# DEVA MATHA COLLEGE KURAVILANGAD

**Affiliated to Mahatma Gandhi University, Kottayam**

## OUTCOME BASED EDUCATION

## (OBE)

# PROGRAMME OUTCOMES (PO), PROGRAMME SPECIFIC OUTCOMES AND COURSE OUTCOMES

DEVA MATHA COLLEGE KURAVILANGAD

# INDEX

**PROGRAM OUTCOMES OF PG COURSES**

**PROGRAM SPECIFIC OUTCOMES AND COURSE OUTCOMES OF PG COURSES**

1. **M.A. ENGLISH**
2. **M.A. MALAYALAM**
3. **M.Sc. PHYSICS**
4. **M.Sc. CHEMISTRY**
5. **M.A. ECONOMETRICS**
6. **M.Sc. MATHEMATICS**
7. **M.Sc. BOTANY**
8. **M.Sc. ZOOLOGY**
9. **M.Com. FINANCE AND TAXATION**

**PROGRAM OUTCOMES OF UG COURSES**

**PROGRAM SPECIFIC OUTCOMES AND COURSE OUTCOMES OF UG COURSES**

1. **B.A. ECONOMICS**
2. **B.Sc. ZOOLOGY**
3. **B.Sc. MATHEMATICS**
4. **B.Com. COMPUTER APPLICATION**



DEVA MATHA COLLEGE KURAVILANGAD

5. **B.Sc. BOTANY**
6. **B.Sc. CHEMISTRY**
7. **B.Sc. PHYSICS**
8. **B.A. MALAYALAM**
9. **B.A. ENGLISH**
10. **B.A. ENGLISH TRIPLE MAIN**
11. **B.Com. FINANCE AND TAXATION**
12. **B.Com. CO-OPERATION**
13. **Department of Physical Education - Open Course.**

# PROGRAMME OUTCOMES - P.G COURSES

| PO No | PROGRAMME OUTCOMES |
|---|---|
| PO1 | DEVELOP CRITICAL THINKING AND DRIVE FOR SCIENTIFIC EXPLORATION |
| PO2 | GAIN IN-DEPTH UNDERSTANDING OF THE PRINCIPLES AND PHILOSOPHIES OF THE SUBJECT |
| PO3 | DEVELOP RESEARCH APTITUDE |
| P04 | ACQUIRE DATA INTERPRETATION AND PROBLEM SOLVING SKILLS |
| PO5 | ACQUIRE OF PRACTICAL SKILLS IN THE AREA OF SPECIALIZATION. |
| PO6 | EFFECTIVELY COMMUNICATE IDEAS, PRINCIPLES AND CONCEPTS |
| PO7 | ENHANCE EMPLOYABILITY THROUGH APPLICATION ORIENTED LEARNING |
| PO8 | PRACTICE PROFESSIONAL AND PUBLICATION ETHICS THEREBY IMPROVE ETHICAL DECISION MAKING ABILITY |
| PO9 | CREATE DRIVE FOR LEADERSHIP, INNOVATION AND ENTREPRENEURSHIP |
| PO10 | DEVELOP POSITIVE ATTITUDE TOWARDS ENVIRONMENTAL SUSTAINABILITY AND INCLUSIVITY |



DEVA MATHA COLLEGE KURAVILANGAD

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| **PROGRAMME NAME: M.A. ENGLISH LANGUAGE AND LITERATURE**<br>**PROGRAMME CODE: DMCK-PG-ENG-M1-AD** | | |
| **PROGRAMME SPECIFIC OUTCOMES** | | |
| **PSO1** | **Describe the evolution and development of literature in the English Language. (Analyze)** | |
| **PSO2** | **Develop competence with reference to Literatures/Narratives in English (Apply)** | |
| **PSO3** | **Discuss the historicity and contemporaneity of 'language/communication (Analyze)** | |
| **PSO4** | **Evaluate the interdisciplinary and global cultural aftermaths of English language (Evaluate)** | |
| **PSO5** | **Reflect on the social and ethical dimensions of research in humanities (Apply)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER 1** | | |
| **COURSE CODE** | **COURSE NAME** | **COURSE OUTCOMES** |
| **EN010101** | **UP UNTIL CHAUCER: EARLY LITERATURES IN ENGLISH** | **CO 1: Describe the major themes in Ancient and Medieval English literature as an expression of Anglo-Saxon culture and society (remember level)** |

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| | | **CO 2: Identify the early beginnings of English literature (understand level)**<br><br>**CO3: Explain the early forms of drama like miracle plays, morality plays etc. and their role in the evolution of English Theatre (understand level)**<br><br>**CO4:Recognize the English legends and epics (remember level)**<br><br>**CO5:Analyze the world of Chaucer and his contemporaries and analyse their importance in the evolution of modern English (analyze level)**<br><br>**CO6: Analyze the historical periods of old English and Middle English (analyze level)** |
| **EN010102** | **LITERATURES OF ENGLISH RENAISSANCE** | **CO1:Examine the literature, thought, culture of the renaissance period in England (remember level)**<br><br>**CO2:Illustrate the radical change in outlook and way of life represented in the literary works (understand level)**<br><br>**CO3: Discus the confluence of social, political and economic forces affected the creation of Renaissance literature (understand level)**<br><br>**CO4:Identify the relationship between renaissance writing and its socio-political context (understand level)**<br><br>**CO5:Identify the relationship between renaissance writing and its socio-political context (understand level)** |
| **EN010103** | **LITERATURES OF THE ENGLISH** | **CO1:Describe the late seventeenth and the eighteenth century literary scenario [understanding level]**<br><br>**CO2:Analyze the various elements of Eighteenth Century** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | **REVOLUTION/ ENLIGHTENMENT** | **poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc.[analyze level]**<br><br>**CO3: Understand and appreciate Neo-classical poetry as a literary art form [evaluate level]**<br><br>**CO4:Develop a deeper appreciation of Eighteenth century sentimental plays [evaluate level]**<br><br>**CO5:Devise an in-depth critique of the philosophy of the Enlightenment [create level]** |
| **EN010104** | **19th CENTURY ENGLISH LITERATURES** | **CO1:To examine the two major periods of English literature namely Romanticism and Victorianism (remember level)**<br><br>**CO2:To describe the fundamental literary movements, theories and ideas which are characteristic of this period (understand level)**<br><br>**CO3:To develop a thorough understanding of the writings of these periods and how the social life is social reflected in them (apply level)**<br><br>**CO4: To explain the Romantic ideals of imagination and to assert that subjectivity is the keynote of Romanticism and that it is meant for the Rustics (understand level)**<br><br>**CO5:To explain that Victorian period mainly highlights three aspects namely political consciousness, social reform and religious uncertainty and how these are reflected in the writings of this period (understand level)** |
| **EN010105** | **LITERARY CRITICISM** | **CO1:To identify the historical, political and aesthetic dimensions of the growth of literary criticism (remember level)**<br><br>**CO2: To identify the shift from liberal humanist paradigm towards Theory (understand level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO3:To describe the basics of Literary Criticism (understand level)**<br><br>**CO4:To analyse and interpret literature based on the theories (analyze level)**<br><br>**CO5:To examine new literary and critical approaches and encompass knowledge of criticism to other artistic expressions (apply level)** |
| **SEMESTER 2** | | |
| **EN010201** | **MODERNITY AND MODERNISMS** | **CO 1: Describe the literary trends of the early 20th century in the context of literary modernism in the wake of world wars (remember level)**<br><br>**CO 2: Identify the various cultural movements affected the 20th century literature (understand level)**<br><br>**CO 3: Illustrate the philosophical changes influenced the literary representation of 20th century (understand level)**<br><br>**CO 4: Analyse various literary techniques cherished the literary works of modern poetry (analyze level)**<br><br>**CO 5: Analyse new trends embraced by the modern dramatists (analyze level)** |
| **EN010202** | **POSTMODERNISM AND BEYOND** | **CO1- To describe the theoretical concepts of postmodernism through the select essays (remember level)**<br><br>**CO2- To analyze the eclectic dimension of postmodern thought as revealed through the reading of the variety of postmodern literature encompassed (analyze level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO3- To evaluate the evolution of postmodern fiction over the decade and its culmination in cyberpunk literature (evaluate level)**<br><br>**CO4- To develop a cognitive framework that enables the learner to form a critique of oppressive ideologies and acknowledge heterogeneity in articulation (apply level)** |
| **EN010203** | **AMERICAN LITERATURES** | **CO1: To describe major writers of American literature (remember level)**<br><br>**CO2: To discuss the socio-political changes in America during this era (understand level)**<br><br>**CO3: To examine the social life and the betterment in the life style of the people in general (apply level)**<br><br>**CO4: To identify the general trend of the writers and their approach towards nature (understand level)**<br><br>**CO5: To analyze the American nationalistic spirit as well as their struggle to maintain identity in the face of discrimination (analyze level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **EN010204** | **ENGLISH LANGUAGE HISTORY AND CONTEMPORARY LINGUISTICS** | **CO 1: Describe the process of human communication through an objective study of language (remember level)**<br><br>**CO 2: Discuss the key concepts of linguistics and develop awareness of the latest trends in language study (understand level)**<br><br>**CO 3: Explain the classification of speech sounds and their manner of articulation (apply level)**<br><br>**CO 4: Develop better and intelligible pronunciation so as to improve the general standard of pronunciation in everyday conversation (apply level)**<br><br>**CO 5: Distinguish between various branches of linguistics and their scope in everyday lives (apply level)** |
| **EN010205** | **THINKING THEORY** | **CO1: Describe certain core aspects of what is currently designated as literary theory (understand level)**<br><br>**CO2: Explain select current developments in the domain of literary theory (understand level)**<br><br>**CO3: Evaluate the contemporary culture through the application of various literary theoretical formulations (evaluate level)**<br><br>**CO 4: Establish the critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres (apply level)**<br><br>**CO 5: Analyze the critical ideas and themes that appear in literary and cultural texts to explain the way these ideas impact culture and society, both now and in the past (analyze level)** |



DEVA MATHA COLLEGE KURAVILANGAD

| SEMESTER3 | | |
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| **EN010301** | **READING INDIA** | **CO 1: Identify the major Indian writers in English in various periods (remember level)**<br><br>**CO 2: Explain the various phases of the evolution of Indian writing in English (understand level)**<br><br>**CO 3: Describe the thematic concerns, genres and trends of Indian writing in English (understand level)**<br><br>**CO 4: Analyze representative literary and cultural texts within a significant number of historical, geographical, and cultural contexts (analyze level)**<br><br>**CO 5: Evaluate the story, plot, characterization and tone of a work of literature in English (evaluate level)** |
| **EN010302** | **POSTCOLONIAL FICTION** | **CO1: Describe the discursive nature of colonialism (understand level)**<br><br>**CO2: Discuss the counter-discursive impulses of postcolonial theory, narratives and texts (understand level)**<br><br>**CO3: Analyse the depth and nature of 'internal colonisation' (analyze level)**<br><br>**CO4: Apply the theoretical approach of post colonialism to the reading and analysis of literary and cultural texts in multiple genres (apply level)**<br><br>**CO5: Evaluate the experienced reality of populace of postcolonial countries (evaluate level)** |
| **EN010303** | **BODY, TEXT AND PERFORMANCE** | **CO1: Describe patterns like dance, performance in the form of gender/transgender/autobiography [understand level]** |

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| | | **CO2: Recognize the interface between the verbal and the visual [remember level]**<br><br>**CO3: Analyze and appreciate poetry as a literary art form [analyze level]**<br><br>**CO4: Evaluate the aspects of power and powerlessness in texts [evaluate level]**<br><br>**CO5: Compare various performances where body and text has taken political stands [evaluate level]** |
| **EN010304** | **LITERATURE AND GENDER** | **CO1: Describe the emergence and growth of the notion of gender as a concept central to the reading of literature (understand level)**<br><br>**C02: Identify concepts of class, race and gender as social constructs and interrelated throughout women's lives (understand level)**<br><br>**CO3: Examine the women writers from various literatures across the world**<br><br>**CO4: Examine the predicament and plight encountered by the women in society via the prescribed books**<br><br>**CO5:Analyze the uniqueness of female creativity in women's writings (analyze level)** |
| **EN010305** | **ETHICS IN/AS LITERATURE** | **CO1: Describe the varied narrative traditions in English novels with a specific focus on their narrative modes (understand level)**<br>**CO2: Discuss various ethical concerns and formal choices of different narrative traditions (understand level)**<br><br>**CO3: Compare the transcultural and transnational literary narratives of different ages (understand level)**<br><br>**CO4: Evaluate the various ethical, formal choices that schools, influences and narrative devices have upheld (evaluate level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO5: Develop a comprehensive view of the concept of expressive plurality in literature (apply level)** |
| **SEMESTER4** | | |
| **EN010401** | **CULTURAL STUDIES** | **CO 1: Describe the basic tenets of Cultural Studies (understand level)**<br><br>**CO 2: Discuss the interpretive strategies in and interdisciplinary nature of Cultural Studies as a discipline (understand level)**<br><br>**CO 3: Examine the pervading cultural semiosis that one can discern in societies the world over (apply level)**<br><br>**CO 4: Analyze the poetics and politics of sports-as-myth (analyze level)**<br><br>**CO 5: Interpret the various understandings of socio-cultural identities (apply level)** |
| **EN010402** | **POSTCOLONIAL POETRY** | **CO1: Compare the diversity of poetry coming from the erstwhile colonies of the European Colonial Empires [understand level]**<br>**CO2: Examine postcolonial issues like Identity, Gender, Cultural Poetics and Language Politics [apply level]**<br>**CO3: Think critically about the contexts of exploration and colonialism in relation to postcolonial societies [Evaluate level]**<br><br>**CO4: Examine the histories, politics and theoretical concepts deployed by the term postcolonial, post colonialism and postcoloniality [apply level]**<br><br>**CO5: Distinguish between different approaches to culture, nationalism, multiculturalism, migration,gender and race in the context of post-colonial societies[evaluate level]** |

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| **EN810401** | **TRAUMA NARRATIVES AND MEMORY** | **CO1: Describe how the fictional and academic attempts contextualize the issue of trauma (understand level)**<br><br>**CO2: Develop a critical perspective on the various dimensions of trauma theory and memory studies (apply level)**<br><br>**CO3: Analyze how different literary representations incorporate shared cultural memory in them (analyze level)**<br><br>**CO4: Evaluate the narrative, historical, theoretical, psychoanalytic and aesthetic categories of literary texts (evaluate level)** |
| **EN810402** | **THE ISLAND IN LITERATURE** | **CO1- Describe the broad framework to discern the notion of literary islands (understand level)**<br><br>**CO2- Explain how islands have been portrayed as symbols, metaphors and motifs in literature (apply level)**<br><br>**CO3- Explain how certain are undergirded by both postcolonial and island-geographic cultural concerns (apply level)**<br>**CO4- Analyze how literary representations of islands have been situated and discussed in relation to contemporary postcolonial theories (analyze level)** |
| **EN810403** | **LITERATURE AND FILM** | **CO1: Understand how cinema and Literature are connected /related to each other [understand level]**<br><br>**CO2: Examine the nitty gritty of Film Adaptations of Literature and the concomitant theoretical discussions (apply level)**<br><br>**CO3: Associate the terrain of 'Adaptation' – of Literature into Film [understand level]**<br><br>**CO4: Recognize the interface between the verbal and the visual [remember level]** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **EN010403** | **PROJECT** | **CO1: Interpret the basic aspects of research in Literature and get well-versed with the technicalities of writing a PG project (understand level)**<br><br>**C02: Formulate research problems, selection of topic, background study, writing and proof-reading (create level)** |
| **EN010404** | **COMPREHENSIVE VIVA** | **CO1: Express acquaintance with the programme domain (understand level)**<br><br>**C02: Measure professional etiquette suitable for career progression (evaluate level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **PROGRAMME NAME: M.A. MALAYALAM**<br><br>**PROGRAMME CODE: DMCK-PG-MAL-M1-AD** | |
| **PROGRAMME SPECIFIC OUTCOMES** | |
| **PSO1** | മലയാളഭാഷയുടെയും സാഹിത്യത്തിന്റെയും സൗന്ദര്യശാസ്ത്രപരവും സാംസ്കാരികവുമായ തലങ്ങൾ സൂക്ഷ്മമായും വിമർനാത്മകമായും അപഗ്രഥിക്കുന്നു **(Apply)** |
| **PSO2** | പരിസ്ഥിസംരക്ഷണം, സ്ത്രീസമത്വം, ദലിത് മുന്നേറ്റങ്ങൾ എന്നിവ വിശദീകരിക്കുന്നു**(Analyze)** |
| **PSO3** | സമകാലികലോകത്തിൽ ഭാഷയും സാഹിത്യവും നേരിടുന്ന വെല്ലുവിളികൾ വിലയിരുത്തുന്നു **(Evaluate)** |
| **PSO4** | നവീനസാങ്കേതികവിദ്യയെ മലയാളഭാഷയുമായി സമരസപ്പെടുത്തി ആഗോള പരിണിതികൾ വിവരിക്കുന്നു **(Evaluate)** |
| **PSO5** | ഗവേഷണപ്രബന്ധരചന പരീക്ഷിക്കുന്നു **(Create)** |
| **PSO6** | വൈജ്ഞാനികമായും സർഗാത്മകമായും ഭാഷയെ പുനഃക്രമീകരിക്കുന്നു **(Create)** |
| **COURSE OUTCOMES** | |
| **SEMESTER1** | |
| **ML010101** | കവിത: പ്രാചീനം,മധ്യകാലം | **CO1:** മലയാള കവിതയിലെ തമിഴ്സംസ്കൃത പാരമ്പര്യം വിവരിക്കുക**(Understand)**<br><br>**CO2:** മലയാളത്തിലെ ഭക്തിപ്രസ്ഥാനം സാഹിത്യത്തിൽ ചെലുത്തിയ സ്വാധീനം അപഗ്രഥിക്കുക**(Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO3: മണിപ്രവാള കവിതകളിലെ ഭാഷാ - സാംസ്കാരിക സവിശേഷതകൾ വിവരിക്കുക(Apply)<br><br>CO4: മലയാള കവിതയുടെ പ്രാചീന ഘട്ടം മുതൽ പത്തൊൻപതാം നൂറ്റാണ്ടിന്റെ ആദ്യ പകുതിവരെയുള്ള വികാസപരിണാമങ്ങൾ വിലയിരുത്തുക(Apply)<br><br>CO5: മലയാളത്തിലെ വാമൊഴിപാരമ്പര്യത്തിന്റെ സവിശേഷതകൾ വിവരിക്കുക (Analyze)<br><br>CO6: കാലഘട്ടാനുസൃതമായ് രൂപപ്പെട്ട കാവ്യരൂപങ്ങളുടെ സൗന്ദര്യശാസ്ത്രപരവും ദാർശനികവുമായ സവിശേഷതകൾ വിലയിരുത്തുക (Evaluate) |
| **ML010102** | മലയാളഭാഷ -ചരിത്രവും വർത്തമാനവും | CO1: മലയാളത്തിന്റെ ഉത്ഭവം,വളർച്ച സമകാലികാവസ്ഥ എന്നിവ വിവരിക്കുക **(Understand)**<br><br>CO2: മലയാളത്തിന്റെ അന്യഭാഷാ സമ്പർക്കം മിഷനറിമാരുടെ സംഭാവനകൾ എന്നിവ അപഗ്രഥിക്കുക(Apply)<br><br>CO3: വൈജ്ഞാനിക ഭാഷ അദ്ധ്യയന ഭാഷ എന്നീ നിലകളിലേക്ക് മലയാളം മാറിയത് വിവരിക്കുക (Analyze) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO4: മലയാളഭാഷയുടെ ഭരണപരവും രാഷ്ട്രീയപരവും ജനാധിപത്യപരവുമായ വികാസം വിലയിരുത്തുക (Analyze)<br><br>CO5: മലയാളത്തിന്റെ സമകാലിക പ്രയോഗമാനങ്ങൾ ഉദാഹരണം സഹിതം വിവരിക്കുക (Analyze) |
| **ML010103** | മലയാളചെറുകഥ | CO1: ആദ്യകാല മലയാളചെറുകഥയുടെ രൂപപരവും ഭാവപരവുമായ സവിശേഷതകൾ വിവരിക്കുക(Understand)<br><br>CO2: റിയലിസം,സോഷ്യലിസ്റ്റ് റിയലിസം,ദേശീയ പ്രസ്ഥാനം എന്നിവ മലയാള<br>ചെറുകഥയിൽ വരുത്തിയ മാറ്റങ്ങൾ തിരിച്ചറിയുക(Understand)<br><br>CO3: മലയാളകഥയുടെ ചരിത്രത്തിൽ ആധുനികതാവാദം ചെലുത്തിയ സ്വാധീനം വിവരിക്കുക (Apply)<br><br>CO4: ആധുനികാനന്തര കഥകളിലെ പ്രമേയപരമായ സവിശേഷതകൾ വിവരിക്കുക(Apply)<br><br>CO5: ദളിത്,സ്ത്രീ എഴുത്തിന്റെ വിവിധ മാതൃകകൾ വിലയിരുത്തുക (Analyze)<br><br>CO6: പരിസ്ഥിതി എഴുത്തിന്റെ വിവിധ മാതൃകകൾ വിലയിരുത്തുക (Analyze) |



