theorem, Lagrange's Mean Value Theorem, Cauchy's Mean Value Theorem and Taylors Theorem **CO3**: Understand successive differentiation and Leibnitz theorem **CO4**: Understand functions of several variables, limit and continuity, partial derivatives, chain rule, homogenous functions and Euler's theorem on homogenous functions
II	2B02 MAT	Integral Calculus	**CO1:** Understand Reduction formulae for trigonom functions and evaluation of definite integrals **CO2:** Understand Double integrals in Cartesian and Polar form. **CO3**: Understand Polar coordinates **CO4**: Understand Double integrals in Cartesian and polar form **CO5**: Understand triple integrals in rectangular, cylindrical and spherical co-ordinates **CO6:** Understand Substitution in multiple integrals
III	3B03 MAT	Elements of Mathematics I	**Co1:** Understand Finite and Infinite sets, Countable and uncountable sets, Cantor's theorem, Logic and proof **CO2:** Understand Relation between roots and coefficients, Symmetric functions of roots, Sum of the powers of roots, Newton's theorem on sum of the powers of roots, Transformation of equations, Reciprocal equations. **CO3;** Understand Descartes rule of signs, Multiple roots, Sturm's theorem, Cardon's method, Solution of biquadratic equation, Fundamental theorem of algebra **CO4:** Understand Divisibility theory in the integers – the division algorithm, the greatest common divisor, the Euclidean algorithm, the Diophantine equation
IV	4B04 MAT	Elements of Mathematics II	**Co1:** Understand Relations, Types of relations, Partitions, Equivalence relation, Partial ordering relation, Functions, Composition of functions, One to one, Onto and invertible function **CO2:** Understand Ordered sets, Partially ordered sets and Hasse diagrams, Minimal and maximal elements, First and last elements, Supermom and infimum, Lattices. **CO3;** Understand Chords of contact of tangents from a given point, Pair of tangents from a point, pole and polar with respect to conic sections, Equation of a chord in terms of middle point, Parametric representation of points on conics **CO4:** Understand Rank of a matrix – Elementary transformation, reduction to normal form, row reduced echelon form

Semester	Course Code	Course title	Course outcome
V	5B05 MAT	**Real Analysis**	**CO1 :**Understand Algebraic Properties, Order Properties and Absolute values of $\mathbb{R}$. Understand the Completeness Property of $\mathbb{R}$ and its applications to derive Archimedean Property. **CO2** :Understand intervals in the real line. **CO3** :Understand Sequences and their Limits, Limit Theorems, Monotone Sequences. **CO4**:Understand Subsequences and the Bolzano-Weierstrass Theorem, The Cauchy Criterion. **CO5** Understand Infinite Series, Absolute Convergence. Comparison test, Root test, Ratio test, Integral test and Raabe's test for Absolute convergence. **CO6**:Understand Alternating series test, Dirichlet's test and Abel's testfor Non Absolute convergence.
V	5B06 MAT	**Abstract Algebra**	**CO1:** Understand definition and elementary properties of Groups, Subgroups and Cyclic groups **CO2:** Understand Groups of Permutations, orbits, Alternating groups and theorem of Lagrange, group homomorphisms , factor Groups , Homomorphism Theorems **CO3:** Understand definition and properties of ringsand fields **CO4:** Understand Ring homomorphisms and isomorphisms**CO5**:Understand zero divisors , integral domains , characteristic of a ring and their properties
V	5B07 MAT	**Differential Equations, Laplace Transform and Fourier Series**	**CO1:** Understand Separable ODEs, Exact ODEs, Li ODEs, Bernoulli equation and methods to solve the ODEs **CO2** :Understand the theorem of Existence and Uniqueness of solutions of first and second order OI **CO3** :Understand Homogeneous Linear ODEs of Second Order and solve homogeneous linear ODEs second order withconstant coefficients and Euler-Cauchy equation **CO4:** Understand Nonhomogeneous ODEs and solv by variation of parameters **CO5:** Understand Laplace Transform and inverse Laplace Transformation **CO6 :**Understand The first and The second shifting theorems and their applications, methods to find Laplace transforms of derivatives and integrals of functions **CO7** Understand the method of differentiating and integratingLaplace transform

Semester	Course Code	Course title	Course outcome
V	5B08 MAT	Vector Calculus	**CO1:** Understand lines and planes in space, curves in space, their tangents, normal, curvature, tangential and normal curvature of acceleration **CO2:** Understand Directional derivatives and gradient vectors,tangent planes and differentials. Solve extreme value problems using Lagrange multipliers **CO3:** Understand Partial derivatives with constrained variablesand Taylor's formula for two variables **CO4:** Understand Line integrals. Solve for work, circulation and flux using line integrals **CO5:**Understand path independence conservative fields and potential functions Green's theorem and solve problems using Green's theorem **CO6**: Understand Surface area and surface integrals
V	5B09 MAT	Graph Theory	**CO1**: Understand a graph, subgraph ,different types graphs and their properties **CO2**:Understand a path, cycle, trees, bridges and the properties **CO3**: Understand cut vertices and connectivity of graphs **CO4:** Understand Eulerian graphs, Hamiltonian gra The Chinese Postman Problem and The Travelling Salesman Problem.
V	5D01MAT Open Course	Business Mathematics	**CO1**: Understand the concept of Limit and continuit methods of finding limits definition, Differentiation- rules of differentiation, Parametric function logarithi differentiation. **CO2** :Understand the Successive differentiation, Lo maximum and local minimum and solves problems **CO3**: Understand the Rules of integration, Some standard results, Consumer's surplus, Producer's surplus, Consumer's surplus **CO4** :Understand rate of interest, Continuous compounding, Compound interest, Present valve, interest and discount, Rate of discount, Equation of value

Semester	Course Code	Course title	Course outcome
VI	6B10 MAT	Linear Algebra	**CO1**: Understand the concept of Vector spaces, subspaces, linear combinations ad system of equations. **CO2 :**Understand the concept of Linear Dependence and Linear Independence, Bases and Dimension, Maximal Linearly Independent Subsets **CO3:** Understand the concept of Linear Transformations, Null Spaces, and Ranges, The Matrix Representation of a Linear Transformation. **CO4 :**Understand Rank of a matrix, Elementary transformations of a matrix, Invariance of rank through elementary transformations, Normal form, Elementary matrices. **CO5:** Understand the concept System of linear homogeneous equations Null space and nullity of matrix, Range of a matrix, Systems of linear non homogeneous equations. Cayley-Hamilton theorem.
VI	6B11 MAT	Numerical Methods and Partial Differential Equati	**CO1:**Understand Interpolation techniques: Interpolation with unevenly spaced points, Lagrange interpolation, Newton's divided differences interpolation, Finite difference operators and finite differences, Newton's interpolation formulae and Central difference interpolation. **CO2;** Understand Numerical differentiation using difference formulae **CO3**: Understand Picard's method, Solution by Taylor series method, Euler method and Range-Kutta methods. **CO4** :Understand Fourier Series: Arbitrary period, Even and Odd Functions, Half-Range Expansions and Fourier Integrals. **CO5**: Understand Partial Differential equations, Solution by Separating Variables. The use of Fourier Series in solving PDE: D'Alembert's Solution of the Wave Equation.
VI	6B12 MAT	Complex Analysis	**CO1**: Understand Analytic Function, Cauchy–Riem Equations. Laplace's Equation. **CO2** :Understand Exponential Function, Trigonome Functions, Hyperbolic Functions, Logarithmic funct and General Power of complex numbers ***CO3:***Understand line integral in the complex plane ,Cauchy's integral theorem , Cauchy's integral form and derivatives of analytic functions **CO4** Understand convergence of Sequences and Ser of complex functions, power series, functions given power series, Taylor series, Maclaurin's Series and Laurent Series **CO5:**Understand singularities and zeros of complex functions residue integration

Semester	Course Code	Course title	Course outcome
VI	6B13 MAT	Mathematical Analysis and Topology	**CO1:** Understand Riemann Integral and Riemann-integrable Functions **CO2:**Understand Sequence & series of functions: Point wise and uniform convergence – Interchange of limits – Series of Functions **CO3** Understand open sets, closed sets, convergence, completeness and Baire's theorem. CO4: Understand the concept of Metric Spaces
VI	6B14A MAT	Operations Research (Elective)	**CO1:** Understand LPP, formulate and solve using graphical method **CO2** Understand General LPP, canonical and standard forms of LPP **CO3** Understand simplex method and solve LPP,basic solution, degenerate solution, basic feasible solution, optimum basic feasible solution , fundamental properties of solution and simplex method **CO4:** Understand primal-dual pair, formulation of dual and duality theorems **CO5**: Understand LP formulation of transportation problem and its solution , Mathematical formulation of Assignment problem and Hungarian Assignment.
Complementary Courses-Mathematics for Polymer Chemistry			
Semester	**Course Code**	**Course title**	**Course outcome**
I	1C01 MAT-CH	Mathematics for Chemistry I	**CO1:** Understand Hyperbolic Functions, Calculation of the n th derivative – some standard results, determination of n th derivative of rational functions -Leibniz's theorem, Maclaurin's Theorem and Taylor's Theorem **CO2** Understand Rolle's theorem, Lagrange's mean value theorem, Meaning of the sign of derivative, Cauchy's mean value theorem, higher derivatives, Indeterminate forms, **CO3** Understand Partial Differentiation, continuity of a function of two variables, limit of a function of two variables, homogeneous functions Curvature, Radius of curvature (Cartesian Equations), Centre of Curvature, Evolutes and Involutes **CO4:** Understand Polar coordinates in two dimensional, Cylindrical and Spherical Coordinates.

