

**DEPARTMENT OF TAMIL**

courses	outcome
Ikkala Ilakkiyam(Semester1)	<ul style="list-style-type: none"> <li>• Knowing the basic information about literary genres.</li> <li>• Knowing the expression of poets from time to time.</li> <li>• Knowing the information about the life of the people realizing the need of preface reading.</li> <li>• To know about literary techniques</li> </ul>
Ilakkanam 1 Tholkappiyam Ezhuthu	<ul style="list-style-type: none"> <li>• To know the grammars for the basic characters of the language.</li> <li>• To know the writing principles of Tolkappiyam, the ancient grammar book of Tamil.</li> <li>• Introducing the basics of error free writing.</li> <li>• To make aware of the changes that have taken place in the grammar texts over time.</li> <li>• Know the difference between usage words and grammatical words.</li> </ul>
Ikkaala Ilakkiyam Punaikatheyum Urainadaium	<ul style="list-style-type: none"> <li>• Knowing the development stages of fiction.</li> <li>• Creating a continuous reading experience by introducing primary literary to contemporary.</li> <li>• To know the manner in which emotional literature is also subjected to scrutiny.</li> <li>• Shooting realistic situations featuring natural elements.</li> </ul>
Ara Ilakkiyam (Elective)	<ul style="list-style-type: none"> <li>• Emphasizing the importance of morality.</li> <li>• Inculcation of social morals.</li> <li>• Explaining concepts in a simple way</li> <li>• Realizing the relationship between morality and life.</li> <li>• Knowing the Moral thoughts of religions</li> </ul>
Mozhi Varalaru (Second Semester)	<ul style="list-style-type: none"> <li>• Knowing the difference between spoken and written language.</li> </ul>

	<ul style="list-style-type: none"> <li>• Knowing the characteristics of languages.</li> <li>• To know the ancient characteristics of Tamil language.</li> <li>• To plan the development of modern Tamil language.</li> </ul>
Ilakkanam Ii Tholkappiyam Chol Ii	<ul style="list-style-type: none"> <li>• To know Tamil phrase structure</li> <li>• To know the types of Tamil words.</li> <li>• To know the characteristics of words in the development of Tamil language.</li> <li>• To learn the differences of words found in Tamil grammar book.</li> <li>• To know the stages of development to Tamil words</li> </ul>
Bhakthi Ilakkiyam	<ul style="list-style-type: none"> <li>• Becoming interested in spirituality.</li> <li>• Establishing religious harmony</li> <li>• Attaining mental stability</li> <li>• Believing in spirituality</li> <li>• Knowing the way to live a godly, steadfast and sustainable life.</li> </ul>
Sittilakkiyam	<ul style="list-style-type: none"> <li>• To know the nature of calligraphy.</li> <li>• To know the culture of the people through calligraphy.</li> <li>• To know the social environment of the era of calligraphy.</li> <li>• To know the many religious ideas expressed by calligraphy</li> <li>• To know human psychological characteristics through calligraphy.</li> </ul>
Tamil (Elective) Agaraathiyal	<ul style="list-style-type: none"> <li>• To acquire basic knowledge about the dictionary</li> <li>• Knowing the types of Tamil dictionaries.</li> <li>• Finding new Tamil words</li> <li>• Knowing the difference and meaning of words.</li> <li>• Development of Local Tamil Vocabulary.</li> </ul>
Inaya Tamil (Elective)	<ul style="list-style-type: none"> <li>• Creating Tamil websites</li> <li>• Typing Tamil on computer</li> <li>• Discovering Tamil websites</li> <li>• Expressing internet creativity</li> </ul>

	<ul style="list-style-type: none"> <li>• Learning how to handle online files.</li> </ul>
Kappiya Ilakkanam(Semesteriii)	<ul style="list-style-type: none"> <li>• Knowing kappiya Grammar, origin and development of Tamil kappiyams and changes in kappiya format.</li> <li>• Knowing the intricacies of Silapathikaram, Manimekalai and Sivakasintamani.</li> <li>• Learning the Kappiya Nayas of Sulamani, Udayanakumara Kavyam and Nagkumar Kavyam.</li> <li>• To know the meaning of religious scriptures such as periyapurana, Kandapurana, Kambaramayanam, Thembhavani, Seerapuranam.</li> <li>• To know the innovations of Kannagi partachi Kappiya and the excellence of the Tamil.</li> </ul>
Ilakkanam Iii Tholkappiyam Porul	<ul style="list-style-type: none"> <li>• Anthropology in Archaeology learning fields grammer.</li> <li>• Knowing the pedagogical conventions and sconomic skills in Archeology</li> <li>• Learning the principles of war in archeology.</li> <li>• Comparison of archeology. To know the changes and developmental stages in the life of Tamils.</li> </ul>
Ureiyasiriyargalum Ureimarapum	<ul style="list-style-type: none"> <li>• Knowing about the speakers, the origin and development of the text.</li> <li>• Learning about the grammatical speakers and the textual tradition.</li> <li>• Knowing about the literary speakers and the textual tradition.</li> <li>• Learning about the Bible writers and the textual tradition.</li> </ul>

	<ul style="list-style-type: none"> <li>• Learn about nineteenth and twentieth century writers and textual traditions.</li> </ul>
Aaraichi Nerimureigal	<ul style="list-style-type: none"> <li>• Knowing the research method and study plan.</li> <li>• Formulating hypothesis, Finding observation, Questionnaire, interview.</li> <li>• To know about the origin, development, library use of Tamil studies.</li> <li>• Learning how to write a thesis.</li> <li>• Determining the design of the study.</li> </ul>
Tamililakkiya Maanidaviyal (Elective)	<ul style="list-style-type: none"> <li>• Knowing the need of anthropology and realizing its evolutions.</li> <li>• Knowing the importance of communication to human life and culture.</li> <li>• Literary Ethnography, Discovering the theory of Metaphysics.</li> <li>• Knowledge of ethnographic and ethnographic poetics.</li> <li>• Association Literature – understanding food production and exchange relationships.</li> </ul>
Oppilakkiyamum Mozhipeyarpum (Elective)	<ul style="list-style-type: none"> <li>• Knowing the need for analoger.</li> <li>• Learning French theory, American theory</li> <li>• To know about new dimension in comparative literature.</li> <li>• To find out about the nature and tradition of translation, qualifications and duties of the translator.</li> <li>• Knowledge of translation principles, translation strategies, translation problems.</li> </ul>
Pandai Ilakkiyam(Fourth Semester)	<ul style="list-style-type: none"> <li>• To know palandamizhar manpai by knowing the inner principles of Tamil</li> </ul>

	<ul style="list-style-type: none"> <li>• To know the weaving, kurinji and mulking costumes and lifestyle of palanthamizhar and the features of the landscape.</li> <li>• To know the life elements of the people of the hill country.</li> <li>• Archaic Muruga worship, Historical Accounts of the Chera kings, Pride of Pandya lineage.</li> <li>• Sangam literature, Octopus, Two texts in Tens, Full Round Sangam Panuval's Dimensional characteristics, Text structure.</li> </ul>
Ilakkanam Tholkappiyam Porul	<ul style="list-style-type: none"> <li>• They learn about philosophy and concepts that are an expression of human feelings.</li> <li>• They get to know the compositional system and genetic environment of palandamizhar.</li> <li>• From the time of Tholkappiya the later yapu rules are known to undergo changes from time to time.</li> <li>• Know he peculiarities of the textual tradition of Tamil Cheyul tradition</li> <li>• They know the multifaceted nature of Tolkappiyam.</li> </ul>
Ilakkiya Tirunaaiviyal	<ul style="list-style-type: none"> <li>• Knowing the fundamentals, uses, discriminations of literature and knowing the relationship between life and literature.</li> <li>• To know the principle so any literature, to understand and express the literary genre and history</li> <li>• Review know the techniques of analysis and research. The history of review lays the foundation for becoming a good reviewer by knowing the benefits and merits.</li> <li>• The definition of literature by knowing the types.</li> </ul>

	<ul style="list-style-type: none"> <li>• Facilitates later study by making the lesson learned in to a process exercise</li> </ul>
Tamil Naadaga Kalei	<ul style="list-style-type: none"> <li>• Know the Tamil drama tradition on historical basis. Making people aware of the social concept through drama.</li> <li>• The evaluate and understand the development and trend of 20th Century drama</li> <li>• Realize the experience of reading the script and the needs of reform drama over time.</li> <li>• Feminist and Dalit needs are realized through plays.</li> <li>• Translation play is used to know plays suitable for studying and performing in educational institutions.</li> </ul>
Aaivedu	<ul style="list-style-type: none"> <li>• The research paper motivates to select and study literary, cultural, domains.</li> <li>• Selecting texts suitable for the research topic and conveying the research objective.</li> <li>• Guides appropriate application of learned texts to study.</li> <li>• Helps to achieve social history and cultural awareness.</li> <li>• Research findings are objective and useful to society. Studies should also be stimulating.</li> </ul>

DEPARTMENT OF MALAYALAM	
U.G.	
Course Outcome	
courses	Outcomes
Malayala Kavitha	<ul style="list-style-type: none"> <li>We were able to understand different branches of poetry which deals with numerous social subjects. Poetry helps to build a very deep knowledge about today's social conditions.</li> </ul>
Ghadya Sahithyam	<ul style="list-style-type: none"> <li>The autobiographical study of different famous personalities, the students were able to generate several good qualities. With the study of Basheers Balyakalasakhi Students were able to understand a lot more about cultural practices of our society.</li> </ul>
Dhrisya kala sahithyam	<ul style="list-style-type: none"> <li>Not only watching, but by studying about movies students were introduced to a new world where they actually allowed to understand about what they are watching on big screen. With the study of different branches of drama students are getting deeper knowledge about it.</li> </ul>
Vaaritha madhyamangal(journalisam)	<ul style="list-style-type: none"> <li>By the study of journalism students were taken to a new path of their career.</li> </ul>

DEPARTMENT OF HINDI	
U.G.	
Course Outcome	
1 <sup>st</sup> semester Prose	<ul style="list-style-type: none"> <li>• Short Story : Think for a few moments about a moment in your life.</li> <li>• Grammar: Know the basic of language.</li> <li>• Journalism : Though it may be interesting or even entertaining, the foremost value of news is as</li> </ul>
2 <sup>nd</sup> semester Drama, Novel, Grammar	<ul style="list-style-type: none"> <li>• Drama : To express the feelings.</li> <li>• Grammar: Know the basic of language.</li> <li>• Novel: A novel is help of thinking the life and get a life inspiration.</li> <li>• Develop the Communication skill.</li> </ul>
3 <sup>rd</sup> semester	<ul style="list-style-type: none"> <li>• Poetry may be written as individual poems or included in other written forms as in dramatic poetry, hymns, or song lyrics.</li> <li>• One act Play : Express the Humanity.</li> <li>• Translation : To know the new language and creative thinking</li> </ul>
4 <sup>th</sup> Semester	<ul style="list-style-type: none"> <li>• Know about the modern culture.</li> <li>• Deep knowledge of poetry.</li> </ul>



<b>DEPARTMENT OF ENGLISH</b>	
<b>BA ENGLISH</b>	
<b>Semester 1</b>	
Tamil	<ul style="list-style-type: none"> <li>• Knowing the literary creators and works of the time and creating new works.</li> <li>• Understanding the basics of language.</li> <li>• Knowing the ancient cultural customs of the classical language.</li> <li>• Assuming solutions to social problems and issues.</li> <li>• Understanding the Origin and Development of Decimal Types.</li> </ul>
Malayalam Poetry Literature	<ul style="list-style-type: none"> <li>• The study of early days of Malayalam poetry, origin from Pattu movement to contemporary poetry should be introduced. The aim is to develop general knowledge about Malayalam poetry.</li> <li>• To Develop ability to appreciate poetry and critical analysis. By understanding the history of poetry and its growth over time, one can understand the various levels associated with poetical studies and criticism.</li> </ul>
Communicative English I	<ul style="list-style-type: none"> <li>• To enhance the communicative skills of students.</li> <li>• To enrich the knowledge of students in grammar usage.</li> <li>• To simulate real life situations in the classroom to practice real English dialogues and speeches to gain English language fluency.</li> <li>• To build up the learners confidence in oral and interpersonal communication</li> </ul>
Professional English I	<ul style="list-style-type: none"> <li>• To develop communicative skills of the learners in listening, speaking, writing and reading.</li> <li>• To develop the abilities of students and make them independent, competent and confident.</li> </ul>
British Poetry	<ul style="list-style-type: none"> <li>• Students were aware of the various British authors and their writing style.</li> <li>• To develop the knowledge about British poetry.</li> <li>• To learn rhythm of the poems.</li> <li>• To understand about the poems in various centuries.</li> </ul>
Social History of England	<ul style="list-style-type: none"> <li>• Students can learn brief out line of British History.</li> <li>• Helps the students to understand social structures, changes, and problems in early modern England</li> </ul>
Literary Forms	<ul style="list-style-type: none"> <li>• Make them prepare for competitive exam.</li> <li>• Know different genres of literature</li> <li>• Know the history of each genre in literature.</li> </ul>
Environmental studies	<ul style="list-style-type: none"> <li>• Helps to gather knowledge about environment.</li> <li>• Learns to protect the environment.</li> </ul>

<b>II SEMESTER</b>	
Tamil	<ul style="list-style-type: none"> <li>• Announcement of devotional norms through religious literature.</li> <li>• Practice writing letters expressing the language structure.</li> <li>• Expressing moral thoughts through the texts of justice.</li> <li>• Teaching and directing the biographies of the saints.</li> <li>• Introducing literature created by religions.</li> </ul>
Malayalam Prose Literature	<ul style="list-style-type: none"> <li>• The outcome of the course is to impart a general understanding of the origin of Malayalam prose and the various forms of prose literature.</li> <li>• The origin and development of Malayalam Short-Story and Novel should be briefed. For detailed study a Short-Story &amp; a Novel of famous authors are prescribed.</li> <li>• The change from the early short stories and novel to the present should be introduced.</li> <li>• The teacher should explain the theme, structure and narrative style of the authors in detail.</li> <li>• The development of prose literature should be introduced on the basis of the texts for detailed study.</li> </ul>
Communicative English II	<ul style="list-style-type: none"> <li>• Helps to improve practical usage of English Grammar.</li> <li>• To help students overcome their fear and to speak in English in front of their peers and teachers.</li> <li>• To build students self-confidence through various classroom activities and outdoor activities.</li> </ul>
Professional English II	<ul style="list-style-type: none"> <li>• Develop a confidential communication skill.</li> <li>• Learned different styles of writings, like prose, poetry and fiction.</li> <li>• Students will be able to enhance his or her familiarity and fluency with the language considerably.</li> </ul>
Modern English Grammar and Usage	<ul style="list-style-type: none"> <li>• To develop the communication skills.</li> <li>• To develop the basic knowledge in English language.</li> <li>• Practical usage of English Grammar.</li> </ul>
British Drama	<ul style="list-style-type: none"> <li>• To learn diverse cultures and values of each age.</li> <li>• To understand various dramatic techniques.</li> <li>• Helps the students of express themselves imaginatively and creatively.</li> <li>• Acquire good speaking and listening habits to understand enjoy and appreciate dramatic texts.</li> </ul>
History of English Literature	<ul style="list-style-type: none"> <li>• To make the students familiar with the evolution and progress of English language and Literature through different years and periods.</li> <li>• To understand important literary figures and historical periods.</li> </ul>
<b>II B A English</b>	
<b>III SEMESTER</b>	
Tamil	<ul style="list-style-type: none"> <li>• To know the life history of the ancient Tamils through epics.</li> <li>• Promoting the grammatical ability of the consecration team by teaching them the grammar.</li> </ul>

	<ul style="list-style-type: none"> <li>• Sowing literary study ability in the mind of the student.</li> <li>• Instruction to live in an honest way.</li> <li>• Making history of epics and short stories.</li> </ul>
Malayalam Classical and Modern Theatre / Cinema Literature	<ul style="list-style-type: none"> <li>• In the present scenario Visual arts especially, Cinema is influenced a lot. It gives lot of job opportunity also. Inclusion of Drama and Cinema in this semester will create interest among the students to opt for future endeavors.</li> <li>• It helps to know more about the visual arts sensitivities and enable them to appreciate the art forms very well.</li> <li>• To achieve these it is necessary to create a general awareness among the students to Visual Arts and their literary Genres.</li> <li>• We need to convince the students about the specific factors of art forms that are changing from time to time and their relevance.</li> <li>• To enable them to understand the general nature of a Film Script, Screen Play and the transition of a story/short-story/Novel/an idea into a film.</li> </ul>
Part II English	<ul style="list-style-type: none"> <li>• to develop interest in and appreciation of Literature</li> <li>• To develop confidential communication skill.</li> <li>• Learned different styles of writings, like prose, poetry and fiction.</li> <li>• Practical usage of English Grammar.</li> </ul>
British Prose	<ul style="list-style-type: none"> <li>• Understand the various kinds of thoughts and ideologies of each periods.</li> <li>• Enhance the power of comprehension and literary competence.</li> </ul>
Indian English Literature I	<ul style="list-style-type: none"> <li>• Analyse the artistic and rhetorical devices used by the writers.</li> <li>• Enhance the overall literary and linguistic competence.</li> </ul>
American Literature I	<ul style="list-style-type: none"> <li>• Understand values and themes that impact culture and society.</li> <li>• Write poems and short stories and also enact scenes from the plays.</li> </ul>
African Literature	<ul style="list-style-type: none"> <li>• Understand the uniqueness of African Literature in terms of form and content.</li> <li>• Assess and compare the genres of nonfiction, fiction, drama and poetry of African Literature</li> </ul>
Consumer Awareness	<ul style="list-style-type: none"> <li>• This paper gave a clear idea about consumers and consumerism.</li> <li>• It gives knowledge about consumer laws, which are useful for the well being of individuals.</li> </ul>
<b>IV SEMESTER</b>	
Tamil	<ul style="list-style-type: none"> <li>• Teaching subject grammar for biology.</li> <li>• Teaching biological virtues through literature.</li> <li>• Motivation to create plays centered on historical backgrounds.</li> <li>• To know the history and individual features of Sangam literature</li> </ul>

Malayalam Media Literature	<ul style="list-style-type: none"> <li>The outcome of Media Study is to enable the students to know more about the roles of media including print and online, film and television in the society. And to analyze the content, history and impact of various media especially mass- media on our society. Media studies encourage the students to understand the critical evaluation of new and old media technologies, the centrality of media in politics, economics, social life, global and local culture, and the contemporary and historical impact of media on individuals and societies. By the study of Madhyamagal. students were taken to a new path of their career</li> </ul>
Part II English	<ul style="list-style-type: none"> <li>To enable the learner to communicate effectively and appropriately in real life situation</li> <li>To develop Vocabulary and Pronunciation. Students will be able to enhance his or her familiarity and fluency with the language considerably.</li> </ul>
British Fiction	<ul style="list-style-type: none"> <li>Interpret the different meanings and messages in the novels. Asses the literary value of each novel.</li> </ul>
Indian English Literature II	<ul style="list-style-type: none"> <li>Understand the broad view of culture as seen from outside the culture.</li> <li>Critically engage with Indian literary texts written in English in terms of colonialism, post colonialism, regionalism and nationalism.</li> </ul>
American Literature II	<ul style="list-style-type: none"> <li>Acquainted with the historical and literary elements in American literature.</li> <li>Attain knowledge of various literary styles in relation to their cultural context and literary forms.</li> </ul>
Language and Linguistics	<ul style="list-style-type: none"> <li>Understand a wide array of linguistic diversity, systematic patterns and cross linguistic universals that constrain the diversity.</li> <li>Asses the efficiency of the tools and knowledge that give a new perspective on language and linguistic.</li> </ul>
Content Writing	<ul style="list-style-type: none"> <li>Improve the ability to read the literary texts critically and analyse them.</li> <li>Gain an understanding about various modes and methods of literary interpretation.</li> <li>Understanding the development of new forms of writing and literary interpretation.</li> </ul>
<b>III B. A English</b>	
<b>V SEMESTER</b>	
Non- Fiction	<ul style="list-style-type: none"> <li>The students got familiarized prose writings of the representative writers of English Literature.</li> <li>The subject helped the students to learn different styles in writing different types of essays.</li> </ul>
Literary critics and approaches	<ul style="list-style-type: none"> <li>Develops the critical sensibilities of the students.</li> <li>It helps the students to apply concepts from literary theory and criticism in the analysis and interpretation of text</li> <li>This paper helps the students to write critical responses in literary works</li> </ul>

Canadian literature	<ul style="list-style-type: none"> <li>• It helps the students to know the culture , tradition and manners of Canada</li> <li>• This paper highlights the lifestyle of the people in Canada and their landscape.</li> </ul>
Creative Writing	<ul style="list-style-type: none"> <li>• Learned different styles of writings.</li> <li>• This paper helps the students of express themselves imaginatively and creatively.</li> </ul>
World Literature in Translation	<ul style="list-style-type: none"> <li>• Students get knowledge about new areas of literature.</li> <li>• Able to understand the cultural and moral precepts of various nations.</li> <li>• Various genres demonstrate an overall view of nations.</li> </ul>
<b>VI semester</b>	
Shakespeare	<ul style="list-style-type: none"> <li>• It made students to understand the fine technical details of Elizabethan Drama.</li> <li>• This course dealt with various plays of Shakespeare, which gave the overall idea of Elizabethan Era.</li> </ul>
South- Asian Literature in English	<ul style="list-style-type: none"> <li>• It made the students to know about the countries comprising the South Asian subcontinent.</li> <li>• It dealt with the background of distinctions cultures and history of South Asia.</li> </ul>
Short stories and one act Plays	<ul style="list-style-type: none"> <li>• The subject has made the students to comprehend the thematic descriptions, characters and genre.</li> </ul>
Regional Literature in English	<ul style="list-style-type: none"> <li>• Syllabus of this subject increased wide knowledge and perspective in subject area.</li> <li>• Students studied about Tamil writers and Tamil Literature.It creates passion towards the students.</li> </ul>
African literature	<ul style="list-style-type: none"> <li>• The students understood the role of African literature in establishing the identity of Africans</li> <li>• It helped the students to know about new writers, their works and about their discrimination which Africans faced in the hands of colonizers.</li> </ul>

<b>I M A ENGLISH</b>	
<b>I semester</b>	
Indian writing in English I	<ul style="list-style-type: none"> <li>• It helps the students to learn about the culture , tradition and history of India</li> <li>• It helps to find out the important authors and famous leaders in India</li> </ul>
British Poetry	<ul style="list-style-type: none"> <li>• It helps the students to learn about the nature and the life of common people</li> <li>• It helps to learn about classical ideas and mythical imagination</li> <li>• It also helps to develop the important influence on historiography, education and natural beauty</li> </ul>
British Drama	<ul style="list-style-type: none"> <li>• The subject helped the students to know about the great tragedies and comedies of English literature</li> <li>• The students came in touch with the classical works of English literature</li> </ul>
American Literature I	<ul style="list-style-type: none"> <li>• The subject helps the students to know about American culture and tradition</li> <li>• It helps them to understand the great minds of American people</li> <li>• It creates interest towards the students to read more students</li> </ul>
African literature	<ul style="list-style-type: none"> <li>• Introduction to various writers from Africa , South, East and West</li> <li>• Becoming aware of social realities from those parts of the world</li> <li>• Learning the styles adopted by the African writers to expose and express their societies.</li> </ul>
Literature and Pandemics	<ul style="list-style-type: none"> <li>• Know and express the varied socio- cultural conditions related to pandemics.</li> <li>• Understand major biological crisis like the COVID-19 pandemic.</li> </ul>
<b>II Semester</b>	
British non-fiction	<ul style="list-style-type: none"> <li>• Learn and appreciate the cultural realities of the various periods.</li> <li>• Analyze the functions of English texts and their relations with historical, social and political contexts.</li> <li>• Grasp the changing role of English in the new world order.</li> </ul>
American Literature II	<ul style="list-style-type: none"> <li>• Students got a proper knowledge about the background and history and politics of America</li> </ul>

	<ul style="list-style-type: none"> <li>• Learnt about the cultural diversity and the factors that kept America united</li> <li>• Emergence of tribal and subaltern studies as a part of American literature</li> </ul>
Literary theory I	<ul style="list-style-type: none"> <li>• The purpose was to create awareness regarding the major literary theories from 1950s to 1970s</li> <li>• To learn to apply these theories in the analysis of literary texts</li> </ul>
Indian English Literature II	<ul style="list-style-type: none"> <li>• The subject helped the students to know about the different works and authors of different regional languages.</li> <li>• The subject helped the students to know about the art of translating works</li> </ul>
Canadian Literature	<ul style="list-style-type: none"> <li>• Get acquainted with the richness of Canadian literature through various genres.</li> <li>• Create thoughtful and critical analyses of the assigned texts.</li> </ul>
Shakespeare	<ul style="list-style-type: none"> <li>• Recognize the elements of dramatic devices and techniques of Elizabethan drama.</li> <li>• Recognize Shakespearean theatre and language.</li> </ul>

courses	Outcomes
<b>II M. A ENGLISH</b>	
<b>III SEMESTER</b>	
British Fiction	<ul style="list-style-type: none"> <li>• To identify distinct literary characteristics of modern narratives.</li> <li>• To analyse the concepts of modern and post modern literature</li> </ul>
Australian Literature	<ul style="list-style-type: none"> <li>• To trace the key issues in Australian Literature</li> <li>• To understand Australia's varied socio cultural conditions</li> </ul>
Research Methodology	<ul style="list-style-type: none"> <li>• To know the definition and process of research.</li> <li>• To identify research problem and proceed with it.</li> </ul>
Aspects of English Language I	<ul style="list-style-type: none"> <li>• To articulate the phonological sound system.</li> <li>• Appraise how various linguistic phenomena have developed and changed in modern English.</li> </ul>
Literary Theory II	<ul style="list-style-type: none"> <li>• Explore the text with a specific epistemological and contextual learning.</li> <li>• Critically analyze the significance of race, class and gender from a theoretical perspective.</li> </ul>
Green Literature	<ul style="list-style-type: none"> <li>• Understand the importance of nature and the indomitable part of nature in life.</li> <li>• Appreciate the ethical, cross cultural and historical context of environmental issues.</li> </ul>