DEVA MATHA COLLEGE KURAVILANGAD

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| **ML010104** | സാഹിത്യരചനാസങ്കേതങ്ങൾ | **CO1:** വിവിധ സാഹിത്യരൂപങ്ങൾ, അവയുടെ സവിശേഷതകൾ എന്നിവ തിരിച്ചറിയുക**(Understand)**<br><br>**CO2:** വിവിധങ്ങളായ പാശ്ചാത്യ പൗരസ്ത്യ സാഹിത്യ സങ്കേതങ്ങൾ വിവരിക്കുക**(Apply)**<br><br>**CO3:** കാവ്യരചനാസങ്കേതമെന്ന നിലയിൽ വ്യത്തത്തെ വിശദീകരിക്കുക**(Apply)**<br><br>**CO4:** സാഹിത്യരൂപങ്ങൾക്ക് സംഭവിക്കുന്ന രൂപപരമായ പരിണാമങ്ങൾ വിലയിരുത്തുക **(Analyze)**<br><br>**CO5:** ശബ്ദം /അർഥം,രൂപം/ഉള്ളടക്കം എന്നീ ദ്വന്ദങ്ങളിലെ പൊരുത്തങ്ങളും പൊരുത്തക്കേടുകളും വിവരിക്കുക**(Analyze)** |
| **ML010105** | സംസ്കൃതം - ഭാഷയും സാഹിത്യവും | **CO1:** സംസ്കൃത ഭാഷയിലെ നാമരൂപങ്ങൾ , ക്രിയാരൂപങ്ങൾ എന്നിവ വിവരിക്കുക **(Understand)**<br><br>**CO2:** സംസ്കൃതത്തിലെ മഹാകാവ്യങ്ങളെ വിലയിരുത്തുക**(Apply)**<br><br>**CO3:** സംസ്കൃത നാടകങ്ങൾ അപഗ്രഥിക്കുക **(Apply)**<br><br>**CO4:** ഭാരതിയതത്വചിന്തയ്ക്ക് സംസ്കൃത ഭാഷയിലുള്ള സ്വാധീനംവിശദീകരിക്കുക **(Analyze)**<br><br>**CO5:** സംസ്കൃത കാവ്യപാരമ്പര്യത്തിന് കേരളം നൽകിയ സംഭാനകൾ വിവരിക്കുക **(Evaluate)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO6: സംസ്കൃത കാവ്യപാരമ്പര്യത്തിന് കേരളം നൽകിയ സംഭാനകൾ വിവരിക്കുക **(Evaluate)** |
| **SEMESTER2** | | |
| **ML010201** | ആധുനികമലയാളകവിത - ഒന്നാം ഘട്ടം | CO1: മലയാള കവിതയിലുണ്ടായ പരിണാമങ്ങളും പരീക്ഷണങ്ങളും വിലയിരുത്തുക **(Understand)**<br><br>CO2: ആധ്യാത്മിക നവോഥാന ചിന്തകൾ മലയാള കവിതയെ സ്വാധീനിച്ചത് എപ്രകാരമെന്ന് വിവരിക്കുക **(Apply)**<br><br>CO3: വിലാപകാവ്യപ്രസ്ഥാനത്തിന്റെ ഉദയവും വികാസവും വിവരിക്കുക **(Apply)**<br><br>CO4: കാല്പനിക പ്രസ്ഥാനം മലയാള കവിതയിൽ സൃഷ്ടിച്ച മാറ്റങ്ങൾ വിവരിക്കുക **(Analyze)**<br><br>CO5: മിസ്റ്റിസിസം,ലിറിസിസം,സിംബലിസം പോലുള്ള പ്രസ്ഥാനങ്ങൾ മലയാള കവിതയെ സ്വാധീനിച്ചതെപ്രകാരമെന്ന് വിവരിക്കുക**(Evaluate)**<br><br>CO6: സോഷ്യലിസ്റ്റ് ആശയങ്ങൾ മലയാള കവിതയെ എപ്രകാരം സ്വാധീനിച്ചുവെന്ന് അപഗ്രഥിക്കുക**(Evaluate)** |
| **ML010202** | ഭാഷാശാസ്ത്രം | CO1: മനുഷ്യഭാഷയുടെ വ്യാവർത്തകധർമ്മങ്ങൾ വിവരിക്കുക **(Understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO2: സ്വനവിജ്ഞാനത്തിന്റെഅടിസ്ഥാന സങ്കൽപ്പങ്ങൾ വിവരിക്കുക (Apply)<br><br>CO3: സ്വനിമ രൂപിമ നിർണയത്തിന്റെ ആശയധാരകൾ അപഗ്രഥിക്കുക (Analyze)<br><br>CO4: പരമ്പരാഗത വ്യാകരണത്തിലും ഘടനാത്മക സമീപനത്തിലും വാക്യഘടനയെക്കുറിച്ചുള്ള സങ്കൽപം എപ്രകാരമെന്ന് താരതമ്യം ചെയ്യുക(Analyze)<br><br>CO5: ഭാഷാപഠനത്തിലെ പുതുപ്രവണതകൾ വിവരിക്കുക (Analyze)<br><br>CO6: സാമൂഹിക ഭാഷാശാസ്ത്രത്തിന്റെ വിവിധമാനങ്ങൾ അപഗ്രഥിക്കുക (Evaluate) |
| ML010203 | കേരളസംസ്കാരം | CO1: സംസ്കാരം എന്ന പദത്തിന്റെ അർത്ഥവിവക്ഷകൾ തിരിച്ചറിയുക (Understand)<br><br>CO2: സംഘകാലത്തെ ജനജീവിതത്തിന്റെ സാമൂഹികസ്വഭാവവും പരിമിതികളും വിവരിക്കുന്നു (Apply)<br><br>CO3: ശാസന ഭാഷയുടെ സവിശേഷതകൾ വിവരിക്കുന്നു(Apply)<br><br>CO4: കേരളീയ മതജീവിതത്തിന്റെ ചരിത്രം വിലയിരുത്തുന്നു(Analyze)<br><br>CO5: നാടുവാഴി പാരമ്പര്യം, വിദേശശക്തികൾ ചെലുത്തിയ സ്വാധീനം എന്നിവ വിലയിരുത്തുന്നു (Analyze) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO6: കേരളത്തിലെ നവോഥാന മുന്നേറ്റങ്ങൾ<br><br>രാഷ്ട്രീയ മാറ്റങ്ങൾ എന്നിവ വിലയിരുത്തുക **(Evaluate)** |
| **ML010204** | മലയാളനോവൽ | CO1: മലയാള നോവലിന്റെ ഉത്ഭവവും വളർച്ചയും<br>ആധുനികീകരണപ്രക്രിയയുമായി<br>ബന്ധപ്പെട്ടിരിക്കുന്നുവെന്ന് തിരിച്ചറിയുന്നു **(Understand)**<br><br>CO2: നവോഥാനം, ഇടതുപക്ഷരാഷ്ട്രീയം<br>എന്നിവ നോവൽ സാഹിത്യത്തിൽ<br>ചെലുത്തിയ<br>സ്വാധീനങ്ങൾ വിവരിക്കുക**(Apply)**<br><br>CO3: ആധുനികതാ വാദം, അസ്തിത്വവാദം<br>തുടങ്ങിയ ആശയാധാരകൾ<br>മലയാളനോവലിൽ വരുത്തിയ മാറ്റങ്ങൾ<br>വിലയിരുത്തുക**(Apply)**<br><br>CO4: കേരളത്തിലെ നവോഥാന മുന്നേറ്റങ്ങൾ,<br>രാഷ്ട്രീയമാറ്റങ്ങൾ എന്നിവ വിലയിരുത്തുക<br>**(Analyze)**<br><br>CO5: കേരളത്തിലെ നവോഥാന മുന്നേറ്റങ്ങൾ<br>രാഷ്ട്രീയമാറ്റങ്ങൾ എന്നിവ വിലയിരുത്തുക<br>**(Analyze)**<br><br>CO6: ആധുനികനന്തര മലയാളനോവലുകൾ<br>ഉൾക്കൊള്ളുന്ന പുതുപ്രവണതകൾ<br>വിലയിരുത്തുക**(Evaluate)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **ML010205** | ഭാരതീയസാഹിത്യസിദ്ധാന്തങ്ങൾ | **CO1:** സംസ്കൃതകാവ്യത്തിലെ വിവിധശബ്ദവ്യാപരങ്ങൾ വിവരിക്കുന്നു **(Understand)**<br><br>**CO2:** രസസിദ്ധാന്തത്തേക്കുറിച്ചുള്ള വ്യത്യസ്ത കാഴ്ചപാടുകൾ വിവരിക്കുന്നു **(Apply)**<br><br>**CO3:** സംസ്കൃത സാഹിത്യത്തിൽ ധ്വനിസിദ്ധാന്തത്തിന്റെ പങ്ക് വിലയിരുത്തുന്നു **(Analyze)**<br><br>**CO4:** കുന്തകന്റെ വക്രോക്തിസിദ്ധാന്തം പൂർവാചര്യൻമാരുടെ മറ്റ് സിദ്ധാന്തങ്ങൾ എന്നിവ വിവരിക്കുന്നു**(Analyze)**<br><br>**CO5:** തിണ സങ്കല്പം വിവരിക്കുന്നു **(Evaluate)**<br><br>**CO6:** സ്ഫോട വാദം,അപോഹസിദ്ധാന്തം എന്നിവയെക്കുറിച്ച് വിവരിക്കുന്നു **(Evaluate)** |
| **SEMESTER 3** | | |
| **ML010301** | ആധുനികമലയാളകവിത - രണ്ടാം ഘട്ടം | **CO1:** ആധുനികമലയാളകവിതാപ്രസ്ഥാനത്തെ സ്വാധീനിച്ച ഘടകങ്ങൾ വിവരിക്കു**(Apply)**<br><br>**CO2:** വൈയക്തികാനുഭവങ്ങൾക്കൊപ്പം സാമൂഹിക ജീവിതത്തിന്റെ സൂക്ഷ്മാനുഭവങ്ങളും കവിതയിൽ സ്വാധീനം ചെലുത്തുന്നത് ഉദാഹരണ സഹിതം വിവരിക്കുക **(Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO3: ആധുനിക -ആധുനികാനന്തര കവിതകളിൽ ഉണ്ടായ ഭാവുകത്വവ്യതിയാനങ്ങൾ വിലയിരുത്തുക<br><br>CO4: അന്യവത്കൃതമായ ദളിത് ആദിവാസി അവസ്ഥകൾ കവിതയുടെ പ്രമേയമാകുന്നത് അപഗ്രഥിക്കുക(Analyze)<br><br>CO5: കവിതയിൽ ഗദ്യത്തിന്റെ പുതിയ സാദ്ധ്യതകൾ വ്യാപകമാകുന്നത് അപഗ്രഥിക്കുക<br>(Analyze)<br><br>CO6:<br>പരിസ്ഥിതിനാശം,അനീതി,സാമ്പത്തികവൈരുധ്യം എന്നിവയുമായി ബന്ധപ്പെട്ട കവിതകളുടെ പ്രാധാന്യം വിശദീകരിക്കുക(Evaluate) |
| ML010302 | മലയാളഭാഷാവ്യാകരണം | CO1: മലയാളവ്യാകരണപരമ്പര്യം,വ്യത്യസ്ത വ്യാകരണസമീപനങ്ങൾ എന്നിവ വിവരിക്കുക<br>(Apply)<br><br>CO2: വ്യത്യസ്ത വ്യാകരണഗ്രന്ഥങ്ങളിൽ സന്ധിയെ എപ്രകാരം അവതരിപ്പിക്കുന്നുവെന്നത് താരതമ്യം ചെയ്യുന്നു(Apply)<br><br>CO3: പ്രത്യയങ്ങളുടെ രൂപപരിണാമം, പ്രവർത്തനധർമ്മം എന്നിവ വിലയിരുത്തുക<br>(Analyze)<br>CO4: ക്രിയാവിഭാഗങ്ങൾ, ഭേദകങ്ങൾ എന്നിവയെക്കുറിച്ച് വിവരിക്കുക (Analyze) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO5: വാക്യാപഗ്രഥനം,വിവർത്തനപ്രക്രിയ എന്നിവ വിവരിക്കുന്നു(Evaluate)<br><br>CO6: ഭാഷാവ്യാകരണത്തിന്റെ അടിസ്ഥാനസങ്കൽപ്പങ്ങൾക്കനുസൃതമായ് സ്വഭാഷ നവീകരിക്കുക(Create) |
| **ML010303** | മലയാളനിരൂപണം | CO1: മലയാള നിരൂപണത്തിന്റെ രൂപവത്കരണവും ചരിത്രവും വിവരിക്കുക **(Understand)**<br><br>CO2: ആധുനിക മലയാളനിരൂപണത്തിന്റെ സവിശേഷതകൾ വിവരിക്കുക(Apply)<br><br>CO3: എഴുത്തുകാരന്റെ നിലപാടും സൗന്ദര്യബോധവും നിരൂപണത്തെ സ്വാധീനിക്കുന്നതെങ്ങനെയെന്ന് താരതമ്യം ചെയ്യുക(Analyze)<br><br>CO4: യുക്തി,സൗന്ദര്യം ,സാമൂഹിക പ്രയോജനം എന്നിവ സംബന്ധിച്ച വിവിധ അപഗ്രഥിക്കുക<br>**(Analyze)**<br><br>CO5: ഉത്തരാധുനിക സാഹിത്യനിരൂപണത്തിന്റെ ബഹുവിധ സാധ്യതകൾ മലയാളത്തിൽ എപ്രകാരം രൂപപ്പെട്ടുവെന്ന് വിശദീകരിക്കുക<br>**(Evaluate)**<br><br>CO6: പ്രസിദ്ധീകരണയോഗ്യമായ നിരൂപണങ്ങൾ സൃഷ്ടിക്കുക(Create) |



DEVA MATHA COLLEGE KURAVILANGAD

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| **ML010304** | ദൃശ്യകലാസാഹിത്യം | **CO1:** കേരളീയനാടൻകലാപാരമ്പര്യം വിവരിക്കുക **(Apply)**<br><br>**CO2:** പടയണി തെയ്യം മുടിയേറ്റ് എന്നിവയുടെ സവിശേഷതകൾ വിവരിക്കുന്നു**(Apply)**<br><br>**CO3:** നാടൻ കലകളുടെ സമകാലിക പ്രയോഗ സാദ്ധ്യതകൾ വിലയിരുത്തുന്നു **(Analyze)**<br><br>**CO4:** കലകളിൽ കാലോചിതമായി സംഭവിച്ച മാറ്റങ്ങളും അവയുടെ പ്രയോഗ സാധ്യതയും വിലയിരുത്തുന്നു**(Analyze)**<br><br>**CO5:** കേരളീയ നൃത്തരൂപങ്ങൾ, നാടോടിനൃത്തരൂപങ്ങൾ എന്നിവയുടെ ചരിത്രപശ്ചാത്തലം അപഗ്രഥിക്കുന്നു**(Evaluate)** |
| **ML010305** | പാശ്ചാത്യ സാഹിത്യസിദ്ധാന്തങ്ങൾ | **CO1:** പാശ്ചാത്യസാഹിത്യസിദ്ധാന്തങ്ങൾ മലയാളസാഹിത്യത്തിൻറെ പുരോഗതിയിൽ ചെലുത്തിയ പങ്ക് വിവരിക്കുക **(Apply)**<br>**CO2:** വ്യത്യസ്ത കാവ്യനിർവചനങ്ങൾ വിശദീകരിക്കുക**(Apply)**<br><br>**CO3:** നവവിമർശനം,ഘടനാവാദം എന്നിവ അപഗ്രഥിക്കുക**(Analyze)**<br><br>**CO4:** സംസ്കാരവ്യവസായം,സ്ത്രീവാദം തുടങ്ങിയ ആശയാധാരകൾ വിലയിരുത്തുക **(Analyze)**<br><br>**CO5:** ഉത്തരാധുനികത സംബന്ധിച്ച ല്യോത്യർ, ബോദ്രിയാർ, ഫ്രഡറിക് ജെയിംസൺ എന്നിവരുടെ സമീപനങ്ങൾ താരതമ്യം ചെയ്യുക**(Evaluate)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO6: അധിനിവേശനന്തര,യൂറോ കേന്ദ്രീയ വിമർശനങ്ങൾ വിലയിരുത്തുക(Evaluate) |
| **SEMESTER 4** | | |
| **ML010401** | നാടകവും സിനിമയും | CO1: ഇന്ത്യൻ നാടകരംഗത്ത് പുരാതനനാടകവേദി ചെലുത്തിയ സ്വാധീനം വിവരിക്കുന്നു (Apply)<br><br>CO2: കേരളനാടക ചരിത്രം,സവിശേഷതകൾ എന്നിവ വിവരിക്കുക (Apply)<br><br>CO3: ലോകസിനിമയുടെ നാൾവഴികൾ അപഗ്രഥിക്കുന്നു (Analyze)<br><br>CO4: ഇന്ത്യൻ സിനിമയുടെയും മലയാളസിനിമയുടെയും ചരിത്രഗതികളെ വേർതിരിച്ചറിയുന്നു(Analyze)<br><br>CO5: കേരളത്തിലെ പ്രൊഫഷണൽ നാടകസംഘങ്ങളുടെ ചരിത്രവും ഇടപെടലും വിലയിരുത്തുക (Evaluate)<br><br>CO6: സിനിമയെന്ന ജനപ്രിയകലയിൽ പരീക്ഷണങ്ങൾ നടത്തുന്നു(Create) |
| **ML010402** | സാഹിത്യ ചരിത്രവിജ്ഞാനീയവും ഗവേഷണത്തിന്റെ രീതിശാസ്ത്രവും | CO1: ചരിത്രം,ചരിത്രവിജ്ഞാനീയം എന്നിവ വിവരിക്കുന്നു (Apply)<br><br>CO2: സാഹിത്യ ചരിത്ര വിജ്ഞാനീയം എന്ന വിഷയത്തിന്റെ പ്രസക്തി വിലയിരുത്തുന്നു (Apply) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO3: സാഹിത്യ ചരിത്രങ്ങളുടെ ആഖ്യാനം,വിവിധ സമീപനസമ്പ്രദായങ്ങൾ എന്നിവ വിശദീകരിക്കുന്നു(Analyze)<br><br>CO4: വിവിധ സാഹിത്യ ചരിത്രമാതൃകകൾ വിവരിക്കുന്നു(Analyze)<br><br>CO5: സാഹിത്യ ഗവേഷണത്തിന്റെ വിവിധ മേഖലകൾ വിലയിരുത്തുന്നു (Evaluate)<br><br>CO6: ഗവേഷണപ്രബന്ധരചന പരീക്ഷിക്കുന്നു(Create) |
| **ML800401** | വിവർത്തന സാഹിത്യം | CO1: വിവർത്തനത്തിന്റെ സൈദ്ധാന്തിക തലങ്ങൾ വിവരിക്കുന്നു(Apply)<br><br>CO2: വിശ്വസാഹിത്യ കൃതികളുടെ പഠനത്തിലൂടെ വ്യത്യസ്ത ദേശം, സംസ്കാരം, സൗന്ദര്യശാസ്ത്രം എന്നിവ വിശദീകരിക്കുന്നു (Apply)<br><br>CO3: വിവിധ ദേശങ്ങളിലെ സാംസ്കാരികവും രാഷ്ട്രീയവുമായ സാഹചര്യങ്ങൾ അവിടങ്ങളിൽ രൂപം കൊണ്ട സാഹിത്യത്തെ എപ്രകാരം സ്വാധീനിച്ചിട്ടുണ്ടെന്ന് വിലയിരുത്തുക(Analyze)<br><br>CO4: മലയാള സാഹിത്യത്തിൽ വിവർത്തന കൃതികൾക്കുള്ള സ്ഥാനം അപഗ്രഥിക്കുന്നു (Analyze)<br><br>CO5: മൂലകൃതിയും വിവർത്തന കൃതിയും തമ്മിലുള്ള ബന്ധം സംബന്ധിച്ച രൂപപരമായ പൊരുത്തം,ക്രിയാത്മകമായ പൊരുത്തം |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | തുടങ്ങിയവയെക്കുറിച്ച വിലയിരുത്തുന്നു (Evaluate)<br><br>CO6: വിവർത്തനപ്രക്രിയ പരീക്ഷിക്കുന്നു (Create) |
| **ML800402** | ദലിത് -സ്ത്രീ-പരിസ്ഥിതി സാഹിത്യവിചാരം | CO1: ദലിത്-സ്ത്രീ-പരിസ്ഥിതി സിദ്ധാന്തങ്ങൾ വിവരിക്കുന്നു(Apply)<br><br>CO2: ദലിത് സാഹിത്യത്തെക്കുറിച്ചുള്ള വ്യത്യസ്താഭിപ്രായങ്ങൾ വിലയിരുത്തുന്നു (Apply)<br><br>CO3: സ്ത്രീപക്ഷരചനയുടെ ചരിത്രവും വികാസവും അപഗ്രഥിക്കുന്നു(Analyze)<br><br>CO4: മലയാളത്തിലെ പാരിസ്ഥിതിക സാഹിത്യത്തിൻറെ സമകാലികപ്രസക്തി വിലയിരുത്തുന്നു (Evaluate)<br><br>CO5: പരിസ്ഥിതി സൗഹൃദപരമായ നവജീവിത സങ്കൽപം നിർമ്മിക്കുക(Create)<br><br>CO6: വൈയക്തികാനുഭവങ്ങളെ സാഹിതീയമായി സൃഷ്ടിക്കുന്നു(Create) |
| **ML800403** | സൈബർസംസ്കാരവും സാഹിത്യവും | CO1: പ്രധാനസാമൂഹികമാധ്യമങ്ങൾ വഴി പുതുസമൂഹങ്ങൾ രൂപപ്പെടുന്നത് വിവരിക്കുക (Understand)<br><br>CO2: സൈബർസംസ്കാരത്തെക്കുറിച്ചുള്ള വിവിധ സങ്കൽപ്പങ്ങൾ വിലയിരുത്തുക (Apply) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO3: സത്യാനന്തരകാലത്തെ മനുഷ്യജീവിതം അപഗ്രഥിക്കുക (Apply)<br><br>CO4: മലയാളം കമ്പ്യൂട്ടിങ്ങിന്റെ ഉത്ഭവവും വികാസവും വിലയിരുത്തുക (Analyze)<br><br>CO5: സൈബർ ലോകത്തെ സാഹിത്യ രചനകൾ വിലയിരുത്തുക(Evaluate)<br><br>CO6: സാമൂഹികമാധ്യമങ്ങൾ വഴിയുള്ള ആവിഷ്കരണസാധ്യതകൾ പരീക്ഷിക്കുക (Create) |
| **ML8004PJ** | **Project/ പ്രബന്ധം** | CO1-ഗവേഷണരചനയുടെ പ്രാഥമികതത്വങ്ങൾ വിവരിക്കുക (Apply)<br><br>CO2-ഗവേഷണരചനയിൽ രീതിശാസ്ത്രത്തിന്റെ പ്രാധാന്യം വിശദീകരിക്കുക(Apply) |
| **ML8004VV** | **Comprehensive Viva** | CO1-മലയാളചെറുകഥയുടെ വികാസപരിണാമങ്ങൾ വിവരിക്കുക. (Evaluate)<br><br>CO2-ആധുനികത, ഉത്തരാധുനികത പ്രസ്ഥാനങ്ങളുടെ സവിശേഷതകൾ വിവരിക്കുക.(Evaluate) |