Semester	Course Code	Course title	Course outcome
II	2C02MAT-CH	Mathematics for Chemistry II	**CO1:** Understand Integration of Trigonometric Functions Areas of Plane Regions, lengths of plane curves **CO2** Understand Volumes and Surfaces of Revolution using integration Multiple Integrals, Double integral, Applications of Double Integration, Triple integrals **CO3** Understand Applications of Matrix Multiplication, Linear Systems of Equations, Gauss Elimination, Row equivalent Systems, Linear Independence, Rank of a Matrix, Vector Space, Solutions of Linear Systems ,Cramer's Rule, Inverse of a Matrix: Gauss Jordan Elimination **CO4:** Understand Matrix Eigen Value Problems, Cayley-Hamilton Theorem
III	3C03 MAT-CH	Mathematics for Chemistry III	**CO1:** Understand First Order Ordinary Differential Equations Basic concepts, Separable ODEs, Exact ODEs, Integrating Factors, Linear ODEs, Bernoulli Equation **CO2** Understand Second Order Ordinary Differential Equations, Homogeneous Linear ODEs of second order, Homogeneous Linear ODEs with constant coefficients, Euler-Cauchy Equation, Wronskian, No homogeneous ODEs, Solution by variation of Parameters **CO3** Understand Laplace Transform, Inverse Transform, Linearity, s-Shifting, Transforms of Derivatives and Integrals, t- Shifting, Convolution, Integral Equations, Differentiation and integration of Transforms. **CO4:** Understand Fourier series, Functions of any period p = 2L,Half-range Expansions Partial differential Equations, Wave Equation, Solution by Separating Variables, D-Alembert's solution of the wave equation, Heat Equation, Solution by Fourier Series.
VI	4C04 MAT-CH	Mathematics for Chemistry I V	**CO1:** Understand Vector and scalar functions and Fields, Derivatives, Gradient of a scalar field; Divergence of a vector field, Curl of a Vector Field. **CO2** Understand Line Integrals, Green's Theorem in the Plane ,Surface Integrals, Triple Integrals, Divergence theorem of Gauss, Stoke's theorem **CO3** Understand Solution of Algebraic and Transcendental Equation: Bisection Method, Newton-Raphson Method ,Finite Differences, Interpolation, Divided differences and their properties, Numerical Differentiation and Integration ,Trapezoidal Rule, Simpson's 1/3- Rule **CO4:** Understand Numerical Solutions of ODE: Solution by Taylor's series, Picard's method of successive approximations, Euler's method, Modified Euler's method, Runge -Kutta method.

Semester	Course Code	Course title	Course outcome
Complementary Courses-Mathematics for Computer Science			
I	**1C01MAT-CS**	**Mathematics for Computer Science I**	**CO1:** Understand Hyperbolic Functions, Calculation of the n th derivative – some standard results, determination of n th derivative of rational functions -Leibniz's theorem, Maclaurin's Theorem and Taylor's Theorem **CO2** Understand Rolle's theorem, Lagrange's mean value theorem, Meaning of the sign of derivative, Cauchy's mean value theorem, higher derivatives, Indeterminate forms, **CO3**:Understand Partial Differentiation, continuity of a function of two variables, limit of a function of two variables, homogeneous functions Curvature, Radius of curvature (Cartesian Equations), Centre of Curvature, Evolutes & Involutes **CO4:** Understand Polar coordinates in two dimensional ,Cylindrical & Spherical Coordinates
II	2C02 MAT-CS	Mathematics for Computer Science II	**CO1:** Understand Integration of Trigonometric Functions Areas of Plane Regions, lengths of plane curves **CO2** Understand Volumes and Surfaces of Revolution using integration Multiple Integrals, Double integral, Applications of Double Integration, Triple integrals **CO3** Understand Applications of Matrix Multiplication, Linear Systems of Equations, Gauss Elimination, Row equivalent Systems, Linear Independence, Rank of a Matrix, Vector Space, Solutions of Linear Systems ,Cramer's Rule, Inverse of a Matrix: GaussJordan Elimination **CO4:** Understand Matrix Eigen Value Problems, Cayley-Hamilton Theorem
III	3C03 MAT-CS	Mathematics for Computer Science III	**CO1:** Understand First Order Ordinary Differential Equations Basic concepts, Separable ODEs, Exact ODEs, Integrating Factors, Linear ODEs, Bernoulli Equation **CO2** Understand Second Order Ordinary Differential Equations, Homogeneous Linear ODEs of second order, Homogeneous Linear ODEs with constant coefficients, Euler-Cauchy Equation, Wronskian, Nonhomogeneous ODEs, Solution by variation of Parameters **CO3** Understand Laplace Transform, Inverse Transform, Linearity, s-Shifting, Transforms of Derivatives and Integ t- Shifting, Convolution, Integral Equations, Differentiatic and integration of Transforms. **CO4:** Understand Fourier series, Functions of any period p = 2L,Half-range Expansions PDE,Wave Equation, Solution by Separating Variables, D-Alembert's solution of the wave equation, Heat Equation, Solution by Fourier Series.

Semester	Course Code	Course title	Course outcome
IV	4C04 MAT-CS	**Mathematics for Computer Science IV**	**CO1:** Understand Vector and scalar functions and Fields, Derivatives, Gradient of a scalar field;Divergence of a vector field, Curl of a Vector Field. **CO2** Understand Line Integrals, Green's Theorem in the Plane ,Surface Integrals, Triple Integrals, Divergence theorem of Gauss, Stoke's theorem **CO3** Understand Solution of Algebraic and Transcendental Equation: Bisection Method, Newto Raphson Method ,Finite Differences,Interpolation, Divided differences and their properties, Numerical Differentiation and Integration ,Trapezoidal Rule, Simpson's 1/3- Rule **CO4:** Understand Numerical Solutions ofODE: Solution by Taylor's series, Picard's method of successive approximations, Euler's method, Modifie Euler's method, Runge-Kutta method.

M.Sc MATHEMATICS	CONTENT PAGE
PROGRAMME OUTCOME (PO)	**PO1**.Inculcate critical thinking to carry out scientific investigation objectively without being biased with preconceived notions **PO2**. Equip the student with skills to analyze problems, formulate an hypothesis, evaluate and validate results, and draw reasonable conclusions **PO3**. Prepare students for pursuing research or careers in industry in mathematical sciences and allied fields **PO4.** Imbibe effective scientific and/or technical communication in both oral and writing. **PO5**. Continue to acquire relevant knowledge and skills appropriate to professional activities and demonstrate highest standards of ethical issues in mathematical sciences **PO6**. Create awareness to become an enlightened citizen with commitment to deliver one's responsibilities within the scope of bestowed rights and privileges.
PROGRAMME SPECIFIC OUTCOMES (PSO)	**PSO.1**: Understanding of the fundamental axioms in mathematics & capability of developing ideas based on them.& **PSO.2:**Inculcate mathematical reasoning **PSO.3**: Prepare & motivate students for research studies in maths & related fields **PSO.4**: Provide knowledge of a wide range of mathematical techniques & application of mathematical tools in other scientific &engineering domains. **PSO.5**. Provide advanced knowledge on topics in pure mathematics, empowering the students to pursue higher degrees at reputed academic institutions **PSO.6**: Good understanding of number theory which can be used in modern online cryptographic technologies. **PSO.7**: Nurture problem solving skills, thinking, creativity through assignments, project work. **PSO.8** : Assist students in preparing (personal guidance, books) for competitive exams e.g. NET, GATE, etc.