<b>IV SEMESTER</b>	
Gender Studies	<ul style="list-style-type: none"> <li>• Demonstrate the ability to conduct an interdisciplinary analysis of gender studies.</li> <li>• Understand feminism in its diverse cultural contexts.</li> </ul>
Asia Pacific Literature	<ul style="list-style-type: none"> <li>• Understand the various narrative techniques unique to the region.</li> <li>• Critically analyze representative literary texts from the regions as cultural discourse.</li> </ul>
Aspects of English Language II	<ul style="list-style-type: none"> <li>• Distinguish the concepts of word meaning and sentence meaning; sense and reference.</li> <li>• Understand and analyze distinguishing features of written and spoken language in the text.</li> </ul>
Content Writing	<ul style="list-style-type: none"> <li>• Comprehend the knowledge about digital skills and media.</li> <li>• Analyze and present a topic of study in a field specific language.</li> </ul>
Dissertation	<ul style="list-style-type: none"> <li>• To gain an understanding of the existing research and debates relevant to a particular topic or area of study.</li> <li>• To present knowledge in the form of a written report.</li> <li>• To conduct literature reviews and build knowledge in literary field.</li> </ul>



**DEPARTMENT OF MATHEMATICS**

Tamil	<ul style="list-style-type: none"> <li>• Knowing the literary creators and works of the time and creating new works.</li> <li>• Understanding the basics of language.</li> <li>• Knowing the ancient cultural customs of the classical language.</li> <li>• Assuming solutions to social problems and issues.</li> <li>• Understanding the Origin and Development of Decimal Types.</li> </ul>
Malayalam Poetry Literature	<ul style="list-style-type: none"> <li>• The study of early days of Malayalam poetry, origin from Pattu movement to contemporary poetry should be introduced. The aim is to develop general knowledge about Malayalam poetry.</li> <li>• To Develop ability to appreciate poetry and critical analysis. By understanding the history of poetry and its growth over time, one can understand the various levels associated with poetical studies and criticism.</li> </ul>
Communicative English I	<ul style="list-style-type: none"> <li>• To enhance the communicative skills of students.</li> <li>• To enrich the knowledge of students in grammar usage.</li> <li>• To simulate real life situations in the classroom to practice real English dialogues and speeches to gain English language fluency.</li> <li>• To build up the learners confidence in oral and interpersonal communication</li> </ul>
Professional English I	<ul style="list-style-type: none"> <li>• To develop communicative skills of the learners in listening, speaking, writing and reading.</li> <li>• To develop the abilities of students and make them independent, competent and confident.</li> </ul>

**Semester-I Core-I Calculus and Classical Algebra**

**Course Outcomes:** On successful completion of the course, the students should be able to

CO No.	Course Outcome	Knowledge Level
CO1	Apply the mathematical knowledge to analyze the properties of a curve such as curvature, radius of curvature, Involute and Evolute.	K3,K4
CO2	Classify double and triple integrals	K4
CO3	Identify Beta and gamma function and to apply the rules of beta and gamma function in evaluating double and triple integrals.	K3
CO4	Construct different types of equations and to find the roots of the equations by Newton's Theorem	K1,K6

CO5	Solve the different types of reciprocal equations and to find the number of real roots using Descartes rule of signs.	K6
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K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

Allied Paper-I Statistics- I

Course Outcomes: On successful completion of the course ,the students should be able to CO

CO No.	Course Outcome	Knowledge Level
CO1	Find and relate the concepts of moments, skewness and kurtosis and to demonstrate the method of least squares and to classify parabolic, exponential and logarithmic curves.	K1,K2, K3
CO2	Interpret correlation and regression and to illustrate Karl's Pearson's coefficient of correlation and also the lines of regression and coefficient of regression	K2
CO3	Develop the statistical techniques used in the theory of attributes and to analyze consistency of data and criteria independence and to interpret Yule's coefficient of association.	K3,K4
CO4	Explain distribution function and its properties, able to find mathematical expectation and to find the cumulants using generating function	K3
CO5	Distinguish discrete and continuous probability distributions and to construct binomial, Poisson distribution	K4,K6

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

II SEMESTER	
Tamil	<ul style="list-style-type: none"> <li>• Announcement of devotional norms through religious literature.</li> <li>• Practice writing letters expressing the language structure.</li> <li>• Expressing moral thoughts through the texts of justice.</li> <li>• Teaching and directing the biographies of the saints.</li> <li>• Introducing literature created by religions.</li> </ul>
Malayalam Prose Literature	<ul style="list-style-type: none"> <li>• The outcome of the course is to impart a general understanding of the origin of Malayalam prose and the various forms of prose literature.</li> </ul>

	<ul style="list-style-type: none"> <li>• The origin and development of Malayalam Short-Story and Novel should be briefed. For detailed study a Short-Story &amp; a Novel of famous authors are prescribed.</li> <li>• The change from the early short stories and novel to the present should be introduced.</li> <li>• The teacher should explain the theme, structure and narrative style of the authors in detail.</li> <li>• The development of prose literature should be introduced on the basis of the texts for detailed study.</li> </ul>
Communicative English II	<ul style="list-style-type: none"> <li>• Helps to improve practical usage of English Grammar.</li> <li>• To help students overcome their fear and to speak in English in front of their peers and teachers.</li> <li>• To build students self-confidence through various classroom activities and outdoor activities.</li> </ul>
Professional English II	<ul style="list-style-type: none"> <li>• Develop a confidential communication skill.</li> <li>• Learned different styles of writings, like prose, poetry and fiction.</li> <li>• Students will be able to enhance his or her familiarity and fluency with the language considerably.</li> </ul>

## Semester -II Core II

### Differential Equations and Analytical Geometry of Three dimension

**Course Outcomes: On successful completion of the course, the students should be able to**

CO No.	Course Outcome	Knowledge Level
CO1	Solve the differential equations which are all solvable for x, y, p and Clairaut's form. Also, to illustrate the method of solving the differential equations of the form $f_1(D)x + g_1(D)y = h_1(t)$ , $f_2(D)x + g_2(D)y = h_2(t)$ .	K1, K2, K3
CO2	Identify and solve the second order linear differential equation with constant coefficients and to interpret the linear equations of second order with variable coefficients.	K2
CO3	Analyze the 3D-co-ordinate systems and how to find the direction cosines and direction ratios.. Also to find the angle between planes, the length of the perpendicular and angle of bisection	K3, K4
CO4	Find and classify the equation of lines in different forms and calculate the image of the point, image of a line and to distinguish lines and planes. The angle between the line and plane can be determined. coplanar lines can be shown and the shortest distance between	K3

CO5	The equations of spheres and circles of intersection can be interpreted and to illustrate and analyze the tangency of sphere.	K2,K4
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K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

## Semester -II

### Allied Paper -II Statistics-II

CO No.	Course Outcome	Knowledge Level
CO1	To list out the characteristics of index numbers and to find Laspeyer's and Paache's, Fisher and Bowley's Edgeworth's index numbers. The method to classify and analyse the unit test, commodity reversal test, time reversal test and circular tests can be shown.	K1,K2
CO2	Construct testing of hypothesis and to distinguish null hypothesis and alternative hypothesis. Type I and Type II errors can be classified. The level of significance and test of significance for large samples can be explained.	K2,K4,K6
CO3	Identify the distributions such as t-distributions and F-distribution. By making use of t-test the single mean and difference of means can be found out. Variance ratio test based on Chi-Square distribution by making use of this the goodness of fit can be decided.	K1,K3,K5
CO4	To find analysis of variance. One way and two way classified data can be explained and to randomize block design. Latin squares can be analysed and constructed.	K1,K4,K5
CO5	To explain statistical quality control and its advantages. Process control can be illustrated by making use of this control chart, range chart, P-chart can be designed	K2,K3

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

III SEMESTER	
Tamil	<ul style="list-style-type: none"> <li>To know the life history of the ancient Tamils through epics.</li> <li>Promoting the grammatical ability of the consecration team by teaching them the grammar.</li> <li>Sowing literary study ability in the mind of the student.</li> <li>Instruction to live in an honest way.</li> <li>Making history of epics and short stories.</li> </ul>
Malayalam	<ul style="list-style-type: none"> <li>In the present scenario Visual arts especially, Cinema is influenced a lot. It gives lot of job opportunity also.</li> </ul>

Classical and Modern Theatre / Cinema Literature	<p>Inclusion of Drama and Cinema in this semester will create interest among the students to opt for future endeavors.</p> <ul style="list-style-type: none"> <li>• It helps to know more about the visual arts sensitivities and enable them to appreciate the art forms very well.</li> <li>• To achieve these it is necessary to create a general awareness among the students to Visual Arts and their literary Genres.</li> <li>• We need to convince the students about the specific factors of art forms that are changing from time to time and their relevance.</li> <li>• To enable them to understand the general nature of a Film Script, Screen Play and the transition of a story/short-story/Novel/an idea into a film.</li> </ul>
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### Semester-III

#### Core-III SEQUENCES AND SERIES

**Course Outcomes: On successful completion of the course, the students should be able to CO**

CO No.	Course Outcome	Knowledge Level
CO1	Analyse the real number system and also to classify rational and irrational numbers. To find the upper bounds, least upper bounds and maximum element and to elaborate triangle inequality and Cauchy-Schwartz Inequality.	K1, K2, K4
CO2	Categorize the sequences as bounded sequences, monotonic sequences, convergent sequences and divergent sequences. Also to find the algebra of limits	K1, K4
CO3	Demonstrate the behavior of monotonic sequences and to apply Cauchy's first limit theorem, Make use of Cauchy's Second limit theorem and Cesaro's Theorem. Construct subsequence and to explain Cauchy's general principle of convergence.	K2, K3, K6
CO4	Interpret the series and to apply nth term test, Comparison test, Kummer's test, D'Alembert's ratio test, Raabe's test, Gauss test and root test to compile the nature of the series.	K2, K3, K6
CO5	Analyse the alternating series. Apply the test for convergence for series of arbitrary terms. Also to identify the power series and to determine the radius of convergence.	K1, K3, K4, K5

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

## Semester -III Skill Based Core- Paper I

### VECTOR CALCULUS

**Course Outcomes:** On successful completion of the course, the students should be able to

CO No.	Course Outcome	Knowledge Level
CO1	Classify the vector point function and scalar point function. Determine the derivative of a vector and derivative of product of scalar and vector function.	K2,K5
CO2	Find divergence, curl. Make use of the Laplacian operator.	K1,K3
CO3	Interpret the integration of point function and to illustrate line integral. To solve surface integral.	K5,K6
CO4	Analyze and solve the volume integral. Also to illustrate and make use of Guass Divergence Theorem to solve problems.	K2, K3,K6
CO5	To solve problems based on Green's theorem and Stoke's Theorem	K6

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

### Semester-III-Core-III SEQUENCES AND SERIES

CO No.	Course Outcome	Knowledge Level
CO1	Analyse the real number system and also to classify rational and irrational numbers.To find the upper bounds,least upper bounds and maximum element and to elaborate triangle inequality and Cauchy-Schwartz Inequality	K2,K5
CO2	Categorize the sequences as bounded sequences, monotonic sequences, convergent sequences and divergent sequences. Also to find the algebra of limits	K1,K3
CO3	Demonstrate the behavior of monotonic sequences and to apply Cauchy's first limit theorem,Make use of Cauchy's Second limit theorem and Cesaro's Theorem. Construct subsequence and to explain Cauchy's general principle of convergence. .	K5,K6
CO4	Interpret the series and to apply nth term test, Comparison test,Kummer's test, D'Alembert's ratio test,Raabe's test, Guass test and root test to compile the nature of the series	K2, K3,K6
CO5	Analyse the alternating series .Apply the test for convergence for series of arbitrary terms.Also to identify the power series and to determine the radius of convergence	K6

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

## M.SC MATHS

### Title of the Course :ALGEBRA - I

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

CO No.	Course Outcome	Knowledge Level
CO1	Demonstrate competence with the basic ideas of algebra including the concepts of counting principle and Homomorphisms.	K2
CO2	Understand the concept of Cayley's theorem and about Solvable group	K3
CO3	Able to demonstrate about the permutations and Accounting principle.	K3
CO4	Appreciate the significance of Sylow's theorem and Galois theory	K4
CO5	Acquire the knowledge of direct products, finitely generated abelian groups	K3

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

### Title of the Course : ANALYSIS - I

Course Outcomes(COs) On successful completion of the course, the students will be able to

CO No.	Course Outcome	Knowledge Level
CO1	Understand the need of metric spaces, compact sets and connected sets.	K2
CO2	Able to recognize the convergence of sequence of functions.	K4
CO3	Analyze the root test, ratio test, power series, absolute convergence and algebra of series	K4
CO4	Interpret knowledge about the concept of limits and continuity of functions.	K2
CO5	Able to know another equally important main ideas namely differentiation and make use of the study of velocity and acceleration of continuous paths	K2,K3

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

### Title of the Course : ANALYTIC NUMBER THEORY

Course Outcomes

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

CO No.	Course Outcome	Knowledge Level
CO1	Study the basic concepts of elementary number theory	K2
CO2	Explain several arithmetical functions and construct their relationships	K2,K3
CO3	Apply algebraic structure in arithmetical functions	K3
CO4	Demonstrate various identities satisfied by arithmetical functions.	K3
CO5	Determine the application to $\mu(n)$ & $\Lambda(n)$ and several equivalent form of prime number theorem	K5

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

### **Title of the Course : OPERATIONS RESEARCH**

Course Outcomes

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

CO No.	Course Outcome	Knowledge Level
CO1	Be able to build and solve Transportation and Assignment problems using appropriate method	K2
CO2	Learn the constructions of network and optimal scheduling using CPM and PERT	K3
CO3	Ability to construct linear integer programming models and solve linear integer programming models using branch and bound method	K3
CO4	Understand the need of inventory management..	K3
CO5	To understand basic characteristic features of a queuing system and acquire skills in analyzing queuing models	K3

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

### **Title of the Course : ORDINARY DIFFERENTIAL EQUATIONS**

Course Outcomes

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

CO No.	Course Outcome	Knowledge Level
CO1	Develop ways of finding explicit solutions of second order linear equations and understand the nature and properties	K2,K3
CO2	Recall an algebraic function and create attention to the general homogeneous second order linear equation.	K3



CO3	Confront the theoretical side of the problem, adapt to the technical task of defining the Legendre polynomial and build their special properties.	K3,
CO4	Make use of many important applications of Legendre polynomials to mathematical physics. Define the more important Bessel functions and prove some of their simpler properties.	K3,K5
CO5	Specialize the linear system	K-4, K-5

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

### **Title of the Course : ALGEBRA - II**

Course Outcomes

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

<b>CO No.</b>	<b>Course Outcome</b>	<b>Knowledge Level</b>
CO1	Demonstrate competence with the basic ideas of algebra including the concepts of ideals and quotient Rings.	K2
CO2	Understand the concept of the Particular Euclidean ring.	K3
CO3	Able to demonstrate about the Polynomial rings over Commutative rings. K	K3
CO4	Appreciate the significance Radicals	K3,
CO5	Acquired the knowledge of direct sum of rings	K3

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

### **Title of the Course : ANALYSIS - II**

Course Outcomes(COs)

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

<b>CO No.</b>	<b>Course Outcome</b>	<b>Knowledge Level</b>
CO1	Construct the integration of real valued functions on intervals	K2
CO2	Explain the integration of vector valued functions and make use of geometric interest with application	K3
CO3	Explain a new mode of convergence, pointwise convergence with integration , equicontinuous function and pointwise bounded sequence	K3
CO4	Developing properties of polynomials and deriving properties of function represented by power series.	K3,

CO5	Explain the algebraic completeness of the complex field, its generalization and its conclusion.	K3
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K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

### **Title of the Course : ADVANCED CALCULUS**

Course Outcomes(COs)

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

CO No.	Course Outcome	Knowledge Level
CO1	Understand the difference between a multiple integral and an iterated integrals and move from one to the other	K2,K3
CO2	Organise with functions whose range of values will be points in m space, for some specific choice of m such as 2 or 3.	K3
CO3	Use linear and affine transformation as local approximations to a general transformation.	K4
CO4	Deviate from the older traditional approach and adopt one which is of greater significance of applications in analysis.	K3,K4
CO5	Show how to translate between the language and notation of the system of differential forms and that of vector analysis.	K3,K4

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

### **Title of the Course : DIFFERENTIAL GEOMETRY**

Course Outcomes(COs)

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

CO No.	Course Outcome	Knowledge Level
CO1	Interpret the geometric character of curves in Space (R <sup>3</sup> )	K2
CO2	Explain the nth order of a curve and a surface, Develop the plane of curvature at a point of the surface	K2,K3
CO3	Build the concept of a surface and fundamental forms	K3
CO4	Explain the intrinsic and non intrinsic properties of a surface	K3,
CO5	Analyse the properties of a surface relative to the Euclidean space in which it is embedded	K4

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

### **Title of the Course : RESEARCH METHODOLOGY AND STATISTICS**

## Course Outcomes(COs)

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

<b>CO No.</b>	<b>Course Outcome</b>	<b>Knowledge Level</b>
CO1	Discuss the information of the sections in a dissertation or thesis	K2
CO2	Discuss the distributions of two random variables, conditional Distributions and expectations, independent random variables and its generalizations	K2,K3
CO3	Build the Gamma and Chi-Square Distributions and Normal Distributions	K3
CO4	Classify the distributions of Functions of Random Variables and define three additional distributions of statistical inference	K3,
CO5	Build an alternative procedure around the concept of the moment generating - function of a distribution and establish the central limit theorem	K4

K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate, K6-Create

**DEPARTMENT OF PHYSICS**

**Course Outcome**

Tamil: Poetry, Grammar, Prose Literature, Short Stories & Literary History	<ul style="list-style-type: none"> <li>• Knowing the literary creators and works of the time and creating new works.</li> <li>• The students understand the basics of language.</li> <li>• They are able to understand the ancient cultural customs of the classical language.</li> <li>• They can assuming the solutions to social problems and issues.</li> </ul>
Malayalam : Malayala Kavitha	<ul style="list-style-type: none"> <li>• The students understand the different branches of poetry which deals with numerous social subjects. Poetry helps to build a very deep knowledge about today's social conditions.</li> </ul>
Communicative English I	<ul style="list-style-type: none"> <li>• It enhances the communicative skills of students.</li> <li>• To enrich the knowledge of students in grammar usage.</li> <li>• It stimulates the real life situations in the classroom to practice real English dialogues and speeches to gain English language fluency.</li> <li>• It helps to build up the learners confidence in oral and interpersonal communication.</li> </ul>
Mechanics and Relativity	<ul style="list-style-type: none"> <li>• They gain the knowledge of the dynamics of rigid bodies.</li> <li>• They able to define the various phenomena and laws under floatation.</li> <li>• Understand the special theory of relativity and its applications.</li> </ul> <p>Properties of Matter and Acoustics</p>
Properties of Matter and Acoustics	<ul style="list-style-type: none"> <li>• The students understand the elastic properties of various materials.</li> <li>• They are able to understand the nature and various properties of fluids such as surface tension and viscosity.</li> <li>• They also study the basic properties and production of ultrasonics by different methods.</li> </ul>

Professional English I	<ul style="list-style-type: none"> <li>• Students develop the skill of using the language for speaking with confidence in an intelligible and acceptable way.</li> <li>• They understand the importance of reading in life.</li> <li>• They read independently unfamiliar texts with comprehension.</li> <li>• They understand the importance of writing in academic life</li> <li>• They are able to write simple sentences without committing error of spelling or grammar.</li> </ul>
Major Practical I	<ul style="list-style-type: none"> <li>• The students develop the skill to measure the material constants such as, young's modulus, rigidity modulus and moment of inertia of the solid materials.</li> <li>• They get idea to measure gravitational acceleration using simple pendulum.</li> <li>• They understand the principle and properties of sound through experiments.</li> <li>• They are able to illustrate the properties of fluids such as viscosity and surface tension by simple experiments.</li> </ul>
Environmental Studies	<ul style="list-style-type: none"> <li>• Students understand the concepts and methods from ecological and physical sciences and their application in environmental problem solving.</li> <li>• They understand concepts and methods from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.</li> <li>• They appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.</li> <li>• They understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales.</li> <li>• They apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.</li> </ul>
Allied Physics I	<ul style="list-style-type: none"> <li>• The students understand the properties of matter such as elasticity, surface tension and viscosity.</li> <li>• They develop the skill of correlating the concept of simple harmonic motion with vibration of strings.</li> <li>• The acquire the knowledge to explain the theory and experimental methods of transfer of heat through conduction, convection and radiation.</li> <li>• They discuss the properties of light such as interference, diffraction and polarization</li> </ul>

Allied Practical I	<ul style="list-style-type: none"> <li>• The students are able to demonstrate experimentally and find the Young's modulus of a beam and Rigidity modulus of a wire.</li> <li>• They acquire the knowledge of determining the coefficient of viscosity of a liquid by Stoke's method.</li> <li>• They are able to evaluate the thermal conductivity of a bad conductor by Lee's disc experiment.</li> <li>• They can estimate the wavelength of light using spectrometer experiment and thickness of a wire using air wedge experiment.</li> </ul>
Tamil II: Poetry, Grammar, Prose Literature , Life History & Literary History	<ul style="list-style-type: none"> <li>• The students acquire the knowledge of announcement of devotional norms through religious literature.</li> <li>• They learn to practice writing letters expressing the language structure.</li> <li>• They develop the skill of expressing moral thoughts through the texts of justice.</li> <li>• They attain the skill of teaching and directing the biographies of the saints.</li> <li>• They gain the knowledge of literature created by religions</li> </ul>
Malayalam:Gadhya Sahithyam	<ul style="list-style-type: none"> <li>• The autobiographical study of different famous personalities the students were able generate several good qualities with the study of Basheer's Balyakalasakhi. Students were able to understand a lot more about cultural practices of our society.</li> </ul>
Communicative English II	<ul style="list-style-type: none"> <li>• It Helps to improve practical usage of English Grammar and the student their fear to speak in English in front of their peers and teachers.</li> <li>• They build self-confidence through various classroom activities.</li> </ul>
Thermal Physics and Statistical Mechanics	<ul style="list-style-type: none"> <li>• Identify and describe the statistical nature of concepts and laws in thermodynamics, in particular: entropy, temperature, chemical potential, Free energies, partition functions.</li> <li>• Use the statistical physics methods, such as Boltzmann distribution, Gibbs distribution, Fermi-Dirac and Bose-Einstein distributions to solve problems in some physical systems.</li> <li>• Apply the concepts and principles of black-body radiation to analyze radiation phenomena in thermodynamic systems.</li> <li>• Apply the concepts and laws of thermodynamics to solve problems in thermodynamic systems such as gases, heat engines and refrigerators etc.. Analyze phase equilibrium condition and identify types of phase</li> </ul>
Optics	<ul style="list-style-type: none"> <li>• Study the theory and experimental past of diffraction by fresnels and fraunhoffer methods .</li> <li>• Study the theories for production of polarization of light. Understand the natural behaviour of aberration in lens.</li> </ul>

Major Practical II	<ul style="list-style-type: none"> <li>• Develop skill to measure thickness of very thin objects using Newton's rings and wavelength of visible light using grating.</li> <li>• They gain the knowledge of measuring the AC frequency of voltage using sonometer.</li> <li>• They can determine the specific heat capacity of a liquid by different experimental techniques.</li> <li>• They understand the concepts of refractive index, dispersion, interference and diffraction through experiments.</li> </ul>
Professional English II	<ul style="list-style-type: none"> <li>• The students improve the reading and communication skills of students. They undergo the special tasks to improve the vocabulary and grammar knowledge of students.</li> </ul>
ValueBased Education:	<ul style="list-style-type: none"> <li>• It gives a positive direction to the students to shape their future and even helps them to know the purpose of their life</li> <li>• .It teaches them the best way to live that can be beneficial to individuals as well as the people around them. Value education also helps the students to become more and more responsible and sensible.</li> <li>• It helps them to understand the perspective of life in a better way and lead a successful life as a responsible citizen.</li> </ul>
Allied Physics II	<ul style="list-style-type: none"> <li>• The students gain the knowledge of applying Kirchoff's laws to electrical circuits.</li> <li>• They understand the concept of electromagnetism. Develop the skill of using the diodes and transistors and the basic operation of logic gates.</li> <li>• They discuss the general properties of nucleus and laws of radioactivity.</li> <li>• They develop the skill of analysing the motion of a projectile and the concept of relativity</li> </ul>
Allied Practical II	<ul style="list-style-type: none"> <li>• The students gain the knowledge of using a potentiometer to calibrate an ammeter and a low range voltmeter.</li> <li>• They demonstrate resonance phenomenon using series and parallel LCR circuits.</li> <li>• They understand the working of Zener diode and transistors and logic gates using simple experiments.</li> <li>• They are able to determine the self inductance and mutual inductance through experiments.</li> </ul>