DEVA MATHA COLLEGE KURAVILANGAD

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| **PROGRAMME NAME: M.Sc. PHYSICS**<br>**PROGRAMME CODE: DMCK-PG-PHY-M1-SF** | | |
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| **PROGRAMME SPECIFIC OUTCOMES** | | |
| **PSO1** | **Discuss the Methodology of Physics in a research oriented manner and explain the basic principles of advanced Physics. (Understand)** | |
| **PSO2** | **Solve the problems of advanced physics fields using mathematical tools for in depth understanding of theoretical papers. (Apply)** | |
| **PSO3** | **Experiment the theories related to advanced physics in specialized labs and employ computer programming for solving various physical problems and mathematical calculations. (Analyze)** | |
| **PSO4** | **Develop communication skill to improve scientific temper and awareness of environment and human values in society (Apply)** | |
| **PSO5** | **Combine fundamental theoretical concepts and extrapolate the available data to propose and validate new concepts through research oriented project works. (Create)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER1** | | |
| **PH010101** | **MATHEMATICAL METHODS IN PHYSICS- 1** | **CO1: Physical interpretation of vector analysis (analysis)**<br>**CO2: Develop Mathematical skills in matrices and tensors. (apply) CO3: Physical interpretation of Tensor analysis *(analysis)**<br><br>**CO4: Discuss various coordinate systems and vector spaces (understand).** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO5: Solving physical problems related to these topics (apply)** |
| **PH010102** | **CLASSICAL MECHANICS** | **CO1: Discuss Fundamental concepts of the Lagrangian and the Hamiltonian methods and solving problems (apply)**<br><br>**CO2:Develope physics of small oscillations and the concepts of canonical transformations and Poisson brackets(understand)**<br><br>**C03:Discuss basic ideas of central forces and rigid body dynamics (understand)**<br><br>**CO4: Introduction to the Lagrangian formulation of relativistic mechanics.(analysis)**<br><br>**CO5: Discuss the Hamilton-Jacobi method and the concept of action-angle variables.(understand)** |
| **PH010103** | **ELECTRODYNAMICS** | **CO1: Develop basic ideas on physics of electromagnetics experienced in daily life. (Understand)**<br><br>**CO2: Discuss wave nature of electromagnetic field and solve problems associated with it. (apply)**<br><br>**CO3: Develop basic concepts about accelerated charges and their behavior. (understand)**<br><br>**CO4: Discuss relativistic electromagnetism (apply)** |
| **PH010104** | **ELECTRONICS** | **CO1: Study of the flow of charge (electron) through various materials and devices such as semiconductors, resistors, inductors,capacitors, nanostructures etc (understand)**<br><br>**CO2: Discuss circuit design and methodology. (understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO3: Solve problems related to op-amp design and characteristics.(apply)**<br><br>**CO4: Design and conduct laboratory experiments using op-amps.(create)** |
| **PH010105** | **GENERAL PHYSICS PRACTICALS** | **CO1; Develop practical skills in experimental physics.(Apply)**<br><br>**CO2; Application of theoretical knowledge.(Apply)**<br><br>**CO3; First hand experience on advanced Physical experimental devices.(Apply)** |
| **SEMESTER2** | | |
| **PH010201** | **MATHEMATICAL METHODS IN PHYSICS-2** | **CO1: Physical interpretation of mathematical methods (Analysis)**<br><br>**CO2: Solving physical problems using various methods (Analysis)**<br><br>**CO3:Compare various mathematical methods Understanding)**<br><br>**CO4: Using various methods to simplify physical problems(Apply)** |
| **PH010202** | **QUANTUM MECHANICS – I** | **CO1 :Development of the basic mathematical structure of quantum mechanics(understand)**<br><br>**CO2: Fundamental concepts of the Dirac formalism and time evolution of Quantum systems(understand)**<br><br>**CO3:Basics of the quantum theory of angular momentum(understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO4 : Solve the hydrogen atom problem(analysis)**<br><br>**CO5 ;Application of various mathematical formalisms developed in linear vector space (apply)** |
| **PH010203** | **STATISTICAL MECHANICS** | **CO1: Discuss statistical foundations of physical problems(understand)**<br><br>**CO2 : Develop ideas about ensembles and their physical interpretations (analysis)**<br><br>**CO3: Solve various statistical problems using mathematical tools (apply)**<br><br>**CO4 : Interpretation of Quantum mechanical problems using statistical methods.(analysis)** |
| **PH010204** | **CONDENSED MATTER PHYSICS** | **CO1: Develop ideas about working principle of XRD(understand)**<br><br>**CO2: Discuss various crystal structure and symmetry properties(understand)**<br><br>**CO3:Discuss thermal, electric and magnetic properties of semiconductor materials and their theoretical basis (analyze)**<br><br>**CO4: Solve physical problems on condensed matter properties(apply)** |
| **PH010205** | **ELECTRONICS PRACTICAL** | **CO1; To get basic theoretical and experimental knowledge in electronic circuits like multivibrators,integrators(apply)**<br>**CO2; Achieve practical efficiency in circuit connection and circuit analysis (apply)**<br>**CO3; Design and implement electronic circuits.(apply)** |
| **SEMESTER3** | | |

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| **PH010301** | **QUANTUM MECHANICS – II** | **CO1 :Application of different quantum mechanical approximation methods to quantum mechanical problems.(apply)**<br><br>**CO2; Basics of time-dependent perturbation theory and its application to semi-classical theory of atom-radiation interaction (apply)**<br><br>**CO3 ;Discuss idea of identical particles and its application to helium the idea of Born approximation and the method of partial waves (analysis)**<br><br>**CO4 :Introduction to relativistic quantum mechanics and various interpretations (analysis)** |
| **PH010302** | **COMPUTATIONAL PHYSICS** | **CO1:Develop skills and techniques in physics to solve problems with the help of computers when they cannot be solved analytically (analyze)**<br><br>**CO2 :Develop their own Algorithms of every method described (create)**<br><br>**CO3;Solve physical problems using computational methods in manual formats and using programming languages (apply)**<br><br>**CO4 : Design and carry out C++ programs for these computational methods (create)** |
| **PH010303** | **ATOMIC AND MOLECULAR PHYSICS** | **CO1: Develop ideas about the basic philosophy of spectroscopy(understand)**<br><br>**CO2: Discuss the theory of microwave and infra-red spectroscopies as well as the electronic spectroscopy of molecules(understand)**<br><br>**CO3: Develop the basics of Raman spectroscopy and the nonlinear Raman effects, spin resonance spectroscopies such as NMR and ESR., Mossbauer spectroscopy (understand)** |

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| | | **CO4: Develop skills to solve spectroscopic problems using mathematical methods.(apply)** |
| **PH810301** | **SOLID STATE PHYSICS FOR MATERIALS** | **CO1: Develop theoretical understanding about crystal properties- imperfections, dislocations(understand)**<br><br>**CO2: Discuss theory behind various types of bond formation in crystals(understand)**<br><br>**CO3 :Develop theoretical understanding on magnons, plasmons, polaritons (understand)**<br>**CO4 :Conduct laboratory experiments in material science (apply)** |
| **PH010402** | **COMPUTATIONAL PHYSICS PRACTICAL** | **CO1; Design and develop C++ programmes for computational problems(apply)**<br><br>**CO2;Develop analytical and logical skills for programme writing(apply)**<br><br>**CO3; Verify results of programmes with conventional methods.(apply)** |
| **SEMESTER4** | | |
| **PH010401** | **NUCLEAR AND PARTICLE PHYSICS** | **CO1 :Build up the fundamentals of nuclear and particle physics (understand)**<br><br>**CO2: Discuss basic properties of the nucleus and the nuclear forces and Major models of the nucleus and the theory behind the nuclear decay process(understand)**<br><br>**CO3: Develop ideas on the interaction between elementary particles and the conservation laws in particle physics(understand)**<br><br>**CO4 :Develop ideas about nuclear astrophysics and the practical applications of nuclear physics. (analyze)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **PH810402** | **SCIENCE OF ADVANCED MATERIALS** | **CO1:Basic ideas about physical properties of ceramics, plastics, fibers etc.(understand)**<br><br>**CO2 :Develop ideas about structural, electric, magnetic properties of various advanced materials which find application in material science research (understand)**<br><br>**CO3: Develop ideas to undertake research/ projects in material science with the theoretical background provided.(create)**<br><br>**CO4 :Conduct material science practical experiments in laboratory.(apply)** |
| **PH810403** | **NANOSTRUCTURES AND MATERIALS CHARACTERISATION** | **CO1: Develop ideas about nano structures, its properties,and synthesis**<br><br>**CO2 :Discuss applications of nano devices and its properties.(understand)**<br><br>**CO3 :Develop theoretical understanding about working of various spectroscopic techniques, analytical tools such as SEM,TEM,AFM etc.(understand)**<br><br>**CO4 :Conduct laboratory experiments utilizing these analytical tools to study various compounds,.(apply)**<br><br>**CO5 :Utilizing these analytical techniques to study thin films or Nanoparticles synthesized as a part of projects..(apply)** |
| **PH810302:** | **ADVANCED PRACTICALS IN MATERIAL SCIENCE** | **CO1; Get practical knowledge and application know how on various equipments like XRD, IR spectroscopy.(apply)**<br><br>**CO2; Develop Research aptitude in material science..(apply)** |



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| | | **CO3; Understand material properties though practical experiments.(understand)** |
| **PH010403** | **PROJECT** | **CO1: research aptitude development (create)**<br><br>**CO2: Application of theoretical knowledge gathered through various experimental techniques ( apply)**<br><br>**CO3: enlarging scope of physics as an applied field for the benefit of society (create)** |
| **PH010404** | **COMPREHENSIVE VIVA VOCE** | **CO1: Consolidated understanding of the subject as a whole (understand)**<br><br>**CO2: ability to apply knowledge gathered as part of postgraduate studies (apply)**<br><br>**CO3: Ability to articulate concepts of physics in a lucid manner (understand)** |



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| **PROGRAMME NAME ; M.Sc. CHEMISTRY**<br>**PROGRAMME CODE: DMCK-PG-CHE-M1-SF** | | |
| **PROGRAMME SPECIFIC OUTCOMES** | | |
| **PSO1** | **Create awareness about the mechanisms of various organic reactions. ( Create)** | |
| **PSO2** | **Explain the major concepts and theoretical principles in the field of organometallics and coordination chemistry. (Understand)** | |
| **PSO3** | **Integrate scientific knowledge to design and analyse various molecular structures by computational methods. ( Analyse)** | |
| **PSO4** | **Create knowledge about the analytical techniques in chemistry for the identification of ions. (Analyse)** | |
| **PSO5** | **Solve problems using basic knowledge in quantum mechanics and group theory. ( Apply)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER1** | | |
| **CH 50 01 01** | **Organometallics and Nuclear Chemistry** | **CO1: Describe the synthetic methods of catalytic organic reactions from structure bonding aspects (Understand)**<br>**CO2: Describe the chemistry behind bioinorganic compounds. (Remember)**<br>**CO3: Review the relevance of radiation chemistry in biology and organic compounds (Understand)**<br>**CO4: Analyse the applications of radioactive isotopes (Apply)** |



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| **CH 50 01 02** | **Structural and Molecular Organic Chemistry** | **CO1: Review the basic concepts in chemistry (Remember)**<br>**CO2: Explain the mechanism of photochemical reactions (Remember)**<br>**CO3: Create awareness about stereochemistry of organic compounds(Remember)**<br>**CO4: Analyze the conformations of organic compounds (Apply)** |
| **CH 50 01 03** | **Quantum Chemistry and Group Theory** | **CO1: Review the basic concepts of group theory in chemical bonding (Remember)**<br>**CO2: Explain the postulates of quantum mechanics(Understand)**<br>**CO3: Integrate critical thinking and scientific knowledge to apply group theory in chemical bonding (Analyse)**<br>**CO4: Apply orthogonality theorem to derive the character table of various point groups . (Apply)** |
| **CH 50 01 04** | **Thermodynamics, Kinetic Theory and Statistical Thermodynamics** | **CO1:xplain the laws of thermodynamics (Remember)**<br>**CO2:Create awareness about the properties and theories of gases. (Understand)**<br>**CO3:Apply the laws and principles of thermodynamics (Apply)** |



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| | | **CO4:Solve problems using basic understanding in ststistical thermodynamics. (Apply)** |
| **SEMESTER2** | | |
| **CH 50 02 01** | **Coordination Chemistry** | **CO1: Explain the structural aspects and bonding in complexes (Understand)**<br>**CO2: Create awareness about the kinetics and mechanisms of reactions in metal complexes (Remember)**<br>**CO3: Review the coordination chemistry of lanthanides and actinides (Understand)**<br>**CO4: Inetrprect the spectral and magnetic properties of complexes(Apply)** |
| **CH 50 02 02** | **Organic Reaction Mechanisms** | **CO1: Review the mechanisms of organic reactions (Remember)**<br>**CO2: Explain the chemistry of reaction intermediates ( understand)**<br>**CO3: Interprect the chemistry behind concerted reactions (Apply)**<br>**CO4: Analyze the chemistry of carbonyl compounds ( Analyze)** |
| **CH 50 0203** | **Chemical Bonding and Computational Chemistry** | **CO1: Explain the application of group theory in spectroscopy Understand))**<br>**CO2: Apply approximation methods in quantum mechanics (Apply)** |



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| | | **CO3: Interprect various theories of chemical bonding (Analyse)**<br>**CO4: Solve problems using various computational methods. (Apply)** |
| **CH 50 0204** | **Molecular Spectroscopy** | **CO1:Review the basic principles of spectroscopic techniques(Remember)**<br>**CO2: Explain the IR and raman spectra of molecules(understand)**<br>**CO3:Interpret the NMR spectra of various molecules(apply)**<br>**CO4:Analyse various magnetic resonance technique of molecules(analyse)** |
| **CH 50 0205** | **Inorganic Chemistry Practical-1** | **CO1:Characterizing complexes using spectral datas (Apply)**<br>**CO2:Analyse mixture of various cations (Analyse)**<br>**CO3:Estimate the presenceof ions bycolorimetric methods (Apply)** |
| **CH 50 0206** | **Organic Chemistry Practical-1** | **CO1:explain general separation and purification methods (understanding)**<br>**CO2:Apply various separation techniques for org. binary mixture (Apply)**<br>**CO3:Interprect the spetral datas of vaious compounds (Apply)** |



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| **CH 50 0207** | **Physical Chemistry Practical-1** | **CO1:Create awareness about different adsorption isotherms (understands)**<br>**CO2:Analyse molecular and atomic parameters by using computational technique (Analyse)** |
| **SEMESTER3** | | |
| **CH 50 03 01** | **Structural Inorganic Chemistry** | **CO1: Describe the imperfections of solids,electrical and magnetic properties of solids(Understand)**<br>**CO2: Describe the chemistry behind inorganic chains (Remember)**<br>**CO3: Review the relevance of inorganic chains , rings,cages and clusters. (Understand)**<br>**CO4: Analyse the applications of organometallic compounds (Apply)** |
| **CH 50 03 02** | **Organic Syntheses** | **CO1: Review the basic concepts organic reactions(Remember)**<br>**CO2: Explain the principles of protecting group chemistry a (Remember)**<br>**CO3: Create awareness about retrosynthesisin organic compounds(Remember)**<br>**CO4: Analyze the reaction mechanisms of organic compounds (Apply)** |



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| **CH 01 03 03** | **Chemical Kinetics, Surface Chemistry and Crystallography** | **CO1: Review the fundamental theories of reaction rates (Remember)**<br>**CO2: Explain the symmetries of different crystal point groups (Understand)**<br>**CO3: Analyses application of various isotherms in surface catalysed reactions, (Analyse)**<br>**CO4: Find out examples of liquid crystals. (Apply)** |
| **CH 50 03 04** | **Spectroscopic Methods in Chemistry** | **CO1:Explain spectral data for explaining important organic reactions a (Remember)**<br>**CO2:Create awareness about different spectroscopic methods. (Understand)**<br>**CO3:Apply the different spectroscopic methods to solve problems (Apply)**<br>**CO4:Solve problems using basic understanding in ORGANIC SPECTROSCOPY. (Apply)** |
| **SEMESTER4** | | |
| **CH 80 04 01** | **Advanced Inorganic Chemistry** | **CO1: Understand knowledge about the preparation and characteristics of nanomterials (Understand)**<br>**CO2: Describe the chemistry behind metal organic frame works and types of supramolecules. (Remember)** |