Semester	Course Code	Course title	Course outcome
I	**MAT1C01**	**Basic Abstract Algebra**	CO1. Identify and analyze different types of Algebraic structures to understand and use the fundamental results in algebra. CO2. Analyze and implement the concept of homomorphism and isomorphism between groups and rings for solving different types of problems. CO3. Applying the concept of group action and sylow - theorems. CO4. Understand the concept of finitely generated abelian groups, ideals and fields helps to explore the existing results.
I	**MAT1C02**	**Linear Algebra**	CO1:Make better understanding linear transformation and related concepts - isomorphism, matrix of linear transformation, linear functional and the double dual of linear transformation CO2. Gives an overview of characteristic values, annihilating polynomials, invarient subspaces, diagonalization and triangulation. CO3. Enable students to understand the concepts of elementary canonical form, the rational canonical form and Jordan form. Given then an idea about inner product spaces. CO4. Students can gain the skill like modeling of problems and matrix manipulation.
I	**MAT1C03**	**Real Analysis**	CO.1 Students achieve a good grasp of the basic concepts of real analysis. CO.2. Understand the basics of metric spaces and generalize the concepts of limits, continuous functions in metric spaces. CO.3. Apply the concepts of derivatives, Mean value theorems for vector valued functions in different fields. CO.4. Recognize the differences between bounded variation and total variation of functions. CO.5. Understand the concept rectifiable curves.
I	**MAT1C04**	**Basic Topology**	CO.1. Introduce the concepts of topological space and the basic definitions such as open sets, neighbourhoods, interior, exterior, closure and their axioms for defining topological spaces. CO.2. Understand the concepts of bases and Sub bases. Create new spaces from old ones. CO.3. Highlight the features of continuity, connectedness, homeomorphism, topological properties.
I	**MAT1C05**	**Differential Equations**	CO.1. Apply various power series methods to obtain series solution of differential equations. CO.2. Ability to handle differential equation and solve them under appropriate assumption. CO.3. Discuss various kinds of special functions in detail, their properties and relation. CO.4. Students will have working knowledge of basic application problems described by homogeneous linear system with constant coefficients. CO.5. Introduce Picard's theorem and enable them t solve approximation problems.

Semester	Course Code	Course title	Course outcome
II	**MAT2C06**	**Advanced abstract algebra**	CO1 Enable students to understand UFD ,Euclidean Domains, Gaussian Integers and Multiplicative Norms, Introduction to Extension Fields CO2.Understand the concept of Algebraic Extensions, Geometric Constructions, Finite Fields, Auto orphisms of Fields. CO3. Analyze the concept of Isomorphism Extension Theorem, Splitting Fields, Separable Extensions. Galois Theory
II	**MAT2C07**	**Measure and integration**	**CO1**: Introduce the definition and properties of lebesgue outer measure. **CO2**: Understand the concept of measurable sets and construction of non-measurable sets measurable functions of a real variable **CO3**. Enable students to understand Riemann and lebesgue integral, concept of Abstract measure spaces
II	**MAT2C08**	**Advanced Topology**	**CO1**:Enable students to review the fundamentals of topology **CO2**:Understand the concept of compactness and relation between various forms of compactness **CO3**: Recognize how points of space are separated by open sets and understand the separation axioms **CO4**: Acquire knowledge about metrizability and homology of paths
II	**MAT2C09**	**Foundations of Complex analysis**	**CO1:** Design, analyze and implement the concept of Analytic Functions, Complex Integration ,Power Series representation of Analytic Functions ,Zeroes of an analytic function , Cauchy's Theorem and Integral Formula , Goursat' s Theorem **CO2**: Analyze different type of Singularities, Classification of singularities, Residues, The Argument Principle, the Maximum Modulus Theorem, the Maximum Principle, Schwarz's Lemma . **CO3**: Understand the concept of Compactness and Convergence in the Space of Analytic functions, the Spaces of continuous functions C(G, Ω), Spaces of analytic functions, the Riemann Mapping Theorem, Weierstrass Factorization Theorem.
II	**MAT2C10**	**Partial differential equations and integral equations**	**CO1:** Solving first order partial differential equation using method of Charpits and Jacobi. Introduce the nonlinear first order pde **CO2:** Identify and solve different types of second order pde including the solution of One dimensional Wave Equation. . Laplace's Equation and discuss Problems - The Cauchy Problem, The Dirchlet Problem , Introduce integral equation. **CO3 :**Develop skills in the formulation, solution understanding and interpretation of pde Models

Semester	Course Code	Course title	Course outcome
III	**MAT3C11**	**Number theory**	**CO1**:Make a better understanding of divisibility and related algorithms **CO2:** Discuss the distribution of primes & introduce various arithmetical functions and related results **CO3:** Enable students to understand the definition and basic properties of congruences. **CO4:**Introduce the concept of quadratic residues and quadratic reciprocity law, Primitive roots Introduce the concept of coding and cryptography **CO5**: Gives an overview of algebraic number theory
III	**MAT3C12**	**Functional Analysis**	CO1: Introduce the Concept of normed linear spaces and inner product spaces, Bounded linear operators between these spaces . CO2:Make a better understanding of ortho normal sets, approximation and optimization and discuss the Projection & Riesz representation theorems CO3:Enable students to compare the differences between Banach and Hilbert Spaces CO4:Students achieve a good idea to show that certain spaces of functions are complete
III	**MAT3C13**	**Complex Function Theory**	CO1: Introduce Elliptic Functions, Simple periodic functions, Doubly periodic functions, The Riemann Zeta function and related results. CO2 : Discuss Runge's Theorem , Simple Connectedness, Mittag Lefler's Theorem, Mondromy Theorem ,Harmonic Functions CO3: Understand basic Properties of harmonic functions, Sub harmonic and super harmonic functions, entire Functions, Jensen's formula
III	**MAT3C14**	**Advanced real Analysis**	CO1: Make better understanding of Sequence and series of Functions. Uniform Convergence, Uniform Convergence and Continuity, Uniform Convergence Integration, Uniform Convergence and Differentiati Equi continuous Family of Functions, The Stone-Weierstrass Theorem, CO2: Introduce Some Special Functions and related algorithms CO3: Discuss more about Linear Transformations, Differentiation, The Inverse Function Theorem, and Implicit Function Theorem.
III	**MAT4C15**	**Operator theory**	CO1: Introduce the concept of Spectrum of a Bound Operator, Weak and Weak* Convergence CO2: Discuss about the Spaces of Bounded Linear Functionals; Reflexivity, Compact Operators on Normed Spaces, Spectrum of a Compact Operator. CO3: Understand the concept of Bounded Operator Hilbert Spaces, Adjoints, Normal, Unitary and Self Adjoint Operators, Spectrum and Numerical Range, Compact Self Adjoint Operators.

Semester	Course Code	Course title	Course outcome
IV	MAT4C16	Differential Geometry	CO1. Introduce the concept of Graphs and Levels Sets, Vector Fields, The Tangent Space, Surfaces, Vector fields on Surfaces, Orientation CO2: Give an overview of the Gauss map, Geodesics, Parallel Transport, The Weingarten Map, Curvature of Plane Curves. CO3: Understand the concept of are Length and Line Integrals, Curvature of Surfaces, Parameterized Surfaces, and Local Equivalence of Surfaces and Parameterized Surfaces.
IV	MAT4D01	Project work	CO1. Inculcate a taste for research in mathematics CO2. Develop oral and written presentation skills
IV	MAT4VO1	Viva –Voce	CO1.To evaluate the students performance apart from the Written exam CO 2.To check how far the students attain the various Course objective .
IV	MAT3E03	Calculus of Variations	CO1: Understand the concept of Elements of the Theory, Further Generalizations CO2: Discuss the General Variations of a Functional, The Canonical Form of the Euler Equations and related topics CO3: Understand the concept of Second Variation, Sufficient condition for a Weak Extremism.
IV	MAT4E02	Fourier and wavelet analysis	CO1: They are able to Construct Wavelets on Zn, the First Stage. and Construct Wavelets on Zn,the Itration Step. Introduce the concept of the Haar System, the Shannon wavelets and the Daubechies's D6 wavelets on Zn. CO2: Understand l^2 (Z), Complete Orthonormal sets in Hilbert Spaces l^2 (Z),and Fourier Series, The Fourier transforms and convolution on l^2 (Z), First Stage Wavelets on Z, The Iteration Step for Wavelets on Z. CO3: Discuss about L^2 (R) and Approximate Identities.The Fourier Transform on R.