TamilIII:Poetry, Grammar,Prose Literature,Novel &Literary History	<ul style="list-style-type: none"> <li>• To know the life history of the ancient Tamils through epics. Promoting the grammatical ability of the consecration team by teaching them the grammar.</li> <li>• Sowing literary study ability in the mind of the student. Instruction to live in an honest way. Making history of epics and short stories</li> </ul>
Malayalam: Dhrishya kala sahithyam	<ul style="list-style-type: none"> <li>• Not only watching, but by studying about movies students were introduced to a new world were they actually allowed to understand about what they are watching on big screen, with the study of different branches of drama students are getting deeper knowledge about it</li> </ul>
General English I	<ul style="list-style-type: none"> <li>• To develop Vocabulary and Pronunciation. To understand various styles of writings. To enhance his or her familiarity and fluency with the language considerably.</li> </ul>
Electricity	<ul style="list-style-type: none"> <li>• Provides the student a basic knowledge about electric charge, electric field and electric potential.</li> <li>• They understand the thermal effects occurring in a thermocouple and its applications.</li> <li>• They can explain various chemical effects of electric current.</li> <li>• They understand about the steady and transient current along with the growth and decay of current in L, R and LCR circuits.</li> <li>• They develop the skill to analyse the behavior of alternating current in L, C, R and LCR circuits.</li> </ul>
Maintenance of electrical appliances	<ul style="list-style-type: none"> <li>• Understand the principle and working of measuring meters such as galvanometer, ammeter, voltmeter and multimeter.</li> <li>• Describe the construction, working and testing of transformers</li> <li>• . Trouble shoot household components such as electric lamb, fan, electric iron, washing machines, heaters and refrigerators. Analyze AC and DC connections, house wiring and earthing.</li> <li>• Understand the mechanism of electrical protection and the operation of UPS, generator and motor.</li> </ul>
Major practical III	<ul style="list-style-type: none"> <li>• Use a potentiometer to calibrate an a low range voltmeter. Construct the series resonance circuit to find out the self inductance of the coil</li> <li>• . Demonstrate experimentally the comparison of capacitances and figure of merit using Ballistic galvanometer.</li> <li>• Newton's law of cooling is verified. Construct the parallel resonance circuit to find out the self inductance of the coil.</li> </ul>



Tamil IV: Poetry, Grammar, Prose Literature, Drama & Literary History	<ul style="list-style-type: none"> <li>● To know the culture of the ancient Tamils. Teaching subject grammar for Biology.</li> <li>● Teaching Biological virtues through literature.</li> <li>● Motivation to create plays centered on historical backgrounds.</li> <li>● To know the history and individual features of Sangam literature.</li> </ul>
Malayalam:Vaartha Madhyamangal (Journalism)	<ul style="list-style-type: none"> <li>● By the study of journalism students were taken to a new path of their career.</li> </ul>
General English II	<ul style="list-style-type: none"> <li>● To develop interest in and appreciation of Literature.</li> <li>● To develop confidential communication skill.</li> <li>● To learn different styles of writings, like prose, poetry and fiction.</li> <li>● To understand practical usage of English Grammar</li> </ul>
Electromagnetism	<ul style="list-style-type: none"> <li>● Understand the magnetic effects of electric current and the basis of the electromagnetism.</li> <li>● Understand Faraday's laws of electromagnetic induction. Formulate Maxwell's equations for the propagation of electromagnetic waves.</li> <li>● Illustrate the behavior of electromagnetic waves and its applications.</li> </ul>
Maintenance of electronic appliances	<ul style="list-style-type: none"> <li>● Students understand the functions of electronic components and familiarize with soldering and de-soldering techniques</li> <li>● . Explain the operations of multimeters, CRO and A/F&amp;R/F Oscillators.</li> <li>● Discuss the working and uses of transducers. Describe the basic operation of a communication system.</li> <li>● Understand photography and the related accessories</li> </ul>
Major Practical IV	<ul style="list-style-type: none"> <li>● Use a potentiometer to find the specific resistance and emf of a thermocouple. Demonstrate experimentally the comparison of emf's and high resistance by leakage using Ballistic galvanometer.</li> <li>● Demonstrate experimentally to find the absolute capacity of a condenser using Ballistic galvanometer.</li> <li>● Evaluate the magnetic field along the axis of a coil and horizontal component of earth's magnetic field using vibration magnetometer. Develop skill to determine the self inductance of the coil by Anderson's bridge.</li> <li>● Develop skill to calibrate the ammeter using potentiometer. Acquire the knowledge of comparison of magnetic moments using deflection magnetometer in Tan A and Tan B position.</li> </ul>

Basic Electronics	<ul style="list-style-type: none"> <li>Analyze any linear circuit using Thevenin's theorem and Norton's theorem.</li> <li>Familiarize with different types of diodes and their characteristics. Understand the functions of transistor amplifiers and operation amplifiers. Distinguish between oscillators and multivibrators.</li> </ul>
Atomic Physics	<ul style="list-style-type: none"> <li>Explain band theory of solids and classify solids based on band theory. Understand the properties of positive rays and the experimental determination of <math>e/m</math>.</li> <li>Analyse the various atom models and the coupling mechanisms. Understand properties and uses of X-rays.</li> <li>Understand the basic properties of nucleus.</li> </ul>
Computer Programming C++	<ul style="list-style-type: none"> <li>Know the basics of programming in C++ and write simple programs. Describe the principle of Object oriented Programming.</li> <li>Develop programs using functions, Classes, operator overloading and inheritance.</li> </ul>
Spectroscopy	<ul style="list-style-type: none"> <li>Understand the basics of atomic and molecular spectroscopy. Compare the principles and techniques of microwave, infrared, Raman and electronic spectroscopies.</li> <li>Understand the instrumentation of IR spectroscopy</li> </ul>
Communication electronics	<ul style="list-style-type: none"> <li>Understand the principles of modulation in communication systems. Compare amplitude and frequency modulation techniques.</li> <li>Analyze transmission and reception of AM and FM modulation.</li> <li>Explain the unique features of digital modulation techniques.</li> </ul>
Personality Development	<ul style="list-style-type: none"> <li>Gives basic awareness about the significance of soft skills in professional and inter-personal communications and facilitate an all-round development of personality.</li> </ul>
PracticalV Non-Electronics	<ul style="list-style-type: none"> <li>Demonstrate the conversion of a galvanometer into voltmeter. Determine through experiment the absolute capacity of a capacitor and mutual inductance using Ballistic galvanometer.</li> <li>Verify Thevenin's and Norton's theorems.</li> <li>Evaluate Cauchy's constant experimentally. Determine the young's modulus of the material using elliptical fringes.</li> </ul>
PracticalVI Electronics	<ul style="list-style-type: none"> <li>Study the V-I characteristics of PN junction diode and zener diode. Analysing the percentage of regulation of a Full wave rectifier. Demonstrate the operations of oscillators and multivibrators using transistor-based circuits.</li> <li>Design circuits using OPAMPs to function as -Adder, Subtractor, differentiator, Integrator, -Low Pass And High Pass Filter.</li> </ul>

Digital Electronics	<ul style="list-style-type: none"> <li>• Understand basic codes Boolean operation and logic gates. Construct Half adder,full adder, flip-flops and multivibrators.</li> <li>• Design logic circuits employing Karnaugh maps. Design Shift registers and counters.</li> </ul>
Quantum Mechanics	<ul style="list-style-type: none"> <li>• Understand wave-particle duality of matter. Explain uncertainty principle. Solve Schrodinger's 1D and 3D wave equations and evaluate eigen values</li> <li>• Describe the applications of quantum mechanics.(tunneling, simple harmonic oscillator and particle in a box)</li> </ul>
Nuclear Physics	<ul style="list-style-type: none"> <li>• Understand the basic properties of nucleus. Explain the kinematics of nuclear reactions.</li> <li>• Discuss the operations of nuclear detectors and particle accelerators.</li> <li>• Analyze the behavior of elementary particles and their fundamental interactions Solid state physics .</li> <li>• Compare different bonds in solids. Understand the principle of superconductivity</li> </ul>
Solid State Physics	<ul style="list-style-type: none"> <li>• Understand the electronic properties of solids already gained through Introduction to Condensed Matter Physics, and use this understanding to elucidate the electrical, optical and magnetic properties of crystalline solids.</li> <li>• Apply their knowledge to solve problems in solid state physics. Interpret experimental and computational results.</li> </ul>
Energy Physics	<ul style="list-style-type: none"> <li>• Understand the various available energy sources. Understand about the renewable and clean energy sources such as solar, hydrogen, wind, etc. Understand the principle of photovoltaics and solar cells.</li> <li>• Explain the working of windmills.</li> </ul>
Practical VII:General Practical	<ul style="list-style-type: none"> <li>• The students develop the skill in doing the various experiments on spectrometer to find the various parameters such as angle of the prism, minimum deviation, dispersive power,etc.</li> <li>• They are also able to calculate the impedance and the power factor using LR circuit.</li> <li>• They develop the skill of finding the moment of the magnet.</li> </ul>

Practical VIII:Electronics	<ul style="list-style-type: none"> <li>• The students gain the knowledge in constructing various electronic circuits skill fully.</li> <li>• They gain the knowledge of constructing the NAND and the NOR gates showing that they are the universal building blocks.</li> <li>• They are able to verify the Boolean algebra and the De Morgan's law.</li> </ul>
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<b>MSC Physics</b>	
Classical Mechanics	<ul style="list-style-type: none"> <li>• Understand the Lagrangian and Hamiltonian approaches in classical mechanics and its application with symmetry properties and conservation laws.</li> <li>• To get the idea about classification of orbits and kepler's laws.</li> <li>• The classical background of Quantum mechanics and get familiarized with Poisson brackets and Hamilton -Jacobi equation. Kinematics and Dynamics of rigid body in detail and ideas regarding Euler's equations of motion .</li> <li>• Theory of small oscillations in detail along with basis of Free vibrations.</li> <li>• Basic ideas about theory of relativity in a detailed manner.</li> </ul>
Mathematical Physics I	<ul style="list-style-type: none"> <li>• Learn about Gradient, Divergence and Curl in orthogonal curvilinear and their typical applications in physics.</li> <li>• Learn about special type of matrices that are relevant in physics and then learn about tensors.</li> <li>• Get introduced to Special functions like Gamma function, Beta function, Delta function, Dirac delta function, Bessel functions and their recurrence relations.</li> <li>• Learn the fundamentals and applications of Fourier series, Fourier and Laplace transforms, their inverse transforms etc.</li> </ul>
Integrated Electronics	<ul style="list-style-type: none"> <li>• Understanding of manufacturing technology of Intergrated circuits and its components on substrate</li> <li>• . Understanding digital circuit components such as logic gates, flip flops, registers, etc.</li> <li>• Basic operational amplifier characteristics, OPAMP parameters ,applications as inverter, integrator, differentiator etc . Digital electronics baicsusing logic gates and working of major digital devices like flip flops, CMOS ,CCD etc.</li> </ul>

Non- Linear Dynamics	<ul style="list-style-type: none"> <li>• Know the importance of nonlinearity.</li> <li>• Learn the mathematical implication of NLD. Understand about bifurcation.</li> <li>• Acquire the skill of NLD phenomenon in Electronic circuits.</li> <li>• Apply the concepts of NLD in various types of physical equations .</li> </ul>
Practical I:General Physics Experiments I	<ul style="list-style-type: none"> <li>• Describe the methodology of finding the susceptibility of the liquid using Quinke’s method.</li> <li>• Practice the methodology of finding the cauchy’s constant. Acquire necessary skill to find the wavelength of the source by Michelson’s interferometer.</li> <li>• Understand the determination of the self inductance of the coil.</li> </ul>
Practical II:Electronics Experiments	<ul style="list-style-type: none"> <li>• Develops the skill in the construction of voltage regulator. Setting up Schmitt trigger using transistor.</li> <li>• Construction of triangular and ramp wave generator using op-amp. Construction of counters and decoders.</li> <li>• Construction of Analog and Digital convertors.Designing of constant current source. Study the FET characteristics.</li> </ul>
Mathematical Physics II	<ul style="list-style-type: none"> <li>• Analyses various complex functions. . Gain ability to apply group theory to physics problems, which is a pre-requisite for deeper understanding of crystallography, particle physics, quantum mechanics and energy bands in solids</li> <li>• . Understand the concept of Legendre polynomial and Hermite polynomials. Develop partial differential equation in various applications such as heat flow, etc.</li> <li>• Develop skill for tensor analysis.</li> </ul>
Condensed Matter Physics	<ul style="list-style-type: none"> <li>• Understand the importance of superconductivity both in scientific and technical way.</li> <li>• Attains the knowledge of the electronic structure of solids, especially, metals, semiconductors and dielectrics.</li> <li>• Attains the knowledge about the phonons and their thermal properties. Get idea about free electron theory.</li> <li>• Develops skill about identifying different types of magnetic behavior.</li> </ul>
Numerical Methods and C++ Programming	<ul style="list-style-type: none"> <li>• Derive numerical methods for various mathematical operations and tasks, such as interpolation, differentiation, integration, the solution of linear and nonlinear equations, and the solution of differential equations.</li> <li>• Analyse and evaluate the accuracy of common numerical methods. describe the advantages of a high level language like C++, the programming process, and the compilation process.</li> <li>• To describe and use software tools in the programming process.</li> <li>• To apply good programming principles to the design and implementation of C++ programs.</li> </ul>

Microprocessor 8085 & Microcontroller 8051	<ul style="list-style-type: none"> <li>• Study the Organization and internal architecture of the Intel 8085. Understanding of how the processor works, nature of instructions and execution of instruction</li> <li>• . Learn the applications of microprocessor 8085 and microcontroller 8051.</li> </ul>
Practical III:General Physics Experiments II	<ul style="list-style-type: none"> <li>• Ability to determine the young's modulus of the material by hyperbolic fringes.</li> <li>• Determine the velocity of ultrasonic waves in liquid. Skill to determine the wavelength of the given source using young's double slit method.</li> <li>• Study of mutual inductances of the coils on varying certain factors. Understand XRD- crystallographic parameters.</li> <li>• Under the fibre optic characteristics.</li> </ul>
Practical IV:Electronics Experiments II	<ul style="list-style-type: none"> <li>• Develops the skill of designing and construction of II order active filters. Study the characteristics of UJT.</li> <li>• Design the phase shift oscillator using op-amp. Construction of D/A convertor using op-amp.</li> <li>• Study of SCR characteristics. Construction of code convertors.</li> </ul>
Quantum Mechanics I	<ul style="list-style-type: none"> <li>• Attains wave mechanical basic concepts and Schrodinger and Heisenberg formulations. Solves various eigen value problems.</li> <li>• Describes different operators and matrix theory in quantum mechanics</li> <li>• . Understand the Theory of angular momentum and spin matrices, orbital angular momentum and Clebsh Gordan Coefficient .</li> <li>• Understand the time dependant and independent perturbation theory.</li> </ul>
Electromagnetic Theory	<ul style="list-style-type: none"> <li>• Understand electric and magnetic fields. Apply the principles of Coulomb's Law and Gauss's law to electric fields in various coordinate systems.</li> <li>• Attain the knowledge of physical interpretation and the ability to apply Maxwell's equation to determine field waves.</li> <li>• Develop the skill of measuring voltage induced by time varying magnetic flux.</li> </ul>
Statistical Mechanics	<ul style="list-style-type: none"> <li>• Understand the fundamentals of thermodynamics, laws of thermodynamics, thermodynamic potentrode, etc.</li> <li>• Able to deal systematically with complete Classical and two types of quantum statistics explaining fully the basic properties of Statistical Mechanics.</li> <li>• Explain the classical and quantum theories of specific heat of solids and gases.</li> <li>• Understand about the phase transitions. Attains complete idea about the physical properties during phase transition.</li> </ul>

Research Methodology	<ul style="list-style-type: none"> <li>Identify and discuss the complex issues inherent in selecting a research problem.</li> <li>Selecting an appropriate research design, and implementing a research project. Attains the skill of writing the thesis.</li> <li>Develops the skill of using the origin and Latex software.</li> </ul>
Practical V:Advanced Experiments I	<ul style="list-style-type: none"> <li>Develop the skill to find the magnetic susceptibility of the given sample . Ability to determine the young's modulus, bulk modulus and rigidity modulus of the given material using elliptical fringes.</li> <li>Develops the skill of forming the equipotential lines and to determine the electric field between the lines.</li> <li>Ability to determine the temperature coefficient of forward biased diode. Undergo characteristic study on photodiode.</li> <li>Calibrate hall probe into gauss meter.</li> </ul>
Practical VI:Microprocessor Experiments	<ul style="list-style-type: none"> <li>Develop skill in the arithmetic operation and data manipulation.Design interfacing circuits with 8085.</li> <li>Design and implement 8051 microcontroller based systems</li> <li>. To Understand the concepts related to I/O and memory interfacing.</li> </ul>
Field work	<ul style="list-style-type: none"> <li>On visiting an industry the students gain deep knowledge on the construction, working and application of the whole system</li> </ul>
Quantum MechanicsII	<ul style="list-style-type: none"> <li>Understand the approximation methods for time-independent problems to solve Schrodinger equation.</li> <li>Attains the knowledge of Theory of scattering and calculation of scattering cross section, optical theorem ,Born and Elkonal approximation, partial wave analysis etc.</li> <li>Understand the Theory of identical particles and effects of spin on energy states. Develops the skill of solving the equation of motion, brackets and various symmetries.</li> <li>Understand the Relativistic Quantum Mechanics using Dirac equation, Dirac matrices etc.</li> </ul>
<ul style="list-style-type: none"> <li>Spectroscopy</li> </ul>	<ul style="list-style-type: none"> <li>Learn the origin of spectrum and spectroscopy.</li> <li>Understand the existence of various EM waves and their related spectra.</li> <li>Understand the concept of IR, UV and Resonance spectra. Analyse different spectra of NMR, XPS and Raman.</li> <li>Acquire the skill of interpreting several types of spectra in real time experiment.</li> </ul>
Nuclear & Particle Physics	<ul style="list-style-type: none"> <li>Have a basic knowledge of nuclear size ,shape , bindingenergy.etc and also the characteristics of nuclear force in detail. be able to gain knowledge about various nuclear models and potentials associated.</li> <li>acquire knowledge about nuclear decay processes and their outcomes</li> <li>. Have a wide understanding regarding beta and gamma decay. Grasp knowledge about Nuclear reactions, Fission and Fusion and their characteristics.</li> <li>understand the basic forces in nature and classification of particles and study in detail conservations laws and quark models in detail.</li> </ul>

Renewable Energy Sources	<ul style="list-style-type: none"> <li>Gains the knowledge of various renewable energy sources available in the nature. They understand the availability and utility of the resources.</li> </ul>
Practical VII: Advanced Physics Experiments II	<ul style="list-style-type: none"> <li>To gain practical knowledge to determine temperature co-efficient and band gap using Carey Foster bridge.</li> <li>To learn more about Hall effect. Understand the principle of four probe and its application.</li> <li>To develop the skill in ultrasonic diffraction. Understand about two probe and its applications.</li> </ul>
Practical VIII: C++ Programming	<ul style="list-style-type: none"> <li>Know the basics of programming in C++ and write simple programs. Describe the principle of Object oriented Programming.</li> <li>Develop programs using functions, Classes, operator overloading and inheritance</li> </ul>
<ul style="list-style-type: none"> <li>Project</li> </ul>	<ul style="list-style-type: none"> <li>Develop the skill in finding the problem and analysing the data and find the solution. They also get the basic for the research.</li> </ul>

### Department of Chemistry

COURSES	OUTCOMES
Poetry Grammar Prose Literature Short Stories Literary History	<ul style="list-style-type: none"> <li>Knowing the literary creators and works of the time and creating new works.</li> <li>Understanding the basics of language.</li> <li>Knowing the ancient cultural customs of the classical language.</li> <li>Assuming solutions to social problems and issues.</li> <li>Understanding the Origin and Development of Decimal Types.</li> </ul>
Malayala Kavitha	<ul style="list-style-type: none"> <li>We were able to understand different branches of poetry which deals with numerous social subjects</li> <li>Poetry helps to build a very deep knowledge about today's social conditions.</li> </ul>
Communicative English I	<ul style="list-style-type: none"> <li>To enhance the communicative skills of students.</li> <li>To enrich the knowledge of students in grammar usage.</li> <li>To simulate real life situations in the classroom to practice real English dialogues and speeches to gain English language fluency</li> <li>To build up the learners confidence in oral and interpersonal communication</li> </ul>
Inorganic Chemistry I	<ul style="list-style-type: none"> <li>To improve the level of understanding of the chemistry of organometallic compounds, metal carbonyls and metal clusters.</li> </ul>



	<ul style="list-style-type: none"> <li>To impart essential theoretical knowledge on atomic structure, periodic properties, chemical bonding, and nuclear chemistry.</li> </ul>
Professional English I	<ul style="list-style-type: none"> <li>To improve the level of understanding of Grammar and also how to use grammar in their comprehensions by using number of practices.</li> </ul>
Allied Physics I	<ul style="list-style-type: none"> <li>To understand the basics of Physical Science and study about the measurements using various systems.</li> </ul>
Environmental Science	<ul style="list-style-type: none"> <li>To understand how nature helps the mankind and helps to understand the effects of nature.</li> </ul>
Major practical	<ul style="list-style-type: none"> <li>To improve the practical skills of students in systematic manner.</li> </ul>
Allied Practical	<ul style="list-style-type: none"> <li>To improve the practical skills of students and also now about the connections of circuits using various experiments.</li> </ul>
Poetry Grammer Prose Literature Life History Literary History	<ul style="list-style-type: none"> <li>Announcement of devotional norms through religious literature.</li> <li>Practice writing letters expressing the language structure.</li> <li>Expressing moral thoughts through the texts of justice.</li> <li>Teaching and directing the biographies of the saints.</li> <li>Introducing literature created by religions.</li> </ul>
GhadyaSahithyam	<ul style="list-style-type: none"> <li>The autobiographical study of different famous personalities ,the students were able to generate several good qualities.with the study of BasheersBalyakalaskhi Students were able to understand a lot more abiuot cultural practices of our society.</li> </ul>
Communicative English II	<ul style="list-style-type: none"> <li>Helps to improve practical usage of English Grammar.</li> <li>To help students overcome their fear and to speak in English in front of their peers and teachers.</li> <li>To build students self-confidence through various classroom activities</li> </ul>
Physical ChemistryI	<ul style="list-style-type: none"> <li>To provide an insight into the characteristics of different types of solutions and electrochemical phenomena.</li> <li>To learn ionic equilibria and electrical properties of ions in solution.</li> <li>To learn the concepts of acids and bases, pH and buffer solutions.</li> </ul>
Professional English II	<ul style="list-style-type: none"> <li>To improve the level of understanding of Grammar and also how to use different styles of writings, like grammar .</li> </ul>
Allied Physics II	<ul style="list-style-type: none"> <li>To understand the basics of Physical Science and study about the measurements using various systems and also study about the GATES.</li> </ul>
Value Based Education	<ul style="list-style-type: none"> <li>To improve the students in their personality, know about social issues and also about do's and don't's.</li> </ul>
Major practical II	<ul style="list-style-type: none"> <li>To improve the practical skills of students in systematic manner.</li> </ul>

Allied Practical II	<ul style="list-style-type: none"> <li>To improve the practical skills of students and also now about the connections of circuits using various experiments.</li> </ul>
Poetry Grammer Prose Literature Novel Literary History	<ul style="list-style-type: none"> <li>To know the life history of the ancient Tamils through epics.</li> <li>Promoting the grammatical ability of the consecration team by teaching them the grammer.</li> <li>Sowing literary study ability in the mind of the student.</li> <li>Instruction to live in an honest way.</li> <li>Making history of epics and short stories.</li> </ul>
Dhrisyakala sahithyam	<ul style="list-style-type: none"> <li>Not only watching ,but by studying about movies students were introduced to a new world were they actually allowed to understand about what they are watching on big screen.with the study of different branches of drama students are getting deeper knowledge about it.</li> </ul>
Part II General English	<ul style="list-style-type: none"> <li>To develop Vocabulary and Pronunciation.</li> <li>To understand various styles of writings.</li> <li>To enhance his or her familiarity and fluency with the language considerably.</li> </ul>
Organic Chemistry I	<ul style="list-style-type: none"> <li>The students will understand some fundamental aspects of organic chemistry.</li> <li>To enable the students to understand and study Organic reaction mechanisms.</li> </ul>
Food Chemistry	<ul style="list-style-type: none"> <li>To apply practical skills, technical knowledge in major streams such as chemistry, manufacturing, processing, and to application areas in food industries.</li> </ul>
Allied Maths/ Zoology	<ul style="list-style-type: none"> <li>To make the students thorough about various topics from other departments.</li> </ul>
NME Tamil/ Bee keeping	<ul style="list-style-type: none"> <li>To encourage the students to study the basics of Tamil.</li> <li>To make the students aware about how honey bees are farmed for cultivating honey &amp; scope of bee keeping.</li> </ul>
Major Practical III	<ul style="list-style-type: none"> <li>To study about the compositon of various salts in mixtures of inorganic salts.</li> </ul>
Poetry Grammer Prose Literature Drama Literary History	<ul style="list-style-type: none"> <li>To know the culture of the ancient Tamils.</li> <li>Teaching subject grammer for biology.</li> <li>Teaching biological virtues through literature.</li> <li>Motivation to create plays centered on historical backgrounds.</li> <li>To know the history and individual features of Sangam literature.</li> </ul>
Vaarthamadhyamanga l(journalisam)	<ul style="list-style-type: none"> <li>By the study of jouranalism students were taken to a new path of their career.</li> </ul>
Part II General English	<ul style="list-style-type: none"> <li>To develop interest in and appreciation of Literature.</li> <li>To develop confidential communication skill.</li> <li>To learn different styles of writings, like prose, poetry and fiction.</li> </ul>