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| | | **CO3: Review the relevance of group theoretical principles in hybridisation technique of molecules (Understand)**<br>**CO4: Analyse the applications of group theory (Apply)** |
| **CH 80 04 02** | **Advanced Organic chemistry** | **CO1: Review the basic concepts supramolecular chemistry (Remember)**<br>**CO2: Explain the mechanism of biosynthesis and biomimetic(Remember)**<br>**CO3: Create awareness about importance of drug design (Remember)**<br>**CO4: Analyze how to write a scientific report (Apply)** |
| **CH 08 08 03** | **Advanced Physical Chemistry** | **CO1: Review the basic concepts of photochemical reactions (Remember)**<br>**CO2: Explain atomic spectroscopic methods(Understand)**<br>**CO3: Analyse and apply diffraction methods and atomic spectroscopic techniques (Analyse)**<br>**CO4: Apply theories in electrochemistry to analyse the kinetics of electrode reactions.. (Apply)** |
| **CH 01 0401** | **Inorganic Chemistry Practical-2** | **CO1: Analyse binary mixtures of metallic ions in solution (Analyse)** |

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| | | **CO2:Create awareness about paper chromatographic techniques. (Understand)** |
| **CH 01 0402** | **Organic Chemistry Practical-2** | **CO1: Applying green alternative methods of synthesis(analyse)**<br>**CO2:Create awareness about preparation of organic compounds(understand)** |
| **CH 01 0403** | **Physical Chemistry Practical-2** | **CO1: Applying kinetic studies for determining rate constant of hydrolysis of ester (Analyse)**<br>**CO2: Analyse and apply the theoretical principles of various branches of physical chemistry ( apply)** |
| **CH 0104 04** | **Project** | **CO1: Apply the practical skills in life when dealing with chemicals(apply)**<br>**CO2: Analyse the various chemicals present in the environment,food, medicines etc** |
| **CH 01 0405** | **viva** | **CO1:Basic principles of various analytical techniques(understand)**<br>**CO2:Applications of chemistry in day to day life.** |



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| **PROGRAMME NAME ; M.A ECONOMETRICS**<br>**PROGRAMME CODE: DMCK-PG-ECO-M1-AD** | | |
| **PROGRAMME SPECIFIC OUTCOMES** | | |
| **PSO1** | **Compare different economic theories of social phenomena (Understanding)** | |
| **PSO2** | **Determine various economic relationships by applying econometric techniques Apply)** | |
| **PSO3** | **Analyse the economic and environmental issues with the help of quantitative analytics (Analyse)** | |
| **PSO4** | **Compile the information to generate new economic ideas and improvements (Create)** | |
| **PSO5** | **Evaluate the validity of the existing and novel theories and make forecasts with the available information (Evaluate)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER1** | | |
| **EM010101** | **MICRO ECONOMICS THEORY 1** | **CO1: Explain the various reflections of consumer behaviour to maximize the consumer utility and choice (Apply)**<br>**CO2: Analyse the production theories of firms with single and multiple products to attain equilibrium (Analyse)**<br>**CO3: Illustrate the differences between traditional and modern approaches to the costs of a firm (Analyse)** |



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| | | **CO4: Evaluating the oligopoly market structure in the economy to check the element of realism in the existing theories (Evaluate)**<br><br>**CO5: Assessing the established distribution theories and the problem of exhaustion (Evaluate)** |
| **EM010102** | **MACROECONOMICS THEORY 1** | **CO1:Evaluate various macroeconomic policies and their implications using the competing macroeconomic approaches (Evaluate)**<br><br>**CO2: Compare the approaches of Classical and Keynesian economics using various models defining both the approaches (Evaluate)**<br><br>**CO3: Correlate the propositions of Monetarism approach specifically regarding monetary policy (Analyse)**<br><br>**CO4: Explain the macroeconomic policy issues with the aid of New Classical approach (Apply)**<br><br>**CO5: Articulating various wage theories in the New Keynesian approach (Apply)** |

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| **EM010103** | **STATISTICAL METHODS FOR ECONOMIC ANALYSIS** | **CO1:Create mapping of outcomes of a random process numerically based on understanding of probability distribution (Create)**<br><br>**CO2:Choose statistical test to utilize based on the structure of data, the distribution of the data, and variable type. (Apply)**<br><br>**CO3: Evaluate data from the sample and uses these data to decide whether they support the specific hypothesis of study. (Evaluate)**<br><br>**CO4:Infer conclusion about a population based on results from a subset of the population, and generalize ideas for similar studies. (Evaluate)**<br><br>**CO5:Apply statistical knowledge to solve current economic problems (Apply)** |
| **EM010104** | **MATHEMATICAL METHODS FOR ECONOMIC ANALYSIS 1** | **CO1: Apply Mathematical concepts and methods like matrices, differential and integral calculus to enhance knowledge in Economics. (Apply)**<br><br>**CO2: Develop problem solving skills and aptitude in finding solutions to real life Economic problems. (Apply)**<br><br>**CO3: Analyse IS-LM, National Income & other linear economic models using mathematical solving techniques and apply it in further studies in Econometrics. (Analyse)**<br><br>**CO4: Develop economic models by using formal mathematical methods. (Create)** |



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| | | **CO5: Estimate functions by using vector & matrix differentiation and evaluate critical values along with its applications in economics. (Evaluate)** |
| **EM010105** | **BASIC ECONOMETRICS** | **CO1: Estimate the coefficients of a simple regression model with the help of properties and assumptions (Evaluate)**<br>**CO2: Estimate the coefficients of a multiple regression model including dummy variables (Evaluate)**<br>**CO3: Explain the nature, consequences, tests and remedial measures of violations of assumptions of Classical Linear Regression Model (Apply)**<br>**CO4: Estimate the Simultaneous Equation Models by resolving the problem of identification (Evaluate)**<br>**CO5: Articulate different approaches for distributed lag models and autoregressive models (Apply)** |
| **SEMESTER2** | | |
| **EM010201** | **MICRO ECONOMIC THEORY 2** | **CO1: Create new models to explain the behaviour of individuals, firms and markets (Create)**<br>**CO2: Illustrate the different theories of the firm specifically focusing on limit pricing, managerial and behavioural theories (Analyse)** |



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| | | **CO3: Consider the causes of market failure and the major aspects of public choice (Evaluate)**<br><br>**CO4: Explain the implications of information asymmetry and vital ideas of behavioural economics (Apply)**<br><br>**CO5: Prepare the general economic framework with implications upon the welfare aspects of economic activities (Create)** |
| **EM010202** | **MACRO ECONOMIC THEORY 2** | **CO1: Apply fundamentals of macroeconomics and their application in Behavioural Economics. (Apply)**<br><br>**CO2: Analyse effects of changes in Macroeconomic variables like consumption, Investment, demand for money and its impact on Economy. (Analyse)**<br><br>**CO3: Associate the current economic phenomenon with existing theory and put their views on contemporary economic issues. (Evaluate)**<br><br>**CO4: Extend the concepts of Macroeconomics in unfolding the dynamics of different sectors of economy and evaluate how they are related or different from each other. (Analyse)**<br><br>**CO5: Analyse business cycle and understand effect of Monetary & Fiscal policies on economic fluctuations. (Analyse)** |



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| **EM010203** | **INDIAN ECONOMY AND FISCAL FEDERALISM** | **CO1: Compare Indian economic problems in the light of relevant economic theories (Analyse)**<br>**CO2: Estimate the transformation of Indian economy in terms of growth and development with special focus on agricultural and industrial sector (Evaluate)**<br>**CO3: Experiment the trade policies and external sector reforms in India (Apply)**<br>**CO4: Recommend measures to improve the quality and efficiency of financial sector and with special focus given on its reforms (Evaluate)**<br>**CO5: Analyse the fiscal situations in India with the help of Government budget and fiscal reforms including tax reforms (Analyse)** |
| **EM010204** | **Mathematical Methods for Economic Analysis-2** | **CO1:Evaluate optimal decisions of a firm or individual with and without constraints. (Evaluate)**<br>**CO2: Apply mathematical relationships on data collected and decide decision variables and requirements to make quantitative analysis of economic concepts. (Apply)**<br>**CO3:Analyse Harrod–Domar Model using integration and infer the results using existing theories. (Analyse)**<br>**CO4:Correlate methodology and tools of Mathematics and Economics. (Analyse)**<br>**CO5: Model behaviour of complex economic systems using mathematical functions and operations. (Create)** |



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| **EM010205** | **UNIVARIATE TIME SERIES ECONOMETRICES** | **CO1:Categorise the time series into its different components and use the necessary filters for detrending and other processes (Analyse)**<br><br>**CO2: Explain the concept of stochastic process and the significance of stationarity in a stochastic process (Apply)**<br><br>**CO3: Test the stationarity in a stochastic process with the aid of multiple tests and transforming non- stationary to stationary (Evaluate)**<br><br>**CO4: Predict the future implications of time series using various forecasting techniques (Evaluate)**<br><br>**CO5: Infer the concepts of volatility measurement and growth rates estimation (Create)** |
| **EM010206** | **TERM PAPER ON ECONOMETRIC METHODS** | **CO1: Relate the pre-requisite knowledge on the estimation of a particular problem in the economy (Apply)**<br><br>**CO2: Apply different filters for detrending and other processes to the particular time series (Apply)**<br><br>**CO3: Select the appropriate tests for stationarity and transform the non-stationary stochastic process into stationary (Evaluate)** |

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| | | **CO4: Facilitate necessary statistical techniques for testing structural changes and breaks (Create)**<br>**CO5: Justify the forecasts made using the appropriate econometric tools and techniques (Create)** |
| **SEMESTER 3** | | |
| **EM010301** | **INTERNATIONAL FINANCE AND ECONOMICS** | **CO1: To present a comprehensive and clear exposition of the theory and principles of international economics (Analyse)**<br>**CO2: To provide an exposure to the theoretical underpinnings and empirical evidence of the major trade policies and practices. (Evaluate)**<br>**CO3: Equip them to understand the important international economic problems. (Apply)**<br>**CO4: Recommend measures to improve the quality and efficiency of financial sector and other sectors of International Economics (Evaluate)**<br>**CO5: Critically comment on and participate in current debates on international economic policy (Analyse)** |
| **EM010302** | **ECONOMICS OF GROWTH AND DEVELOPMENT** | **CO1: Understand the conceptual routes, theoretical dynamics and practical strategies of growth and development (Understand)** |



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| | | **CO2: Evaluate critically the theories of economic growth and discuss its implications upon economic development (Evaluate)**<br><br>**CO3: Appraise the recent literature, both analytical and empirical, on theories of under development and growth in developing countries (Apply)**<br><br>**CO4: Provide a unifying theoretical framework with which the diverse issues connected with the process of economic growth and development are discussed with empirical examples especially in the context of developing countries. (Evaluate)**<br><br>**CO5: Familiarize theoretical dynamics and practical strategies of growth and development eventually leading to critically address the challenges of economic development. (Analyse)** |
| **EM010303** | **PUBLIC FINANCE AND PUBLIC CHOICE** | **CO1: Discuss critically the theoretical issues of provision of public goods (Analyse)**<br><br>**CO2: Evaluate the theoretical developments with respect to collective choice with a view to appreciate the process of decision making by the public sector (Evaluate)**<br><br>**CO3: Appraise the theories of public expenditure and taxation to critically comprehend the role of public sector in a market economy (Analyse)**<br><br>**CO4: Critically discuss the theoretical contributions in fiscal federalism and to** |

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| | | **examine its practice in the context of Indian economy (Analyse)** |
| **EM010304** | **MULTIVARIATE TIME SERIES ECONOMETRICES** | **CO1: Understandthe various theoretical models to critically evaluate the behaviour of multivariate time series(Understand)**<br><br>**CO2: Apply the theoretical models to the empirical data with a view to estimating the parameters(Apply)**<br><br>**CO3: Use R to estimate time series econometric models using real world data(Apply)**<br><br>**CO4: Use Gretl, to estimate time series econometric models using real world data (Apply)**<br><br>**CO5: Interpret the estimates of the time series models and to analyse the results. (Analyse)** |
| **EM010305** | **ECONOMETRICES OF LIMITED DEPENDENT VARIABLE MODELS AND NON LINEAR REGRESSION** | **CO1: Understand Qualitative limited dependent variables and non linear regression. (Understand)**<br><br>**CO2: Analyse survey data (Analyse)**<br><br>**CO3: Evaluate econometric tools and techniques needed to analyse the nonlinear regression models (Evaluate)**<br><br>**CO4: Apply theoretical models and techniques with software packages. (Apply)** |

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| | | **CO5: Analyse the results and interpret the estimates of the limited dependent variable models both in theoretical and plain language (Analyse)** |
| **EM010306** | **INTERNSHIP REPORT ON ECONOMETRIC ISSUES** | **CO1: Apply the theoretical knowledge in an empirical setting or in a working environment (Apply)**<br><br>**CO2: Accentuate upon the process of deriving meaning from experience through questioning what is being experienced or observed (Evaluate).**<br><br>**CO3: Integration of what has been learnt inside the classroom and what has been taking place outside (Apply).**<br><br>**CO4: Analyse economic problems with the suggested econometric software packages (Analyse).** |
| **SEMESTER 4** | | |
| **EM010401** | **ENVIRONMENTAL AND ECOLOGICAL ECONOMICS** | **CO1: Critically comprehend the economic problems and ecological considerations with respect to the utilisation of resources, climate change, environmental policies (Analyse).**<br><br>**CO2: Provide more insights about environmental valuation and environment protection movements (Evaluate)** |

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| | | **CO3: Familiarize with the practices of global environmental governance and treaties (Understand)**<br>**CO4: Address the environmental problems and issues with a view to finding practical solutions with a firm grounding in the theoretical developments in environmental and ecological economics (Evaluate** |
| **EM010402** | **KERALA ECONOMY WITH DATABASE** | **CO1: Dissect the Kerala's development experiences from a historical perspective (Analyse).**<br>**CO2: Critically understand the problems, performance, prospects and of the Kerala economy (Understand).**<br>**CO3: Evaluate the structural changes and sectoral issues of Kerala economy (Evaluate).**<br>**CO4: Comprehend critically the fiscal and decentralisation issues of Kerala Economy (Analyse).**<br>**CO5: Familiarise the various databases on Kerala economy and use them for analysing the problems of the state economy (Apply).** |
| **EM800401** | **FINANTIAL ECONOMETRICES** | **CO1: Analyse critically the empirical issues in financial economics and financial markets with the application of various econometric models (Analyse).** |



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| | | **CO2: Critically comprehend and test empirically the efficient markets hypothesis, the predictability of asset returns and volatility models (Analyse).**<br><br>**CO3: Apply the various theoretical models to the financial data with a view to estimating and predicting the parameters (Apply).**<br><br>**CO4: Use the open source econometric software packages such as Gretl, R to estimate various limited dependent variable models using real world data (Apply).**<br><br>**C05: Analyse the results and interpret the estimates of the financial econometric models both in theoretical and plain language (Analyse).** |
| **EM800402** | **PANEL DATA ECONOMETRICES** | **CO1: Critically understand the econometric techniques to deal with various types of panel data sets (Understand)**<br><br>**CO2: Evaluate the basic issues of panel data analysis by employing the various econometric methods and techniques (Evaluate)**<br><br>**CO3: Apply the various theoretical models to the panel data sets with a view to estimating the parameters (Apply)**<br><br>**CO4: Apply open source econometric software packages such as Gretl, R to estimate various limited dependent variable models using real world data. (Apply)** |



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| | | **CO5: Analyse the results and interpret the estimates of the limited dependent variable models both in theoretical and plain language. (Analyse)** |
| **EM800403** | **EXPERIMENTAL DESIGN AND CLIOMETRICES** | **CO1: Critically understand the econometric techniques to explore the problem of causality in economics (Understand)**<br><br>**CO2: Evaluate the applications of Cliometrics methods to comprehend the problems of economic history (Evaluate)**<br><br>**CO3: Apply critically the various econometric techniques involved in randomized control trials, natural experiments and regression discontinuity designs (Apply)**<br><br>**CO4: Apply econometric software package R to estimate the parameters with casual models by using the real world data (Apply)**<br><br>**CO5: Analyse the results and interpret the estimates of the casual models both in theoretical and plain language. (Analyse)** |
| **EM010403** | **PROJECT/DISSERTATION** | **CO1: Understand systematic investigation and study of materials and sources in order to establish facts and reach new conclusions based on topics studied (Understand)**<br><br>**CO2: Apply the theoretical knowledge in an empirical setting or in a working environment (Apply)** |



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| | | **CO3: Accentuate upon the process of deriving meaning from experience through questioning what is being experienced or observed (Evaluate).**<br><br>**CO4: Application of Econometric models to solve the problem of study (Apply).**<br><br>**CO5: Create new Econometric model based on topic of research (Create).** |
| **EM010404** | **COMPREHENSIVE VIVA-VOCE** | **CO1: Know how to demonstrate your understanding of Subject (Understand)**<br><br>**CO2: Answer questions to support aspects of your thesis that the examiners may not be satisfied with (Apply)**<br><br>**CO3: Discriminate between superficial and real knowledge via in-depth questioning (Evaluate).**<br><br>**CO4: Explain how Econometric models in applied to solve the problem of study (Apply).**<br><br>**CO5: Create new Econometric model with limited resources and suggest further scope of topic under study (Create).** |



DEVA MATHA COLLEGE KURAVILANGAD

| **PROGRAMME NAME M.Sc. MATHEMATICS**<br>**PROGRAMME CODE: DMCK-PG-MAT-M1-AD & DMCK-PG-MAT-M1-SF** | | |
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| **PROGRAMME SPECIFIC OUTCOMES** | | |
| **PSO1** | **PSO1:Solve problems logically (Create)** | |
| **PSO2** | **Apply graphical procedures to solve real life problems (Apply)** | |
| **PSO3** | **Analyse mathematical situations with abstract thinking (Analyse)** | |
| **PSO4** | **Adapt logical approach and divergent thinking in real life situations (Create)** | |
| **PSO5** | **Apply the theoretical knowledge and skills to identify, investigate and formulate new ideas and concepts (Apply)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER1** | | |
| **ME010101** | **ABSTRACT ALGEBRA** | **CO1: Analyse the properties of finitely generated abelian groups (Analyse)**<br>**CO2: Solve problems by using Sylow theorems (Create)**<br>**CO3: Construct the field of quotients of an integral domain (Create)**<br>**CO4: Explain homomorphisms and factor rings (Apply)** |



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| | | **CO5: Distinguish between prime and maximal ideals (Analyse)** |
| **ME010102** | **LINEAR ALGEBRA** | **CO1: Compose basis for vector spaces (Create)**<br>**CO2: Differentiate between linear dependence and independence (Analyse)**<br>**CO3: Distinguish between linear transformations and linear functionals (Evaluate)**<br>**CO4: Solve problems by using the concepts of determinants (Create)**<br>**CO5: Convert linear transformations into matrices (Apply)** |
| **ME010103** | **BASIC TOPOLOGY** | **CO1: Provide examples for topological spaces (Understand)**<br>**CO2: Justify whether a space is topological or not (Evaluate)**<br>**CO3: Explain continuous functions and related concepts (Analyse)**<br>**CO4: Distinguish between connected and disconnected spaces (Evaluate)** |

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| | | **CO5: Describe the hierarchy of separation axioms (Understand)** |
| **ME010104** | **REAL ANALYSIS** | **CO1: Analyse the properties of sequences and series (Analyse)**<br>**CO2: Distinguish between bounded variation and total variation (Analyse)**<br>**CO3: Summarize the properties of Riemann-Stieltjes integral (Evaluate)**<br>**CO4: Explain exponential, logarithmic and trigonometric functions (Apply)** |
| **ME010105** | **GRAPH THEORY** | **CO1: Explain the basic concepts of graph theory (Understand)**<br>**CO2: Distinguish between vertex connectivity and edge connectivity (Analyse)**<br>**CO3: Describe trees and its properties (Understand)**<br>**CO4: Justify whether a graph is planar or not (Create)**<br>**CO5: Explain the spectral properties of graphs (Apply)** |
| **SEMESTER2** | | |