PROGRAMME OUTCOME (PO)	**PO 1. National integrity:** a. To respect the republic of the nation via participating in programs of nation building and inculcate the values of socialism, secularism and democracy of the country. b. To nurture the attitudes of gender equality, environmental and social awareness practices and to understand as well as resist various kinds of marginalization and discriminations in the society. **PO 2. Critical Thinking:** a. Acquire and apply the basic principles of science to thoughts, actions and interpretations. b. Address self-critical thinking and also the ability to view positions, problems among diversity. **PO 3.Interdisciplinarity:** . a. Understand interdisciplinary concern of all disciplines, with regard to environmental contexts and sustainable development. b. Propagate the aspirants of aesthetic, humanistic, artistic and social sensibilities for problem solving and evolving a comprehensive perspective. **PO 4. Communication Skill :** a. Achieve effective communication skills such as speaking, writing, reading and listening clearly in both person and through electronic media. b. Learn to articulate, analysis, synthesize, and evaluate ideas and situations in a well-informed manner in both English and in one Modern Indian Language.
PROGRAMME SPECIFIC OUTCOME (PSO)	**PSO 1** Understand the basic principles, preparation methods and processing techniques of polymers. **PSO 2** To apply generic knowledge, skills and global competencies that enable students to undertake further studies in the field of polymer chemistry or a related field. **PSO 3.**Create an awareness of the impact of polymers on the environment, society, and development outside the scientific community. **PSO 4.**Inculcate the procedural knowledge about the synthesis of polymers in different areas like clothing, communication, media recording, nutrition, highways etc. **PSO 5** Acquire comprehensive idea about the safety of chemicals and their measurements for the preparation of solutions and understand a green route for polymer synthesis. **PSO 6** Develop the skills in lab work and practical activities, which lead to problem solving abilities, required for successful career in pharmaceuticals, teaching, environmental monitoring, cosmetics industry, research, food products, consumer goods industry etc.

Semester	Course Code	Course title	Course outcome
1	1B01PCH	**Theoretical And Inorganic Chemistry**	CO 1: Understand the basics of evaluation of analytical data CO 2: Acquire the knowledge of structure of atom in classical and wave mechanical approach CO3: Understand the nature of chemical bonding and apply in describing the structure of molecules CO4: Summarize nuclear disintegration, nuclear fission and fusion and distinguish natural radio activity, artificial radio activity and artificial transmutation
II	2B02PCH	**Analytical Chemistry**	CO1: Familiarize the basic principles and distinguished study of both quantitative and qualitative analysis CO2: Understand the fundamental concepts of acids, bases and non-aqueous solvents CO3: Develop the knowledge of separation techniques like solvent extraction and chromatographic separation. CO4: Describe various instrumental methods in chemistry like thermal analysis and absorption/emission spectroscopy.
III	3B04CHE	**Organic Chemistry I**	CO1: Understand the basics of organic chemistry including the nomenclature of acyclic and cyclic compounds and isomerism in carbon compounds CO2: Study the various reaction intermediates; their structure and stability and electron displacement in organic molecules. CO3: Develop the idea of different reaction mechanisms like substitution by electrophile and nucleophile in organic substrate. CO4: Understand hydrocarbons and their derivatives. **CO5:** Explain different alkyl halides, dihalides and their preparation. Understand tri-halogen derivative of methane **CO6:** Describe 1˚, 2˚ and 3˚alcohols; their preparation and methods to distinguish them. Study the mechanism of Pinacol - Pinacolone, Fries and Claisen rearrangements.

Semester	Course Code	Course title	Course outcome
1V	4B06CHE	Organic Chemistry II	**CO1:**Develop the idea of aromatic compounds. Understand aromaticity, antiaromaticity and nonaromaticity and different substitution reaction in aromatic compounds. **CO2:** Illustrate stereo isomers, property of chirality and apply cip rules to recognize the stereochemistry. CO**3:** Explain the definition, classification and the nomenclature of carbohydrates and elementary study of poly saccharides starch and cellulose **CO4:** Understand the nomenclature of 5 and 6 membered heterocyclic compounds-peparation, properties and structure of such important compounds. **CO5:** Explain the mechanism of polymerization, synthesis and application of industrially important polymers
V	5B07CHE	Inorganic Chemistry-I	**CO1:** Understand the general properties of elements and trends in periodic properties. **CO2:** Know the position of hydrogen, its isotopes; electronic configuration and physical properties of s-block elements **CO3:** Know the chemistry of p-block elements and comparative study based on electronic configuration, metallic and non-metallic character and exceptional behavior. **CO4:** Understand the position, electronic configuration and general physical and chemical properties of noble gases. **CO5:** Explain preparation, properties, structure and uses of some inorganic compounds of boron, phosphorous and silicon **CO6**: Familiarize the metal-carbon bond, properties, structure and uses of mononuclear, binuclear and trinuclear metal carbonyls-Application of 18-electron rule.
V	5B08CHE	Inorganic Chemistry –II	**CO1:** Know the difference of double salts and coordination compounds, nomenclature and EAN rule and application of complex formation in qualitative and quantitative analysis. **CO2:** Illustrate the stability of complexes and explain factors affecting crystal field splitting and CFSE. Explain their colour, spectral and magnetic properties **CO3:** Understand biological functions of metal ions. **CO4:** Familiarize new elements, occurrence,and separation of lanthanides by ion – exchange chromatography and electronic configurations, IUPAC nomenclature of lanthanides and actinides. **CO5:** Know the metals and alloys and various methods for the purification of ores. Describe electrometallurgy and hydrometallurgy-application of alloy steels. **CO6:** Understand types, cause and theories of corrosion; factors influencing corrosion & corrosion control.

Semester	Course Code	Course title	Course outcome
1	5B09CHE	Physical Chemistry – 1	**CO1:** Understand the Gas laws and properties of gases, the general gas equation and ideal and non-ideal behavior of gases. **CO2:** Familiarize the properties of liquids, surface tension and its determination, measurement of refractive index, optical activity and its measurement. **CO3:** Know the basics of Solid State, unit cells, crystal structure of important ionic compounds, electrical conductivity, conductor, semiconductors, super conductors and magnetic properties of solids. **CO4:** Explain solutions, types of solutions and methods for expressing concentration. Know colligative properties, abnormal molar mass and Van't Hoff factor.
V	**5B10CHE**	**Physical Chemistry – II**	**CO1:** Describe the fundamentals of thermodynamics and the first laws of thermodynamics **CO2:** Develop the knowledge of laws of thermodynamics; Second law and third law **CO3:** Understand basic concepts of chemical equilibrium, equilibrium constant –Vant Hoff reaction isotherm and isochors, homogeneous gaseous equilibria and heterogeneous equilibria. **CO4:** Convey the knowledge of phase equilibria, Nernst distribution law, application and limitations of the law. **CO5:** Familiarize the concept of surface chemistry, classification, preparation, structure and stability of colloids and adsorption isotherms.
VI	**6B14CHE**	**Organic Chemistry III**	**CO1:** Understand the preparation and properties of carbonyl compounds and their important name reactions. **CO2:** Understand the preparation and properties of carboxylic acids and monocarboxylic, di-carboxylic and aromatic acids. **CO3:** Know the basic concepts of nitrogen compounds, general methods of preparation and reactions of primary, secondary, tertiary and aromatic nitro-compounds. **CO4:** Describe the photochemistry and pericyclic reaction photochemical reactions of acyclic carbonyl compounds, Norrish type1 and II cleavages. **CO5:** Familiarize the preparation and synthetic application of synthetic reagents. **CO6:** Understand bioorganic chemistry and natural products such as amino acids, proteins, nucleic acids, terpenes, alkaloids and steroids. **CO7: K**now about basics of dyes and drugs, antihistamines and tranquillizers, narcotics- their actions. **CO8**: Understand the needs, goals and twelve principles of green chemistry.

Semester	Course Code	Course title	Course outcome
V1	6B15CHE	Physical Chemistry III	**CO1:**Know the basic concepts of electrical conductance**,** Ohm's law, Faraday's law, transference number, equivalent and molar conductance **CO2:** Describe ionic equilibria, acids and bases, Arrhenius, Lowry and Bronsted concepts. pH and its determination, Buffer solution, and theory of acid-base indicators. **CO3:** Understand the electro chemical cells , EMF of cells , types of electrochemical series IUPAC sign convention, the standard titrations and fuel cell. **CO4:** Describe chemical kinetics, rates of chemical reactions, rate laws and rate constant catalysis, enzymes, heterogeneous catalysis **CO5**: Know about photo chemistry, Jablonski diagrams, photochemical rate law and energy transfer in photochemical reactions.
VI	6B16CHE	Physical Methods In Chemistry	**CO1:** Learn about basics of spectroscopy, electromagnetic radiation, microwave spectroscopy, Infrared Spectroscopy**,** UV Spectroscopy, Raman Spectroscopy, NMR spectroscopy, mass spectroscopy. **CO2:** Understand the instrumental methods of chemical analysis such as paleography amperometry, atomic absorption spectroscopy and spectrophotometer **CO3:** Explain the molecular symmetry and group theory: symmetry of molecules and point groups of simple molecules. **CO4**: Introduce the concepts and applications of nano science and important methods for the characterization of nonmaterial's.