	<ul style="list-style-type: none"> <li>To understand practical usage of English Grammar.</li> </ul>
Physical ChemistryII	<ul style="list-style-type: none"> <li>To provide an insight into the characteristics of different types of solutions and electrochemical phenomena.</li> <li>To learn the concepts of thermodynamics.</li> </ul>
Chemistry in Medicine	<ul style="list-style-type: none"> <li>To make the students aware of chemicals used for manufacturing medicines and its effects, uses, manufacturing techniques etc.</li> </ul>
Allied Maths/ Zoology	<ul style="list-style-type: none"> <li>To make the students thorough about various topics from other departments.</li> </ul>
NME Tamil/ Public Health & Hygiene	<ul style="list-style-type: none"> <li>To encourage the students to study the basics of Tamil.</li> <li>To make the students aware about hygienic conditions.</li> </ul>
Major Practical IV	<ul style="list-style-type: none"> <li>To study about the composition of various salts in mixtures of inorganic salts.</li> </ul>
Organic Chemistry II	<ul style="list-style-type: none"> <li>To impart the students a thorough knowledge about the various mechanisms of groups.</li> </ul>
Physical ChemistryIII	<ul style="list-style-type: none"> <li>To provide an insight into the characteristics of different types of solutions and electrochemical phenomena. To learn ionic equilibria and electrical properties of ions in solution.</li> <li>To learn the concepts of acids and bases, pH and buffer solutions.</li> </ul>
Polymer Chemistry	<ul style="list-style-type: none"> <li>Explain the basics of polymers, helps to study the preparation and properties of polymers, its uses.</li> </ul>
Inorganic chemistry II	<ul style="list-style-type: none"> <li>To study various bioinorganic complexes and its applications.</li> <li>To study the mechanisms of various complex and determine the geometry of complex.</li> </ul>
Organic Chemistry III	<ul style="list-style-type: none"> <li>To study various mechanisms of organic molecules. To impact the study of heterocyclic compounds.</li> </ul>
Physical Chemistry IV	<ul style="list-style-type: none"> <li>Enable the students to predict the point group of important molecules and to know how they are classified.</li> <li>To get an idea about spectroscopic applications.</li> </ul>
Analytical Chemistry	<ul style="list-style-type: none"> <li>Explain the fundamentals of analytical chemistry and steps of a characteristic analysis.</li> <li>Compare qualitative and quantitative analyses.</li> <li>Expresses the quantitative analysis methods and qualitative analysis methods.</li> </ul>
Green Chemistry	<ul style="list-style-type: none"> <li>Students learn the basic principles of green and sustainable chemistry. They must be able to do and understand stoichiometric calculations and relate them to green process metrics.</li> </ul>

	<ul style="list-style-type: none"> <li>• They learn alternative solvent media and energy sources for chemical processes.</li> </ul>
Personality Development	<ul style="list-style-type: none"> <li>• To improve the personality of students and also get idea about how to face interviews .</li> </ul>
Organic Analysis Practical	<ul style="list-style-type: none"> <li>• To find various functional groups of organic salts.</li> </ul>
Gravimetric Estimation and Preparation	<ul style="list-style-type: none"> <li>• To prepare various inorganic complexes and also study about the amount of complex formed.</li> </ul>
Physical Chemistry Practical	<ul style="list-style-type: none"> <li>• To study about conductometric titrations, heat of solution and various kinetic studies.</li> </ul>
Project	<ul style="list-style-type: none"> <li>• This course is designed to reinforce the concepts with analytical techniques.</li> <li>• It provides a platform for students to have a hands-on experience with instruments and present a project report on a research topic.</li> </ul>
<b>M.Sc. Chemistry</b>	
Aromaticity and Organic reactions	<ul style="list-style-type: none"> <li>• To impart the students a thorough knowledge about the mechanisms of reactions of some selected functional groups in organic compounds and also to give an outline of applied organic chemistry and the applications of organic chemistry in various spheres of chemical sciences</li> </ul>
Fundamentals of Inorganic Chemistry, Nuclear Chemistry and Inorganic Polymers	<ul style="list-style-type: none"> <li>• To understand the functions and applications of bioorganic compounds .</li> <li>• To gave a basic idea about nuclear Chemistry and its applications.To impart the knowledge about the preparation of inorganic polymers.</li> </ul>
Quantum mechanics and Spectroscopy-I	<ul style="list-style-type: none"> <li>• understand the relationship between the energy levels obtained as solutions to the time-independent Schrödinger equation and measurements made using spectroscopic method</li> <li>• to use spectroscopic measurements as supporting evidence for the validity of models and in some cases their shortcomings.</li> </ul>
Forensic Chemistry	<ul style="list-style-type: none"> <li>• forensic science program is to develop professional, ethical graduates whose competence in problem-solving, legal analysis and application, quantitative reasoning, investigation and scientific laboratory procedures can be applied to advanced study.</li> </ul>

Organic Chemistry Practical I	<ul style="list-style-type: none"> <li>To introduce the students to have hands on experience to perform various reactions.</li> <li>The students can Separate and characterize the two component mixtures.</li> </ul>
Inorganic Chemistry Practical I	<ul style="list-style-type: none"> <li>To learn the principles and methods of qualitative analysis of familiar and less familiar cations present in a mixture.</li> <li>To identify the methodology to analyze qualitatively a metal ion in the presence of another metal ion.</li> </ul>
Physical Chemistry Practical I	<ul style="list-style-type: none"> <li>To learn the Principles of Conductometric Titrations.</li> <li>To understand the Principles of Thermometry.</li> </ul>
StereoChemistry, Organic reagents and Photochemistry	<ul style="list-style-type: none"> <li>To give an elementary idea of RS notations and how to apply in organic compounds, Usage of organic reagents and how photo chemical reactions are carried out with compound.</li> </ul>
Electrochemistry and Spectroscopy II	<ul style="list-style-type: none"> <li>To impart a thorough knowledge of the fundamentals of microwave, infra red, Raman, electronic and magnetic resonance spectroscopy, mass spectrometry</li> </ul>
Nanoscience and Technology	<ul style="list-style-type: none"> <li>To determine the nanotechnology and actual working areas and applications.</li> <li>Can distinguish between nanomaterials depending on their technological applications, knows which properties of materials must possess depending on application and can recognizes new nanomaterials.</li> </ul>
Coordination Compounds and Solid state Chemistry	<ul style="list-style-type: none"> <li>To know the nature of metal-ligand bond and to study various theories of bonding in coordination compounds. To study the stability, chemical reactions and magnetic properties of coordination compounds.</li> <li>To study the crystal structures, defects in solid crystals, band theory of solids and super conductors..</li> </ul>
Organic Chemistry Practical II	<ul style="list-style-type: none"> <li>To enable the students to develop analytical skill in organic quantitative analysis.</li> <li>To understand the techniques involved in the preparation of standard solutions, standardization and calculations in the estimations of compounds.</li> </ul>

	<ul style="list-style-type: none"> <li>To develop preparative skills in organic preparations.</li> </ul>
Inorganic Chemistry Practical II	<ul style="list-style-type: none"> <li>To understand the principles and various analytical methods of quantitative analysis of cations present in a mixture.</li> <li>To improve the skill in quantitative estimation of metal ions by complexometric titration.</li> <li>To understand the preparation and analysis of coordination complexes.</li> </ul>
Physical Chemistry Practical II	<ul style="list-style-type: none"> <li>To motivate the students to understand the principles of conductometric titrations and Distribution law.</li> <li>To understand the Principles and applications of Thermometry.</li> </ul>
Organic Spectroscopy and rearrangements.	<ul style="list-style-type: none"> <li>To study the concept of UV,IR, NMR spectroscopy and their applications in organic systems.</li> <li>To interpret the spectral data of organic molecules.</li> <li>To understand the mechanism of rearrangement reactions.</li> </ul>
Spectral methods I and Organometallic and analytical methods.	<ul style="list-style-type: none"> <li>To study the applications of electronic and photoelectronic spectroscopic techniques in coordination compounds.</li> <li>To study the applications of ORD and CD to determine absolute configuration of chelate complexes.</li> <li>To understand the basic principles of thermo and spectro analytical techniques.</li> </ul>
Group theory and Chemical thermodynamics.	<ul style="list-style-type: none"> <li>To understand the basic concepts of group theory.</li> <li>To apply the concepts of statistical thermodynamics for the study of equilibrium reactions and reaction rates.</li> <li>To understand the interlinking of Quantum chemistry and statistical thermodynamics.</li> </ul>
Scientific research methodology	<ul style="list-style-type: none"> <li>To introduce scientific research and to learn the survey of literature, chemical abstract, choosing a research problem.</li> <li>To learn plagiarism and intellectual property rights.</li> </ul>
Organic Chemistry Practical III	<ul style="list-style-type: none"> <li>To enable the student to develop analytical skill in organic quantitative analysis.</li> <li>To enable the students to understand the mechanism involved in two stage organic preparations.</li> </ul>
Inorganic Chemistry Practical III	<ul style="list-style-type: none"> <li>To identify the methodology to separate and estimate mixture of metal ions quantitatively.</li> </ul>

	<ul style="list-style-type: none"> <li>To understand the principles for volumetric and gravimetric methods of estimation of cations present in a mixture.</li> </ul>
Physical Chemistry Practical III	<ul style="list-style-type: none"> <li>To learn and apply the Principles of Potentiometric Titrations.</li> <li>To understand the Principles and applications of Kinetics and Adsorption.</li> </ul>
Synthetic strategies in Organic Chemistry	<ul style="list-style-type: none"> <li>To study the selected name reactions and synthetic utility of important organic reagents.</li> <li>To understand the concept of retrosynthesis.</li> <li>To study about steroids, vitamins and terpenoids.</li> </ul>
Bioinorganic, Spectral methods II and Photochemistry	<ul style="list-style-type: none"> <li>To introduce bioinorganic chemistry and to study the role of metalloporphyrins and metalloenzymes in biological process.</li> <li>To study the applications of Mossbauer and NQR in inorganic system.</li> <li>To study the applications of NMR and EPR in inorganic system.</li> </ul>
Chemical Kinetics, Photochemistry and Surface Chemistry.	<ul style="list-style-type: none"> <li>To educate the Kinetic theory of Gas.</li> <li>To explain the various concepts of phase rule.</li> <li>To understand the photochemical organic reactions and radiation chemistry reactions.</li> </ul> <p>To understand surface phenomena.</p>
Organic Chemistry Practical IV	<ul style="list-style-type: none"> <li>To enable the student to develop analytical skill in organic quantitative analysis.</li> <li>To enable the students to understand the mechanism involved in two stage organic preparations.</li> </ul>
Computational Software In Chemistry	<ul style="list-style-type: none"> <li>To impart skills on use of various chemistry tools that are essential for any student with chemistry as a major course.</li> <li>To learn the techniques of molecular simulations which will enhance the students employability in academia and industry..</li> </ul>
Project	<ul style="list-style-type: none"> <li>This course is designed to reinforce the concepts with analytical techniques.</li> <li>It provides a platform for students to have a hands-on experience with instruments and present a project report on a research topic.</li> </ul>

**Department of Computer Science**

<b>SUBJECT NAME</b>	<b>COURSE OUTCOME</b>
TAMIL I	<p>CO1: Knowing the literary creators and works of the time and creating new works.</p> <p>CO2: Understanding the basics of language.</p> <p>CO3: Knowing the ancient cultural customs of the classical language.</p> <p>CO4: Assuming solutions to social problems and issues.</p> <p>CO5: Understanding the Origin and Development of Decimal Types.</p>
MALAYALAM I	<p>CO1: The study of early days of Malayalam poetry, origin from Pattu movement to contemporary poetry should be introduced.</p> <p>CO2: The aim is to develop general knowledge about Malayalam poetry.</p> <p>CO3: To Develop ability to appreciate poetry and critical analysis.</p> <p>CO4: By understanding the history of poetry and its growth over time, one can understand the various levels associated with poetical studies and criticism.</p>
COMMUNICATIVE ENGLISH I	<p>CO1: To enhance the communicative skills of students.</p> <p>CO2: To enrich the knowledge of students in grammar usage.</p> <p>CO3: To simulate real life situations in the classroom to practice real English dialogues and speeches to gain English language fluency.</p> <p>CO4: To build up the learner's confidence in oral and interpersonal communication</p>
PROGRAMMING IN C	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To obtain knowledge about the structure of the programming language</p> <p>CO2: To develop the program writing and logical thinking skill.</p> <p>CO3: To summarize statements and arrays</p> <p>CO4: To make use of defined functions</p> <p>CO5: To explain pointers and files</p>
PROGRAMMING IN C (LAB)	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To define the features of C by applying sample problems</p> <p>CO2: To explore skills in implementing algorithms through the programming Language C</p> <p>CO3: To develop array of elements</p> <p>CO4: To evaluate matrices</p> <p>CO5: To develop the programs using pointers and functions</p>



DISCRETE MATHEMATICS	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To recall basic concepts for clear understanding of mathematical principles</p> <p>CO2: To explain practical problems.</p> <p>CO3: To construct matrices using discrete mathematics</p> <p>CO4: To analyze techniques to draw graph using mathematics</p> <p>CO5: To design graphs using the representations</p>
INTRODUCTION TO COMPUTERS	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To gain fundamental knowledge in computer</p> <p>CO2: To characteristic, parts and applications of computers</p> <p>CO3: To know the various devices and familiarize with their functions, to know the usage of internet</p> <p>CO4: To discuss the emerging trends in computer Science</p> <p>CO5: To explain the concepts of Internet</p>
MS OFFICE- (LAB)	<p>CO1: To be able to create, edit, documentation in Office .</p> <p>CO2: To implement Word functions</p> <p>CO3: To design worksheet and do editing</p> <p>CO4: To make use of database and apply the calculation</p> <p>CO5: To create presentation with various functions</p>
TAMIL II	<p>CO1: Announcement of devotional norms through religious literature.</p> <p>CO2: Practice writing letters expressing the language structure.</p> <p>CO3: moral thoughts through the texts of justice.</p> <p>CO4: Teaching and directing the biographies of the saints.</p> <p>CO5: Introducing literature created by religions.</p>
MALAYALAM II	<p>CO1: The outcome of the course is to impart a general understanding of the origin of prose and the various forms of prose literature.</p> <p>CO2: The origin and development of Malayalam Short-Story and Novel should be briefed.</p> <p>CO3: For detailed study a Short-Story &amp; a Novel of famous authors are prescribed.</p> <p>CO4: The change from the early short stories and novel to the present should be introduced.</p> <p>CO5: The teacher should explain the theme, structure and narrative style of the authors in detail.</p> <p>CO6: The development of prose literature should be introduced on the basis of the texts for detailed study.</p>
COMMUNICATIVE ENGLISH II	<p>CO1: Helps to improve practical usage of English Grammar.</p>

	<p>CO2: To help students overcome their fear and to speak in English in front of their peers and teachers.</p> <p>CO3: To build students self-confidence through various classroom activities.</p>
OBJECT ORIENTED PROGRAMMING IN C++	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To define the basic knowledge of object oriented programming concepts</p> <p>CO2: To relate the idea of classes and objects</p> <p>CO3: To analyze and develop constructors and destructors</p> <p>CO4: To design C++ streams, Inheritance, Overloading of operators, functions, constructors, File Handling and templates concepts of C++ programming.</p> <p>CO5: To develop the knowledge about how to work on files</p>
PROGRAMMING IN C++ (LAB)	<p>On Successful completion of the course, the student will be able to define object oriented programming concepts using class and member functions.</p> <p>CO1: To develop overloading operators</p> <p>CO2: To analyze friend function</p> <p>CO3: To gain the knowledge about the importance of constructor</p> <p>CO4: To design C++ virtual functions</p>
LINUX	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To find various Linux commands</p> <p>CO2: To interpret and make effective use of Linux utilities</p> <p>CO3: To construct Shell scripting language to solve problems.</p> <p>CO4: To list shell scripting conditions</p> <p>CO5: To develop Linux communication oriented command</p>
PROGRAMMING IN C (ALLIED)	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To obtain knowledge about the structure of the programming language C</p> <p>CO2: To develop the program writing and logical thinking skill.</p> <p>CO3: To summarize statements and arrays</p> <p>CO4: To make use of defined functions</p> <p>CO5: To explain pointers and files</p>
C PROGRAMMING – LAB	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To define the features of C by applying sample problems</p>

	<p>CO2: To explore skills in implementing algorithms through the programming Language C</p> <p>CO3: To develop array of elements</p> <p>CO4: To evaluate matrices</p> <p>CO5: To develop the programs using pointers and functions</p>
JAVA PROGRAMMING	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To recall the basic concepts of Object Oriented Programming</p> <p>CO2: To apply the tools of Object – Oriented Paradigm in Java programming</p> <p>CO3: To understand the fundamentals of applet, event – drive programming</p> <p>CO4: To analyze the ability to develop Applet programs with tools of Java</p> <p>CO5: To design the skills to develop software.</p>
DIGITAL DESIGN	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To recall the concept of digital systems, to operate on various number systems and simplify Boolean functions and to distinguish logical and combinational circuits.</p> <p>CO2: Illustrate the concept of digital and binary systems</p> <p>CO3: Be able to develop combinational logic circuits.</p> <p>CO4: Be able to design and analyze sequential logic circuits.</p> <p>CO5: Construct and implementation of digital circuits and systems.</p>
JAVA PROGRAMMING LAB	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: Illustrate and make effective use of Java Programming to develop software</p> <p>CO2: Develop Java application programs using OOP principles..</p> <p>CO3: Apply Constructors and Overriding methods</p> <p>CO4: Develop multithreaded programs</p> <p>CO5: To implement error handling techniques using exception handling.</p>
SCRIPTING LANGUAGES	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To understand the basic concepts of HTML and web programming.</p> <p>CO2: To Demonstrate the concepts of scripting languages for developing web-based projects</p> <p>CO3: Ability to compare the differences between scripting languages and programming languages</p> <p>CO4: To understand CSS files HTML Multimedia.</p> <p>CO5: Ability to develop projects using HTML and Web pages.</p>

SCRIPTING LANGUAGES LAB	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To develop knowledge in web-based projects</p> <p>CO2: To demonstrate programming skills in scripting languages.</p> <p>CO3: To construct the skill of designing GUI in scripting languages</p> <p>CO4: To categorize CSS files</p> <p>CO5: To design JavaScript programs</p>
INTRODUCTION TO BIG DATA ANALYTICS	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To make the students understand Big Data Analytics</p> <p>CO2: To explain the various algorithms in Big Data Analytics</p> <p>CO3: To develop Analytic processes</p> <p>CO4: To acquire the knowledge about Machine learning</p> <p>CO5: To build Machine Learning Algorithms</p>
FUNDAMENTALS OF INTERNET AND EMERGING TECHNOLOGIES (NME)	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To recall the background, drivers and history in the invention of computers so that the student gains a big picture of the subject.</p> <p>CO2: To provide a high level understanding various branches of Computer Science so that students can detect their interest and specialization</p> <p>CO3: To identify the computational models such as cloud computing and make students choose one for their use</p> <p>CO4: To Understand the Artificial Intelligence technologies, Networks and Cyber security and its impact on human life in future</p> <p>CO5: Elaborate Computer Ethics and help the society retain human values while technology is developing</p>
BASIC PROGRAMMING DESIGN	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: Define the basic design in programming</p> <p>CO2: Summarize various techniques in program testing</p> <p>CO3: To develop and evaluate Programming Languages</p> <p>CO4: To analyze computer hardware and software programs</p> <p>CO5: To evaluate the Internet Applications</p>
DATA STRUCTURES	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To understand the concepts of basic data structures.</p> <p>CO2: To acquire the knowledge about stack, Queues and Linked list.</p> <p>CO3: To have general understanding of the network structures through trees and graph.</p> <p>CO4: To make the students to understand the basic algorithms for sorting.</p>

	CO5: Define data structure Algorithms
COMPUTER ARCHITECTURE	On Successful completion of the course, the student will be able to CO1: Understand the basics of Computers and its Organization CO2: Know the various Technologies behind the Computer Architecture CO3: An ability to apply knowledge about hardware implementation and algorithms CO4: To evaluate various input output organizations CO5: To develop the architecture using various memories
MACHINE LEARNING TEQUINQUES	On Successful completion of the course, the student will be able to CO1: To introduce students to the basic concepts of Machine Learning. CO2: To acquire various techniques in Machine learning. CO3: To have a thorough understanding of the Supervised and Unsupervised learning techniques CO4: To study the probability based learning techniques CO5: To understand graphical models of machine learning algorithms
DATA STRUCTURE LAB	On Successful completion of the course, the student will be able to CO1: To develop skills in implementing sort and search data structure algorithms CO2: To implement queue and stack techniques CO3: To design tree traversals CO4: To implement binary search tree CO5: To Compile sorting algorithms
PYTHON-LAB	On Successful completion of the course, the student will be able to CO1: To understand the basic concepts in python CO2: To understand the concepts and develop python programs CO3: To acquire the knowledge about menu driven programs CO4: To improve the knowledge in CSV files CO5: To understand the functions of python
Green foot Lab	On Successful completion of the course, the student will be able to CO1: To know about the various Applications of Multimedia. CO2: To develop two- dimensional graphical applications CO3: To design multimedia animations CO4: To know the knowledge about video works in multimedia applications CO5: To implement interactive games.
HTML	On Successful completion of the course, the student will be able to

	<p>CO1: To recall the basic concepts of Web design using HTML.</p> <p>CO2: To learn the various tags used in HTML</p> <p>CO3: To make use of Dynamic HTML</p> <p>CO4: To compare the lists in HTML</p> <p>CO5: To build Frames</p>
PROGRAMMING IN C	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To define the structure of the programming language C</p> <p>CO2: To explain the program writing and logical thinking skill.</p> <p>CO3: An ability to incorporate exception handling in OOP</p> <p>CO4: An ability to develop overloading operators</p> <p>CO5: To compare the difference between function overloading and function overriding</p>
RELATIONAL DATABASE MANAGEMENT SYSTEM	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To outline relational database concepts</p> <p>CO2: To relate transaction management concepts in database system.</p> <p>CO3: To utilize Normalizations techniques</p> <p>CO4: To write SQL programs that use: procedure, function, package, cursor and Exceptions.</p> <p>CO5: To Use current techniques and tools necessary for complex computing practices.</p>
DATA COMMUNICATION AND COMPUTER NETWORKS	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To define the concepts in Computer Network and Data Communication</p> <p>CO2: To outline the various protocols used in network</p> <p>CO3: To compare OSI Layers in Computer networks</p> <p>CO4: To list about Switching Techniques</p> <p>CO5: To discuss wireless LAN's</p>
Core PHP and mySQL	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To define and use open source database management system MySQL</p> <p>CO2: To explain dynamic web pages and websites.</p> <p>CO3: To identify web pages with database.</p> <p>CO4: To compare the concepts of open sources</p> <p>CO5: To assess the knowledge about Arrays</p>
PHP Lab	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To develop knowledge about basic PHP Programs.</p> <p>CO2: To evaluate PHP scripts and functions</p> <p>CO3: To develop arrays in PHP</p> <p>CO4: To design loops in PHP</p> <p>CO5: To compare the scripts and functions in PHP</p>

Machine learning Practical	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: Apply the concepts and practical knowledge in analysis, design and Development of computing systems</p> <p>CO2: To make use of applications to multidisciplinary problems.</p> <p>CO3: To discuss the knowledge about various algorithms</p> <p>CO4: To interpret the knowledge about various datasets</p> <p>CO5: Develop data frames in Machine Learning</p>
MOBILE APPLICATION DEVELOPMENT	<p>CO1: To recall the basics, field of computing sciences and Multidisciplinary of Mobile Applications</p> <p>CO2: To build interactive applications</p> <p>CO3: To develop multiple activities and indent in mobile applications</p> <p>CO4: To understand Fragments of mobile application development</p> <p>CO5: To develop mobile application development using Sqlite Database</p>
INTRODUCTION TO SECURITY IN COMPUTING	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To relate the concepts of basic concepts in security in computing</p> <p>CO2: To explain about the various encryption and decryption security algorithms</p> <p>CO3: To enquire Number theory and key algorithms</p> <p>CO4: To list the authentication</p> <p>CO5: To identify the intruder of security in computing</p>
CLOUD COMPUTING	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To understand the History of cloud computing</p> <p>CO2: To know in detail about the various Cloud Computing concepts</p> <p>CO3: To enquire cloud computing Architecture</p> <p>CO4: To understand SOA components</p> <p>CO5: To know about cloud security and privacy</p>
OPERATING SYSTEM	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To acquire the fundamental knowledge of the operating system architecture and components and to know the various operations performed by the operating system.</p> <p>CO2: Understand the basic working process of an operating system.</p> <p>CO3: Understand the importance of process and scheduling.</p> <p>CO4: To explain the issues in synchronization and memory management.</p> <p>CO5: To discuss about mass storage structures</p>
SOFTWARE ENGINEERING AND TESTING	<p>On Successful completion of the course, the student will be able to</p>