DEVA MATHA COLLEGE KURAVILANGAD

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| **ME010201** | **ADVANCED ABSTRACT ALGEBRA** | **CO1: Distinguish between different types of extension fields (Analyze)**<br>**CO2: Classify integral domains into ED and UFD (Analyze)**<br>**CO3: Explain Gaussian integers and multiplicative norms (Apply)**<br>**CO4: Solve problems to find splitting fields (Create)**<br>**CO5: Illustrate Galois theory (Analyze)**<br>**CO6: Explain automorphism of fields and isomorphism extension theorem (Analyze)** |
| **ME010202** | **ADVANCED TOPOLOGY** | **CO1: Describe compactness and separation axioms (Apply)**<br>**CO2: Establish Urysohn and Tietze characterizations of normality (Apply)**<br>**CO3: Explain Cartesian products of families of sets (Understand)**<br>**CO4: Determine productive propertis (Apply)**<br>**CO5: Establish embedding lemma and Tychonoff embedding (Apply)** |



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| **ME010203** | **NUMERICAL ANALYSIS WITH PYTHON** | **CO1: Define symbols and symbolic operations (Remembering)**<br>**CO2: Solve equations and plot using SymPy (Create)**<br>**CO3: compute area between two curves (Apply)**<br>**CO4: Solve problems by using interpolation method (Create)**<br>**CO5: Describe numerical integration (Understanding)** |
| **ME010204** | **COMPLEX ANALYSIS** | **CO1: Describe Riemann sphere and stereographic projection (Understanding)**<br>**CO2: Solve problems on linear transformation and cross ratio (Create)**<br>**CO3: Solve problems on integration by using theorems of Cauchy (Create)**<br>**CO4: Classify different types of singularities (Analyze)**<br>**CO5: Evaluate definite integrals using different integral methods (Evaluate)** |



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| **ME010205** | **MEASURE THEORY AND INTEGRATION** | **CO1: Explain Lebesgue outer measure (Understand)**<br>**CO2: deduce that the outer measure of an interval is its length (Analyze)**<br>**CO3: Distinguish between Riemann integral and Lebesgue integral (Analyze)**<br>**CO4: Distinguish between the ideas in Hahn and Jordan decompositions (Analyze)**<br>**CO5: Solve problems by using the ideas in product measure (Create)** |
| **SEMESTER III** | | |
| **ME010301** | **Advanced Complex Analysis** | **CO1: Explain Harmonic functions, principles and properties related to harmonic function (Understanding)**<br>**CO2: Determine power series expansions and factorisation of complex functions (Apply)**<br>**CO3: Explain the Riemann Zeta function(Apply)**<br>**CO4: Explain normality and compactness (Analyse)** |



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| | | **CO5: Establish the Riemann Mapping Theorem and the Weierstrass theory (Apply)** |
| **ME010302** | **PARTIAL DIFFERENTIAL EQUATIONS** | **CO1: Describe Pfaffian differential forms and equations and solution of Pfaffian differential equations (Understand)**<br>**CO2: Differentiate linear and non-linear partial differential equations of first order (Analyze)**<br>**CO3: Solve differential equations using Charpit's Method (Create)**<br>**CO4: Explain second order equations and Jacobi's method (Apply)**<br>**CO5: Solve non-linear equations of second order (Apply)** |
| **ME010303** | **MULTIVARIATE CALCULUS AND INTEGRAL TRANSFORMS** | **CO1: Describe the Weirstrass theorem, Fourier series and important theorems on the series (Understand)**<br>**CO2: Explain the concept of derivative and matrix representation in multivariable differential calculus (Apply)** |



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| | | **CO3: Deduce the sufficient condition for differentiability (Analyse)**<br>**CO4: Determine the extrema of real valued functions (Apply)**<br>**CO5: Evaluate the integration of Differential forms (Evaluate)** |
| **ME010304** | **FUNCTIONAL ANALYSIS** | **CO1: Illustrate vector space, normed space and Banach space and important properties of these spaces (Apply)**<br>**CO2: Differentiate linear operators and linear functionals (Understand)**<br>**CO3: Describe inner product space, Hilbert space and direct sum (Understand)**<br>**CO4: Explain orthonormal sets and sequences (Analyse)** |
| **ME010305** | **OPTIMIZATION TECHNIQUES** | **CO1: Ilustrate simplex method, duality theorems and dual simplex method (Apply)**<br>**CO2: Solve I.L.P and M.I.L.P using various methods (Create)** |



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| | | **CO3: Describe goal programming, flow and potential in network (Understand)**<br>**CO4: Explain methods for solving non-linear programming problems (Analyse)** |
| **SEMESTER IV** | | |
| **ME010401** | **SPECTRAL THEORY** | **CO1: Describe convergence and mapping theorems (Understand)**<br>**CO2: Explain Banach fixed point theorem and spectral theory(Analyze)**<br>**CO3: Apply complex analysis in spectral theory (Apply)**<br>**CO4: Explain compact linear operators (Understand)**<br>**CO5: Summarize spectral properties of self adjoint operators (Evaluate)** |
| **ME010402** | **ANALYTIC NUMBER THEORY** | **CO1: Distinguish various arithmetic functions (Analyse)**<br>**CO2: Evaluate averages of arithmetical functions (Evaluate)** |



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| | | **CO3: Explain Elementary Theorems on the Distribution of Prime Numbers (Understand)**<br><br>**CO4: Develop congruences and theorems on congruences (Apply)**<br><br>**CO5: Discuss quadratic residues and the quadratic reciprocity law (Understand)**<br><br>**CO6: Focus on primitive roots (Analyze)** |
| **ME800401** | **DIFFERENTIAL GEOMETRY** | **CO1: Define graphs and level sets, vector fields on surfaces (Remembering)**<br><br>**CO2: Explain The Gauss map, geodesics, Parallel transport (Understand)**<br><br>**CO3: Determine The Weingarten map, curvature of plane curves, Arc length and line integrals (Apply)**<br><br>**CO4: Differentiate Curvature of surfaces and Parametrized surfaces (Analyse)** |



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| **ME800402** | **ALGORITHMIC GRAPH THEORY** | **CO1: Define graphs and algorithms (Remember)**<br>**CO2: Explain trees, paths and distances (Understand)**<br>**CO3: Explain networks, flow in networks and Menger's theorem (Apply)**<br>**CO4: Decide matching in graphs and Factorizations (Evaluate)** |
| **ME800403** | **COMBINATORICS** | **CO1: Explain Permutations and combinations (Understand)**<br>**CO2: Illustrate Pigeonhole principle and the Ramsey number (Apply)**<br>**CO3: Describe the principle of Inclusion and exclusion (Understand)**<br>**CO4: Evaluate generating functions and recurrence relations (Evaluate)** |
| **ME010403** | **Dissertation** | **CO1:Develop a taste for research in mathematics(apply)**<br>**CO2:Develop presentation skills(create)** |
| **ME010404** | **Comprehensive viva-voce** | **CO1:Explain various skills in mathematics(understand)**<br>**CO2:Correlate different concepts in mathematics(analyse)** |



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| **PROGRAMME NAME: M.Sc BOTANY**<br>**PROGRAMME CODE: DMCK-UG-BOT-M1-AD** | |
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| **PROGRAMME SPECIFIC OUTCOMES** | |
| **PSO1** | **To encourage a clear, comprehensive and advanced mastery in the field of Botany.(Apply)** |
| **PSO2** | **To provide basic principles of biological sciences with special reference to Botany and its applied branches (Understand))** |
| **PSO3** | **Enabling the students to explore the intricacies of life forms at cellular, molecular and nano level. (Analyze)** |
| **PSO4** | **To sustain students' motivation and enthusiasm and to help them not only to appreciate the beauty of different life forms but also to inspire them in the dissemination of the concept of biodiversity conservation.(Understand)** |
| **PSO5** | **To develop problem solving skills in students and encourage them to carry out innovative research projects thereby enkindling in them the spirit of knowledge creation (Apply)** |
| **PSO6** | **To maintain a high level of scientific excellence in botanical research with added emphasis on the role of plants in the structure and functioning of terrestrial and aquatic communities and ecosystem (Analyze)** |

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| **PSO7** | **To equip students to perform functions that demand higher competence in National/International fields.(Apply)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER 1** | | |
| **BY010101** | **MICROBIOLOGY AND PHYCOLOGY** | **CO1: Gain adequate knowledge on systematic classification of various algal divisions (Remember)**<br><br>**CO2: Study and impart knowledge about the Occurrence, distribution, structure and life history of lower plants such as algae (Understand).**<br><br>**CO3: Apply the knowledge microbes and find the Importance of the study of microbiology in personal Social life (Apply).**<br><br>**CO4: Find the differences among various forms of microbes such as bacteria and Virus (Analyse)**<br><br>**CO5: Explore the role of microorganisms in Life of plants either as friend or foe and the interrelations within microorganisms and among other life forms (Evaluate).**<br><br>**CO6: Experiment the culture and and preservation of Microbes of economic value (Create).** |
| **BY010102** | **MYCOLOGY AND CROP PATHOLOGY** | **CO1: Understand the characteristic features of fungi and lichens (Remember).** |



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| | | **CO2: Classify fungi with respect to mycelial organization and reproductive methods (Understand)**<br>**CO3: Understand the principles of plant pathology and Disease management (Apply).**<br><br>**CO4: Understand the common diseases affecting plantation crops (Analyse).**<br><br>**CO5: Understand the basics of plant quarantine measures (Evaluate).**<br><br>**CO6: Develop and gain skill to identify plant diseases based on symptoms (Create).** |
| **BY010103** | **BRYOLOGY AND PTERIDOLOGY** | **CO1: Trace the origin and evolution of Bryophytes and Pteridophytes (Remember)**<br><br>**CO2: Describe traditional and modern systems of classification of Bryophytes and Pteridophytes (Understand)**<br><br>**CO3: Explore the external morphology, anatomy and reproduction in Bryophytes and Pteridophytes (Apply)**<br><br>**CO4: Analyse diverse nature of natural habitats preferred by Bryophytes and Pteridophytes (Analyse)**<br><br>**CO5: Find out the evolutionary evidences among the members of the groups Bryophytes and Pteridophytes** |



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| | | **(Evaluate)**<br><br>**CO6: Find out the economic aspects and importance of conservation required among the members of Bryophytes and Pteridophytes (Create)** |
| **BY010104** | **GYMNOSPERMS, PALAEOBOTANY AND EVOLUTION** | **CO1: Origin and Evolution of land plants (Remember).**<br><br>**CO2: Study the classification systems, natural occurrence and diversity at various natural habitats of gymnosperms. (Understand).**<br><br>**CO3: Study the Indian gymnosperms and research on that group (Apply).**<br><br>**CO4: Economic importance of Gymnosperms (Analyse)**<br><br>**CO5: Specific characters of the group Gymnosperms and how they adapt to xeric conditions (Evalutae)**<br><br>**CO6:Exsitu conservation of Gymnosperm flora in Gardens(Create)** |
| **BY010105** | **PRACTICAL COURSE I MICROBIOLOGYPHYCOLOGY,** | **CO1: Understand the general identification features of algae (Remember)**<br><br>**CO2: Understand the procedures for microscopy (Understand)** |



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| | **MYCOLOGY AND CROP PATHOLOGY** | **CO3: Identification techniques for microbes and algae(Apply)**<br><br>**CO4: Identification of fungi from field (Analyse)**<br><br>**CO5:The use of plant protection measures and integrated pest management (Evaluate)**<br><br>**CO6: Pinpoint the causative organisms by symptoms of diseases (Create).** |
| **BY010106** | **PRACTICAL COURSE II**<br><br>**BRYOLOGY, PTERIDOLOGY, GYMNOSPERMS AND PALEOBOTANY** | **CO1: Collect lower forms of plants like Bryophytes,**<br><br>**Pteridophytes and Gymnosperms from their natural habitat (Remember).**<br><br>**CO2: Document their microscopic as well as macroscopic features with proper illustration (Understand)**<br><br>**CO3: Compare morphological as well as anatomical similarities among them along with their fossil representations (Apply).**<br><br>**CO4: Understand the importance of extinct flora (Analyse)**<br><br>**CO5: Evaluate the origin of land plants (Evaluate)** |

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| | | **CO6: Economic and ecological potential of lower plant forms, importance of conservation (Create)** |
| **SEMESTER II** | | |
| **BY010201** | **PLANT ANATOMY, DEVELOPMENTAL BIOLOGY AND HORTICULTURE** | **CO1: Understand the internal structure of evolved group of plants.(Remember)**<br>**C02: Recognise the structure, development and differentiation of tissues (Understand)**<br>**CO3: Application of the basic concepts and theories related to developmental of plants (Apply)**<br>**CO4: Evaluate the applications of developmental biology to understand the basics responses of growth (Analyse)**<br>**CO5: Evaluate the scope and importance, classification and commercial importance of horticultural plants (Evaluate).**<br>**CO6: Application of commercial floriculture (Create).** |
| **BY010202** | **CELL BIOLOGY, GENETICS AND PLANT BREEDING** | **CO1: Understand the basics of a plant cell. (Remember).**<br>**CO2: Understand cell interactions and cell signalling (Understand)** |

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| | | **CO3: Cell cycle and various concepts of genetics (Apply)**<br>**CO4: Human genetics and Hardley Weinberg equilibrium (Analyse)**<br>**C05: Plant breeding for improvement of crops (Evaluate)**<br>**CO6: Production of hybrids (Create)** |
| **BY010203** | **PLANT PHYSIOLOGY AND BIOCHEMISTRY** | **CO1: Absorption and translocation system in plants (Remember)**<br>**CO2: Know the action of plant hormones relate with plant life cycle (Understand).**<br>**CO3: Key physiological requirements for photosynthesis (Apply).**<br>**CO4: Metabolic pathways and Environmental effects physiology (Analyse)**<br>**CO5: The role of biomolecules in life of plants (Evaluate)**<br>**CO6: Biomolecules of economic value (Create).** |
| **BY010204** | **Molecular Biology** | **CO1 : Structure and function of nucleic acids (Remember).**<br>**CO2: Mechanism of DNA replication (Understand)**<br>**CO3 : Mutations (Apply).** |



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| | | **CO4 : Gene expression and the role of transcription factors on gene regulation (Analyse)**<br><br>**CO5 : Transposons and DNA Repair (Evaluate)**<br><br>**CO6: Genetic code (Create)** |
| **BY010205** | **PLANT ANATOMY, DEVELOPMENTAL BIOLOGY, HORTICULTURE, CELL BIOLOGY, GENETICS AND PLANT BREEDING-PRACTICAL COURSE I** | **CO1: Anomalous anatomy in plants (Remember)**<br><br>**CO2: Understand various types of stomata and nodal anatomy (Understand)**<br><br>**CO3: Vegetative propagation techniques (Apply)**<br><br>**CO4: Cell division- Mitosis and Meiosis (Analyse).**<br><br>**CO5: Analyse linkage, crossing over and pedigree (Evaluate)**<br><br>**CO6: In-vitro pollen germination and staining-technique (Create).** |
| **BY010206** | **PLANT PHYSIOLOGY, BIOCHEMISTRY AND MOLECULAR BIOLOGY-PRACTICAL COURSE -2** | **CO1: Separation of pigments and assay of enzymes(Remember)**<br><br>**CO2: Familiarity and working knowledge to Instruments (Understand) .**<br><br>**CO3: Understanding genetic code (Apply).**<br><br>**CO4: Working knowledge on reagents, solutions and their dilutions (Analyse)** |

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| | | **CO5: Estimation Biomolecules (Evaluate)**<br>**CO6: Revealing the characteristics of Genetic code by**<br>**problem solving method (Create).** |
| **SEMESTER III** | | |
| **BY010301** | **RESEARCH METHODOLOGY, MICROTECHNIQUE, BIOSTATISTICS AND BIOPHYSICAL INSTRUMENTATION** | **CO1: Discuss the objectives, types and stages of Research (Remember).**<br>**CO2: How to prepare project proposals for funding (Understand).**<br>**CO3: Attain technical skills for instrumentation (Apply).**<br>**CO4: Statistical analysis of data (Analyse).**<br>**CO5: Importance of pre-treatments and staining in anatomy (Evaluate)**<br>**CO6: Research designs (Create)** |
| **BY010302** | **BIOTECHNOLOGY, BIOINFORMATICS AND BIONANOTECHNOLOGY** | **CO1: Understand the basics of biotechnology in plant science. (Remember)**<br>**CO2: Familiarising the tools and techniques of bioprocessing, tissue culture and genetic engineering (Understand).**<br>**CO3: Standardise conditions for In-vitro regeneration of plant species (Apply)** |



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| | | **CO4: Design strategies for a genetically modified organism (Analyse).**<br><br>**CO5: Understand the concepts and techniques involved in recombinant DNA technology (Evaluate).**<br><br>**CO6: Biological technology databases (Create)** |
| **BY010303** | **ANGIOSPERM TAXONOMY, ECONOMIC BOTANY AND ETHNOBOTANY** | **CO1: Evolution of classification of Angiosperms**<br><br>**(Remember).**<br><br>**CO2: ICBN rules and methods (Understand)**<br><br>**CO3: Application of ICBN rules and use of terminology on**<br><br>**plant description (Apply)**<br><br>**CO4: Valid names and Priority (Analyse)**<br><br>**CO5: Familiarising flora (Evaluate)**<br><br>**CO6: Economic importance and value addition of plants**<br><br>**(Create)** |
| **BY010304** | **ENVIRONMENTAL SCIENCE** | **CO1:Concept of Ecosystem (Remember)**<br><br>**CO2:Community and Population (Understand)**<br><br>**CO3: Interactions among various biotic and abiotic system and its balance in existence (Apply)** |

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| | | **CO4:Role of indexes in Ecosystem stability (Analyse)**<br><br>**CO5: Concept of biosphere, nutrient and energy cycles (Evaluate)**<br><br>**CO6 : Reducing the pollution load (Create)** |
| **BY010305** | **RESEARCH METHODOLOGY, MICROTECHNIQUE, BIOSTATISTICS, BIOPHYSICS AND BIOTECHNOLOGY-PRACTICAL COURSE I** | **CO1: Cataloging and Review of literature (Remember)**<br><br>**CO2: Research paper, report and ethics (Understand)**<br><br>**CO3: Test of significance and error (Apply)**<br><br>**CO4: Develop Skill and standardization of microtechnique procedures for various plants (Analyze)**<br><br>**CO5:Components of medium for tissue culture and conditions (Evaluate)**<br><br>**CO6:The genomes archives and analysis (Create)** |
| **BY010306** | **ANGIOSPERM TAXONOMY, ECONOMIC BOTANY AND ENVIRONMENTAL SCIENCE-PRACTICAL COURSE II** | **CO1: Field exploration and methods of identification (Remember).**<br><br>**CO2: Scientific illustration of plants and description in technical terms (Understand)**<br><br>**CO3: Use of Flora (Apply)**<br><br>**CO4: Find similarity and status of family genus and species (Analyse).** |



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| | | **CO5: Plant products and Value addition (Evaluate).**<br>**CO6: Estimation of nature of pollution in abiotic components (Create).** |
| **SEMESTER IV** | | |
| **BY810401** | **FOOD, AGRICULTURAL AND ENVIRONMENTAL MICROBIOLOGY** | **CO1: Role of microbes in food industry and agriculture (Remember)**<br>**CO2: Apply the potential of microbes to improve health and quality life (Understand)**<br>**CO3: Microbes as biofertilizers and biopesticides (Apply)**<br>**CO4: Microbial diversity and culture (Analyse)**<br>**CO5: Bioremediation (Evaluate)**<br>**CO6: Use of microbes in waste disposal (Create)** |
| **BY810402** | **CLINICAL MICROBIOLOGY** | **CO1: Basics of Immune system (Remember).**<br>**CO2: Clinical uses of antigen and antibodies (Understand).**<br>**CO3: Success of transplantation (Apply)**<br>**CO4: Viral and bacterial diseases diagnosis and treatment (Analyze)**<br>**CO5: Use of antibiotics and antibiotic resistance** |