PROGRAMME OUTCOME (PO)	**PO 1.Critical Thinking:** 1.1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions. 1.2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions. 1.3 Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives. **PO 2.Effective Citizenship:** 2.1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic. 2.2. Develop and practice gender sensitive attitudes, environmental awareness, empathetic social awareness about various kinds of marginalization and the ability to understand and resist various kinds of discriminations. 2.3. Internalize certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernization of the post-colonial society. **PO 3.Effective Communication:** 3.1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language 3.2. Learn to articulate, analyze, synthesize, and evaluate ideas and situations in a well-informed manner. 3.3. Generate hypotheses and articulate assent or dissent by employing both reason and creative thinking. **PO 4.Interdisciplinarity:** 4.1. Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind. 4.2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines. 4.3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective.
PROGRAMME SPECIFIC OUTCOME (PSO)	**PSO 1:** Understand the concepts and techniques of commerce and its application in business environment **PSO 2:** Conceive the ideas on entrepreneurship and develop the skills for setting up and management of business organizations **PSO 3:** Develop the skills and abilities to become competent and competitive in the business world **PSO 4:** Develop the competency to take wise decisions at personal and professional level **PSO 5:** Appraise the impact of other disciplines on the working of business

Semester	Course Code	Course title	Course outcome
1	**1B01 COM (CORE –I)**	**MANAGEMENT CONCEPTS & PRINCIPLES**	CO1:- Understand the evolution of management thoughts, concept of management, scope and its functions. CO2:- Understand the various functions of management and developing management skills. CO3:- Familiarize with current management practices and corporate strategic planning techniques CO4:- To acquire the knowledge on organization structure, manpower planning and leadership CO5:- To acquaint students with various the techniques of controlling and co-ordination management techniques
I	**1B02COM (CORE –II)**	**FINANCIAL ACCOUNTING**	CO1:- To develop among the students a conceptual understanding of the fundamentals of financial accounting system and to equip them with basic skills for recording various types of business transactions CO2:- To equip the students with the skill of preparing accounts and financial statements of various types of business units other than corporate undertakings CO3:- To understand the system of preparing consignment accounts CO4:- To familiar with the procedure involved in the joint venure acccount and average due date calculation. CO5:- To enable students with the skills to prepare accounts and financial statements of non profit organization
I	**1C01 COM (COMPL - 1)**	**BUSINESS STATISTICS**	CO 1:- Define statistics and explain its importance, scope, applications and limitations CO2:- To familiarize the students with the basic statistical tools used to summaries and analyse quantitative information for decision making. CO3:- To calculate an appropriate measure of central tendency CO4:- To calculate an appropriate measure of dispersion CO5:- To acquaint students with the concept of index number

Semester	Course Code	Course title	Course outcome
1I	2B03 COM (CORE –III)	PRINCIPLES OF MARKETING	CO1:- To provide basic knowledge about the concepts, principles, tools and techniques of marketing CO2:- To acquire knowledge on product planning and product life cycle. CO3:- To understand the various steps involved in pricing and pricing strategies. CO4:- To gain knowledge on choice of distribution channels methods of promotion CO5:- To familiarize the students with service marketing
II	2B04 COM (CORE –IV)	HUMAN RESOURCE MANAGEMENT	CO1:- To familiarize the students with the basic principles of Human Resource Management (HRM) CO2:- Explain Human Resources Management and the activities involved in it CO3:- Acquire knowledge of manpower planning and performance appraisl. CO4:- To familiarize the students with HRD CO5:- To understand the various Human Resource problems:
II	2C02COM (COMPL- I1)	QUANTITATIVE TECHNIQUES FOR BUSINESS DECISION	CO1:- To provide exposure on calculation of measures of correlation CO2:- To provide l exposure on calculation of Regression CO3:- To acquire knowledge about time series analysis CO4:- To introduce the students about the concept of probability

Semester	Course Code	Course title	Course outcome
1II	**3A11 COM (COMMON XI)**	**DISASTER MANAGEMENT**	CO1:- To study the emerging approaches in disaster reduction & management. CO2:- Clearly understand the various environmental hazards and Disasters CO3:- To acquire knowledge about the ways of managing disaster CO4:- To familiarize the students with Institutional Frame work of disaster management
III	**3A12 COM (COMMON XII)**	**NUMERICAL SKILLS FOR BUSINESS**	CO1:- To understand basic concepts in mathematics which are applied in the managerial decision making. CO2:- To develop an understanding of numeric problems in business and social sciences, and techniques used to model such problems. CO3:- To develop mathematical skills needed to analyze numeric data used in business and social sciences.
III	**3C03 COM (COMPL - III)**	**BASICS OF RESEARCH METHODOLOGY**	CO1:- Understand the fundamental aspects of research in busines and management CO2:- Identify and define research problem CO 3:- Formulate research plan CO 4:- Understand various methods of collecting data CO 5:- Prepare research report themselves
III	**3B05COM** **(CORE –V):**	**ADVANCED ACCOUNTING**	CO1:- To help the students to acquire the conceptual knowledge of accounting for special transactions CO2:- To acquire the skill to prepare different types of branch accounts. CO3:- To transform the accounting knowledge of Self balancing and Accounting from Incomplete Records CO4:- To enable students with the skills to prepare royalty accounts C O5:- To gain knowledge on preparation of accounts in Hire purchase and Instalment system

Semester	Course Code	Course title	Course outcome
1II	3B06 COM (CORE - VI Optional A: CO-OPERATION-I)	CO-OPERATIVE PRINCIPLES	CO 1: Understand the concepts and principles of Cooperative movement CO2: Understand the origin of cooperative movement and the history of cooperatives in the world CO 3: Describe Indian cooperative movement, its features , structure and significance CO 4: Acquaint themselves with the system of cooperative education, training and its impact on the functioning of cooperative organizations
III	3C04 COM (COMPL - IV):	BUSINESS REGULATORY FRAMEWORK	CO 1: Understand the nature of contracts and the essential elements of a valid contract CO 2: Explain the difference between a valid contract and a void contract CO 3: Understand the breach of contract and remedies available for a breach of contract CO 4: Understand various kinds of special contracts like indemnity, guarantee, bailment and agency contract
IV	4A13 COM (COMMON XII):	ENTREPRENEURSHIP	CO1:- To understand the concept, functions and growth of entrepreneurship and identify the different types of entrepreneurs CO2:- To familiarize with project identification and feasibility analysis CO3:- To learn to design and appraise the project and factors influencing the plant location. CO4:- describe the importance of entrepreneurs in the economic development of a nation CO5:- To strengthen their skill and quality as an entrepreneur
IV	4A14 COM (COMMON - XIV):	ENVIRONMENT STUDIES	CO1: Understand the components of environment and need for the protection of environment CO2: To give the students an understanding of natural resources and ecosystems CO3: Understand the effect of pollution on environment and the ways of protecting the environment CO4: Explain the social issues relating to environmental pollution
IV	4B07COM (CORE –VII):	INCOME TAX LAW AND PRACTICE-1	CO 1 To collect the basic concepts and definitions of Income Tax Act 1961 CO 2 To Determine the residence and incidence of Tax CO 3 Understand the incomes exempt from tax of an individual CO 4 Compute income under different heads of income

Semester	Course Code	Course title	Course outcome
1V	**4B08 COM (CORE - VIII)**	**INFORMATICS SKILLS**	CO 1: Explain the Fundamentals of Computers the use of computers in day to day application CO 2: Up to date and expand the basic informatics skills necessary in the emerging knowledge society CO 3: Effectively utilize the digital knowledge resources for their studies CO 4: Perform accounting by using the appropriate accounting packages
IV	**4B09 COM (CORE -IX Optional A CO-OPERATION-II)**	**MANAGEMNT OF CO-OPERATIVES**	CO 1: Understand kinds of cooperatives in India CO2: Understand the management and administration of different types of cooperatives CO 3: Identify the role and significance of cooperative organization in Kerala's Economy CO 4: Describe various kinds of cooperative institutions
IV	**4C05 COM (COMPL - V):**	**CORPORATE LAW &BUSINESS REGULATION**	CO 1: Understand the provisions of Companies Act 2013 CO2: Describe the procedure for the formation, registration and winding up of the company CO 3: Explain various kinds of companies and the authorities of companies in India CO 4:Understand the management and administration of Companies
V	**5B10 COM (CORE X)**	**COST ACCOUNTING**	CO 1: Explain the nature, scope, objectives and limitations of costing CO 2: Identify the elements of cost and describe the methods of their ascertainment and control CO 3: To able to prepare cost sheet CO 4: Explain the various methods of costing and their suitability for different industries CO 5: Ascertain the cost of production of products and jobs
V	**5B11 COM (CORE - XI):**	**CORPORATE ACCOUNTING**	CO 1: To learn the knowledge and techniques of preparing the financial statements of corporate entities CO 2: To give a detailed idea about acquisition and Profits prior to incorporation of companies CO 3: Imbibe the techniques of recording transactions and preparation of final accounts in respect of amalgamation and reconstruction CO 4: To study the procedure followed for the liquidation of companies CO 5: To compute the final accounts for a corporate group like banking companies