	<p>CO1: To define the fundamental knowledge of Software Engineering</p> <p>CO2: To classify the various testing methods.</p> <p>CO3: To analyze various software life cycle models</p> <p>CO4: To interpret User Interface design</p> <p>CO5: To select software project managements</p>
COMPUTER GRAPHICS AND VISUALIZATION	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To understand the overview of the graphics visualization</p> <p>CO2: To acquire the fundamental knowledge of Computer Graphics and Visualization.</p> <p>CO3: To understand the Algorithms in Computer Graphics</p> <p>CO4: To acquire the transformation technique in Graphics</p> <p>CO5: To understand the Interactive methods easily</p>
INTRODUCTION TO DIGITAL IMAGE PROCESSING	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To define the fundamental knowledge of introduction to Digital Image Processing.</p> <p>CO2: To explain the features present in Digital Image Processing.</p> <p>CO3: To outline the enhancement of spatial domain</p> <p>CO4: To analyze the color Image processing</p> <p>CO5: To interpret the image using compression</p>
COMPUTER GRAPHICS LAB	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To illustrate skills in programming computer graphics</p> <p>CO2: To apply multimedia concepts</p> <p>CO3: To compile the algorithms to draw line, circle etc</p> <p>CO4: To develop image using Scaling, Rotating and translation technique</p> <p>CO5: To demonstrate the image using random and bouncing balls</p>
DIGITAL IMAGE PROCESSING USING SCILAB	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To get knowledge about the basic programs on Digital Image Processing</p> <p>CO2: To acquire the knowledge from Thresholding Technique</p> <p>CO3: To read the colour image and separate the planes</p> <p>CO4: To perform the brightness of th image</p> <p>CO5: To manipulate the contrast image</p>
INTERNET OF THINGS	<p>On Successful completion of the course, the student will be able to</p> <p>CO1: To define the fundamentals of IOT</p>



	<p>CO2: To outline about IOT working  CO3: To discuss the Architecture of IOT  CO4: To outline how IOT is used in Education and Agricultural level  CO5: To explain security in IOT</p>
<p>INFORMATION TECHNOLOGY  SERVICE MANAGEMENT</p>	<p>On Successful completion of the course, the student will be able to  CO1: To make the students recall the various Information Technology Services  CO2: To make them identify the working principles  CO3: To explain the layers of software and Infrastructure  CO4: To interpret the problems in Information Technology  CO5: To discuss the framework of information Technology service management</p>
<p>NEURAL NETWORKS</p>	<p>On Successful completion of the course, the student will be able to  CO1: To recall the Historical Development of Neural Networks.  CO2: To compare Basic neuron models: McCulloch-Pitts model and the generalized one, distance or similarity based neuron model, radial basis function model, etc  CO3: To discuss Basic neural network models: multilayer perception, distance or similarity based neural networks, associative memory and selforganizing feature map, radial basis function based multilayer perception, neural network decision trees, etc.  CO4: To evaluate Basic learning algorithms: the delta learning rule, the back propagation algorithm, self-organization learning  CO5: To discuss the Applications: pattern recognition, function approximation, information visualization, etc.</p>

**MSc Computer science**

<b>SUBJECT NAME</b>	<b>COURSE OUTCOME</b>
DESIGN AND ANALYSIS OF ALGORITHMS	<p>After the completion of this course, student will be able to</p> <ul style="list-style-type: none"> <li>CO1: Identify the Characteristics of an algorithm</li> <li>CO2: Understand the problem-solving approaches using computers</li> <li>CO3: Compute the time complexity of an algorithm</li> <li>CO4: Analyze the performance of an algorithm in solving a problem</li> <li>CO5: Compare the performance of various algorithms in solving a specific-problem</li> <li>CO6: Develop algorithms for solving real-time problems</li> </ul>
ADVANCED JAVA PROGRAMMING	<p>At the end of the Course, the student will be able to</p> <ul style="list-style-type: none"> <li>CO1: Understand swing components and its usage.</li> <li>CO2: Implement Networking and Data base connectivity in Java for given application.</li> <li>CO3: Implement webpage with dynamic content and server side web application using Servlet and JSP.</li> <li>CO4: Develop Java application using spring framework.</li> </ul>
MATHEMATICAL FOUNDATION FOR COMPUTER SCIENCE	<p>After the completion of this course, student will be able to</p> <ul style="list-style-type: none"> <li>CO1: Evaluate the validity of logical arguments and construct mathematical proofs</li> <li>CO2: administer all the basic operations with sets</li> <li>CO3: understand abstract algebraic structure like groups and their properties</li> <li>CO4: Analyze whether given graphs are isomorphic and apply different algorithms to find the shortest path Apply Mathematical techniques into many areas of Computer science like Algorithms, Computer Networks, and Cryptography etc.</li> <li>CO5: Apply Mathematical techniques into many areas of Computer science like Algorithms, Computer Networks, and Cryptography etc.</li> </ul>
COMPILER DESIGN	<ul style="list-style-type: none"> <li>CO1: Understand the different phases of compiler.</li> <li>CO2: Design a lexical analyzer for a sample language.</li> <li>CO3: Apply different parsing algorithms to develop the parsers for a given Grammar.</li> </ul>

	<p>C04: Understand syntax-directed translation and run-time environment.</p> <p>C05: Learn to implement code optimization techniques and a simple code Generator.</p> <p>C06: Design and implement a scanner and a parser using LEX and YACC tools</p>
DISTRIBUTED OPERATING SYSTEM	<p>After the completion of this course, student will be able to</p> <p>CO1: Gain knowledge about the history of the Linux operating system, its unique licensing model and the major distributions that are available to use</p> <p>CO2: start and stop services from running in the Linux operating systems.</p> <p>CO3: Implement process scheduling algorithms</p> <p>CO4: Learn to manage files and directories in the Linux operating system</p> <p>CO5: To use the Linux environment for problem solving</p>
ALGORITHM LAB (USE C++/JAVA)	<p>At the end of the Course, the student will be able to</p> <p>– CO: Implement algorithms for solving real-time problems</p>
ADVANCED JAVA LAB	<p>At the end of the Course, the student will be able to</p> <p>CO1: Understand swing components and its usage.</p> <p>CO2: Implement Networking and Data base connectivity in Java for given application.</p> <p>CO3: Implement webpage with dynamic content and server side web application using Servlet and JSP.</p> <p>CO4: Develop Java application using spring framework.</p>
ADVANCED WEB TECHNOLOGY	<p>CO1: Design a webpage with Web form fundamentals and web control classes</p> <p>CO2: Recognize the importance of validation control, cookies and session</p> <p>CO3: Apply the knowledge of ASP.NET object, ADO.NET data access and SQL to develop a client server model.</p> <p>CO4: Recognize the difference between Data list and Data grid controls in accessing data</p>
MACHINE LEARNING	<p>CO1: Have a good understanding of the fundamental issues and challenges of machine learning: data, model selection, model complexity, etc.</p> <p>CO2: Have an understanding of the strengths and weaknesses of many popular machine learning approaches.</p> <p>CO3: Appreciate the underlying mathematical relationships within and across Machine Learning algorithms and the paradigms of supervised and un-supervised learning.</p>

	<p>CO4: Have an understanding of the strengths and weaknesses of many popular machine learning approaches.</p> <p>CO5: Be able to design and implement various machine learning algorithms in a range of real-world applications.</p>
ADVANCED DBMS	<p>CO1: Recognize the importance of Various Data models and Architecture</p> <p>CO2: Analyze and Design the normalized database schema</p> <p>CO3: Decide the database for his problem</p> <p>CO4: Develop database solutions</p> <p>CO5: Write database queries in SQL, PL SQL and NoSQ</p>
CRYPTOGRAPHY AND NETWORK SECURITY	<p>CO1: Understand the fundamentals of networks security, security architecture, threats and vulnerabilities</p> <p>CO2: Apply the different cryptographic operations of symmetric/asymmetric cryptographic algorithms.</p> <p>CO3: Analyze various authentication protocols and apply them in real time.</p> <p>CO4: Analyze the security threats and study the various countermeasures.</p> <p>CO5: Identify the applications of network security in various fields.</p> <p>CO6: Design and Develop a security model.</p>
FREE OPEN SOURCE SOFTWARE	<p>CO1: Ability to use various Linux commands that are used to manipulate system operations at admin level and a prerequisite to pursue job as a Network administrator.</p> <p>CO2: Ability to write Shell Programming using Linux commands.</p> <p>CO3: Ability to design and write application to manipulate internal kernel level Linux File System.</p> <p>CO4: Develop algorithmic solutions to simple computational problems Read, write, execute by hand simple Python programs.</p> <p>CO5: Structure simple Python programs for solving problems.</p> <p>CO6: Decompose a Python program into functions</p>
DATA MINING (Elective)	<p>CO1: To evaluate various mining techniques on complex data objects</p> <p>CO2: To develop applications using Data Mining Tools.</p> <p>CO3: To develop ability to design various algorithms based on data mining tools.</p> <p>CO4: To develop further interest in research and design of new Data Mining techniques</p>

<p>DATA SCIENCE &amp; BIG DATA ANALYTICS</p>	<p>CO1: Work with big data tools and its analysis techniques  CO2: Design efficient algorithms for mining the data from large volumes  CO3: Design an efficient recommendation system  CO4: Design the tools for visualization  CO5: Learn NoSQL databases and management.</p>
<p>ADVANCED WEB TECHNOLOGY LAB</p>	<p>CO1: Design a webpage with Web form fundamentals and web control classes  CO2: Recognize the importance of validation control, cookies and session  CO3: Apply the knowledge of ASP.NET object, ADO.NET data access and SQL to develop a client server model.  CO4: Recognize the difference between Data list and Data grid controls in accessing data</p>
<p>MACHINE LEARNING LAB USING PYTHON</p>	<p>CO1: To learn to use Weka tool for implementing machine learning algorithms related to numeric data  CO2: To learn the application of machine learning algorithms for text data  CO3: To use dimensionality reduction algorithms for image processing applications  CO4: To apply CRFs in text processing applications  CO5: To use fundamental and advanced neural network algorithms for solving real-world data</p>
<p>DIGITAL IMAGE PROCESSING</p>	<p>CO1: Review the fundamental concepts of a digital image processing system and Analyze images in the frequency domain using various transforms.  CO2: Evaluate the techniques for image enhancement and image restoration. Categorize various compression techniques.  CO3: Interpret Image compression standards, and Interpret image segmentation and representation techniques  CO4: Gain idea to process various image used in various fields such as weather forecasting  CO5: Diagnosis of various disease using image such as tumor, cancer etc</p>
<p>SOFT COMPUTING</p>	<p>At the end of this course, the students should able to:  CO1: To understand the fundamental theory and concepts of neural networks, Identify different neural network architectures, algorithms, applications and their limitations.  CO2: Comprehend the fuzzy logic and the concept of fuzziness Involved in various systems and fuzzy set theory.</p>

	<p>CO3: Understand the concept soft fuzzy sets, knowledge representation using fuzzy rules, approximate reasoning, fuzzy inference systems, and fuzzy logic.</p> <p>CO4: Understand appropriate learning rules for each of the architectures and learn several Genetic algorithms paradigms and its applications</p>
ADVANCED COMPUTER NETWORKS	<p>After completion of this course, students will be able to</p> <p>CO1: Understand fundamental underlying principles of computer networking</p> <p>CO2: Understand details and functionality of layered network architecture.</p> <p>CO3: Apply mathematical foundations to solve computational problems in computer networking</p> <p>CO4: Analyze performance of various communication protocols.</p> <p>CO5: Compare routing algorithms CO6: Practice packet /file transmission between nodes.</p>
RESEARCH METHODOLOGY	<p>CO1: Ability to apply different research approaches and methodologies</p> <p>CO2: Develop data collection instrument according to the underlying theoretical framework.</p> <p>CO3: Analyze quantitative data and qualitative data using software packages</p> <p>CO4: Construct and document an appropriate research design</p> <p>CO5: Discuss limitations and potential contribution to theory and practice of research</p> <p>CO6: Effectively apply the appropriate computer tools in each stage of research</p> <p>CO7: Ability to perform ICT based Teaching Methods</p>
CLOUD COMPUTING	<p>At the end of the course, the student will be able to</p> <p>CO1: Interpret the key dimensions of the challenges of Cloud Computing</p> <p>CO2: Examine the economics, financial and technological implications for selecting cloud computing for own organization</p> <p>CO3: Assessing the technological and organizational capacity of employer's for actively initiating and installing cloud-based applications</p> <p>CO4: Evaluate own organizations' needs for capacity building and training in cloud computing-related IT areas</p> <p>CO5: Illustrate Virtualization for Data-Centre Automation</p>
MOBILE COMPUTING	<p>At the end of the course, the student will be able to</p> <p>CO1: Describe what Mobile Computing is and how it works today</p>

	<p>CO2: Recognize the factors that contributed to the emergence of Mobile Computing</p> <p>CO3: Able to Understand different mobile application paradigms</p> <p>CO4: Apply different protocols for mobile communication</p> <p>CO5: Define and identify infrastructure requirement for Mobile Applications</p> <p>CO6: Ability to conceptualize new ideas and present them as intellectual property</p>
OPTIMIZATION TECHNIQUES	<p>At the end of the course, the student will be able to</p> <p>CO1: Recognize the areas of problem solving that needs optimization methods</p> <p>CO2: Describe and develop various optimization algorithms for real-world problems</p> <p>CO3: Apply algorithms for optimizing mathematical problems and interpret results.</p> <p>CO4: Identify appropriate problem solving technique based on problem's nature</p> <p>CO5: Construct scientific research papers and present them in a seminar</p>
DIGITAL IMAGE PROCESSING LAB USING SCILAB	<p>CO1: Able to identify the need for various digital images processing techniques apply them and Analyze deferent types of real world images</p> <p>CO2: Evaluate the techniques for image enhancement and image restoration. Categorize various image compression techniques.</p> <p>CO3: Interpret Image compression standards, and Interpret image segmentation and representation techniques.</p> <p>CO4: Apply various morphological operators for image pre and post processing in specific applications.</p>

**Department of Zoology**

Tamil – Poetry, Grammar, Prose Literature, Short Stories, Literary History	<ul style="list-style-type: none"> <li>• Knowing the literary creators and works of the time and creating new works. Understanding the basics of language.</li> <li>• Knowing the ancient cultural customs of the classical language. Assuming solutions to social problems and issues.</li> <li>• Understanding the Origin and Development of Decimal Types</li> </ul>
Malayalam - Malayala Kavitha	<ul style="list-style-type: none"> <li>• Understand the different branches of poetry which deals with numerous social subjects.</li> <li>• Poetry helps to build a very deep knowledge about today's social conditions.</li> </ul>
Communicative English I	<ul style="list-style-type: none"> <li>• To enhance the communicative skills of students</li> <li>• To enrich the knowledge of students in grammar usage.</li> <li>• To simulate real life situations in the classroom to practice real English dialogues and speeches to gain English language fluency.</li> <li>• To build up the learners confidence in oral and interpersonal communication</li> </ul>
Invertebrata	<ul style="list-style-type: none"> <li>• The diversity and basic taxonomy of non chordates. Interpret the biological status of the animals at basic level in their habitat.</li> </ul>
Practical- Invertebrate	<ul style="list-style-type: none"> <li>• Develop insight and improve their analytical communication and professional skills.</li> <li>• Understanding the morphology and functional characteristics at cellular and sub-cellular (molecular) level.</li> <li>• Enhancing the technical skills for experimental purposes</li> </ul>
Professional English for life sciences –I	<ul style="list-style-type: none"> <li>• Develop the language skill of the students by offering adequate practices in professional contexts. To sharpen the students critical thinking and make the students culturally aware of the target situation.</li> </ul>
Tamil II - Poetry, Grammar, Prose Literature, life history, Literary History	<ul style="list-style-type: none"> <li>• Announcement of devotional norms through religious literature. Practice writing letters expressing the language structure</li> <li>• Expressing moral thoughts through the texts of justice.</li> <li>• Teaching and directing the biographies of the saints. Introducing literature created by religions</li> </ul>
Malayalam- Gadhya Sahithyam	<ul style="list-style-type: none"> <li>• The autobiographical study of different famous personalities the students were able generate several good qualities with the study of Basheer's Balyakalasakhi.</li> <li>• Students were able to understand a lot more about cultural practices of our society.</li> </ul>
Communicative English II	<ul style="list-style-type: none"> <li>• Helps to improve practical usage of English Grammar.</li> <li>• To help students overcome their fear and to speak in front of their peers and teachers.</li> </ul>



	<ul style="list-style-type: none"> <li>To build students self-confidence through various classroom activities.</li> </ul>
Chordata	<ul style="list-style-type: none"> <li>Recall the diversity and basic taxonomy of chordates.</li> <li>Understand and examine the biological systems and evolution of chordates.</li> <li>Analyse and compare the adaptations and their importance in distribution.</li> </ul>
Practical- Chordata	<ul style="list-style-type: none"> <li>Apply their skills for conservation, sustainable development, economical utilization and its potentials in technological prospects.</li> </ul>
Plant physiology, anatomy and biotechnology	<ul style="list-style-type: none"> <li>Apply reasoning informed by the contextual knowledge to assess plant diversity, its importance for society, health, safety, legal and environmental issues and the consequent responsibilities relevant to the biodiversity conservation practice</li> </ul>
Practical- Plant physiology, anatomy and biotechnology	<ul style="list-style-type: none"> <li>Students will be able to identify the major groups of organisms with an emphasis on plants and be able to classify them within a phylogenetic framework.</li> <li>Students will be able to compare and contrast the characteristics of plants, algae, and fungi that differentiate them from each other and from other forms of life.</li> </ul>
Professional English for life sciences –II	<ul style="list-style-type: none"> <li>Enhance the creativity of the students, which will enable them to think of innovative ways to solve issues in the workplace.</li> <li>To help the students with a research bent of mind develop their skill in writing reports and research proposals.</li> </ul>
Tamil III- Poetry, Grammar, Prose Literature, Novel, Literary History	<ul style="list-style-type: none"> <li>To know the life history of the ancient Tamils through epics. Promoting the grammatical ability of the consecration team by teaching them the grammar.</li> <li>Sowing literary study ability in the mind of the student. Instruction to live in an honest way. Making history of eipics and short stories</li> </ul>
Malayalam- Dhrishya kala sahithyam	<ul style="list-style-type: none"> <li>Not only watching, but by studying about movies students were introduced to a new world where they actually allowed to understand about what they are watching on big screen, with the study of different branches of drama students are getting deeper knowledge about</li> </ul>
General English	<ul style="list-style-type: none"> <li>To develop Vocabulary and Pronunciation. To understand various styles of writings. To enhance his or her familiarity and fluency with the language considerably</li> </ul>
Developmental Zoology	<ul style="list-style-type: none"> <li>Know the developmental processes of animals from cellular grade of organization to organ grade of organization.</li> </ul>
Practical- Developmental Zoology	<ul style="list-style-type: none"> <li>Recognise the basic concepts of development stage of animals</li> </ul>

Nutrition and Dietetics	<ul style="list-style-type: none"> <li>The classification and types of nutrients and food stuffs. Understand the nutritive value and metabolism of food materials.</li> </ul>
Tamil IV-Poetry , Grammar, Prose Literature, Drama, Literary History	<ul style="list-style-type: none"> <li>To know the culture of the ancient Tamils Teaching subject grammar for Biology. Teaching Biological virtues through literature.</li> <li>Motivation to create plays centered on historical backgrounds.</li> <li>To know the history and individual features of Sangam literature.</li> </ul>
Malayalam- Vaartha Madhyamangal (Journalism)	<ul style="list-style-type: none"> <li>By the study of journalism students were taken to a new path of their career.</li> </ul>
General English II	<ul style="list-style-type: none"> <li>To develop interest in and appreciation of Literature.</li> <li>To develop confidential communication skill.</li> <li>To learn different styles of writings, like prose, poetry and fiction.</li> <li>To understand practical usage of English Grammar.</li> </ul>
Cell Biology and Biochemistry	<ul style="list-style-type: none"> <li>Understand cell, its biology and origin of cells, diversity and structure and learn the basic differences between prokaryotic and eukaryotic cells and understand the basis of cytological techniques, principle of working and its application of microscope.</li> </ul>
Practical- Cell and Molecular biology	<ul style="list-style-type: none"> <li>The course has been devised to familiarize students with Molecular Biology which chiefly deals with interactions among various systems of the cell, including those between DNA, RNA and proteins and learning how these are regulated.</li> </ul>
Vermitechnology	<ul style="list-style-type: none"> <li>Find out vermicomposting is an eco-friendly, economically and socially acceptable technology. Utilize vermitechnology to improve the soil texture, soil aeration, improve the water retention capacity in the soil.</li> </ul>
Ecology	<ul style="list-style-type: none"> <li>To understand the dynamics of various ecosystem such as marine, freshwater and terrestrial. The interaction and interdependence among environmental factors and living organisms.</li> </ul>
Practical - Ecology	<ul style="list-style-type: none"> <li>This course has been designed to acquaint students with bioresources, their traditional and nontraditional uses, current status and recent developments in value addition and future prospects.</li> </ul>

Genetics	<ul style="list-style-type: none"> <li>Analyse the basic principles of Mendelian inheritance and genetic interaction . Construct chromosome map using crossing over.</li> </ul>
Practical - Genetics	<ul style="list-style-type: none"> <li>The students will able to explain the segregation and assortment of chromosomes during inheritance of characters with colour beads and prove chi-square test.</li> </ul>
Animal Physiology	<ul style="list-style-type: none"> <li>Identify the working mechanisms of effectors, homoeostasis and understand how the animals adapt in the environments. List out the physiological processes in the animals.</li> </ul>
Practical - Animal Physiology	<ul style="list-style-type: none"> <li>Develop a working knowledge of major physiological systems and be able to associate anatomical areas with their specific function.</li> </ul>
Microbiology and Immunology	<ul style="list-style-type: none"> <li>Understand the structure, classification and culture techniques of microbes. Analyse and distinguish food poisoning, food spoilage and preservation methods. Describe the different types of lymphoid organs, antigen- antibody reactions.</li> </ul>
Practical - Microbiology & Immunology	<ul style="list-style-type: none"> <li>The objectives of this laboratory course are to make students develop an understanding about practical aspects of the components of the immune system as well as their function.</li> <li>Basic as well as advanced methods will be taught to detect different antigen and antibody interactions, isolation of different lymphocyte cells etc. and how they can be used in respective research work</li> </ul>
Evolution	<ul style="list-style-type: none"> <li>Understand the origin of life and evidences in favour of evolution. Learn relationship between abiotic and biotic factors adaptation in the view of evolution.</li> <li>Get thorough knowledge of the tree diagram of the evolution of various animals and patterns of distribution.</li> </ul>
Animal Biotechnology	<ul style="list-style-type: none"> <li>Relate the basic principles of recombinant DNA technology. Explain various molecular techniques used in modern biotechnology.</li> </ul>

Practical - Animal biotechnology	<ul style="list-style-type: none"> <li>The objectives of this course are to teach students with various approaches to conducting genetic engineering and their applications in biological research as well as in biotechnology industries.</li> </ul>
<ul style="list-style-type: none"> <li>Biostatistics, Computer applications and Bioinformatics</li> </ul>	<ul style="list-style-type: none"> <li>Attain an insight on statistical methods for analysis of biological data. Undertake statistical operations in biology. Understand and critically evaluate the data analysis procedures in publication of molecular biology research</li> </ul>
Sericulture	<ul style="list-style-type: none"> <li>Understand the scope sericulture and mulberry cultivation practices.</li> <li>Gain knowledge on diseases of silkworms and pests of mulberry. Understand the classification, life style and physiology of silkworm.</li> </ul>
Apiculture	<ul style="list-style-type: none"> <li>Classify the honey bees and categorize its developmental stages and explain the principals of Apiculture and methods of Bee Keeping. Make use of Honey bee products and Marketing.</li> </ul>
Practical - Apiculture & Sericulture	<ul style="list-style-type: none"> <li>On completion of the Sericulture course, students will be able to understand overall aspects of Sericulture, namely, Mulberry and nonmulberry silkworms and their food plants,</li> <li>Rearing of the silkworm, Silkworm pathology, Process of silkworm seed production and silk technology.</li> </ul>

<b>Department of Physical Education</b>		
Pothu Tamil I	<ul style="list-style-type: none"> <li>• Poetry: Knowing the literary creators and works of the time and creating new works, Grammer: Understanding the basics of language, Prose: Literature Knowing the ancient cultural customs of the classical language, Short Stories: Assuming solutions to social problems and issues and History of Literature: Understanding the Origin and Development of Decimal Types.</li> </ul>	•
Malayalam I	<ul style="list-style-type: none"> <li>• The study of early days of Malayalam poetry, origin from Pattu movement to contemporary poetry should be introduced. The aim is to develop general knowledge about Malayalam poetry. To develop ability to appreciate poetry and critical analysis, and by understanding the history of poetry and its growth over time, one can understand the various levels associated with poetical studies and criticism.</li> </ul>	•
Communicative English I	<ul style="list-style-type: none"> <li>• To enhance the communicative skills of students, To enrich the knowledge of students in grammar usage, To simulate real life situations in the classroom to practice real English dialogues and speeches to gain English language fluency. To build up the learners confidence in oral and interpersonal communication</li> </ul>	•

On completion of the course, the students will be able to

CO. No.	Core – 1: Foundation of Physical Education and Gymnastics	Cognitive Level
CO1	Discuss the historical review of physical education and sports Activities of Indian heritage	K2
CO2	Understand the basic principles and foundation of physical	K2

CO3	Identify and relate with the History of Physical Education.	K2
CO4	Describe the History of Gymnastics.	K2
CO5	Estimate the fundamental techniques of gymnastics	K3

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### Major Practical – 1: Gymnastics