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| | | **(Evaluate)**<br>**CO6:Treatment protocol for various diseases (Create)** |
| **BY810403** | **INDUSTRIAL MICROBIOLOGY** | **CO1: Isolation protocol for beneficial microbes (Remember)**<br>**CO2: Mode of operation of various fermenters. (Understand)**<br>**CO3: Development and utilization of industrially important products (Apply).**<br>**CO4:Scaleup processes (Analyse)**<br>**CO5:Product purification (Evaluate)**<br>**CO6: Revolution of fermentation industry (Create)** |
| **BY810404** | **FOOD, AGRICULTURAL AND ENVIRONMENTAL MICROBIOLOGY-PRACTICAL COURSE I** | **CO1: Near to a microbe, caution and safety (Remember)**<br>**CO2: Develop manual skills to study the behaviour of microorganisms (Understand).**<br>**CO3: Isolation of microorganisms from different Sources (Apply)**<br>**CO4: Growth requirements and products from microbes (Analyse).** |



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| | | **CO5: Estimation of mycorrhizal colonization in roots (Evaluate)**<br>**CO6: Microbial assay (Create)** |
| **BY810405** | **CLINICAL MICROBIOLOGY AND INDUSTRIAL MICROBIOLOGY-PRACTICAL COURSE II** | **CO1: Understand the protocol for collection of clinicals**<br>**CO2:Familiarize Equipment/Cultures /Reagents/ Diagrams (Understand)**<br>**CO3: Determine the blood group (Apply)**<br>**CO4: Staining of bacteria (Analyse)**<br>**CO5:Optimization of process parameters (Evaluate)**<br>**CO6: Lab scale synthesis (Create)** |
| **BY10401** | **Project and General viva** | **CO1: Knowledge in the general field of Botany (Remember)**<br>**CO2: Assess the learning outcome (Understand)**<br>**CO3: Chance to demonstrate the verbal and oral skills (Apply)**<br>**CO4: Understanding of the subject up to the level of PG.(Analyze)**<br>**CO5: Proving the project work is original (Evaluate)**<br>**CO6: Significance and the application of findings (Create)** |

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| **PROGRAMME NAME: M.Sc ZOOLOGY**<br>**PROGRAMME CODE:DMCK-PG-ZOO-M1-SF** | |
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| **PROGRAMME SPECIFIC OUTCOMES** | |
| **PSO1** | **Establish knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms and Interpret the ecological interconnectedness of life on earth (Analyze)** |
| **PSO2** | **Judge the unity of life with the rich diversity of organisms and their ecological and evolutionary significance. (Understand)** |
| **PSO3** | **Acquire basic skills in the observation and study of nature, biological techniques, experimental skills and scientific investigation. (Apply)** |
| **PSO4** | **Developing deeper understanding of key concepts of biology and Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms. (Apply)** |
| **PSO5** | **Articulating environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species. (Apply)** |
| **PSO6** | **Evaluate various concepts of genetics and its importance in human health (Analyze)** |



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| **PSO7** | **Use the concepts for application in medical entomology, apiculture, aquaculture, agriculture and modern medicine. (Apply)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER 1** | | |
| **ZL010101** | **ANIMAL DIVERSITY: PHYLOGENETIC AND TAXONOMIC** | **CO1: Recognize the phylogenetic relationships among the different groups of animals**<br>**CO2: Evaluate the latest trend in animal taxonomy and phylogenetic systematics**<br>**CO3: Explain a thorough understanding in the principles and practice of systematic.**<br>**CO4: Acquire an in-depth knowledge on the diversity and relationships in animal world**<br>**CO5: Develop an holistic appreciation on the phylogeny and adaptations in animals** |
| **ZL010102** | **EVOLUTIONARY BIOLOGY AND ETHOLOGY** | **CO1: describe the concept of relatedness and its connection to biological evolution**<br>**CO2: apply knowledge to new information and data, as well as the capacity to effectively** |



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| | | **communicate the principles of evolution and its application to human biology.**<br><br>**CO3: expose students to the basics and advances in ethology, and generate an interest in the subject in order to understand the complexities of studying animal behavior on every level of the biological hierarchy**<br><br>**CO4: equip the learners to critically evaluate the debates and take a stand based on science and reason**<br><br>**CO5: expose students to the basics and advances in ethology, and generate an interest in the subject in order to understand the complexities of both animal and human behavior** |
| **ZL010103** | **BIOCHEMISTRY** | **CO1: Discover the chemical nature of life and life process**<br><br>**CO2: Provide an idea on structure and functioning of biologically important molecules**<br><br>**CO3: Generate an interest in the subject and help students explore the new developments in Biochemistry** |



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| | | **CO4: Interpret the importance of metabolism of biomacromolecules in normal physiology of a man**<br><br>**CO5: Analyze the abnormal metabolism of biomolecules and the resultant diseases** |
| **ZL010104** | **BIOSTATISTICS AND RESEARCH METHODOLOGY** | **CO1: impart concepts of statistics and research methodology, and create awareness about the gadgets, tools and accessories of biological research**<br><br>**CO2: improve analytical and critical thinking skills through problem solving.**<br>**CO3: enable learners to effectively apply suitable statistical tests in research**<br><br>**CO4: sensitize students about the ethics involved in research and enable them to come up with innovative research designs**<br><br>**CO5: equip learners to prepare research papers and project proposals** |
| **ZL010105** | **PRACTICAL 1 Animal Diversity: Evolutionary, Ethological and** | **CO1: Identify different species of vertebrates and invertebrates and their significance**<br>**CO2: Enable them to prepare dichotomous keys for the identification of species.** |



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| | **Biochemical methods & Approaches** | **CO3: Solve problems related to population genetics**<br>**CO4: Understand the behavior and activity pattern of organisms.**<br>**CO5: Quantitative estimation of Biomolecules and use of statistical tools** |
| **SEMESTER II** | | |
| **ZL010201** | **FIELD ECOLOGY** | **CO1: Develop an understanding on the basic theories and principles of ecology**<br>**CO2: Interpret various disciplines in ecology**<br>**CO3: Examine current environmental issues based on ecological principles**<br>**CO4: Adapt critical understanding on human influence on environment**<br>**CO5: Develop a balance our economic, environmental and social needs, allowing prosperity for now and future generations**<br>**CO6 :Choose an improved human life quality. It involves the mobilization of resources and the use of government to administer the use of both natural and economic goods and services. It is based on the principles of ecology.** |



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| **ZL010202** | **DEVELOPMENTAL BIOLOGY** | **CO1: Describe the concepts and process in developmental biology**<br><br>**CO2: Evaluate and appreciate the genetic mechanisms and the unfolding of the same during development**<br><br>**CO3 Expose the learner to the new developments in embryology and its relevance to Man**<br><br>**CO4: Examine the molecular the molecular, genetic, cellular and integrative aspects of building an organism.**<br><br>**CO5: Research of development has become essential for understanding any other area of biology.** |
| **ZL010203** | **GENETICS AND BIOINFORMATICS** | **CO1: Define and understand the principles and mechanism of inheritance**<br><br>**CO2: Describe the fine structure of genetic material and molecular basis of hereditary transmission**<br><br>**CO3: Examine the significance of Genetics in Principle inheritance of traits in Man**<br><br>**CO4: Define the role of genetics in evolution** |



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| | | **CO5: Estimate the emerging field of bioinformatics and to equip the students to take up bioinformatics studies** |
| **ZL010204** | **MICROBIOLOGY AND BIOTECHNOLOGY** | **CO1: Describe an over view of the microbial world, its structure and function**<br><br>**CO2: Develop the fundamental aspects of the basic biology of bacteria and viruses**<br><br>**CO3: Develop an intensive and in-depth learning in the field of biotechnology**<br><br>**CO4: Familiarize the student with emerging field of biotechnology**<br><br>**CO5: Adapt the modern biotechnology practices and approaches with an emphasis in technology application, medical, industrial, environmental and agricultural areas and nanomedicine**<br><br>**CO6: Clarify public policy, biosafety, and intellectual property rights issues related to biotechnology** |



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| **ZL010205** | **PRACTICAL 2 Diversity of life: Ecological, Embryological, Hereditary and Microbial Methods and Approaches** | **CO1: Analyze various soil and water quality parameters and their significance**<br>**CO2: Solve genetic problems**<br>**CO3: Apply various bioinformatics tools for the analysis and construction of phylogenetic trees.**<br>**CO4: Perform various staining techniques and study the animal developmental stages.**<br>**CO5: Perform various microbiological techniques** |
| **SEMESTER III** | | |
| **ZL010301** | **ANIMAL PHYSIOLOGY** | **CO1: Compare the functioning of organ systems across the animal world**<br>**CO2: Design an overview of the comparative functioning of different systems animals**<br>**CO3:Examine more about human physiology.**<br>**CO4: Adapt a thorough understanding of normal body function, enabling more effective treatment of abnormal or disease states.**<br>**CO5:Compare the life-supporting properties, functions and processes of animals or their parts.** |



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| **ZL010302** | **CELL AND MOLECULAR BIOLOGY** | **CO1: Define the structural and functional details of the basic unit of life at the molecular level**<br>**CO2: Develop the learner to refresh and delve into the basics of cell biology**<br>**CO3: Interpret the new developments in molecular biology and its implications in human welfare**<br>**CO4: Create new insights into the nature of genes and proteins and the relationship between them.**<br>**CO5: Develop a solid foundation in cell biology, molecular biology, microbiology, biochemistry and molecular genetics.** |
| **ZL010303** | **BIOPHYSICS, INSTRUMENTATION AND BIOLOGICAL TECHNIQUES** | **CO1: Describe the biological system and processes based on physical principles**<br>**CO2: Design and insight on the tools and techniques of various instruments available for biochemical and biophysical studies**<br>**CO3: Examine the operational skills of different instruments required in Zoology.**<br>**CO4: Interpret the theories and methods of physics to understand how biological systems work.** |

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| | | **CO5: Designing and solving age-old human problems as well as problems of the future.** |
| **ZL010204** | **IMMUNOLOGY** | **CO1: Describe an intensive and in-depth knowledge to the students in immunology**<br>**CO2: Examine the role of immunology in human health and well-being**<br>**CO3: Adapt the new developments in immunology**<br>**CO4: Visualize how the immune system develops, how the bode defends itself against disease and what happens when it all goes wrong.** |
| **ZL010305** | **PRACTICAL 3 Molecular, Physiological and Immunological Methods and Approaches in Biosciences** | **CO1: Analyze various slide preparations and histochemical studies in Cell Biology and Understand the working of various biological instruments**<br>**CO2: Analyze various factors affecting enzyme activity**<br>**CO3: Understand various softwares related to Physiology**<br>**CO4: Demonstrate different Immunological Techniques** |



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| SEMESTER IV | | |
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| **ZL810401** | **ENVIRONMENTAL SCIENCE: CONCEPTS AND APPROACHES** | **CO1:Develop a broad and deep understanding on environment and influence of man on environment**<br><br>**CO2: Equip the students to use various tools and techniques for the study of environment**<br><br>**CO3:Adapt to think and evolve strategies for management and conservation of environment for sustaining life on earth**<br><br>**CO4: Design further studies and research in the field** |
| **ZL810402** | **ENVIRONMENTAL POLLUTION AND TOXICOLOGY** | **CO1:Create an intensive and in-depth knowledge to the students in toxicology**<br><br>**CO2: Estimate the role of pollution in human health and well-being**<br><br>**CO3: Familiarize the students the new developments in pollution control**<br><br>**CO4: Organize a contribute to the general knowledge of the harmful actions of chemical substances, to study their mechanisms of action, and to estimate their possible risks to** |



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| | | **humans on the basis of experimental work on biological test systems**<br><br>**CO5: Evaluate the current environmental issues based on ecological principles**<br><br>**CO6:Examine human influence on environment** |
| **ZL810403** | **ENVIRONMENTAL MANAGEMENT AND DEVELOPMENT** | **CO1: Generate our economic, environmental and social needs, allowing prosperity for now and future generations**<br><br>**CO2: Modify human life quality.**<br><br>**CO3: Interpret the mobilization of resources and the use of government to administer the use of both natural and economic goods and services. It is based on the principles of ecology**<br><br>**CO4:Evaluate current environmental issues based on ecological principles**<br><br>**CO5: Develop critical understanding on human influence on environment** |



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| **ZL810404** | **PRACTICALS 4-ENVIRONMENTAL SCIENCE** | **CO1: Analyze various soil and water quality parameters and their significance**<br>**CO2: Analyze air quality parameters their significance**<br>**CO3: Understand histopathological changes of tissues under different conditions**<br>**CO4: Understand the biodiversity of various ecosystems** |
| **ZL010401** | **PROJECT** | **CO1: Understand various research methods**<br>**CO2: Create scientific knowledge**<br>**CO3: Inculcate scientific temper**<br>**CO4: Create social responsibility**<br>**CO5: Prepare research designs** |
| **ZL010402** | **VIVA** | **CO1: Developing deeper understanding of key concepts of biology**<br>**CO2: Acquire basic skills in the observation and study of nature, biological techniques,**<br>**experimental skills and scientific investigation.**<br>**CO3: Understand environmental conservation processes and its importance,** |



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| | | **pollution control and biodiversity and protection of endangered species.**<br><br>**CO4: Interpret the ecological interconnectedness of life on earth**<br><br>**CO5: Understand zoological science for its application in medical entomology, apiculture, aquaculture, agriculture and modern medicine** |



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| **PROGRAMME NAME MCom Finance & Taxation**<br>**PROGRAMME CODE: DMCK-PG-COM-M1-AD** | |
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| **PROGRAMME SPECIFIC OUTCOMES** | |
| **PSO1** | **Inculcating managerial skills and theoretical knowledge for managing business units with special focus on functional areas of business and management. (Understand)** |
| **PSO2** | **Imparting advanced accounting knowledge and skills and providing awareness regarding latest developments in the field of accounting.(Understand)** |
| **PSO3** | **Enabling learners to acquire advanced theoretical knowledge on research methods and techniques and also developing capabilities in the application of research in solving business related problems.(Analyze)** |
| **PSO4** | **Acquisition of expertise in specialized fields like finance, taxation, marketing, management and information technology.(Apply)** |
| **PSO5** | **Development of quantitative aptitude and analytical skills of the learner.(Understand)** |
| **PSO6** | **Facilitating learner to pursue career in professional areas of commerce and management such as taxation, financial services, consultancy etc.(Apply)** |

| COURSE OUTCOMES | | |
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| **SEMESTER 1** | | |
| **CM010101** | **Specialised Accounting** | **CO1: Providing an in depth understanding about theoretical and practical aspects of major Accounting Standards to apply the same in different practical situationsUnderstand and (Apply)**<br><br>**CO2:Ascertain the value of goodwill and value of companies based on the value of shares and compare the real value of shares and with the market prices and identify the mispricing.(Apply)**<br><br>**CO3;In depth understanding about the determination of purchase consideration in the event of amalgamation and to prepare post amalgamation financial statements.(Apply)**<br><br>**CO4:Develop a clear understanding about different types of NBFCs, their provisioning norms and to understand the concept of NAV of mutual funds through its computation.(Apply)**<br><br>**CO5:Acquaint with the theoretical aspects of emerging areas in accounting. (Understanding)** |
| **CM010102** | **Organisational Behaviour** | **CO1:Basic understanding about the concepts of organisation behaviour.(Understand)** |



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| | | **CO2:A very good understanding about individual behaviour, personality and motivation.(Understand and Evaluvate)**<br><br>**CO3: Imparting deep understanding about group behaviour and leadership related to organisational behaviour. (Understand)**<br><br>**CO4: Add the knowledge base of the leaner regarding change management and deal with stress.(Understand and Apply)**<br><br>**CO5:Impart knowledge about the role of organisational culture and conflict on organizational behavior. (Evaluate and Apply)** |
| **CM010103** | **Marketing Management** | **CO1: The learner should have a basic understanding about concepts like customer centricity, CRM, value chain and customer delight.(Understand)**<br><br>**CO2: The learner should get a clear understanding about the market segmentation process and its applications in marketing strategies.(Understand and Evaluvate)**<br><br>**CO3:Develop an idea about consumer behaviour and its impact.(Understand and Apply)**<br><br>**CO4: Good understanding about product line, product mix, brand equity, brand identity, brand personality and brand image.(Understand and Evaluvate)** |



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| | | **CO5:Develop sound ideas regarding services marketing and service quality.(Understand and Apply)** |
| **CM010104** | **Management Optimisation Techniques** | **CO1:Develop theoretical understanding about various business optimisation models.(Understand)**<br>**CO2:Ability to develop Linear Programming Models for business problems and Solve the same. (Evaluate and Apply)**<br>**CO3:Application of Linear Programming in the areas of transportation and assignment.(Understand)**<br>**CO4:Develop decision making skills under uncertainty, risk and replacement of assets.(Evaluate and Apply)**<br>**CO5:Understand and apply network analysis techniques for project implementation.(Understand and Apply)** |
| **CM010105** | **Methodology for Social Science Research** | **CO1:Develop a thorough understanding about the basic concepts of social science research.(Understand)**<br>**CO2:After completing this module, the learner should be able to formulate a research design. (Understand & Evaluate)**<br>**CO3:After studying the theoretical aspects of sampling design, the learner should be able to draw a sampling design.(Understand )** |



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| | | **CO4:Detailed knowledge about the instrument development, its validation and different forms of scaling. (Evaluate)**<br>**CO5:Understand the technique of research reporting. (Understand & Apply)** |
| **SEMESTER2** | | |
| **CM010201** | **Advanced Corporate Accounting** | **CO1:The learner should be able to prepare consolidated financial statements of group companies.(Apply)**<br><br>**CO2: Preparation of the financial statements of public utility companies and deal with the disposal of surplus. (Apply)**<br><br>**CO3:Develop and awareness on the procedure of bankruptcy under the recent Bankruptcy Procedure code. (Understand)**<br><br>**CO4:Familiarising the learner with the accounting procedures of liquidation of companies and preparation of various statements required as per the Companies Act.(Evaluate)**<br><br>**CO5;Basic understanding about the preparation of accounts of some special lines of businesses like shipping, hospitals and hotels.(Understand &Apply)** |
| **CM010202** | **Human Resource Management** | **CO1:Acquaintance with basic concepts of HRM and performance appraisal.(Understand)** |



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| | | **CO2:Understanding about human resource development, stress management and work life management.(Understand)**<br><br>**CO3:High level knowledge about various aspects of training.(Evaluate)**<br><br>**CO4:Understanding about various aspects of industrial relations so as to evaluate the real cases of industrial relations.(Understand)**<br>**CO5:Understanding about HR outsourcing HR accounting and HR audit.(Understand & apply)** |
| **CM010203** | **International Business and Finance** | **CO1;Familiarisation with globalisation, internationalisation of business and the international business environment.(Understand)**<br><br>**CO2;Understanding about theories of international trade, trade barriers and trade blocks.(Understand)**<br><br>**CO3;Imparting idea about various economic institutions related to international trade.(Understand)**<br><br>**CO4;Achieve high level knowledge about various aspects of international monetary system.(Understand & evaluate)**<br><br>**CO5;Develop an understanding about the international investment environment.(Understand)** |
| **CM010204** | **Quantitative Techniques** | **CO1;This course intends to give understanding about the applications of quantitative techniques.(Understand)** |

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| | | **CO2;This course intends to give understanding about the applications of quantitative techniques.(Understand)**<br><br>**CO3;After learning this course, the student should be in a position to identify appropriate parametric test for testing the hypotheses.(Apply)**<br><br>**CO4;The learner should be equipped with the skills to identify the most suitable non parametric test for testing a hypothesis.(Apply and Evaluate)**<br>**CO5;The learner should be equipped with the skills to apply the principles of SQC(Understand)** |
| **CM010205** | **Strategic Management** | **CO1;Strong understanding about the theoretical foundations of strategic management.(Understand)**<br><br>**CO2;Clear understanding about various models of environmental and internal analysis.(Understand)**<br><br>**CO3;Development of an idea about the strategy formulation process at the corporate level.(Understand)**<br><br>**CO4; Familiarization with various tools strategic planning and evaluation. (Evaluate)**<br><br>**CO5; Understanding about the modes of implementation and control of strategies. (Understand)** |
| **SEMESTER III** | | |