Semester	Course Code	Course title	Course outcome
V	**5B12 COM (CORE- XII):**	**AUDITING**	CO 1: Understand the term auditing, its concept, principles, procedures and requirements needed for Auditing in accordance with current legal requirements and professional standards. CO 2: Familiarize with the various aspects of audit consisting of internal check, vouching, verification and valuation of assets and liabilities CO 3: Understand the appointment, rights, duties and the liabilities of an auditor. CO 4: Explain the concept of Corporate Governance and its aspects
V	**5B13 COM (CORE - XIII):**	**INCOME TAX LAW AND PRACTICE- II**	CO 1: To know about theclubbing and set-off and the aggregation of income and deduction u/s 80C to 80U CO 2: Compute total income and determine the tax liability of an individual and partnership firm, company and cooperative society CO 3: Describe the income tax authorities, their powers and assessment procedure CO 4: Explain the procedure regarding deduction of tax at source, advance tax, refund, penalties and prosecution
V	**5B14 COM (CORE -XIV Optional A : CO-OPERATION-III)**	**CO-OPERATIVE LAWS**	CO 1: Understand the historical perspective of cooperative legislation in India and Kerala. CO2: Understand the provisions of Kerala cooperative Societies Act 1969 CO 3: Describe the procedure for the formation and registration of a cooperative organisation CO 4: Describe the provisions of management and winding up of cooperative societies
V	**5D01COM** **(Open Course)**	**BASIC ACCOUNTING**	CO 1: Describe the basic accounting concepts CO 2: Record the business transactions in the proper books of accounts CO 3: Prepare financial statements of a sole trading concern

Semester	Course Code	Course title	Course outcome
VI	**6B15 COM (CORE XV)**	**MANAGEMENT ACCOUNTING**	CO 1. Understand the fundamental concepts of management accounting. CO 2. Acquire analytical skills associated with the interpretation of accounting reports CO 3. Apply management accounting concepts in real life situations. CO 4. Develop judgmental skills associated with the use of accounting information in decision making. CO 5. Understand the use of marginal costing and budgetary control to plan and control cost and profit.
VI	**6B17 COM (CORE - XVII):**	**MODERN BANKING**	CO 1: To provide to the students an understanding of the fundamentals of banking AND modern banking practices CO 2: Explain banking and describe the different types of banks and the functions of commercial bank CO 3: Narrate the role of RBI in the credit control, promotion and regulation of monitory system CO 4: Describe the relations ship between banker and customer and the procedure for opening and operating the account CO 5 : Understand the modern trends and technology used in banking
VI	**6B18 COM (CORE - XVIII):**	**FINANCIAL MARKETS & SERVICES**	CO 1: Understand the financial system and its constituents CO2: Familiarize with the activities taking place in the financial markets CO 3: Appraise the various financial services available in the financial markets CO 4: Acquire knowledge about financial derivatives and their features After studying the course, student should be able to;
VI	**6B19 - COM (CORE -XIX- Optional A :**	**CO-OPERATION-IV) CO-OPERATIVE ACCOUNTING AND LEGISLATIONS**	CO 1: Prepare and present accounting aspects of cooperative organizations CO 2: Understand the procedure of cooperative auditing CO 3: Understand the provisions regarding the settlement of disputes in cooperatives CO 4: Acquaint knowledge on the impact of various other legislations on cooperatives
VI	**6B20 COM (CORE XX)**	**PROJECT**	CO 1: Understand the method of carrying out a project CO2: Undertake project work independently

PROGRAMME OUTCOME (PO)	**PO 1.Critical Thinking:** 1.1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions. 1.2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions. 1.3 Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives. **PO 2.Effective Citizenship:** 2.1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic. 2.2. Develop and practice gender sensitive attitudes, environmental awareness, empathetic social awareness about various kinds of marginalisation and the ability to understand and resist various kinds of discriminations. 2.3. Internalize certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernization of the post-colonial society. **PO 3.Effective Communication:** 3.1. Developing effective communication skills and ability to work in teams by strengthening group dynamics 3.2. Learn to articulate, analyze, synthesize, and evaluate ideas and situations in a well-informed manner. 3.3. Generate hypotheses and articulate assent or dissent by employing both reason and creative thinking. **PO 4.Interdisciplinarity:** 4.1. Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind. 4.2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines. 4.3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective.
PROGRAMME SPECIFIC OUTCOMES (PSO)	PSO1- Inculcating managerial skills and theoretical knowledge for managing business units with special focus on functional areas of business and management. PSO2- Imparting advanced accounting knowledge and skills and provide awareness regarding latest developments in the field of accounting. PSO3- Enabling learners to acquire advanced theoretical knowledge on research methods and techniques and also developing capabilities in the application of research in solving business related problems PSO4- Acquisition of expertise in specialized fields like finance, taxation, marketing, management and information technology PSO5- Development of quantitative aptitude and analytical skills of the learner. PSO6- Facilitating learner to pursue career in professional areas of commerce and management such as taxation, financial services, consultancy etc

Semester	Course Code	Course title	Course outcome
I	COM1C01	BUSINESS ENVIRONMENT AND POLICY	CO1. To give the students an exposure to environmental dynamics of contemporary business. CO2. To develop the skill of decision making by analyzing the business environment and opportunities. CO3. Detailed knowledge about the Significance and constituents of Economic environment CO4. Understanding about Critical elements of Regulatory Environment and Socio Cultural Environment CO5. Familiarization with globalization and Global Institutional Framework for Business
I	COM1C02-QUANTITATIVE	TECHNIQUES AND OPERATION RESEARCH	CO1. This course intends to give understanding about the applications of quantitative techniques CO2. To equip the students to apply operation research techniques for decision making. CO3. After learning this course, the student should be in a position to identify appropriate parametric and non parametric test for testing the hypotheses CO4. Ability to develop Linear Programming Models for business problems and solve the same. CO5. Understand and apply network analysis techniques for project implementation
I	COM1C03	MANAGEMENT INFORMATION SYSTEM	CO1. This course intends to give understanding about the concept of Management Information System and its application in managerial decision making CO2.Add the knowledge base of the leaner regarding the process of development and maintenance of information system in an organization. CO3. Imparting deep understanding about the Structure of Management Information System CO4. To understand the conceptual framework of system and system analysis and Design CO5. Strong understanding about the Data Communication and Networking

Semester	Course Code	Course title	Course outcome
I	COM1C04	ORGANISATIONAL BEHAVIOUR	CO1. To understand the conceptual framework of management and organizational behaviour and their applicability CO2. A very good understanding about individual behavior, personality and motivation CO3. Imparting deep understanding about group behavior and leadership related to organizational behavior CO4. Add the knowledge base of the leaner regarding change management and deal with conflict. CO5. Impart knowledge about the role of organizational culture on organizational behavior
I	COM1C05	ACCOUNTING FOR BUSINESS DECISIONS	CO1. To acquaint the students with the tools and techniques for business decisions. CO2. Learn the theoretical foundations of financial management and financial management decisions. CO3. Imparting deep knowledge about the New Trends in Budgeting CO4. Evaluate the decisions regarding Long Term Investment CO5. Evaluate the Relationship between risk and returns and capital budgeting CO6. Understand the concepts Cost of Capital and Methods of computing cost of capital
II	COM2C06	STRATEGIC MANAGEMENT	CO1. Strong understanding about the theoretical foundations of strategic management. CO2. Clear understanding about various models of environmental and internal analysis. CO3. Development of an idea about the strategy formulation process at the corporate level. CO4. Familiarization with various tools strategic planning and evaluation. CO5. Understanding about the modes of implementation and control of strategies. CO6. To develop among the students the skill of managing organizations in the new age.
II	COM2C07	RESEARCH METHODOLOGY & COMPUTER APPLICATION	CO1. To make the students understand the steps in the process of Social Research. CO2. To equip the students to apply statistical tools for hypothesis test and decision making. CO3. After completing this course, the learner should be able to formulate a research design CO4. After studying the theoretical aspects of sampling design, the learner should be able to draw a sampling design. CO5. To equip the students to use computer in research CO6. Understand the technique of research reporting.