CO. No.	Major Practical – 1: Gymnastics	Cognitive Level
CO1	Apply the fundamental techniques of gymnastics	K3
CO2	Distinguish between advance players and beginners	K3
CO3	Judge the performance of gymnastics	K4
CO4	Estimate the fundamental techniques of gymnastics	K3
CO5	Adapt with the new trends in the field of gymnastics	K2

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### Basic Anatomy and Physiology

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Allied – I Basic Anatomy and Physiology	Cognitive Level
CO1	Indicate the different parts of human body	K2
CO2	Demonstrate the functions of the human body	K2
CO3	inspect the different systems of the human body	K2
CO4	classify the physiological fitness of the human body	K3
CO5	Report the structures functions and its parts	K2

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### Kinanthropometry

CO. No.	Allied Practical – I Kinanthropometry	Cognitive Level
CO 1	learn the palpation technique of bones, bony landmarks, skeletal muscles and tendons of human body	K2
CO 2	understand the concepts of human body measurement	K2
CO 3	Identify the bony landmarks of human body	K2
CO 4	acquire the technique of measuring human body segments length, girth, and breadth	K3
CO 5	Learn the technique of measuring percent body fat using skin fold measurement	K2

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

## SEMESTER II

### Theories of Games-I (Kabaddi, Kho-Kho, Handball)

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core – III Theories of Games-I ( Kabaddi , Kho-Kho, Handball)	Cognitive Level
CO1	find the basic rules and regulations of various games	K4
CO2	Demonstrate the basic skills of various games	K2
CO3	motivate himself towards international level	K2
CO4	estimate the performance of the players	K5
CO5	construct the play fields of various games	K3

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### Major Practical II Kabaddi , Kho - Kho, Handball

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core – III Theories of Games-I (Kabaddi, Kho-Kho, Handball)	Cognitive Level
CO1	find the basic General and Specific Conditioning Exercises	K4
CO2	Demonstrate the basic skills of various games	K2
CO3	motivate himself towards international level	K2
CO4	estimate the performance of the players	K5
CO5	construct the play fields of various games	K3

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### Health Education, Safety Education and First aid

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Allied II - Health Education, Safety Education and First aid	Cognitive Level
CO1	Explain the factors influencing health and safety	
CO2	Build the knowledge on hygiene and various health programme	
CO3	Analyze the pollutions, various diseases and find their remedies	
CO4	Assess the mental health, community health and family life education	
CO5	Build and follow the principles of health education and safety measures	

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### Semester – III

#### Methods in Physical Education

##### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core V- Methods in Physical Education	Cognitive Level
CO1	Learn different methods, technique and strategies of education.	K3
CO2	Prepare and use teaching aids to make teaching more effective	K6
CO3	Analyze and frame the general and specific objectives of lessons	K3
CO4	Understand the methods of evaluation	K2
CO5	Learn the principles and advantages of team teaching.	K3

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

#### Theories of Games – II

##### (Badminton, Ball Badminton & Tennis)

##### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Allied - III- Theories of Games - II (Badminton, Ball Badminton & Tennis)	Cognitive Level
CO1	Learn the fundamental skills ,rules and regulation in various games and sports.	K3
CO2	Know to prepare and maintain of various play field and specification	K6
CO3	Learn to adapt team tactics and techniques of various sports.	K3
CO4	Develop valuation of skills and performance of the players.	K5
CO5	learntherulesandregulationsandcurrentinterpretationofnewchangesin the games	K3

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

#### Principles of Sports Training

##### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Skill Based Core I - Principles of Sports Training	Cognitive Level
CO1	Understand the characteristics of sports training	K4
CO2	Learn The various components of sports training.	K3
CO3	Apply the principles of the training load.	K4
CO4	Learn to plan the training program for different sports.	K3
CO5	Identify the talent, techniques and tactics of training.	K4



Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### **Badminton, Ball Badminton & Tennis**

Course Outcomes

On completion of the course, the students will be able to

CO. No.	Badminton, Ball Badminton & Tennis	Cognitive Level
CO1	Develop the understanding and knowledge regarding the Racket parts , racket grips , shuttle e grips, The basic stances	
CO2	Develop the understanding and knowledge of The basic strokes-serve fore hand over head and under arm ,backhand-over head and underarm	
CO3	Gain knowledge of Drills and lead up games ,Types of games-singles ,doubles ,including mixed doubles	
CO4	Gain knowledge of Rules and their interpretations and duties of officials	
CO5	Learn the rules and regulations and current interpretation of new changes in the games	

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### **Principles of Physical Literacy**

Course Outcomes

On completion of the course, the students will be able to

CO. No.	Non Major Elective I - Principles of Physical Literacy	Cognitive Level
CO1	Develop the motivation and ability to understand, communicate, apply and analyse various forms of movement	
CO2	Demonstrate a variety of movements confidently and competently across a wide range of physical activities	
CO3	Make healthy, active choices that are both beneficial to and respectful of their selves, others and environment.	
CO4		
CO5		

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K

## Semester – IV

### Organization and Administration in Physical Education

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core VI - Organization and Administration in Physical Education	Cognitive Level
CO1	Learn organization and administration strategies in physical education	K3
CO2	Learn to know various play field in sports and games	K4
CO3	Know the various methods in supervision.	K4
CO4	Learn the efficiency in class management and equipment maintains	K3
CO5	Prepare a good budget with the sources of in come and expenditure	K6

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

Highly Correlated (H); Moderately Correlated (M); Weakly Correlated (L)

### Teaching Practice

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core Practical IV- Teaching Practice	Cognitive Level
CO1	understand varied responsibilities of a teacher Core	
CO2	understand the concept of teaching styles, methods, & approaches and to blend them judiciously in the teaching	
CO3	understand methods of communication & its effective use in the teaching process	
CO4	understand the importance & steps of planning. General lesson Plan and Particular Lesson Plan.	
CO5		

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### Fitness and Wellness

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Non Major Elective II - Fitness and Wellness	Cognitive Level
CO1	Understand the basic knowledge of fitness and wellness.	K2
CO2	demonstrate an awareness of fact and fiction with regard to relationships between people's health, activity and fitness	K3
CO3	Adapt the concept of skill and the range of techniques needed in physical training	K2

CO4 4	Learn the need and importance of social wellbeing.	K3
CO5	Demonstrate an understanding of health problems associated with in adequate fitness levels	K2

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### **Sports Psychology and Sociology**

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Skill Based Core II - Sports Psychology and Sociology	Cognitive Level
CO1	Understand the basic knowledge of sports psychology.	K2
CO2	Learn the principles of motivation and theories of learning	K3
CO3	Understand the psychological factors important of sports performance	K2
CO4	Learn the need and importance of social wellbeing.	K3
CO5	Understand the game knowledge the role of media in sports	K2

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create

### **Sports Biomechanics and Kinesiology**

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Allied IV - Sports Biomechanics and Kinesiology	Cognitive Level
CO1	Know the need of kinesiology in sports training	K1
CO2	Understand the mechanism of joints and muscles movements of the	K2
CO3	Understand the need of biomechanics prevention of injuries in	K4
CO4	Learn the concepts of mechanical principles and its field	K3
CO5	Understand the application of mechanical principles in sports	K4

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create

### **Exercise Physiology**

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core VII - Exercise Physiology	Cognitive Level
CO1	find the functional changes in human body	K1
CO2	develop the physiological fitness of sports persons.	K2
CO3	analyze the effects of exercise on various systems of human body	K4
CO4	compare the functions of human body before and after exercise	K3
CO5	design the physiological concepts of physical fitness.	K4

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create

## Semester – V

### Test, Measurement and Evaluation in physical education and sports

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core VIII - Test, Measurement and Evaluation in Physical Education and Sports	Cognitive Level
CO1	Know the importance of test ,measurement and evaluation in physical education	K1
CO2	Learn to conduct the tests on motor fitness components	K3
CO3	Learn to conduct the tests on physical fitness components.	K3
CO4	Learn to conduct the tests on anthropometric, aerobic and anaerobic	K3
CO5	Learn to conduct the tests on various skill tests on different games.	K3

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### Theories of Track and Field

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core IX - Theories of Track and Field	Cognitive Level
CO1	Find the rules and regulation of track and field events	K1
CO2	apply the fundamental techniques of track and field events in physical Education and sports	K3
CO3	distinguish the outstanding players from beginners	K3
CO4	Judge the performance of athletes	K3
CO5	adapt with the new trend sin track and field events	K3

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### Principles of Motor Development

#### Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core Elective I - Principles of Motor Development	Cognitive Level
CO1	Define motor learning and its relationship to other related disciplines	K1
CO2	Define motor control, motor development, motor behaviors, and motor performance	K3
CO3	Understand how learned motor learning principles can be applied to various professions such as physical education, exercise and sports science, sports coaching, physical therapy, the military, police and special forces, ballet and other dance forms, recreational activities, etc.	K3

CO4	Understand the importance of using new technology or training methods for the enhancement of the motor learning process	K3
CO5	Understand the factors contributing to motor learning performance	K3

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### Adapted Physical Education

Course Outcomes

On completion of the course, the students will be able to

CO No.	Core Elective I –Adapted Physical Education	Cognitive Level
CO 1	develop the understanding and knowledge about definition of disabling conditions, Physical Education for persons with disabilities, Benefits of Physical Education for students with disabilities, Recreational sports opportunities ,Competition opportunities :Special Olympics, Paralympics	K1
CO 2	Learn the basic concepts of Physical disabilities ,Mental retardation, Visual impairment, Hearing impairment, Behavioral disorders,Characteristicsandfunctionallimitationsoftheabovedisabilities	K3
CO 3	gain knowledge of the Guiding principles of adapted PhysicalEducationprogramme(AAHPERprinciple),Communicationwithparents,Parental involvement, Parent teacher association, Unified sports, Facilities and equipment for recreation and sport activities	K3
CO 4	gain knowledge of the Importance of adapted programme inRehabilitation,Functionalrehabilitation,Psychologicalrehabilitation,Governmentalwelfare programme	K3
CO 5		K3

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create

### Track and Field Events

Course Outcomes

On completion of the course, the students will be able to

CO No.	Core Practical V - Track and Field Events	Cognitive Level
CO 1	develop the understanding and knowledge regarding the Running Event :Running technique and starting techniques :running ABC,Standingstart,Crouchstartanditsvariations,Properuseofblocks,Finishing techniques:Run Through ,Forward lunging, Shoulder Shrug.	K1
CO 2	O 2 develop the understanding and knowledge of Track & FieldMarking(400meter&200metertrackmarking,placementofhurdlesfor),RulesandOfficiating	K3

CO 3	gain knowledge of Hurdles: Fundamental Skills-Starting, Clearance and Landing Techniques, Types of Hurdles, High and Low Hurdles Technique, Ground Marking and Officiating	K3
CO 4	Gain knowledge of Relays :Fundamental Skills ,Various patterns of Baton Exchange, Understanding of Relay Zones, Ground Marking, Interpretation of Rules and Officiating	K3
CO 5		

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### Measurement and Evaluation in Human Performance

Course Outcomes

On completion of the course, the students will be able to

CO. No.	. Core Practical VI - Measurement and Evaluation in Human Performance	Cognitive Level
CO1	relate the different types of tests and measurement in physical education	K1
CO2	Identify the sports performance using different sports skill tests	K3
CO3	Compare and contrast the results of different test measurements	K3
CO4	determine the value of sports skill tests	K3
CO5	Improve and modify the existing skill test using computer application	

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### Semester – VI

#### Athletic Care, Sports Injuries and Rehabilitation

Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core X - Athletic Care, Sports Injuries and Rehabilitation	Cognitive Level
CO1	relate the different types of tests and measurement in physical education	K1
CO2	Identify the sports performance using different sports skill tests	K3
CO3	Compare and contrast the results of different test measurements	K3
CO4	determine the value of sports skill tests	K3
CO5	Improve and modify the existing skill test using computer application	

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

#### Theory of Games – III (Basketball, Football, Hockey, Cricket, Volleyball)

Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core XI - Theory of Games – III (Basketball, Football, Hockey, Cricket, Volleyball)	Cognitive Level
CO1	Know the fundamental of all the games and sports	K2

CO2	Understand the rules of all the games and sports	K3
CO3	Preparing the students for the competition	K3
CO4	Classify the students accordingly for various games and sports.	K3
CO5	Design and practice the new methods of technique and training	K3

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### **Elementary Statistics in Physical Education**

Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core XII - Elementary Statistics in Physical Education	Cognitive Level
CO1	Understand the importance of statistics in physical education.	K4
CO2	Understand and apply the statistics in research.	K4
CO3	Understand and apply the basics of statistics in research	K2
CO4	Learn the basic and advanced statistics.	K3
CO5	Know the graphical representation of statistics	K2

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### **Sports Nutrition**

Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core Elective II - Sports Nutrition	Cognitive Level
CO1	Understand the role of nutrition and weight management on sports	K2
CO2	Learn the importance of carbohydrates, fat and protein during	K3
CO3	Learn the health risks and solutions for over coming obesity	K3
CO4	Know to design diet plan for weight gain and weight loss.	K4
CO5	Understand the role of physical activity in weight management	K4

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### **Sports Journalism**

Course Outcomes

On completion of the course, the students will be able to

CO. No.	Core Elective II - Sports Journalism	Cognitive Level
CO 1	Identify the scope of journalism and in particular sports journalism and discover the open and hidden power structures/ opportunities in sports journalism	K2

CO 2	Criticize the scams, ethics and inculcate professionalism. Use the theoretical knowledge as a sports journalist and get news-sources of news and write in a non biased ,factual manner	K3
CO 3	Apply these concepts and techniques to sports communications: reporting, research,writingnews,matchreports,scriptsandpressreleases,interviewing , feature writing ,live porting etc	K3
CO 4	Understand and demonstrate the ability to communicate effectively and persuasively to develop professional relationships with sports bodies, coaches, players and other journalists thus gets proficiency to work in various professional settings and diverse groups and organizations	K4
CO 5	Develop an appreciation of how sport journalism can promote equity and social justice at the global, national, regional, state and local levels	K4

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

### **Games of Specialization (Basketball, Football, Hockey, Cricket, Volleyball)**

On completion of the course, the students will be able to

CO. No.	Core Practical VII - Games of Specialization (Basketball, Football, Hockey, Cricket, Volleyball)	Cognitive Level
CO1	Understand the criteria for participation in District ,State ,National and International competitions	K2
CO2	Learn the mechanical principles of various drills of sports and	K3
CO3	Learn the training methods to develop the team tactics and strategies	K3
CO4	Learn to prepare profiles for players with respect to the sports and	K3
CO5	Learn to layout and maintain various playfield	K3

Remember (K1); Understand (K2); Apply (K3); Analyze (K4); Evaluate (K5); Create (K6)

<b>Department of Business Administration</b>
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Pothu Tamil I	<ul style="list-style-type: none"> <li>Poetry: Knowing the literary creators and works of the time and creating new works, Grammar: Understanding the basics of language, Prose: Literature Knowing the ancient cultural customs of the classical language, Short Stories: Assuming solutions to social problems and issues and History of Literature: Understanding the Origin and Development of Decimal Types.</li> </ul>
Malayalam I	<ul style="list-style-type: none"> <li>The study of early days of Malayalam poetry, origin from Pattu movement to contemporary poetry should be</li> </ul>



	<p>introduced. The aim is to develop general knowledge about Malayalam poetry. To develop ability to appreciate poetry and critical analysis, and by understanding the history of poetry and its growth over time, one can understand the various levels associated with poetical studies and criticism.</p>
Communicative English I	<ul style="list-style-type: none"> <li>To enhance the communicative skills of students, To enrich the knowledge of students in grammar usage, To simulate real life situations in the classroom to practice real English dialogues and speeches to gain English language fluency. To build up the learners confidence in oral and interpersonal communication</li> </ul>
<ul style="list-style-type: none"> <li>Principles Of Management</li> </ul>	<p>:</p> <ul style="list-style-type: none"> <li>Develop an understanding of the functions of management and contributions made by management theorists to the field of scientific and modern management.</li> <li>Demonstrate critical thinking when presented with managerial problems and express their views and opinions on managerial issues by applying the concepts of planning and decision making,</li> <li>Identify the factors influencing the design of organizational structure and the right span of control for effective functioning of an organization.</li> <li>Identify and incorporate best staffing practices and apply principles of directing for hiring and managing employees. Control and coordinate the work force in a systematic approach</li> </ul>
Business Statistics	<ul style="list-style-type: none"> <li>Apply descriptive statistics in effective business decision making,</li> <li>Ascertain cause and effect relationship between business factors and predict direction of business,</li> <li>Analyse time series data to identify trend and seasonal variations to forecast and take business decisions, Construct and compare index numbers to analyse business and economic activities, Utilize statistical analysis in business projects to arrive at solutions</li> </ul>
Managerial Economics	<ul style="list-style-type: none"> <li>Exhibit the role of a manager by making strategic business decisions considering economic environment.</li> <li>Utilize the concept of demand, elasticity of demand to identify the determinants of demand and forecast demand. Assess technically the possible ways of increasing the level of production.</li> <li>Develop knowledge on different market structures and make the price and output decisions.</li> <li>Develop an understanding of the role of government and taxes in controlling inflation and deflation.</li> </ul>

Pothu Tamil II	<ul style="list-style-type: none"> <li>• Poetry: Announcement of devotional norms through religious literature. Grammer: Practice writing letters expressing the language structure.</li> <li>• Prose: Literature Expressing moral thoughts through the texts of justice.</li> <li>• Life History: Teaching and directing the biographies of the saints. History of Literature: Introducing literature created by religions.</li> </ul>
Malayalam II	<ul style="list-style-type: none"> <li>• The outcome of the course is to impart a general understanding of the origin of Malayalam prose and the various forms of prose literature.</li> <li>• The origin and development of Malayalam Short-Story and Novel should be briefed. For detailed study a Short-Story &amp; a Novel of famous authors are prescribed.</li> <li>• The change from the early short stories and novel to the present should be introduced.</li> <li>• The teacher should explain the theme, structure and narrative style of the authors in detail.</li> <li>• The development of prose literature should be introduced on the basis of the texts for detailed study.</li> </ul>
Communicative English II	<ul style="list-style-type: none"> <li>• Helps to improve practical usage of English Grammar, to help students overcome their fear and to speak in English in front of their peers and teachers. To build students self-confidence through various classroom activities.</li> </ul>
Business Mathematics	<ul style="list-style-type: none"> <li>• Apply the concept of geometry in the field of business, Draw and use Venn diagrams to solve real problems in business. Use derivatives in marginal analysis,</li> <li>• Application of differential calculus to find the maxima and minima of a function.</li> <li>• Perform elementary matrix operation and use matrices in business decision making.</li> </ul>
Financial Accounting	<ul style="list-style-type: none"> <li>• Apply accounting concepts and accounting standards in practical situations,</li> <li>• To be familiar with the rules governing accounting transactions.</li> <li>• Prepare Final accounts to ascertain profit or loss of the business and its financial position,</li> <li>• Critically analyze financial statements of the enterprise , vertically and horizontally for business decision making,</li> <li>• Identify the methods of calculating depreciation charges</li> </ul>
Organizational Behavior	<ul style="list-style-type: none"> <li>• Apply theories and concepts of organisational behaviour in workplace to create an effective organisational environment, Analyze workplace behaviours from theoretical perspective of ability, learning, attitude and values,</li> </ul>

	<ul style="list-style-type: none"> <li>• Determine the influence of perception, personality and emotions on workplace behaviour in order to exhibit positive behaviour and to create solutions in a challenging context</li> <li>• Create a conducive environment to facilitate group functioning, articulate conflict management competencies in managing and resolving conflicts, Identify forces of change and manage a planned organizational change</li> </ul>
Pothu Tamil III	<ul style="list-style-type: none"> <li>• Poetry: To know the life history of the ancient Tamils through epics.</li> <li>• Grammar: Promoting the grammatical ability of the consecration team by teaching them the grammar.</li> <li>• Prose: Literature sowing literary study ability in the mind of the student.</li> <li>• Novel: Instruction to live in an honest way.</li> <li>• Literary History: Making history of epics and short stories.</li> </ul>
Malayalam III	<ul style="list-style-type: none"> <li>• In the present scenario Visual arts especially, Cinema is influenced a lot.</li> <li>• It gives lot of job opportunity also. Inclusion of Drama and Cinema in this semester will create interest among the students to opt for future endeavours.</li> <li>• It helps to know more about the visual arts sensitivities and enable them to appreciate the art forms very well.</li> <li>• To achieve these it is necessary to create a general awareness among the students to Visual Arts and their literary Genres.</li> <li>• We need to convince the students about the specific factors of art forms that are changing from time to time and their relevance.</li> <li>• To enable them to understand the general nature of a Film Script, Screen Play and the transition of a story/short-story/Novel/an idea into a film.</li> </ul>
Communicative English III	<ul style="list-style-type: none"> <li>• To develop Vocabulary and Pronunciation, to understand various styles of writings, to enhance his or her familiarity and fluency with the language considerably</li> </ul>
Banking And Insurance	<ul style="list-style-type: none"> <li>• Understand the concept of Indian banking system and its recent trends,</li> <li>• Understand the functioning of Reserve Bank of India and overall working of commercial bank of India. Utilize effectively the recent trends in banking to run business successfully.</li> <li>• Understand various principles, provisions that govern the Life General Insurance Contracts understand various principles, provisions that govern the Life General Insurance Contracts,</li> <li>• Distinguish between life insurance and general insurance</li> </ul>

Business Law	<ul style="list-style-type: none"> <li>• Understand the meaning and nature of contract and various essentials of contract.</li> <li>• Understand Discharge of contract and remedies for breach of contract,</li> <li>• Analyze and differentiate between bailment, Pledge and Agency.</li> <li>• Understand the idea of sale, distinguish sale and agreement to sell and can explain conditions and warranties,</li> <li>• Interpret critical issues of partnership business and can recognize rights and duties of partners.</li> </ul>
Computer Applications Business – I	<p style="text-align: center;">In</p> <ul style="list-style-type: none"> <li>• Apply word basic commands, editing and proofing tools, creating tables, changing layout and mail merge concept for creating and managing business documents and effective communication</li> <li>• Handle business data by applying the in- built features of excel, Apply financial and statistical function of excel for financial forecast, project analysis and analysis of business data,</li> <li>• Create a new presentation, modify presentation themes and add or edit text to slides, Design a simple data base, build a new data base with related tables and manage the data in a table.</li> </ul>
Pothu Tamil IV	<ul style="list-style-type: none"> <li>• Grammar: Teaching subject grammar for biology.</li> <li>• Prose Literature: Teaching biological virtues through literature.</li> <li>• Drama: Motivation to create plays centered on historical backgrounds.</li> <li>• Literary History: To know the history and individual features of Sangam literature.</li> </ul>
Malayalam IV	<ul style="list-style-type: none"> <li>• The outcome of Media Study is to enable the students to know more about the roles of media including print and online, film and television in the society. And to analyze the content, history and impact of various media especially mass-media on our society. Media studies encourage the students to understand the critical evaluation of new and old media technologies, the centrality of media in politics, economics, social life, global and local culture, and the contemporary and historical impact of media on individuals and societies. By the study of Madhyamagal students were taken to a new path of their career.</li> </ul>
Communicative English IV	<ul style="list-style-type: none"> <li>• To develop interest in and appreciation of Literature,</li> <li>• to develop confidential communication skill,</li> <li>• to learn different styles of writings, like prose, poetry and fiction,</li> <li>• To understand practical usage of English Grammar.</li> </ul>

Cost Accounting	<ul style="list-style-type: none"> <li>• Prepare cost sheet to ascertain total cost and cost/ unit in order to prepare quotation, to differentiate methods of calculating material consumption, apply various labor control Techniques for cost reduction and smooth functioning of business. Explain meaning of Overheads. Classify, Allocate, Apportion and Reapportion various overheads to calculate cost.</li> <li>• Apply costing methods and costing techniques appropriately</li> </ul>
Marketing Management	<ul style="list-style-type: none"> <li>• Identify the marketing functions, environment and segmentation for effective positioning of the products.</li> <li>• Assess the factors influencing consumer behavior and apply recent marketing trends in business,</li> <li>• develop new products and services that are consistent with evolving marketing needs.</li> <li>• Formulate effective pricing policy and select an appropriate channel of distribution,</li> <li>• Summarize the nature and functions of the elements of Promotion mix</li> </ul>
Human Resource Management	<ul style="list-style-type: none"> <li>• Develop an understanding of the human resource functions and environment to manage human resource effectively.</li> <li>• Identify the human recourse requirement and select suitable work force.</li> <li>• Evaluate the performance of human resource and develop suitable training, development and career planning programs, Frame sound compensation policy for high employee retention,</li> <li>• Develop an effective grievance handling procedure</li> </ul>
Production And Operations Management	<ul style="list-style-type: none"> <li>• Develop an understanding of the role of production manager and also select a suitable production system.</li> <li>• Analyse and decide a good location for the plant and its layout.</li> <li>• Demonstrate efficient planning and control of production activities, Analyze and apply skills in operations function to improve plant maintenance.</li> <li>• Develop strategies to ensure high quality products are manufactured and distributed.</li> </ul>
Corporate Law	<ul style="list-style-type: none"> <li>• Understand the meaning and nature of company,</li> <li>• Discuss the procedure of formation of companies</li> <li>• Understand various important documents of company,</li> <li>• Understand the concept of GST, Analyze the collection procedure of GST.</li> </ul>