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| **CM010301** | **Strategic Financial Management** | **CO1;Learn the theoretical foundations of financial management and financial management decisions.(Understand and remember)**<br><br>**CO2; Evaluate the feasibility of different options regarding discount, credit period, storage cost etc related to current assets and current liabilities and estimate working capital requirements. (Evaluate and Apply)**<br><br>**CO3;Evaluate long term proposals and evaluate the risk associated with long term investment.(Evaluate and Apply)**<br>**CO4;Evaluate the decisions regarding leasing of capital assets.(Evaluate and Apply)**<br><br>**CO5; Evaluate and Compare the performance of business entities. (Evaluate and Apply)** |
| **CM010302** | **Income Tax – Law and Practice** | **CO1; Acquire knowledge regarding the basic concepts of Income Tax. (Remember)**<br><br>**CO2; Able to compute the income from salary and house property. (Understand, Apply)**<br><br>**CO3; Determine taxable profit of a business or profession. (Understand, Apply)** |

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| | | **CO4;Able to compute capital gain and income from other sources.(Understand, Apply)**<br><br>**CO5; Able to calculate Gross Total Income of an individual.**<br><br>**CO6;Learner shall be able to determine eligible deductions and compute Taxable Income and tax liability of an individual.(Understand, Apply and evaluate)** |
| **CM010303** | **Security Analysis and Portfolio Management** | **CO1;Able to understand the concepts of investments, different types of investments, views of investment and process of investment and apply the theoretical knowledge in investment information for selecting the securities.. (Understand, Apply)**<br><br>**CO2; Understanding the types of risk in security market and Applying various tools for the valuation of bonds as well as economic indicators to predict the market. (Understand, Apply)**<br><br>**CO3;Understand the tools of technical analysis, analyse the patterns and trends in the market by using various tools and enable to take investment decisions after understanding market efficiency level also. .(Understand, Apply)** |



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| | | **CO4; Applying Modern portfolio theories and construct optimum portfolios..(Understand, Apply)**<br><br>**CO5; Revising constructed portfolios as per risk and return association by using different strategies..(Understand)** |
| **CM800301** | **Indirect Tax Laws (Group I)**<br>**Logistics and Supply Chain** | **CO1;Understand the basic concepts of the Goods and Services Tax(Understand)**<br><br>**CO2;Develop a clear idea about the levy and collection of tax and tax credit(Understand)**<br><br>**CO3;Develop the knowledge about the provisions regarding registration , preparations of books of accounts and filing of returns under the Act.(Understand, Apply)**<br><br>**CO4;Understand about the powers of GST authorities regarding inspection, search and seizure(Understand)**<br><br>**CO5;Basic understanding about the Customs Law in India.(Understand)** |
| **SEMESTER IV** | | |
| **CM010401** | **Advanced Cost and Management Accounting** | **CO1 Apply activity based absorption methods instead of conventional absorption method. (Apply)**<br><br>**CO2 Apply the marginal costing principles in decision making situations of businesses. (Apply)** |



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| | | **CO3 Dealing with practical cases of pricing decisions in different situations (Evaluate)**<br><br>**CO4 Understand the concepts of standard costing,and the process of cost control through it.(Understanding and apply)**<br><br>**CO5 Deal with the practical issues related to transfer pricing (Apply)** |
| **CM010402** | **Income Tax-Assessment and Procedure** | **CO1.Compute the total income and tax liability of firms and Association of Persons. Understand & Apply**<br><br>**CO2 Carry out assessment of companies anddetermine their tax liability (Understand & Apply)**<br><br>**CO3 Make the assessment of co operative societies and trusts. (Understand & Apply)**<br><br>**CO4 Understanding about the assessment procedures, TDS and advance payment of tax and application in various situations (Understand & Apply)**<br><br>**CO5 Learn tax planning concepts and apply the same (Understand &Apply)** |
| **CM800401** | **Derivatives and Risk Management ( Group 1)** | **CO1 Knowledge about the derivative market in India, its evolution, types, players, risks involved and basic quantitative foundations (Remember and Apply)** |



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| | | **CO2 Analyze the implications of Risk in the perception of individuals and Institutions and measurement of risks (Analyse and Apply)**<br><br>**CO3 Understand and explain the concept of forward market and its function , (Understand)**<br><br>**CO4 Analyse the operation and pricing of various types of futures (Analyse,Creative)**<br><br>**CO5 Understand the concepts and methodology of option trading and apply the models of pricing the option contracts (Understand, analyse and Creative)**<br><br>**CO6 Develop an idea of exchanges through Swaps (Understand)** |
| **CM800402** | **Personal Investment and Behavioural Finance (Group 1)** | **CO1 Understand the meaning and significance of Financial literacy, Financial Discipline & Financial Competency, the role of family and parents in financial socialization**<br><br>**(Understand and Evaluate)**<br>**CO2 Understand and Evaluate the Significance of savings on financial destiny and it relationship with Consumerism and to understand the different elements/steps in Personal Financial Planning to attain Financial Well Being and Evaluate the different retail investment avenues. (Understanding & Evaluate)**<br><br>**CO3 Know the meaning of Behavioural** |



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| | | **Finance,its evolution and related theories (Understand &Remember)**<br><br>**CO4 To understand different Heuristics, Biases and other Irrational Investment Behaviours (Understandingand evaluate)**<br><br>**CO5 Understand the relationship between biases and to adopt techniques to lower the impact of biases (Understand & Apply)** |
| **CM010403** | **Project Report** | **CO1 Quality Research Output and presentation (Evaluate, Analyse and Apply)** |
| **CM010404** | **Comprehensive Viva Voce** | **CO1 The learner should have the capacity to communicate his/her understanding in various subjects studied. (Remember, Evaluate analyse)** |

# PROGRAMME OUTCOMES - U.G COURSES

| PO No | PROGRAMME OUTCOMES |
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| PO1 | ACQUIRE DOMAIN KNOWLEDGE |
| PO2 | DEVELOP CRITICAL THINKING AND PROBLEM-SOLVING ABILITY |
| PO3 | LIFE LONG LEARNING CAPABILITY IN THE SOCIO-CULTURAL AND TECHNOLOGICAL SPHERE |
| P04 | DEVELOP PRACTICAL SKILLS IN THE AREA OF STUDY |
| PO5 | ENHANCE LEADERSHIP SKILLS, TECHNICAL EXPERTISE AND ENTREPRENEURSHIP APTITUDE |
| PO6 | DEVELOP COMMUNICATION AND INTERPERSONAL SKILLS |
| PO7 | CREATE A DRIVE FOR SOCIAL AND SCIENTIFIC INNOVATION |
| PO8 | DEVELOP VALUES AND ETHICAL OUTLOOK FOR RESPONSIBLE CITIZENSHIP |
| PO9 | DEVELOP A POSITIVE ATTITUDE TOWARD ENVIRONMENTAL SUSTAINABILITY AND INCLUSIVE GROWTH |
| PO10 | IMPROVE EMPLOYABILITY OF STUDENTS THROUGH APPLICATION ORIENTED LEARNING |



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| **PROGRAMME NAME B.A ECONOMICS**<br>**PROGRAMME CODE: DMCK-UG-ECO-M1-AD** | | |
| **PROGRAMME SPECIFIC OUTCOMES** | | |
| **PSO1** | **:Explain the basic concepts, quantitative and theoretical aspects of Economics (Understand)** | |
| **PSO2** | **Analyse The major economic and environmental issues in the economy and export and import measures in the global market (Analyse)** | |
| **PSO3** | **Solve the problems in the economy and use mathematical and statistical tools and articulate problem solving skill and communication skills (Apply)** | |
| **PSO4** | **Apply the theoretical knowledge, political awareness, environmental consciousness and skills to identify, investigate and formulate new ideas and concepts (Create)** | |
| **PSO5** | **Assess the functioning of stock exchanges and predict future changes in the economic variables based on the preceding economic data (Evaluate)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER 1** | | |
| **EN1CC01** | **FINE-TUNE YOUR ENGLISH** | **CO1: Describe the basic rules of grammar in English for effective communication (understand level)**<br>**CO2: Develop language learning skills like Listening, Speaking, Reading and Writing (apply level)** |



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| | | **CO3: Develop the compositional skills and conversational skills in English in academic, professional and social contexts (apply level)**<br>**CO4: Recognize the common and uncommon errors committed by the speakers in daily English conversation (remember level)**<br>**CO5:Distinguish between the tense forms of verbs in English and identify the correct usage of tenses in sentences (understand level)**<br>**CO6: Explain about the enrichment of English vocabulary through different word formation processes (apply level)** |
| **EN1CC02** | **PEARLS FROM THE DEEP** | **CO1:Distinguish the features of specific literary genres (understand level)**<br>**CO2: Identify the prominent writers in Literature, their seminal works and their style of writing (understand level)**<br>**CO3: Explain the major themes and critical ideas that appear in the literary texts and their impact on culture and society (apply level)**<br>**CO4: Analyze different forms of literature across a wide range of literary age and explain the the socio-political contexts of literary works (analyze level)** |



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| **HN 1 CCT01** | **PROSE & ONE ACT PLAYS** | **CO1: Explain the content, aspects and issues discussed in the prose & One Act Plays.**<br>**( II Understanding)**<br>**CO2 : Quote the eminent Hindi Prose & One Act play writers and their works mentioned**<br>**in the syllabus.( I Remembering)**<br>**CO3: Evaluate a writer and his/her literary works.( IV Analyzing)**<br>**CO4:Deduce a social and moral value based point of views.( IV Analyzing)**<br>**CO5: Develop the skill to use good and correct Language.( VI Creating)** |
| **ML1CCT01** | കഥാസാഹിത്യം | CO1:മലയാളകഥയുടെയും നോവലിന്റെയുംചരിത്രം, ഭാവുകത്വപരിണാമംഎന്നിവവിവരിക്കുക. (Understand)<br>CO2:കഥ,നോവൽ എന്നീസാഹിത്യരൂപങ്ങളുടെവ്യതിരിക്തതതിരിച്ചറിയുക. (Understand) |



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| | | CO3:ലിംഗസമത്വം,സ്ത്രീശക്തീകരണം, പരിസ്ഥിതിതുടങ്ങിയആശയങ്ങളിൽ അറിവ്നിർമ്മിക്കുക. (Apply)<br>CO4:കഥകളിൽ സമകാലികസാമൂഹികസാഹചര്യങ്ങൾ എപ്രകാരംആവിഷ്കരിച്ചിരിക്കുന്നു എന്ന്സമർത്ഥിക്കുക.(Apply)<br>CO5:കഥ ,നോവൽ തുടങ്ങിയസാഹിത്യരൂപങ്ങളിൽ പ്രകടമാകുന്നസുഖ-ദു:ഖസമ്മിശ്രമായജീവിതാവാസ്ഥകൾ വിവരിക്കുക(Apply) |
| EC1CRT01 | **PERSPECTIVES AND METHODOLOGY OF ECONOMICS** | **CO1: Discuss the broad contours of Social Sciences, specifically Economics and its methodologies. (Understand)**<br>**CO2:Review about the different schools of economic thought.(Understand)**<br>**CO3: Analyse the various aspects of social science research and its applications (Analyse)** |



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| | | **CO4: Apply the tools of Economics in solving various issues in day to daylife (Apply)**<br>**CO5: Correlate methodology and tools of Economics with social science(Analyse)** |
| **EC1CMT01** | **MATHEMATICS FOR ECONOMIC ANALYSIS-1** | **CO1: Describe the mathematical concepts and methods like matrices, differential and integral calculus to enhance knowledge in Economics (Understand)**<br>**CO2: Develop problem solving skills and aptitude in finding solutions to real life problems (Apply)**<br>**CO3: Apply mathematical concepts such as matrices, integration,differentiation, maxima and minima in solving basic economic problems and further studies in Economics (Apply)**<br>**CO4: Differentiate different types of matrices and different rules of differentiation (Analyse)**<br>**CO5: Estimate LPP by using graphical and simplex method and evaluate input output** |

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| | | **analysis along with its applications in economics(Evaluate)** |
| **SEMESTER2** | | |
| **EN2CC03** | **ISSUES THAT MATTER** | **CO1: Identify the major issues of contemporary significance (understand level)**<br>**CO2: Evaluate the issues raised positively and rationally (apply level)**<br>**CO3: Infer the values imparted through the literary works concerned (apply level)**<br>**CO4: Transform them as conscious and concerned human beings (understand level)** |
| **EN2CC04** | **SAVORING THE CLASSICS** | **CO1: Identify the Classics from various lands with a focus on their varied aesthetic dimensions (remember level)**<br>**CO2: Understand the features and factors that go into the making of a Classic (understand level)**<br>**CO3: Develop an understanding as to how Classic carries the idea of "Time- testedness" and depicts universal human conditions (apply level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO4: Enable the learner to reread and reinterpret the classics (analyze level)** |
| **ML2CCT02** | കവിത | CO1: മലയാള കവിതയുടെ ചരിത്രം , ഭാവുകത്വപരിണാമം എന്നിവ വിവരിക്കുക (Understand)<br><br>CO2: കാല്പനിക ,ആധുനിക ,ഉത്തരാധുനിക പ്രസ്ഥാനങ്ങൾ മലയാള കവിതയിൽ വരുത്തിയ മാറ്റങ്ങൾ തിരിച്ചറിയുക(Understand)<br><br>CO3: ലിംഗസമത്വം,സ്ത്രീ സ്വാതന്ത്ര്യം തുടങ്ങിയ ആശയങ്ങളിൽ അറിവ് വികസിപ്പിക്കുക (Apply)<br><br>CO5: കാലഘട്ടത്തിന്റെ പൊതുപ്രവണതകൾ എഴുത്തിൽ പ്രകടമാകുന്നത് വിവരിക്കുക (Apply) |
| **HN 2CCT02** | **SHORT STORIES & NOVEL** | **CO1- Define Hindi short story and novel.( 1 Remembering)**<br><br>**CO2- Quote the eminent Hindi short Story and Novel writers.( 1 Remembering)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO 3- Review the content of the stories and novel discussed in the syllabus.(II understanding)**<br>**CO4- Sketch the peculiarities of characters in the stories and novel.( III Applying)**<br>**CO5- Explain the issues and moral values discussed in the text .( III Applying)** |
| **EC2CRT02** | **MICRO ECONOMIC ANALYSIS I** | **CO1: Examine the fundamentals of micro economics and micro economic theory. (Understand)**<br>**CO2: Develop the skill to solve basic microeconomic problems and to identify macroeconomic policy goals (Apply)**<br>**CO3: Analyse the basic forces that determine equilibrium in a market economy (Analyse)**<br>**CO4:Establish a framework for learning about consumer behaviour and analyzing consumer decisions (Apply)**<br>**CO5: Review about the different aspects of production and cost (Understand)** |
| **EC1CMT02** | **MATHEMATICS FOR ECONOMIC ANALYSIS-2** | **CO1: Recall the concepts of demand, supply, production and cost ( Remember)** |

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| | | **CO2: Develop the skill in applying mathematical tools in micro economic theory (Apply)**<br>**CO3: Solve the problems in game theory by using mathematical techniques (Apply)**<br>**CO4: Compare different market structure and its features (Analyse)**<br>**CO5: Judge the economic theory through the use of elementary mathematics (Evaluate)** |
| **SEMESTER III** | | |
| **EN3CC05** | **LITERATURE AND/AS IDENTITY** | **1: Recall the issues of refugee and cross border cases (Remember level)**<br>**CO2: Locate different works they have come across under specific categories of writing (Remember level)**<br>**CO3: Identify the seriousness of the issues encountered by people of different ethnicities apart from race and gender (Remember level)**<br>**CO4: Explain the extent of the sufferings which people have been through in their lifetime (Understand level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **ML3CCT03** | ദൃശ്യകലാസാഹിത്യം | **CO1-** കേരളത്തിന്റെ ദൃശ്യകലാപാരമ്പര്യത്തിൽ സംസ്കൃത നാടകങ്ങൾക്കുള്ള പങ്ക് വിവരിക്കുക **(Understand)**<br><br>**CO2-** ആട്ടക്കഥ, തുള്ളൽ തുടങ്ങി ജനകീയമായിരുന്ന ദൃശ്യകലകളുടെ സവിശേഷതകൾ തിരിച്ചറിയുക **(Understand)**<br><br>**CO3-** മലയാള നാടക ചരിത്രത്തിൽ സി ജെ തോമസ്സിനുള്ള സവിശേഷ സ്ഥാനം വിവരിക്കുക **(Understand)**<br><br>**CO4-** കാലഘട്ടത്തിന്റെ കലയെന്ന നിലയിൽ സിനിമയെന്ന മാധ്യമത്തെ വിവരിക്കുക **(Apply)**<br><br>**CO5-**സിനിമാമേഖലയിൽ സംഭവിച്ചു കൊണ്ടിരിക്കുന്ന കാലഘട്ടാനുസൃതമായ മാറ്റങ്ങൾ നിരീക്ഷിക്കുക **(Analyze)** |
| **HN 3CCT03** | **POETRY, GRAMMAR & TRANSLATION** | **CO1- Quote eminent Hindi poets (I Remembering)**<br><br>**CO2- Explain the aspects and issues discussed in the poem.(II Understand)** |



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| | | **CO3- Explain different parts of Hindi grammar like parts of speech, (Noun, pronoun , verb**<br>**etc..) verb and its different forms ( tense- present, past and future) etc….**<br>**(II understanding)**<br>**CO4- Develop the skill to use a good and correct language. (VI Creating)**<br>**CO5- Translate from English to Hindi and vice versa. (II Understanding)** |
| **EC3CRT03** | **MICRO ECONOMIC ANALYSIS II** | **CO1: Describe the nature, concepts and scope of welfare economics and problems ofmeasuring social welfare (Understand)**<br>**CO2: Develop the skills to understand economic concepts and use these concepts to analyze specific questions (Apply)**<br>**CO3: Analyse different types of market structures and the behaviour of firms under different market forms (Analyse)**<br>**CO4: Recognize the consumer and firms' behavior and calculate the resulting changes inproducer or consumer surplus (create)**<br>**CO5: Apply various economic tools to analyze economic policies (Apply)** |

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| EC3CRT04 | ECONOMICS OF GROWTH & DEVELOPMENT | CO1: Explain the basic concepts and issues of growth and development (Understand)<br><br>CO2: Develop the insightful about the modern approaches to development presented by DGoulet and Amartya Sen (Apply)<br><br>CO3: Analyse income and non income indices of development (Analyse)<br><br>CO4: Assess the importance of human resources and its development (Evaluate)<br><br>CO5: Examine various approaches and theories of development (Apply) |
| PS3CMT01 | AN INTRODUCTION TO POLITICAL SCIENCE | CO1. Develop critical ideas about different forms of government. (Apply)<br><br>CO2. Compare different approaches to the study of Political Science. (Understanding)<br><br>CO3. Develop critical ideas about major political ideologies. (Apply)<br><br>CO4. Identify democratic principles and its values. (Understanding) |



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| | | **CO5. Explain the essential concepts in Political Science. (Understanding)** |
| **SEMESTER IV** | | |
| **EN4CC06** | **ILLUMINATIONS** | **CO1: To examine the world personalities and their life sketches (apply level)**<br>**CO2: To develop moral perceptions in students (apply level)**<br>**CO3: To simulate the students towards various societal issues (apply level)**<br>**CO4: To facilitate the students to don the mantle of positivity (create level)**<br>**CO5: To explain their affinity towards literature by making them imbibe the aesthetic aspects in stories (analyze level)** |
| **ML4CCT04** | മലയാളഗദ്യരചനകൾ | CO1-മലയാള ഗദ്യത്തിന്റെ ശക്തിയും സാധ്യതയും തിരിച്ചറിയുക<br>**(Understand)**<br>CO2-കാരൂർ നീലകണ്ഠപിള്ളയെന്ന എഴുത്തുകാരന്റെ പ്രധാനകൃതികൾ<br>,കഥാസന്ദർഭങ്ങൾ എന്നിവ വിവരിക്കുക **(Understand)** |