Semester	Course Code	Course title	Course outcome
II	**COM2C08**	**COSTING FOR MANAGEMENT DECISIONS**	CO1. To understand the concept and importance of cost accounting. CO2. To understand the application of cost accounting tools for generating information for managerial Decision making. CO3. Apply the marginal costing principles and cost volume profit analysis in decision making situations of businesses. CO4. Understand the concepts of Differential Cost Analysis and Applications in business CO5. Understand the concepts of standard costing, and the process of cost control through it. CO6. Understand the concepts of Value Analysis and Cost Reduction
II	**COM2C09**	**ADVANCED BUSINESS ACCOUNTING**	CO1. To understand new accounting concepts and accounting standards CO2. After learning this course, the student should be in a position to Value the Shares CO3. Basic understanding about the preparation of accounts of some special type of Businesses like Voyage, Farming and Investment CO4. Familiarizing the learner with the accounting for Price level changes CO5. Familiarize with Human Resources Accounting CO6. To equip the students with knowledge about Government Accounting
II	**COM2C10**	**FINANCIAL MANAGEMENT**	CO1. Understand the conceptual framework of Financial Management CO2. To equip the students with knowledge about the Operating and Financial Leverage CO3. To equip the students with knowledge about the Dividend and Liquidity areas of financial decision making in business organizations. CO4. Strong understanding about the Capital structure and theories of capital structure CO5. To equip the students with knowledge about the Management of Working Capital

Semester	Course Code	Course title	Course outcome
III	COM3C11	MARKETING MANAGEMENT	CO1. To acquaint the students with the marketing principles and practice. CO2. To understand the process of modern marketing CO3. The learner should get a clear understanding about the market segmentation process and its applications in marketing strategies CO4. Develop an idea about consumer behavior and its impact CO5.The learner should get a clear understanding about the marketing mix such as Product decisions, Pricing decisionsand Promotion and Distribution decisions CO6. Develop sound ideas regarding rural
III	COM3C12	CORPORATE ACCOUNTING	CO1. To familiarize the student knowledge about the Corporate Accounting System CO2. Develop an awareness on the accounting procedure of Amalgamation, Absorption and Reconstruction of Companies CO3. Familiarizing the learner with the accounting procedures of liquidation of companies and preparation of various statements required as per the Companies Act CO4. The learner should be able to prepare Double Account System CO5. Basic understanding about the preparation of accounts Holding Company and Subsidiaries CO6. The learner should be able to prepare the Final Accounts of Insurance Companies
III	COM3C13	INCOME TAX LAW AND PRACTICE	CO1. To provide the students an in-depth knowledge of the basic concepts of Income Tax CO2. Able to compute the income from salary and house property CO3. Determine taxable profit of a business or profession CO4. Able to compute capital gain and income from other sources CO5. Able to calculate Gross Total Income of an individual CO6. Learner shall be able to determine eligible deductions and compute Taxable Income and tax liability of an individual assesse marketing

Semester	Course Code	Course title	Course outcome
III	**COM3C14**	**DERIVATIVES AND RISK MANAGEMENT**	CO1. Knowledge about the derivative market in India, its evolution, types, players, risks involved and basic quantitative foundations CO2. Analyze the implications of Risk in the perception of individuals and Institutions and measurement of risks CO3. Understand and explain the concept of forward market and its function , CO4. Analyze the operation and pricing of various types of futures CO5. Understand the concepts and methodology of option trading and apply the models of pricing the option contracts CO6. Develop an idea of exchanges through swaps
III	**COM3C15**	**HUMAN RESOURCE MANAGEMENT**	CO1. To familiarize the students with the human resource management processes. CO2. Acquaintance with basic concepts of HRM and performance appraisal. CO3. To sensitize them to the training process and techniques CO4. To provide them with appropriate knowledge and skills required for selecting, developing and managing human resources. CO5. Understanding about variousaspects of Grievance handling CO6. Understanding about HR outsourcing HR accounting and HR audit
IV	**COM4E01**	**SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT**	CO1. Able to understand the concepts of investments, different types of investments, views of investment and process of investment and apply the theoretical knowledge in investment information for selecting the securities. CO2. Understanding the types of risk in security market and applying various tools for the valuation of bonds as well as economic indicators to predict the market. CO3. Understand the tools of technical analysis, analyse the patterns and trends in the market by using various tools and enable to take investment decisions after understanding market efficiency level also. CO4. Applying Modern portfolio theories and construct optimum portfolios. CO5. Revising constructed portfolios as per risk and return association by using different strategies. CO6. To help the students to equip the

Semester	Course Code	Course title	Course outcome
IV	COM4E02	INTERNATIONAL FINANCIAL MANAGEMENT	CO1. To introduce the basic concepts and tools of International Financial Management. CO2. Familiarization with globalization, internationalization of business and the international business environment. CO3. Understanding about theories of international trade, trade barriers and trade blocks. CO4. Imparting idea about various economic institutions related to international trade. CO5. Achieve high level knowledge about various aspects of international monetary system. CO6. To provide them appropriate knowledge about foreign investment and financing decisions.
IV	COM4E03	FINANCIAL MARKETS AND SERVICES	CO1. To understand the structure, organization and working of financial markets and institution in India. CO2. To understand the various financial services available. CO3. Knowledge about the derivative CO4. Knowledge about the Development Banks in India CO5. Imparting idea about Non-Banking Financial Institutions CO6. To provide them appropriate knowledge about the concept factoring and factoring services in India
IV	COM4E04	CORPORATE TAX MANAGEMENT AND MANAGEMENT	CO1. To acquire the students with the method of computing total income and tax liability of Association of Persons, co operative societies and Charitable trusts CO2. Carry out assessment of companies and determine their tax liability CO3. Understanding about the assessment procedures, TDS and advance payment of tax and application in various situations CO4. To understand the concept of tax planning and management CO5. To familiarize with Tax planning and managerial decisions CO6. To familiarize with Tax planning and business restructuring

BBA –BUSINESS ADMINISTRATION

CONTENT PAGE

PROGRAMME OUTCOME (PO)	**PO 1:**To equip the students with requisite knowledge, skills & right attitude necessary to provide effective leadership in a global environment. **PO 2:** To develop competent management professionals with strong ethical values, capable of assuming a pivotal role in various sectors of the Indian Economy & Society, aligned with the national priorities. **PO 3:** To develop proactive thinking so as to perform effectively in the dynamic socio-economic and business ecosystem. **PO 4:.** To harness entrepreneurial approach and skill sets.
PROGRAMME SPECIFIC OUTCOMES (PSO)	**PSO 1:** An ability to apply knowledge, skills and right attitude necessary to provide effective leadership in a global environment. **PSO 2**.: An ability to develop competent management professionals with strong ethical values, capable of assuming a pivotal role in various sectors of the Indian Economy & Society, aligned with the national priorities. **PSO 3:** An ability to develop proactive thinking so as to perform effectively in the dynamic socio-economic and business ecosystem. **PSO 4:** An ability to communicate effectively.