<p>Computer Applications Business-II</p> <p>In</p>	<ul style="list-style-type: none"> <li>• To help students to work with well- known accounting software i.e. Tally ERP.9. Students will learn to create company, enter accounting voucher entries including advance voucher entries,</li> <li>• Demonstrate an understanding of various predefined inventory vouchers to suit the various business requirements and flexibility to create unlimited stock items</li> <li>• Demonstrate an understanding of how to maintain a payroll register.</li> <li>• To prepare Accounting, Payroll, Billing, Sales and Profit Analysis, Auditing Banking Inventory, Taxation such as GST, VAT, TDS, TCS etc</li> </ul>
<p>Management Accounting</p>	<ul style="list-style-type: none"> <li>• Understand concepts of Management accounting and differentiate between various types of Accounting. Compare common size and comparative financial statements of different periods,</li> <li>• Discuss importance and limitation of Fund flow and Cash Flow statements and create them for accounting purpose.</li> <li>• Apply Standard costing technique for controlling cost.</li> <li>• Describe and Analyze relationships between cost, volume and profit for achieving breakeven point and profit maximization.</li> </ul>
<p>Research Methodology</p>	<ul style="list-style-type: none"> <li>• Gain the Knowledge &amp; understanding of concept fundamentals for different types of research.</li> <li>• Applying relevant research techniques, Evaluating relevant data collection techniques and displaying of data collected, Classifying different techniques of sampling. Applying Interpretation and prepare research report.</li> </ul>
<p>Digital Business Management</p>	<ul style="list-style-type: none"> <li>• Identify drivers of digital business, illustrate various approaches and techniques for E-business and management. Develop a thorough understanding of Digital Business Application, Policy Frameworks, Digital Platforms and Market Places. Analysing E-business services, Develop skills to formulate digital strategy for Digital Business</li> </ul>
<p>Financial Services</p>	<ul style="list-style-type: none"> <li>• Understand the functioning of the financial system &amp; Financial services,</li> <li>• Apply critical, analytical and integrative thinking while understanding the functioning for the Leasing,</li> <li>• Utilise factoring, forfeiting and leasing services for their enterprises. Assess and make wise investments in mutual funds and also get their credit worthiness evaluated for obtaining borrowings/investments.</li> <li>• Develop a critical, analytical and integrative thinking of the role played by the regulators in the smooth functioning of the markets</li> </ul>

Retail Management	<ul style="list-style-type: none"> <li>• Clarify the concept and related terms in retailing. Comprehend the ways retailers use marketing tools and techniques to interact with their customers.</li> <li>• Understand various formats of retail in the industry. Recognize and understand the operations-oriented policies, methods, and procedures</li> <li>• Understand how to create a shopping experience that builds customer</li> </ul>
Services Marketing	<ul style="list-style-type: none"> <li>• Understand the Concept of Services and intangible products, Discuss the relevance of the services Industry to Industry,</li> <li>• Examine the characteristics of the services industry and the modus operandi,</li> <li>• Analyze the role and relevance of Quality in Services, Visualize the strategies in the Services sector.</li> </ul>
Effective Employability Skills-1	<ul style="list-style-type: none"> <li>• To help students explore their values and career choices through individual skill assessments, to make realistic employment choices and to identify the steps necessary to achieve a goal.</li> <li>• To explore and practice basic communication skills, to learn skills for discussing and resolving problems on the work site, to assess and improve personal grooming</li> </ul>
Strategic Management	<ul style="list-style-type: none"> <li>• Understand growing importance of strategies in uncertain business environment.</li> <li>• Understand the basic concept of business strategy, Identify and evaluate different alternative strategies for effective decision making, analyze strategy implementation alternatives for effective decision making, Illustrate the strategic requirements and correlation between business plans with strategic plans</li> </ul>
Entrepreneurship Development	<ul style="list-style-type: none"> <li>• List the characteristics of an entrepreneur, entrepreneur as well their role in the economic development of the country, Explain the entrepreneurial environmental factors,</li> <li>• Design business plan, Raise funds and avail assistance through various funding and support agencies for their finance, Identify the factors influencing rise of small and medium enterprises.</li> </ul>
Training And Development	<ul style="list-style-type: none"> <li>• To develop an understanding of the evolution of training &amp; development from a tactical to a strategic function, to provide an insight into what motivates adults to learn and the most appropriate methodologies to impart training,</li> <li>• to understand the concept of training audit &amp; training evaluation, to learn how design a training module and execute it, to understand the need for and concept of Performance Management</li> </ul>

<p>Industrial Relations And Labour Laws</p>	<ul style="list-style-type: none"> <li>• Use concepts in formulation of Business policies &amp; discuss role of a Trade union in an enterprise.</li> <li>• Select a suitable grievance redressal model &amp; disciplinary procedure in their enterprise.</li> <li>• To understand the enquiry procedures and industrial discipline,</li> <li>• Plan Pay policies accommodating for EPF &amp; ESI deductions, and apply dispute settlement procedure as laid down by ID Act</li> </ul>
<p>Effective Employability Skills- II</p>	<ul style="list-style-type: none"> <li>• To help students explore their values and career choices through individual skill assessments,</li> <li>• to make realistic employment choices and to identify the steps necessary to achieve a goal,</li> <li>• to explore and practice basic communication skills, to learn skills for discussing and resolving problems on the work site and to assess and improve personal grooming.</li> </ul>



**Department of Commerce**

<b>COURSES</b>	<b>OUTCOME</b>
Tamil	<ul style="list-style-type: none"> <li>• Knowing the literary creators and works of the time and creating new works.</li> <li>• Understanding the basics of language.</li> <li>• Knowing the ancient cultural customs of the classical language.</li> <li>• Assuming solutions to social problems and issues.</li> <li>• Understanding the Origin and Development of Decimal Types.</li> </ul>
Poetry Literature C1MY11	<ul style="list-style-type: none"> <li>• The study of early days of Malayalam poetry, origin from Pattu movement to contemporary poetry should be introduced.</li> <li>• The aim is to develop general knowledge about Malayalam poetry.</li> <li>• To Develop ability to appreciate poetry and critical analysis.</li> <li>• By understanding the history of poetry and its growth over time, one can understand the various levels associated with poetical studies and criticism.</li> </ul>
Communicative English I	<ul style="list-style-type: none"> <li>• To enhance the communicative skills of students.</li> <li>• To enrich the knowledge of students in grammar usage.</li> <li>• To simulate real life situations in the classroom to practice real English dialogues and speeches to gain English language fluency.</li> </ul>

	<ul style="list-style-type: none"> <li>• To build up the learners confidence in oral and interpersonal communication</li> </ul>
Financial Accounting -I	<ul style="list-style-type: none"> <li>• To understand book keeping and accounting concepts, conventions and accounting information.</li> <li>• To prepare financial statements in accordance with generally accepted accounting principles.</li> <li>• To understand about the preparation of Bank Reconciliation Statement.</li> <li>• To estimate the Bill of Exchange and its accounting treatment.</li> <li>• To demonstrate the understanding of the various methods of depreciation.</li> <li>• To ascertain the procedures of single entry and double entry system.</li> </ul>
Business Organisation And Management	<ul style="list-style-type: none"> <li>• To know the various forms of business organisation and its functions.</li> <li>• To acquire knowledge about manufacturing and service sector in India.</li> <li>• To understand the latest developments and technological innovations in the organisation of business.</li> <li>• To develop knowledge about evolution of management thoughts and to better understanding of planning and decision making.</li> <li>• To give an idea about organisation structure and different types of organisation.</li> <li>• To provide an idea about leadership, theories of motivation, importance of communication and principles of co-ordination.</li> </ul>
Business Economics	<ul style="list-style-type: none"> <li>• To understand business economics and importance of business economics for managerial decision making.</li> </ul>

	<ul style="list-style-type: none"> <li>• To determine the position of firms using demand and supply conditions.</li> <li>• To analyse cost effective production techniques.</li> <li>• To use the demand estimation to forecast demand trends and change.</li> <li>• To analyse market situations to establish market equilibrium.</li> <li>• To examine pricing theory to decide on strategies.</li> </ul>
Tamil	<ul style="list-style-type: none"> <li>• Announcement of devotional norms through religious literature.</li> <li>• Practice writing letters expressing the language structure.</li> <li>• Expressing moral thoughts through the texts of justice.</li> <li>• Teaching and directing the biographies of the saints.</li> <li>• Introducing literature created by religions.</li> </ul>
Prose Literature C1MY21	<ul style="list-style-type: none"> <li>• The outcome of the course is to impart a general understanding of the origin of Malayalam prose and the various forms of prose literature.</li> <li>• The origin and development of Malayalam Short-Story and Novel should be briefed.</li> <li>• For detailed study a Short-Story &amp; a Novel of famous authors are prescribed.</li> <li>• The change from the early short stories and novel to the present should be introduced.</li> <li>• The teacher should explain the theme, structure and narrative style of the authors in detail.</li> <li>• The development of prose literature should be introduced on the basis of the texts for detailed study.</li> </ul>
Communicative English II	<ul style="list-style-type: none"> <li>• Helps to improve practical usage of English Grammar.</li> <li>• To help students overcome their fear and to speak in English in front of their peers and teachers.</li> <li>• To build students self-confidence through various classroom activities.</li> </ul>
Financial Accounting - II	<ul style="list-style-type: none"> <li>• To know the similarities between consignment and joint venture.</li> <li>• To prepare various accounts namely accounts of non-trading concern and professionals, royalties.</li> <li>• To understand the facts related to consignment and joint venture with normal and abnormal losses.</li> </ul>

	<ul style="list-style-type: none"> <li>• To know about the preparation of balance sheet and income and expenditure account.</li> <li>• To identify the nature of expenses as capital and revenue for correct presentation in the final accounts of any company.</li> <li>• To know about the differences between hire purchase and instalment system.</li> <li>• To evaluate the process of royalties with minimum rent and short workings.</li> </ul>
Principles Of Insurance	<ul style="list-style-type: none"> <li>• To know the overall aspects of Life Insurance and General Insurance.</li> <li>• To understand the classification of Life Insurance.</li> <li>• To understand the concept of Fire Insurance.</li> <li>• To understand the concept and progress of Marine Insurance in India.</li> <li>• To ascertain the principles of Personal Accident Insurance, Motor Insurance, Burglary</li> <li>• Insurance, Agricultural Insurance and Health Insurance.</li> </ul>
Professional English For Commerce & Management – II	<ul style="list-style-type: none"> <li>• Attend interviews with boldness and confidence.</li> <li>• Adapt easily into the workplace context, having become communicatively competent.</li> <li>• Apply to the Research &amp; Development organisations/ sections in companies and offices with winning proposals.</li> </ul>
Marketing	<ul style="list-style-type: none"> <li>• To understand the nature, importance and classification of markets.</li> <li>• To understand the functions of marketing and marketing mix.</li> <li>• To evaluate the life cycle of products.</li> <li>• To understand about the product line and product life cycle through modification.</li> </ul>

	<ul style="list-style-type: none"> <li>• To know the various channels of distribution.</li> <li>• To know the concept of International Marketing, Import and Export Marketing.</li> </ul>
Advanced Financial Accounting	<ul style="list-style-type: none"> <li>• To understand the accounting system of branch and departmental accounts.</li> <li>• To know the preliminaries before admitting a person as a partner.</li> <li>• To understand the various kinds of goodwill treatment followed in partnership accounts.</li> <li>• To understand the dissolution of partnership and partnership firms.</li> <li>• To understand the insolvency of a partner or all partners and the Garner Vs Murray rule.</li> <li>• To prepare the accounts for amalgamation of firms.</li> </ul>
Business Mathematics	<ul style="list-style-type: none"> <li>• To know about the number system, equations and nature of roots.</li> <li>• To know the concept of indices, logarithms and their application in solving the problems.</li> <li>• To analyse the practical applications of Analytical Geometry in business field.</li> <li>• To know about matrix algebra, scalar multiplication and also to find out the inverse of a matrix.</li> <li>• To understand the concepts like simple interest, compound interest, depreciation, discount etc., thoroughly and their application in business.</li> </ul>
Banking Theory Law And Practice	<ul style="list-style-type: none"> <li>• To understand the basic concept used in banking.</li> <li>• To know the various kinds of banking and their functions.</li> <li>• To know the banking product or services.</li> <li>• To know the development of technology in banking company.</li> </ul>

	<ul style="list-style-type: none"> <li>• To know the Reserve Bank of India and their importance in banking industry.</li> </ul>
Company Law	<ul style="list-style-type: none"> <li>• To understand the basic concepts in companies act and the procedure followed at the time of issuing of financial instruments to the public.</li> <li>• To know the varies kinds of shares and securities issued to the public</li> <li>• To know the powers, duties and responsibilities of managerial personnel</li> <li>• To know the different types of meeting, minutes of the meeting procedures etc.</li> <li>• To know the different mode of winding up of companies.</li> </ul>
Computer Applications In Business	<ul style="list-style-type: none"> <li>• To understand the basic concepts and terminologies used</li> <li>• To familiarize in MS Word</li> <li>• To familiarize in MS PowerPoint</li> <li>• To prepare a document in excel program</li> <li>• To know the internet protocols, to compose and view email etc.</li> </ul>
Introduction To Accountancy	<ul style="list-style-type: none"> <li>• To know the basic accounting concepts and accounting rules.</li> <li>• To prepare the journal and know the subsidiary books.</li> <li>• To prepare the ledger accounts and balancing</li> <li>• To prepare the trial balance</li> <li>• To prepare the final accounts.</li> </ul>
<b>Consumer Protection</b>	<ul style="list-style-type: none"> <li>• To familiarize with the rights of consumer, the social framework of consumer rights.</li> <li>• To know the exploitations of consumers in different ways</li> <li>• To know the various rights of consumers in Consumer Protection Act</li> </ul>

	<ul style="list-style-type: none"> <li>• To know the practical issues in consumer related matters.</li> <li>• To know about the various forms of complaint</li> </ul>
Business Communication	<ul style="list-style-type: none"> <li>• To know the barriers of communication and essentials of a good business communication</li> <li>• To know the various kinds of business correspondence and to include the important points to be covered.</li> <li>• To know the banking, insurance and agency correspondence</li> <li>• To know different secretarial correspondence</li> <li>• To know how to prepare an effective resume and technical developments in the field of communication.</li> </ul>
Corporate Accounting	<ul style="list-style-type: none"> <li>• To understand about the issue of shares and debentures.</li> <li>• To understand about the redemption of preference shares.</li> <li>• To understand the calculation of profit prior to incorporation.</li> <li>• To practice the maintenance of final accounts as per revised accounting standards.</li> <li>• To understand the accounting for amalgamation and external reconstruction.</li> <li>• To analyse the various schemes for capital reduction.</li> <li>• To evaluate the preparation of liquidator's financial statement.</li> </ul>
Business Statistics	<ul style="list-style-type: none"> <li>• To understand the basic concepts of statistics and statistical tool.</li> <li>• To know the measures of central tendency and to apply to measure averages.</li> <li>• To apply the tools on measures of dispersion that are useful for estimating variations.</li> </ul>

	<ul style="list-style-type: none"> <li>• To apply the various methods for calculating correlation coefficient.</li> <li>• To apply regression analysis for estimating values for future period.</li> <li>• To understand the concepts about indices and time series.</li> <li>• To analyse the various theorems of probability.</li> </ul>
Financial Markets & Services	<ul style="list-style-type: none"> <li>• To know the framework of financial markets in India.</li> <li>• To be familiar with the functions of financial services.</li> <li>• To gain knowledge on the avenues of financial services.</li> <li>• To be an expertise in various financial markets and its services.</li> <li>• To understand the term merchant banking.</li> <li>• To understand the activities and scope of venture capital and also the functions of credit Rating.</li> </ul>
Logistic Management	<ul style="list-style-type: none"> <li>• To introduce basic concepts in logistics with special emphasis on maritime shipping.</li> <li>• To understand multimodal transport concept and inventory services.</li> <li>• To understand the concept of life cycle support and measurement system.</li> <li>• To know about electronic data interchange standards.</li> <li>• To familiarise with multimodal transport and warehouse resources and strategies.</li> </ul>
Application Of Tally In Accounting	<ul style="list-style-type: none"> <li>• To develop the computerised knowledge in accounting.</li> <li>• To impart the basic principles and concepts of computerized accounting.</li> <li>• To gain knowledge on the use and application of tally.</li> <li>• To learn about the concept of vouchers.</li> <li>• To create company in tally.</li> </ul>



	<ul style="list-style-type: none"> <li>• To create knowledge of inventory accounting.</li> <li>• To create knowledge of budgetary control.</li> <li>• To make use of cost category and cost centres in vouchers.</li> </ul>
Financial Accounting	<ul style="list-style-type: none"> <li>• To know the concept of average due date and its preparation.</li> <li>• To understand about the preparation of bank reconciliation statement.</li> <li>• To understand about the self balancing system and sectional balancing system and its various adjustment accounts.</li> <li>• To demonstrate and understanding of the various methods of providing depreciation.</li> <li>• To know about classification of errors and its rectification.</li> </ul>
Human Rights	<ul style="list-style-type: none"> <li>• To impart basic knowledge about human rights and its types.</li> <li>• To know about violation patterns and action against such violations by law.</li> <li>• To understand about the rights of disabled persons.</li> <li>• To know about the legal provisions of bonded labour.</li> <li>• To understand about the minority rights commission and its functions.</li> </ul>
Entrepreneurship Development	<ul style="list-style-type: none"> <li>• To understand the significance of entrepreneurial skills.</li> <li>• To know about the developing ideas and techniques of business.</li> <li>• To understand about the procedures of start up.</li> <li>• To identify the institutional support provided to entrepreneurs.</li> <li>• To analyse the application of various accounting statements.</li> </ul>

Special Accounts	<ul style="list-style-type: none"> <li>• To identify the processes of Holding companies.</li> <li>• To recognize the Banking company accounts.</li> <li>• To understand the basic principles of Company Insurance.</li> <li>• To know the final accounts of public sector undertakings.</li> <li>• To equip with different accounting standards knowledge.</li> </ul>
Cost Accounting	<ul style="list-style-type: none"> <li>• To explain the elements of cost.</li> <li>• To adapt appropriate method for material control.</li> <li>• To understand the different types of overheads.</li> <li>• To apply the process costing.</li> <li>• To debate about the variances of various costing</li> </ul>
Business Law	<ul style="list-style-type: none"> <li>• To differentiate the Contracts and Agreements.</li> <li>• To validate offer, acceptance and consideration.</li> <li>• To identify the frauds misrepresentations unlawful agreements.</li> <li>• To know the procedures for entering into the various types of contracts.</li> <li>• To analyse the contract of sale.</li> </ul>
Research Methodology	<ul style="list-style-type: none"> <li>• To know the criteria for good research.</li> <li>• To recognise the various research designs.</li> <li>• To analyse the different types of sampling designs.</li> <li>• To know about the various elements of data collection.</li> <li>• To differentiate the questionnaire and schedule.</li> <li>• To identify the mechanics of research report writing.</li> </ul>
Income Tax Law & Practice	<ul style="list-style-type: none"> <li>• To know the residential status and tax exemptions.</li> <li>• To compute the taxable salary.</li> <li>• To calculate house property income.</li> <li>• To identify the income from other sources</li> <li>• To understand the provisions for filing the return of income.</li> </ul>

Human Resource Management	<ul style="list-style-type: none"> <li>• To know the system of human resource information.</li> <li>• To learn the process of selection of human resource.</li> <li>• To differentiate the management development and career development.</li> <li>• To understand the performance appraisal.</li> <li>• To identify the grievance handling and redressal.</li> </ul>
Elements Of E-Commerce	<ul style="list-style-type: none"> <li>• To gain knowledge of e-commerce applications.</li> <li>• To know the functions of internet.</li> <li>• To identify the network security data and message security.</li> <li>• To understand the applications of EDP.</li> <li>• To differentiate the multimedia and digital video.</li> </ul>
Financial Management	<ul style="list-style-type: none"> <li>• To understand the conceptual framework of financial Management and importance of time value of money to make optimal business decisions.</li> <li>• To understand the features, factors and apply the capital structure theories to make optimal business decisions.</li> <li>• To know the significance and types of Leverage and determinants of dividend policy</li> <li>• To analyse the Working capital management and predicts the requirements of working capital in a firm.</li> <li>• To understand the Objectives, Factors and Techniques of Receivables management.</li> </ul>
Management Accounting	<ul style="list-style-type: none"> <li>• To understand the basic concepts of management accounting and types of ratios can be applied for evaluating the performance and financial position of a firm.</li> <li>• To evaluate the performance of a firm using fund flow and cash flow statement.</li> <li>• To prepare various budgets and understand the features and importance of budgets</li> </ul>

	<ul style="list-style-type: none"> <li>• To identify the significance of standard costing, use marginal costing techniques for optimizing cost and profit.</li> <li>• To Understand the Capital Budgeting Importance and various Appraisal methods for evaluating and performance of firm.</li> </ul>
Industrial Law	<ul style="list-style-type: none"> <li>• To know the provisions of Factories Act</li> <li>• To know about the welfare, safety and health of workers.</li> <li>• To understand the disputes of strike, lock out, retrenchment, lay off and compensation</li> <li>• To understand the Trade Union Act</li> <li>• To know the rights and duties of Employee State Insurance</li> </ul>
Auditing And Corporate Governance	<ul style="list-style-type: none"> <li>• To understand Basic Principles of Auditing, Internal Control, Vouching and verification</li> <li>• To understand the Positions and status of Statutory Auditors under the Companies Act 2013.</li> <li>• To know about special Areas of Audit and Recent Trends in Auditing.</li> <li>• To understand the Conceptual framework of Corporate Governance models, codes and Standards.</li> <li>• To know the Concept of CSR and business Ethics under the Companies Act 2013.</li> </ul>
Business Taxation	<ul style="list-style-type: none"> <li>• To understand basic concept and importance of indirect taxes.</li> <li>• To understand the various concept and types of Goods and Service Tax.</li> <li>• To understand and make use of knowledge of GST in taking managerial decision in various tax related matters.</li> </ul>

	<ul style="list-style-type: none"> <li>• To get familiar with the Integrated Goods and Services Tax Act 2017.</li> <li>• To know the Customs procedures for import and export.</li> </ul>
Retail Management	<ul style="list-style-type: none"> <li>• To understand basic concept, importance and challenges facing retailers.</li> <li>• To identify the types of retailing institutions.</li> <li>• To understand Strategic planning process in retailing.</li> <li>• To identify the organizational Location and financial decisions.</li> <li>• To know the role and functions of Buying and handling of Merchandise Management.</li> </ul>
Human Values & Business Ethics	<ul style="list-style-type: none"> <li>• To understand values in business and Customer satisfaction in society. Productivity etc. and the continuous improvement in their standards</li> <li>• To gain an application of Values and ethics in business</li> <li>• To know the Government interactions and Ethics in Business pricing policies and strategies.</li> <li>• To apply and understand Ethics in Production</li> <li>• To understand how to handle customer complaints and services-oriented industries.</li> </ul>

## M.COM COURSE OUTCOME

COURSES	OUTCOME
Accounting For Management	<ul style="list-style-type: none"><li>• Have a good understanding of the applicability of financial statements for decision making.</li><li>• Gain knowledge of preparation, analysis and interpretation of financial statements</li><li>• Describe the usage of management accounting tools</li><li>• Prepare cash flow and funds flow statements</li><li>• Gain mastery over the preparation of variance analysis</li></ul>
Statistics	<ul style="list-style-type: none"><li>• Gain knowledge about probability distribution and its application to business.</li><li>• Get an understanding about hypothesis and its testing.</li><li>• Gain knowledge of non-parametrics. Learn about statistical decision theory.</li><li>• Gain an understanding of statistical quality control.</li></ul>
Management Concepts And Organisational Behaviour	<ul style="list-style-type: none"><li>• Gain knowledge about the concepts of Management.</li><li>• Get an understanding about the behavioural change based on Motivation.</li><li>• Gain knowledge of the Group Dynamics and conflict management.</li><li>• Learn about tactics to gain power.</li><li>• Gain an understanding of Organisational change and development</li></ul>

<p>Insurance And Risk Management</p>	<ul style="list-style-type: none"> <li>• Gain competence on Insurance at an advanced level.</li> <li>• Describe the basic Insurance, rules, policy, Risk in the workplace, etc.</li> <li>• Gain knowledge on the principles of life insurance and types of policies.</li> <li>• Understand the nature and types of non-life insurance policies.</li> <li>• Familiarize on the various aspects of risk management</li> </ul>
<p>International Business</p>	<ul style="list-style-type: none"> <li>• Gain knowledge on the basics of international business.</li> <li>• Get an acquaintance on the international trading environment.</li> <li>• Understand the multinational enterprises.</li> <li>• Get the description of various aspects of international financial management.</li> <li>• Gain an understanding on the recent developments in international business</li> </ul>
<p>Advanced Financial Management</p>	<ul style="list-style-type: none"> <li>• Gain an understanding of the theoretical framework of financial management in business corporations.</li> <li>• Understand various sources of financing and financial planning.</li> <li>• Describe management of assets of the company</li> <li>• Understand leverages.</li> <li>• Gain and understanding of the capital structure and dividend theories</li> </ul>
<p>Quantitative Techniques</p>	<ul style="list-style-type: none"> <li>• Gain knowledge about formulation of transportation problem.</li> </ul>