Semester	Course Code	Course title	Course outcome
I	**1B01 BBA**	**Principles & Practice of Management**	CO1. To understand the principles and practices of General Management. CO2. To know the process of business management and its functions and CO3. To familiarize the students with current management practices.
I	**1C01 BBA**	**Business Statistics**	CO 1:To familiarize the students with the basic Statistical tools used to Summaries and analyze quantitative information for decision making.
I	**1C01 BBA**	**Business Economics**	CO1. To expose students to basic micro economic concepts. CO2. To apply economic analysis in the formulation of business policies. CO3. To use economic reasoning to problems of business.
II	**2B02 BBA**	**Business Environment**	CO1:To give the students an exposure to the dynamics of business environment and enable them to analyze business priorities in the changing environmental conditions.
II	**2B03 BBA**	**Business Communication**	CO 1. To understand the concept, process and importance of communication. CO 2. To gain knowledge of media of communication. CO 3. To develop skills of effective communication-both written and oral. CO 4. To help students to acquaint with application of communication skills in the business world

Semester	Course Code	Course title	Course outcome
I	2C03 BBA	**Quantitative Techniques for Business Decisions**	CO 1To familiarize the student with the use of quantitative techniques in managerial decision making, Also the subject aims at developing analytical thinking and logical reasoning for effective decision making.
III	3A11/BBA	**IT in Business**	CO1. To acquaint with the Information technology infrastructure CO2. To understand the concept and application of management information system CO3. To understand the scope and key issues involved in managing electronic commerce initiatives CO4. To enable the optimum utilization of internet
III	3A12/BBA	**Numerical Skills**	CO1. To provide a sound working base in numerical methods CO2. To increase the student's ability to apply proper mathematical tools to specific business situation CO3. To exposes the students to the study of numerical skills as powerful tool in scientific computing
III	3B04BBA	**Financial Accounting**	CO1The objective of this course is to provide knowledge about Accounting Principles and their application in different business situations.
III	3B05BBA	**Operations Management**	CO 1:The objective is to get the students acquainted with the design aspects of operations and materials management and to develop relevant skill in managing the same.
III	3B06BBA	**Managerial skill Development Course(MSDC)**	CO1. To enable the students to understand various budget proposals and its impact on the business sector CO2. To understand the economic scenario of the nation
III	3C04 BBA	**Legal Aspects of Business**	CO1 The purpose of this course is to acquaint students with various laws, forces and regulatory measures governing business operations in India
III	4A13/BBA	**Entrepreneurship Development& Project Management**	CO1 This course is intended to acquaint the students with the basic theories of Entrepreneurship and Project management and to motivate them to take up Entrepreneurial Activities.

Semester	Course Code	Course title	Course outcome
IV	**4A14/BBA**	**Business Ethics and CSR**	CO 1 To give an overview of the ethical aspects of Business and Corporate Social Responsibility
IV	**4B07 BBA**	**Marketing Management**	CO 1To acquaint the students with the Marketing principles and practices, and, to understand the process of Marketing in a business firm
IV	**4B08 BBA**	**Corporate Accounting**	CO1:The objective of this course is to help the students to acquire conceptual knowledge of the fundamentals of the corporate accounting and the techniques of preparing the financial statements.
IV	**4B09 BBA**	**Financial Management**	CO1:To familiarize the students with the fundamental principles of financial management and to equip them with the tools of effectively managing the finance of an enterprise.
IV	**4C05 BBA**	**Business Research Methods**	CO1 To enable students for acquiring basic knowledge in business Research methods and to develop basic skills in them to conduct Survey researches and case studies.
V	**5B11 BBA**	**Cost Accounting**	CO1: To acquaint students with methods and techniques of cost and management accounting at an advanced field for managerial decision making
V	**5B12 BBA**	**Human Resource Management**	CO1:To give a conceptual understanding of human resource practices in organizations.

Semester	Course Code	Course title	Course outcome
V	5B13 BBA	Banking Theory Law & Practice	CO1: To give the students an exposure to the dynamics of banking business environment and enable them to analyze business priorities in the changing banking industry
V	5B14 BBA	Organizational Behavior	CO1: To familiarize the students with the basic concepts of the organizational behavior and to enhance their understanding of the interaction between the individuals and the organizations.
V	5B15 BBA	Retail management	CO 1:Understand effective methods and strategies required for retail management. Understand how to utilize resources and techniques used in retail management.
VI	6B16 BBA	Strategic Management	CO 1:The course intends to provide a theoretical frame work of strategic management and to develop an understanding about the strategic processes and their impact on a firm
VI	6B17 BBA	Capital Market& Investment Management	CO 1:To give an overview of the conceptual aspects of Capital Market and Investment Management
VI	6B18 BBA	International business	CO 1:To enlighten the students on International Business Environment, which includes international Financial management, International Marketing and international Currency and to study the impact of globalization on Indian Industry.
VI	6B19 BBA	Event Management	CO 1:To enable the students to understand the essentials of planning an event CO2:. To study the concept and significance of event management CO3:. To expose students to Practical aspects of organizing events of various forms.
VI	6B20 BBA	Management Accounting	CO 1To provide the students an understanding about the managerial use of data, for planning, control and decision making.
VI	6B21 BBA	Placement Training & Project Report	CO 1:To Practically understand Research Process. CO 2:To gain experience and confidence in carrying out a research CO 3:To acquire the quality to collect data, analyze and interpret. CO4: To gain experience in writing research reports.

STATISTICS

CONTENT PAGE

(Complimentary for Mathematics and computer Science)

Semester	Course Code	Course title	Course outcome
I	1C01 STA	BASIC STATISTICS	CO1: understand the different types of data. CO2: compute various measures of central tendency, measures of variation. CO3: analyze the relationship between two variables. CO4: acquire knowledge in time series data and compute various index numbers
II	2C02 STA	PROBABILITY THEORY AND RANDOM VARIABLES	CO 1: evaluate the probability of events. CO 2: understand the concept of random variables with examples in real life. CO3: calculate the probability distribution of discrete and continuous random variables. CO 4: understand the change of variable technique.
III	3C03 STA	PROBABILITY DISTRIBUTIONS	CO1: compute mathematical expectation of a random variable. CO2: familiarize with different discrete probability distribution associated with real life situations. CO3: understand the characteristics of different continuous distributions. CO4: identify the appropriate probability model that can be used.
IV	4C04 STA	STATISTICAL INFERENCE SEMESTER	CO 1: understand the uses of Chebyshev's Inequality and Central Limit Theorem. CO 2: apply various method of estimation CO 3: understand the concept of testing statistical hypotheses and its importance in real life situation CO 4: apply ANOVA

ORIENTAL LANGUAGE
URDU

CONTENT PAGE

Semester	Course Code	Course title	Course outcome
I	ADDITIONAL COMMON COURSE 1	URDU PROSE (For BA/B Sc-Conventional)	CO1: Ability to listen, understand read and write Urdu. CO2: Awareness of the major literary trends in Urdu Literature. CO3: Analyse the humanitarian and social aspects in Urdu literature. CO4: Try to write letters in Urdu.
I	ADDITIONAL COMMON COURSE II	URDU POETRY-I (For BA/BSc Conventional)	CO1: Listen, understand and read Urdu poems. CO2: Recite Urdu Poems with correct Pronunciation. CO3: Aware the poetical trends and Urdu culture. CO4:Understand the feelings of humanity and keep human values like Universal Brotherhood, Patriotism, Religious tolerance and nonviolence.

Semester	Course Code	Course title	Course outcome
II	ADDITIONAL COMMON COURSE III	DRAMA AND FICTION (BA/BSc)	CO1:Ability in listening, speaking and reading Urdu both at the theoretical and practical levels. CO2: Develop basic communication skill in Urdu. CO3: Aware famous short story writers and play writers in Urdu. CO4: Understand the social & moral values in Urdu stories and dramas
II	ADDITIONAL COMMON COURSE IV	URDU POETRY-II (BA/BSc)	CO1: Identify a variety of forms and genres of Urdu poetry like Ghazal, Qaseeda, Masnavi, Marsiya,Rubayi and filmi Geeth. CO2:Develop the perceptive power. CO3:Understand the poetic perception of Urdu Ghazal. CO4: Present Ghazal and Geeth with correct pronunciation
III	ADDITIONAL COMMON COURSE V	URDU NASAR (BCom/BBA/ BBARTM/BBATTM/ BBA AH/BTTM)	CO1: Ability to listen, understand read and write Urdu. CO2: Awareness of major literary trends in Urdu literature. CO3:Analyse the humanitarian and social aspects in Urdu literature CO4:Acquire ability to evaluate Urdu prose pieces.

Semester	Course Code	Course title	Course outcome
III	**ADDITIONAL COMMON COURSE VI**	**Urdu Shayari (BCom/BBA/ BBARTM/BBATTM/ BBA AH/BTTM)**	CO1: Understand different poetic genres of Urdu. CO2: Acquire appreciative skills in assessing and interpreting poems. CO3: Evaluate the aesthetic values of Urdu poetry. CO4: To gloat over the aesthetic elegance and nicety of Urdu poems.
IV	**ADDITIONAL COMMON COURSE V1I**	**Modern Urdu Prose (BCA/BSW/BSc (LRP)**	CO1:To enable the students to listen understand read and write Urdu. CO2: Acquire an awareness of the major Literary trends in Urdu literature. CO3: Analyse the humanitarian and social aspects in Urdu literature. CO4: Acquire the ability to write letters in Urdu
IV	**ADDITIONAL COMMON COURSE VIII**	**URDU POETRY {BCA/BSW//BSc (LRP)}**	CO1:Listen, Understand and read Urdu poems. CO2: Recite Urdu poems with correct pronunciation. CO3: Understand the human sentiments and uphold human values like fraternity Tolerance and patriotic zest. CO4: Understand the poetical trends and Urdu cultural heritage.