	<ul style="list-style-type: none"> <li>• Get an outstanding about assignment problems.</li> <li>• Know about project management and queuing models.</li> <li>• Gain an understanding about the replacement analysis and simulation</li> </ul>
Corporate Legal Framework	<ul style="list-style-type: none"> <li>• Gain knowledge about payment of wages, bonus, industrial disputes and sale of goods act.</li> <li>• Know about provisions of companies' act 2013.</li> <li>• Understanding about Foreign Exchange Management Regulation Act 1999</li> <li>• Gain knowledge of Environmental Regulation Act 5.</li> <li>• Gain the knowledge of Legal perspective and its practice to improve the business.</li> </ul>
Enterprise Resource Planning (Erp)	<ul style="list-style-type: none"> <li>• Know the evaluation of ERP, systems, technology and the background of ERP.</li> <li>• Appreciate the various aspects of business processes.</li> <li>• Gain knowledge about BPR.</li> <li>• Get an understanding about the ERP system implementation.</li> <li>• Know about SCM and CRM</li> </ul>
Corporate Social Responsibility	<ul style="list-style-type: none"> <li>• Have gained all essential and fundamental knowledge on the principles and practices of CSR in India.</li> <li>• Acquire the skill of implementing the same in their own enterprises as and when they bring up their start-ups</li> <li>• Appreciate governance of CSR activities.</li> </ul>



	<ul style="list-style-type: none"> <li>• Have knowledge of monitoring CSR activities.</li> <li>• Know about CSR standards and audit</li> </ul>
Credit Management	<ul style="list-style-type: none"> <li>• Understand the basic concepts principles of lending.</li> <li>• Gain knowledge in making credit plan through suitable financial statement analysis.</li> <li>• Understand the risk-returns analysis of providing loans to the consumers.</li> <li>• Know financial support to the agriculture and NABARD schemes to promote agri-business in India</li> <li>• Understand the different tools used for monitoring the lending of money sanctioned by the financial institutions</li> </ul>
Business Analytics	<ul style="list-style-type: none"> <li>• Gain an understanding of the basics of business data analytics platforms.</li> <li>• Gain knowledge of quantitative analysis including sampling etc.</li> <li>• Learn advanced statistical techniques such as multivariate analysis etc.</li> <li>• Describe the nuance of data mining.</li> <li>• Gain knowledge of techniques of regression analysis</li> </ul>
Customer Relationship Management	<ul style="list-style-type: none"> <li>• Gain skill based knowledge of Customer Relationship Management.</li> <li>• Understand the concepts and principles of CRM</li> <li>• Gain knowledge on the need and importance of maintaining good customer relationship</li> </ul>

		<ul style="list-style-type: none"> <li>• Gain knowledge of strategic customer acquisition and retention techniques in CRM</li> <li>• Describe the conceptual aspects of service quality</li> </ul>
Advanced Accounting	Corporate	<ul style="list-style-type: none"> <li>• On the successful completion of this course the student will be able to gain knowledge and understand the concepts and practices of company accounts</li> <li>• The students shall have a comprehensive understanding on the advanced issues in accounting.</li> <li>• The students shall acquire a thorough knowledge in banking accounts. It helps them even to appear for competitive bank examinations.</li> <li>• The students shall get an exposure on the accounts of electricity companies</li> </ul>
	Taxation And Tax Planning	<ul style="list-style-type: none"> <li>• Thorough with the concepts of Taxation.</li> <li>• Prepare accounts under different heads of income</li> <li>• Prepare taxable statements</li> <li>• File Income Tax returns</li> <li>• Gain knowledge of tax deductions</li> </ul>
Computerized With Tally	Accounting	<ul style="list-style-type: none"> <li>• Prepare the accounts with accounting software</li> <li>• Prepare the vouchers and insert into the system</li> <li>• File GST returns and prepare GST reports</li> </ul>

	<ul style="list-style-type: none"> <li>• Prepare the financial reports.</li> <li>• Gain knowledge of interest calculation</li> </ul>
Human Resource Management	<ul style="list-style-type: none"> <li>• Know the basics present trend in Human Resource</li> <li>• Management Help furnish the various job related aspects.</li> <li>• Know various aspects of Human development related issues.</li> <li>• Evaluate the quality aspects of human resources.</li> <li>• Gain an understanding about the safety aspects of Human Resource.</li> </ul>
Business Research Methods	<ul style="list-style-type: none"> <li>• Understand the Concepts Relating to Business Research, Types and Process.</li> <li>• Identify the Research Problem and Draw the Design.</li> <li>• Prepare Questionnaire and Interview Schedule and Formulate &amp; Test the Hypothesis.</li> <li>• Adopt Appropriate Statistical Tools for the Inferences.</li> <li>• Write a Research Report.</li> </ul>
Consumer Rights And Education	<ul style="list-style-type: none"> <li>• Understand the various terms related to Consumers.</li> <li>• Know the Consumers rights and duties and how to enforce their rights.</li> <li>• Gain knowledge of the provisions and procedures under Consumer Protection Act.</li> <li>• Familiar with Consumer related Legislations and Organisations.</li> </ul>

	<ul style="list-style-type: none"> <li>• Know the methods of creating awareness and education</li> </ul>
Financial Derivatives	<ul style="list-style-type: none"> <li>• Gain an understanding of the concept of Derivatives and its types.</li> <li>• Get acquainted about Options and Futures.</li> <li>• Describe about hedging and the development position of derivatives in India.</li> <li>• Gain mastery over the financial derivatives market in India.</li> <li>• Understand about stock futures</li> </ul>
Management Information System	<ul style="list-style-type: none"> <li>• Gain in-depth knowledge on information systems in business and their management.</li> <li>• Learn the objectives and components of data base management systems.</li> <li>• Know the approaches involved in developing MIS.</li> <li>• Know transaction processing and Support system.</li> <li>• Gain knowledge on functional Information systems</li> </ul>
Applied Costing	<ul style="list-style-type: none"> <li>• Gain familiarity with the various cost concepts, and elements of cost.</li> <li>• Prepare cost sheets.</li> <li>• Apply different methods and techniques of cost control.</li> <li>• Gain knowledge of different methods of payment of wages and incentives.</li> <li>• Get acquaintance with the application of Marginal costing for Business decision making</li> </ul>

<p>Indirect Taxation</p>	<ul style="list-style-type: none"> <li>• Students will get an understanding on indirect taxation system in India.</li> <li>• Students will get working knowledge on GST.</li> <li>• Students will be able to compute GST.</li> <li>• Students will prepare and submit returns for GST.</li> <li>• Students will gain knowledge about customs procedure.</li> </ul>
<p>E-Commerce</p>	<ul style="list-style-type: none"> <li>• Students shall understand the fundamental principles of e-business and e-commerce</li> <li>• The learners shall understand the impact of information and communication technologies on business</li> <li>• Students shall understand the tools and services used by virtual e-commerce sites</li> </ul>
<p>Financial Markets And Institutions</p>	<ul style="list-style-type: none"> <li>• Understand the basic concepts of financial markets</li> <li>• Gain knowledge on the working of commercial paper market, including bill market</li> <li>• Describe the evolution of capital market</li> <li>• Understand the functioning of various financial institutions such as NABARD, EXIM bank, etc</li> <li>• Know the working of various credit rating agencies such as CRISIL, etc.</li> </ul>

**MASTER OF SOCIAL WORK**

**FOUNDATIONS OF SOCIAL WORK**

<b>CO.No</b>	<b>Course Outcome</b>	<b>PSOs/PO</b>	<b>Cognitive</b>
<b>CO -1</b>	Thorough knowledge on the history, philosophy and different Methods of Social Work, fields of Social Work and development of Social Work profession and Social Work education	PSO1,3	R,U
<b>CO -2</b>	Understand the context of emergence of social work as a profession	PSO 1, 2	U,R
<b>CO -3</b>	Demonstrate understanding of the various methods and Settings of practice in which social workers perform their functions.	PSO 1, 4	Ap
<b>CO -4</b>	Appraise the Social Work Education in terms of the theory and	PSO 1,5	C
<b>CO -5</b>	Examine and Familiarize the core values and philosophy of	PSO 1, 5	E
<b>CO -6</b>	Analyze the importance of social work profession and	PSO 1, 2	An
<b>CO -7</b>	Critically analyze the social problems	PSO 1, 3,5	An

**PSYCHOLOGY FOR SOCIALWORK PRACTICE**

**COURSE OUTCOME:**

<b>CO.No</b>	<b>Course Outcome</b>	<b>PO/ PSOs</b>	<b>Cognitive</b>
<b>CO -1</b>	Remember the concepts, scope and nature of psychology as a discipline	PSO 1, 5	An

<b>CO -2</b>	Understand evolution of personality across individual life span	PSO 1, 6	An
<b>CO -3</b>	Record , describe and identify the various developmental stages of human life	PSO 1, 3	C
<b>CO -4</b>	Demonstrate the appropriate milestones to the developmental period	PSO 1,4	E
<b>CO -6</b>	Analyze the human emotion and perception and its applications	PSO 1, 5	An
<b>CO -7</b>	Construct the personality theories into the practice	PSO 1, 2	E
<b>CO -8</b>	Formulate estimate and measure the personality using the techniques	PSO 1, 3	E

### **WORKING WITH INDIVIDUALS**

<b>CO.No</b>	<b>Course Outcome</b>	<b>PSOs Addressed</b>	<b>Cognitive Level</b>
<b>CO -1</b>	Remember the knowledge of the principles, methods assumptions and limitations of Social Case Work	PSO 1, 5	R
<b>CO -2</b>	Enhance different skills and techniques in practicing the Different process, approaches and methods of social case work in dealing with Individuals' issues and problems.	PSO 1, 2	R,U
<b>CO -4</b>	Examine the various steps in Social Case Work process.	PSO 1,4	An
<b>CO -5</b>	Interpret the Case Work interview and communication Components.	PSO 1, 5	Ap
<b>CO -6</b>	Compare and contrast the various therapies and techniques in working with individuals	PSO 1, 6	An
<b>CO -7</b>	Develop appropriate skills and attitudes to work with individuals and families	PSO 1, 3	Ap
<b>CO -8</b>	Appraise the different Social Case Work practice settings	PSO 1, 4	C

### SKILL ENHANCEMENT COURSE-1

COURSE	OUTCOME
Skill Enhancement	<ul style="list-style-type: none"><li>• To get exposure to different social issues and social welfare agencies.</li><li>• To get acquainted with the structure, functioning and staffing pattern and activities of the organization.</li><li>• To observe and develop a spirit of enquiry.</li><li>• To participate in group discussions.</li><li>• To make use of the supervision &amp; guidance in understanding social issues.</li><li>• To document the outcome of visits</li></ul>

### RURAL CAMP

COURSE	OUTCOME
Rural camp	<p>The objective of the rural camp is</p> <ol style="list-style-type: none"><li>1. To make the social work trainees to experience group living and to initiate and participate in development work in a village identified by the department and the students together.</li><li>2. To expose the students to rural life and living.</li><li>3. To enable the students to learn by carrying out development projects after identifying local</li><li>4. To help them to develop capacities and attitudes suitable for group living.</li><li>5. To inculcate the spirit of working in a team</li></ol>



## SOCIAL SCIENCE FOR SOCIAL WORK PRACTICE

### COURSE OUTCOME:

CO.No	Course Outcome	PSOs Addressed	Cognitive Level
CO -1	Recall the various concepts, characteristics, functions of Sociological and other discipline	PSO 1, 5	R
CO -2	Understand various concept and relationship of various discipline of Sociology, Economics, Political Science and	PSO 1, 2	U
CO -3	Interpret social work and its principles, methods with	PSO 1, 5	R
CO -4	Discriminate different concepts and its relationships	PSO 1,4	An
CO -6	Sketch out the multi disciplinary approach in social work	PSO 1, 6	Ap,E

### WORKING WITH GROUPS

CO.No	Course Outcome	PSOs Addressed	Cognitive Level
CO -1	To understand the concept, methods, Historical development of the practice of group work as a profession its issues	PSO 1, 5	R,U
CO -2	Demonstrate the process of working with groups.	PSO 1, 6	Ap
CO -3	Assess the roles and skills of social group worker	PSO 1, 4	C
CO -4	Discriminate the various skills and roles of group worker	PSO 1,4	An
CO -5	Prepare an understanding on the theories for Social Group Work	PSO 1, 5	Ap

<b>CO -6</b>	Indicate an understanding on the therapeutic interventions in Social Group Work	PSO 1, 6	U
<b>CO -7</b>	Estimate the Social Group Work Practice in different Settings	PSO 1, 6	C
<b>CO -8</b>	To develop different Skills and Techniques in practicing the different process, Approaches, and Methods of Social Group Work in dealing with individual in group's issues and problems	PSO 1, 6	An, U

### **WORKING WITH COMMUNITY AND SOCIAL ACTION**

<b>CO.No</b>	<b>Course Outcome</b>	<b>PSOs Addressed</b>	<b>Cognitiv Level</b>
<b>CO -1</b>	Acquire basic knowledge on Community Organization and	PSO 1,2, 6	U
<b>CO -2</b>	Discuss the nature of Community Power structure and	PSO 3,5	U,An
<b>CO -3</b>	Understand the Historical development of the Practice of Community Organization and Social Action as a Profession and its Issues/Programmes.	PSO 1 , 3	U
<b>CO -4</b>	Examine the Models and Methods of Community	PSO 1,6	An,E
<b>CO -5</b>	develop different skills and techniques in practicing the different process, approaches, and methods of Community Organization and Social Action in dealing with communities	PSO 1,4,6	An,Ap

## SOCIAL WORK RESEARCH

CO.No	Course Outcome	PSOs Addressed	Cognitive Level
CO -1	Recall and recognize the concepts and scope of Social Work Research and Statistics	PSO 3, 4	R,U
CO -2	Synthesis and evaluate the process of scientific research	PSO 3, 4	C
CO -3	Formulate and choose suitable sample methods for the Study	PSO 3, 4	E,Ap
CO -4	Analyze the different Process and Methodology of the Scientific Social Work Research.	PSO 3, 4	An
CO -5	Develop different Skills and technique in formulating Research, Proposal, Collection, Analysis, Interpretation and Reporting of data pertaining to individuals, groups, communities and Institutions of their Social issues and problems.	PSO 3, 4	An, C
CO -6	Calculate and measure the statistical techniques to make accurate inferences	PSO4,6	C,Ap

## SOCIAL WELFARE ADMINISTRATION AND SOCIAL LEGISLATIONS

CO.No	Course Outcome	PSOs Addressed	Cognitive Level
CO -1	Acquire knowledge on concepts of Social Work Administration and Social Legislation.	PSO 1,3	R
CO -2	Recognize the basic concepts of Social Legislation.	PSO 1, 2	U
CO -3	Demonstrate understanding on the legislations relating to social problems	PSO 1, 5	Ap
CO -4	Estimate the need and importance of social legislation	PSO 1,4	U
CO -5	Examine the various welfare programmes	PSO 1, 6	An
CO -6	Compare and contrast the social welfare agencies and	PSO 1, 6	An
CO -7	Remember the various concepts related to Administrative	PSO 1, 6	R
CO -8	Indicate social Welfare Programs and social development	PSO 1, 6	U,An

## .PROJECT FORMULATION AND EVALUATION

CO.No	Course Outcome	PSOs Addressed	Cognitive Level
CO -1	Recognize the basic concepts of Project Development.	PSO 1, 6	R
CO -2	Estimate the importance of Documentation	PSO 3, 5	U
CO -3	Extrapolate the methodology to plan projects	PSO 4,6	Ap
CO -4	Illustrate the concepts of Logical Frame Analysis of the Proposal.	PSO 3,6	Ap
CO -5	Relate the concept of art of mobilizing resources for Projects.	PSO 5, 6	R
CO -6	Predict various government programs funding for projects	PSO2,6	C
CO-7	Categorize private agencies supporting projects.	PSO2,6	An
CO -8	Demonstrate Report Writing.	PSO 3,6	Ap

## HEALTH AND HYGINE

CO.No	Course Outcome	PSOs Addressed	Cognitive Level
CO -1	State and recall the basic concepts of health.	PSO 1, 3	R
CO -2	Describe and identify the various influencing factors on the health status of individuals	PSO 1, 6	U
CO -3	Distinguish different types of hygiene practice & nutrition	PSO 1, 4	An
CO -4	Recognize the different types of diseases, treatment & Prevention.	PSO 1,5	U
CO -5	Infer the concept of health issues in the community.	PSO 3, 6	Ap
CO -6	Importance of Health Network, administration of Health Care	PSO 2, 6	R
CO -7	Explore the Research inHealth	PSO 1, 4	E
CO -8	Estimate Health statistics and Health Indicators.	PSO 1, 5,6	U

## MENTAL HEALTH

<b>CO.No</b>	<b>Course Outcome</b>	<b>PSOs Addressed</b>	<b>Cognitive Level</b>
<b>CO -1</b>	Recall and record various concepts involved in mental health.	PSO 1, 6	R
<b>CO -2</b>	State and order the range of normal and abnormal in mental health behaviour	PSO 1, 6	U
<b>CO -3</b>	Describe and distinguish the need of community Psychiatry and mental health	PSO 1, 3	An
<b>CO -4</b>	Apply and illustrate the classification and assessment of Psychiatric illness	PSO 1,6	Ap
<b>CO -5</b>	Summarizes and invent various psychiatric disorder for the Purpose of diagnoses	PSO 1, 6	E
<b>CO -6</b>	Measure and appraise various intervention module for the Psychiatric illness	PSO 1, 3	C
<b>CO -7</b>	Generate and design various psychiatric illness and value For psychosocial diagnoses.	PSO 1, 3	C
<b>CO -8</b>	Justify and defend the childhood disorders in the mental	PSO 1, 3	C

## MEDICAL SOCIAL WORK

<b>CO.No</b>	<b>Course Outcome</b>	<b>PSOs Addressed</b>	<b>Cognitive Level</b>
<b>CO -1</b>	Recognize the Objective, Nature, Need and Scope of Medical Social Work	PSO 1, 6	U
<b>CO -2</b>	Restate the historical development of Medical social work In India & Abroad	PSO 1, 6	R
<b>CO -3</b>	Label the basic Concepts & classifications of physical disabilities.	PSO 1, 3	U
<b>CO -4</b>	Reproduce the concept of patient as a whole	PSO 1,3	U
<b>CO -5</b>	Predict about Multi disciplinary team work in hospital.	PSO 1, 6	C
<b>CO -6</b>	Choose the Laws pertaining to Hospitals	PSO 3,6	Ap
<b>CO -7</b>	Categorize the practice of social work methods in hospital	PSO 1,6	An
<b>CO -8</b>	Evaluate the role & functions of a medical social worker In various settings	PSO 1,6	E

### LABOUR WELFARE

<b>CO No</b>	<b>Course Outcome</b>	<b>PSOs Addressed</b>	<b>Cognitive Level</b>
<b>CO -1</b>	Recognize and state the concept of labor welfare under the purview of post-independence and current era	PSO 1, 6	R
<b>CO -2</b>	Interpret and illustrate the changing scenarios of the labor Approaches	PSO 1, 6	Ap
<b>CO -3</b>	Summaries the importance of occupational health and industrial hazards	PSO 1, 6	E
<b>CO -4</b>	Relate and interpret the occupational disease and its safety Management	PSO 1,3	Ap
<b>CO -6</b>	Illustrate and infer the labor insight about the welfare Program	PSO 3,5	Ap
<b>CO -8</b>	Extrapolate the use of Industrial counseling in the context Of Labor Welfare	PSO 5,6	Ap

### LABOUR LEGISLATIONS-1

<b>CO No</b>	<b>Course Outcome</b>	<b>PSOs Addressed</b>	<b>Cognitive Level</b>
<b>CO -1</b>	Recognize and state the concept of Concept, Need and Sources of Labour Legislations.	PSO 1, 4	R
<b>CO -2</b>	Interpret and illustrate Working Conditions laid down in the repealed acts	PSO 1, 6	Ap
<b>CO -3</b>	Summaries the importance of occupational health and industrial hazards	PSO 1, 5	E
<b>CO -4</b>	Relate and interpret the occupational disease and its safety Management	PSO 1,3	Ap
<b>CO -5</b>	Identify the suitable labor legislation and the code on Industrial Relations 2020	PSO 3, 5	U
<b>CO -6</b>	Illustrate and infer about the Labor Acts on Union Relations	PSO 3,4	Ap

## HUMAN RESOURCE MANAGEMENT

### COURSE OUTCOME:

CO. No	Course Outcome	PSOs Addressed	Cognitive Level
CO -1	Recognize insights in to basic management concepts.	PSO 1, 6	R
CO -2	Identify and restate the importance of planning in Managing the organizations	PSO 1, 6	U
CO -3	Interpret the importance of Training and development	PSO 1, 4	Ap
CO -4	Categorize the dynamism of change management.	PSO 1,4	An
CO -5	Restate the area of Quality of work life	PSO 1, 6	R
CO -6	Reproduce the concept and scope of social work methods	PSO 1, 5	R
CO -7	Demonstrate the Strategic HRM & Current Trends in HR	PSO 1, 5	Ap&E
CO -8	Compare and contrast the application of social work	PSO 1, 6	An

### SKILL ENHANCEMENT COURSE –III

COURSE	OUTCOME
SKILL ENHANCEMENT COURSE –III	<ul style="list-style-type: none"><li>• To understand and critique structural and systemic factors that influence service users</li><li>• To undertake social work interventions in the field of specialization</li><li>• To imbibe ethics and values of the Social Work profession in their fields of specialization.</li></ul>

## HEALTH SYSTEM MANAGEMENT

<b>CO. No</b>	<b>Course Outcome</b>	<b>PSOs Addressed</b>	<b>Cognitive Level</b>
CO -1	Recognize the Objective, Nature, Need and Scope of Social work in hospital settings	PSO 1, 6	U
CO -2	Restate the Evolution of social work profession from Charity to Modern Hospitals	PSO 1, 6	R
CO -3	Critically analyse the problems in hospital administration through case studies evaluation and its solution	PSO 5, 4	Ap,E
CO -4	Reproduce the concept of patient as a whole	PSO 1,3	U
CO -5	Predict about Multidisciplinary team work in hospital.	PSO 5, 6	C
CO -6	Choose the Laws pertaining to Hospitals	PSO 3,6	Ap
CO -7	Categorize the practice of social work methods in hospital Setting	PSO 1,6	An
CO -8	Evaluate the role & functions of a medical social worker in Various settings	PSO 1,6	E

## COUNSELLING-THEORY ANDPRACTICE

<b>CO. No</b>	<b>Course Outcome</b>	<b>PSOs Addressed</b>	<b>Cognitive Level</b>
CO -1	Recall the basic concepts of Counselling and Guidance	PSO 2,3	R
CO -2	Categorize the various types of counselling and Counseling Relationship	PSO 5,6	An
CO -3	Reproduce the approaches to Counselling and its elements,	PSO 1,2,6	R
CO -4	Categorise various types of communication in counselling	PSO 4, 5, 6	An
CO -5	Predict the skills and qualities of counsellor	PSO 1, 6	C
CO -6	Recognise the issues and boundaries of counsellor	PSO 2,3	R
CO -7	Estimate different counseling contexts	PSO 1,5	U
CO -8	Appraise the use of counseling in different settings	PSO 1, 6	C



## INDUSTRIAL RELATIONS

CO. No	Course Outcome	PSOs Addressed	Cognitive Level
CO -1	Recognize various concepts, origin and scope of Industrial relations.	PSO 2, 6	R
CO -2	Explain ILO and its current scenario in reality and in theory	PSO 2, 6	U
CO -3	Differentiate trade union and its diversity in functioning	PSO 2, 3	An
CO -4	Relate collective bargaining and negotiation	PSO 1,6	R
CO -5	Appraise the settlement machinery suitable for the employees' demands.	PSO 3, 6	C
CO -6	Evaluate the discipline and its handling procedures	PSO 3, 6	C
CO -7	Appraise and justify the various grievances handling procedures	PSO 3, 6	C
CO -8	Demonstrate and later assess the various working committee and worker's participation council	PSO 3, 6	Ap

## LABOUR LEGISLATIONS – II

CONo	Course Outcome	PSOs Addressed	Cognitive Level
CO -1	Recognize and State the concept of The Industrial Disputes Act	PSO2, 6	R
CO -2	Interpret and illustrate the changing scenarios of the labor acts	PSO1, 5	Ap
CO -3	Summaries the importance of Subsistence Allowance And Industrial Act	PSO1, 4	E
CO -4	Relate and interpret the social Security related labour acts	PSO1,3	Ap
CO -5	Identify the suitable labor legislation and the working labor Welfare	PSO3,5	U
CO -6	Illustrate and infer the labor insight about the welfare program	PSO3,5	Ap
CO -8	Extrapolate the use of legislations in the context of Labor Welfare	PSO5,6	Ap

## ORGANISATIONAL BEHAVIOUR

CO No	Course Objective	PSOs Addressed	Cognitive Level
CO -1	Describe an understanding on the importance of OB in organizations.	PSO 2,3	U
CO -2	Extrapolate the use of team building in the organization	PSO 4,5	Ap
CO -3	Compose insights in to decision making.	PSO 1,5,6	E
CO -4	Restate the group behavior in the organization	PSO 3,6	U
CO -5	Summarize the importance of motivation in the organization	PSO 4,6	E
CO -6	Justify the role of leadership in the organization	PSO 2, 6	C
CO -7	Estimate the training and development in organization	PSO 1, 6	U
CO -8	Compare and contrast the emerging trends in Organizational Behavioral in different sectors.	PSO 3, 6	E
CO -9	Gain Skills and Knowledge on Organizational Behavior	PSO 1, 6	Ap

## SKILL ENHANCEMENT COURSE-IV

COURSE	OUTCOME
Skill enhancement course	<ul style="list-style-type: none"> <li>• Obtained Field Work experience related to their specialization</li> <li>• Obtained the Pre-employment training experiences.</li> </ul>