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| | | CO3- മലയാളത്തിലെ പ്രധാന ഓർമ്മക്കുറിപ്പുകൾ/ആത്മകഥകൾ എന്നിവ തിരിച്ചറിയുക<br>(Understand)<br>CO4- സാഹിത്യകൃതിയെ വിമർശനാത്മകമായി വിവരിക്കുക (Apply)<br>CO5- ലേഖന പരിചയത്തിലൂടെ പരിസ്ഥിസംരക്ഷണം പോലുള്ള സാമൂഹിക വിഷയങ്ങൾ വിവരിക്കുക (Apply) |
| **HN 4CCT04** | **DRAMA & LONG POEM** | **CO1- Define Hindi Drama & Long poem (I Remembering)**<br>**CO2- Quote the eminent Hindi Long poets and their works discussed in the syllabus (I Remembering)**<br>**CO3- Explain the content, aspects and issues discussed. (III Applying)**<br>**CO4- Sketch the peculiarities of characters (III Applying)**<br>**CO5 Deduce social & moral value based point of view.( IV Analysing)** |
| **EC4CRT05** | **MACROECONOMICS I** | **CO1: Describe the basic concepts of macroeconomics (Understand)**<br>**CO2: Compare classical and Keynesian school of economics (Analyse)** |



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| | | **CO3: Compare different methods of measurement of national income (Apply)**<br>**CO4: Identify the prominent classical economists and their contributions to economics (understand)**<br>**CO5: Recognize the orthodox Keynesian models and its significance (Remember)** |
| **EC4CRT06** | **PUBLIC ECONOMICS** | **CO1: Examine the different State activities and its significance in the economy (Understand)**<br>**CO2: Analyzes the impact of public policy on the allocation of resources and the distribution of income in the economy (Analyse)**<br>**CO3: Analyse the various principles and measures to develop maximum social advantage (Analyse)**<br>**CO4: Describe different aspects and concepts in public revenue and public expenditure (understand)**<br>**CO5: Assess the role of Finance Commission and Panchayati Raj institutions in adopting and implementing proper transfer of resources (Evaluate)** |
| **PS4CMT05** | **INDIAN CONSTITUTION:** | **CO1. Interpret our Constitutional design and framework. (Understanding)** |

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| | **SOCIAL ISSUES IN INDIA** | **CO2. Develop critical ideas about the peculiar nature of Indian federalism. (Apply)**<br>**CO3. Distinguish Panchayat Raj Institutions and understand decentralization principles. (Understanding)**<br>**CO4. Explain the structure and functioning of the state mechanism. (Understanding)**<br>**CO5. Analyse the major social issues in India. (Analyse)** |
| **SEMESTER V** | | |
| **EC5CRT07** | **QUANTITATIVE TECHNIQUES** | **CO1: Recall basic Mathematics to enable the study of economic theory (Remember)**<br>**CO2: Explain mathematical progression (Understand)**<br>**CO3: Describe the terms in set theory (Understand)**<br>**CO4: Apply differentiation in general and in economic situations (Apply)**<br>**CO5: Operate matrices (Apply)**<br>**CO6: Explain probability (Apply)** |
| **EC5CRT08** | **MACRO ECONOMICS II** | **CO1: Explain the concepts and issues like inflation and unemployment (Understand)** |



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| | | **CO2: Examine various theories of consumption and investment (Apply)**<br>**CO3: Describe the concept of money and theories related to money supply (Understand)**<br>**CO4: Analyzes the impact of monetary and fiscal policies in the economy (Analyse)**<br>**CO5: Stating main ideas of post Keynesian schools of macroeconomic thoughts(Understand)** |
| **EC5CRT09** | **ENVIRONMENTAL ECONOMICS** | **CO1: Analyse the importance of environmental studies and environmental economics and the need for sustainable development (Analyse)**<br>**CO2: Explain human rights, International Human Rights Documents And the role of UN in protecting human rights(Apply)**<br>**CO3: Examine the problems of pollution, loss of forest, solid waste disposal, degradation of environment, global warming, the depletion of ozone layer and loss of biodiversity(Apply)**<br>**CO4: Analyzes the major framework and criteria for environmental analysis (Analyse)**<br>**CO5: Create awareness about environmental hazards and formulate solutions to such problems (Create)** |

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| **C5CRT10** | **INTRODUCTORY ECONOMETRICS** | **CO1: Explain the basic concepts and models in econometrics (Understand)**<br>**CO2: Examine different methods of econometrics like PRF and SRF (Apply)**<br>**CO3: Test the validity and reliability of economic theories through estimating the parameters of econometric model (Analyse)**<br>**CO4: Analyzes the concept of hypothesis and the relevance of hypothesis testing (Analyse)**<br>**CO5: Solve basic economic issues in the economy by using econometric methods (Apply)** |
| **EC5OPT01** | **Open Courses**<br>**FUNDAMENTALS OF ECONOMICS** | **CO1: Explain the basic ideas and concepts in Economics (Understand)**<br>**CO2: Differentiate between public revenue and public expenditure, negotiable and nonnegotiable instruments (Analyse)**<br>**CO3: Analyzes the importance of monetary and fiscal policies in correcting economic fluctuations (Analyse)**<br>**CO4: Describe role of NITI Aayog and Finance Commission in the allocation of resources (Understand)**<br>**CO5: Assess the significance of financial institutions like RBI and SEBI, international** |



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| | | **organizations like IMF, World Bank and WTO (Evaluate)** |
| **SEMESTER VI** | | |
| **EC6CRT11** | **QUANTITATIVE METHODS** | **CO1: Describe the basic terms and concepts of Statistical investigation (Understand)**<br>**CO2: Describe different statistical measures of central tendency, dispersion (Understand)**<br>**CO3: Construct different statistical measures of central tendency, dispersion (Apply)**<br>**CO4: Describe the statistical concepts indices, time series anlaysis, correlation and regression (Understand)**<br>**CO5: Analyse real data using the statistical concepts indices and Time series analysis (Analyse)**<br>**CO6: Assess information provided by a data using measures of correlation and regression (Evaluate)** |
| **EC6CRT12** | **INTERNATIONAL ECONOMICS** | **CO1: Differentiate between internal and international trade(Analyse)**<br>**CO2: Analyse the working of various international organizations (Analyse)** |



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| | | **CO3: Examine the balance of payments and the measure to correct BoP disequilibrium(Apply)**<br>**CO4: Discuss the major concepts in international economics (Understand)**<br>**CO5: Analyse the foreign exchange markets in different countries and its functioning (Analyse)** |
| **EC6CRT13** | **MONEY & FINANCIAL MARKETS** | **CO1: Describe the major aspects of financial market and banking system in the country (Understand)**<br>**CO2: Assess the importance of financial market institutions, regulators and instruments gives developmental and stabilizing services for the entire economy (Evaluate)**<br>**CO4: Analyse the significance of money market and capital market in the development of a country (Analyse)**<br>**CO4: Analyse the working of various financial market segments as well as the functioning ofmajor regulators (Analyse)**<br>**CO5: Examine the instruments of monetary policy and its relevance (Apply)** |



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| **EC6CRT14** | **INDIAN ECONOMY** | **CO1; Discuss the major economic reforms since 1991 with special reference to external sector of Indian economy (Understand)**<br>**CO2; Discover the various characteristics of the population in India with respect to size, occupation, geography and so on (Understand)**<br>**CO3; Collect the data showing the major reforms in agriculture, industry and service sector (Apply)**<br>**CO4; Analyse the objectives of economic planning in India with special focus on the concept of development (Analyse)**<br>**CO5; Examine the Kerala model of development and various other aspects of Kerala economy including migration, planning and unemployment (Apply)** |
| **EC6CBT02** | **BUSINESS ECONOMICS** | **CO1; Examine how an organisation achieves its aims and objectives most efficiently by applying economic theory and decision-making tools (Apply)**<br>**CO2; Illustrate demand and its determinants in numerical terms as well as forecast the demand (Apply)** |

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| | | **CO3; Classify the cost concepts and infer empirical studies for production function (Analyse)**<br>**CO4;Explain various pricing methods and profit theories of businesses with multitude of products (Understand)**<br>**CO5; Infer the meaning and needs of capital as well as the methods of investment criteria (Understand)** |
| **EC6PRT01** | **Project/Dissertation** | **CO1: Understand systematic investigation and study of materials and sources in order to establish facts and reach new conclusions based on topics studied (Understand)**<br>**CO2: Apply the theoretical knowledge in an empirical setting or in a working environment (Apply)**<br>**CO3: Accentuate upon the process of deriving meaning from experience through questioning what is being experienced or observed (Evaluate).**<br>**CO4: Application of Economic models to solve the problem of study (Apply).** |

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| **PROGRAMME NAME B.Sc.ZOOLOGY**<br>**PROGRAMME CODE: DMCK-UG-ZOO-M1-AD** | | |
| **PROGRAMME SPECIFIC OUTCOMES** | | |
| **PSO1** | **Classify different levels of biological diversity (Understand)** | |
| **PSO2** | **Explain how organisms function at the level of the gene, genome, cell, tissue, organ and organ-system.(Analyse)** | |
| **PSO3** | **Apply the knowledge acquired for practical/commercial applications (Apply)** | |
| **PSO4** | **Discover research problems and apply scientific methods to solve them.(Apply)** | |
| **PSO5** | **Articulate ideas cogently using acquired language skills (Apply)** | |
| **PSO6** | **Evaluate contemporary human rights and ecological issues (Analyse)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER1** | | |
| **EN1CC01** | **FINE-TUNE YOUR ENGLISH** | **CO1: Describe the basic rules of grammar in English for effective communication (understand level)**<br>**CO2: Develop language learning skills like Listening, Speaking, Reading and Writing (apply level)** |



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| | | **CO3: Develop the compositional skills and conversational skills in English in academic, professional and social contexts (apply level)**<br>**CO4: Recognize the common and uncommon errors committed by the speakers in daily English conversation (remember level)**<br>**CO5:Distinguish between the tense forms of verbs in English and identify the correct usage of tenses in sentences (understand level)**<br>**CO6: Explain about the enrichment of English vocabulary through different word formation processes (apply level)** |
| **EN1CC02** | **PEARLS FROM THE DEEP** | **CO1:Distinguish the features of specific literary genres (understand level)**<br>**CO2: Identify the prominent writers in Literature, their seminal works and their style of writing (understand level)**<br>**CO3: Explain the major themes and critical ideas that appear in the literary texts and their impact on culture and society (apply level)**<br>**CO4: Analyze different forms of literature across a wide range of literary age and explain the the socio-political contexts of literary works (analyze level)** |

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| **HN 1 CCT01** | **PROSE & ONE ACT PLAYS** | **CO1: Explain the content, aspects and issues discussed in the prose &One Act Plays.(Understand)**<br>**CO2 : Quote the eminent Hindi Prose & One Act play writers and their works mentioned in the syllabus.( Remember)**<br>**CO3: Evaluate a writer and his/her literary works.(Analyse)**<br>**CO4:Deduce a social and moral value based point of views.( Analyse)**<br>**CO5: Develop the skill to use good and correct Language.( Apply)** |
| **ML1CCT01** | കഥാസാഹിത്യം | CO1:മലയാളകഥയുടെയും നോവലിന്റെയുംചരിത്രം, ഭാവുകത്വപരിണാമംഎന്നിവവിവരിക്കുക. (Understand)<br>CO2:കഥ,നോവൽ എന്നീസാഹിത്യരൂപങ്ങളുടെവ്യതിരിക്തതതിരിച്ചറിയുക. (Understand)<br>CO3:ലിംഗസമത്വം,സ്ത്രീശക്തീകരണം, പരിസ്ഥിതിതുടങ്ങിയആശയങ്ങളിൽ അറിവ്നിർമ്മിക്കുക. (Apply) |



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| | | CO4:കഥകളിൽ സമകാലികസാമൂഹികസാഹചര്യങ്ങൾ എപ്രകാരം ആവിഷ്കരിച്ചിരിക്കുന്നു എന്ന്സമർത്ഥിക്കുക.(Apply)<br>CO5:കഥ ,നോവൽ തുടങ്ങിയസാഹിത്യരൂപങ്ങളിൽ പ്രകടമാകുന്നസുഖ-ദു:ഖസമ്മിശ്രമായജീവിതാവാസ്ഥകൾ വിവരിക്കുക(Apply) |
| **ZY1CRT0I** | **GENERAL PERSPECTIVES IN SCIENCE & PROTISTAN DIVERSITY (Theory)** | **CO1: Summarize the steps of the scientific method, compare inductive reasoning with deductive reasoning and describe the goals of basic and applied science (Understand)**<br>**CO2: Explain the principles of general taxonomy and nomenclature rules(Understand)**<br>**CO3: Determine various levels of biological diversity through the systematic classification (Apply)**<br>**CO4: Determine the measures to prevent diseases spread by pathogenic protists .(Apply)** |
| **BO1CMT01** | **CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY** | **CO1: Compare the different plant groups from cryptogams to gymnosperms**<br>**(Understand)** |



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| | | **CO2: Differentiate the structure and reproduction of cryptogams and gymnosperms.**<br>**(Understand)**<br>**CO3: Illustrate the common plant diseases based on its symptoms (Apply)**<br>**CO4: Administer the concept of economic importance of the plants studied. (Apply)** |
| **CH1CMT01** | **BASIC THEORETICAL AND ANALYTICAL CHEMISTRY** | **CO1: Define the principle underlying various analytical methods in chemistry(Remember)**<br>**CO2: Explain principle, types and applications of chromatography(Understand)**<br>**CO3: Explain the fundamental concepts in chemistry(Understand)**<br>**CO4: Develop theoretical knowledge on chemical bonding (Apply)** |
| **SEMESTER2** | | |
| **EN2CC03** | **ISSUES THAT MATTER** | **CO1: Identify the major issues of contemporary significance (understand level)**<br>**CO2: Evaluate the issues raised positively and rationally (apply level)**<br>**CO3: Infer the values imparted through the literary works concerned (apply level)**<br>**CO4: Transform them as conscious and concerned human beings (understand level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **EN2CC04** | **SAVORING THE CLASSICS** | **CO1: Identify the Classics from various lands with a focus on their varied aesthetic dimensions (remember level)**<br>**CO2: Understand the features and factors that go into the making of a Classic (understand level)**<br>**CO3: Develop an understanding as to how Classic carries the idea of "Time- testedness" and depicts universal human conditions (apply level)**<br>**CO4: Enable the learner to reread and reinterpret the classics (analyze level)** |
| **HN 2CCT02** | **SHORT STORIES & NOVEL** | **CO1- Define Hindi short story and novel.( 1 Remembering)**<br>**CO2- Quote the eminent Hindi short Story and Novel writers.( 1 Remembering)**<br>**CO 3- Review the content of the stories and novel discussed in the syllabus.(II understanding)**<br>**CO4- Sketch the peculiarities of characters in the stories and novel.( III Applying)**<br>**CO5- Explain the issues and moral values discussed in the text .( III Applying)** |
| **ML2CCT02** | കവിത | CO1: മലയാള കവിതയുടെ ചരിത്രം , ഭാവുകത്വപരിണാമം എന്നിവ |

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| | | വിവരിക്കുക (Understand)<br>CO2: കാല്പനിക ,ആധുനിക ,ഉത്തരാധുനിക പ്രസ്ഥാനങ്ങൾ മലയാള കവിതയിൽ വരുത്തിയ മാറ്റങ്ങൾ തിരിച്ചറിയുക(Understand)<br>CO3: ലിംഗസമത്വം,സ്ത്രീ സ്വാതന്ത്ര്യം തുടങ്ങിയ ആശയങ്ങളിൽ അറിവ് വികസിപ്പിക്കുക (Apply)<br>CO5: കാലഘട്ടത്തിന്റെ പൊതുപ്രവണതകൾ എഴുത്തിൽ പ്രകടമാകുന്നത് വിവരിക്കുക (Apply) |
| **ZY2CRT02** | **ANIMAL DIVERSITY - NON CHORDATA** | **CO1: Define taxonomy and recognize the importance of a standardized taxonomic system to the scientific community; (Remember)**<br>**CO2: Interpret relationships, including predation, parasitism, commensalism, mutualism, and competition, among organisms; (Analyse)**<br>**CO3: Understand Scientific classification of Invertebrate fauna (Remember)**<br>**CO4: To understand principles of general taxonomy and nomenclature (Understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **CH2CMT02** | **BASIC ORGANIC CHEMISTRY** | **CO1: Describe the fundamental aspects in Organic Chemistry (understand)**<br>**CO2: Discuss the stereochemistry of organic compounds and its implications(Understand)**<br>**CO3:Explain the various electron displacement effects, reaction intermediates etc.(Understand)**<br>**CO4:Classify the various types of polymers on the basis of their origin.(Analyze)** |
| **BO2CMT02** | **Plant Physiology** | **CO1;Describe the various types of plant water relations**<br>**CO2; Discuss the biological roles and deficiency symptoms of different mineral nutrients.**<br>**CO3; Analyze the various physiological processes in plant life.**<br>**CO4;Develop experimental skills and techniques in plant physiology** |
| **ZY2CRP01** | **GENERAL PERSPECTIVES IN SCIENCE, PROTISTAN DIVERSITY ANIMAL DIVERSITY - NON CHORDATA** | **CO1: To give good laboratory practices to students and train them about proper handling of lab instruments (understand)**<br>**CO2: To understand biodiversity and identify organisms by their external and internal characteristics(apply)** |
| **CH2CMP01** | **VOLUMETRIC ANALYSIS** | **CO1: Describe the fundamental concepts in volumetric analysis(Remember)**<br>**CO2: Describe the use of various types of indicators (Understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO3:Explain the various types of volumetric techniques(Understand)**<br><br>**CO4:Analyze volumetrically the mass of the given substance (Analyze)** |
| **BO2CMP01** | **Cryptogams, gymnosperms and plant pathology;Plan t Physiology** | **CO1Categorise the diversity of plants with respect to algae,<br>fungi, bryophytes, pteridophytes gymnosperms and<br>angiosperms. (Analyse)<br>CO2 Differentiate the common plant diseases. (Analyse)<br>CO3Assess the process of photosynthesis by conducting<br>different physiological experiments. (Evaluate)** |
| **SEMESTER III** | | |
| **EN3CC05** | **LITERATURE AND/AS IDENTITY** | **CO1: Recall the issues of refugee and cross border cases (Remember level)**<br><br>**CO2: Locate different works they have come across under specific categories of writing (Remember level)**<br><br>**CO3: Identify the seriousness of the issues encountered by people of different ethnicities apart from race and gender (Remember level)**<br><br>**CO4: Explain the extent of the sufferings which people have been through in their lifetime (Understand level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **HN 3CCT03** | **POETRY, GRAMMAR & TRANSLATION** | **CO1- Quote eminent Hindi poets (I Remembering)**<br>**CO2- Explain the aspects and issues discussed in the poem.(II Understand)**<br>**CO3- Explain different parts of Hindi grammar like parts of speech, (Noun, pronoun , verb.etc..) verb and its different forms ( tense- present, past and future) etc….**<br>**(II understanding)**<br>**CO4- Develop the skill to use a good and correct language. (VI Creating)**<br>**CO5- Translate from English to Hindi and vice versa. (II Understanding)** |
| **ML3CCT03** | ദൃശ്യകലാസാഹിത്യം | CO1- കേരളത്തിന്റെ ദൃശ്യകലാപാരമ്പര്യത്തിൽ സംസ്കൃത<br>നാടകങ്ങൾക്കുള്ള പങ്ക് വിവരിക്കുക (Understand)<br>CO2- ആട്ടക്കഥ, തുള്ളൽ തുടങ്ങി ജനകീയമായിരുന്ന ദൃശ്യകലകളുടെ<br>സവിശേഷതകൾ തിരിച്ചറിയുക (Understand)<br>CO3- മലയാള നാടക ചരിത്രത്തിൽ സി ജെ തോമസ്സിനുള്ള സവിശേഷ<br>സ്ഥാനം വിവരിക്കുക (Understand)<br>CO4- കാലഘട്ടത്തിന്റെ കലയെന്ന നിലയിൽ സിനിമയെന്ന മാധ്യമത്തെ |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | വിവരിക്കുക (Apply)<br>CO5-സിനിമാമേഖലയിൽ സംഭവിച്ചു കൊണ്ടിരിക്കുന്ന<br>കാലഘട്ടാനുസൃതമായ മാറ്റങ്ങൾ നിരീക്ഷിക്കുക(Analyze) |
| **ZY3CRT03** | **ANIMAL DIVERSITY – CHORDATA** | **CO1.Describe the diversity in form, structure and habits of vertebrates (remebering)**<br>**CO2. Explain general characteristics of different classes of vertebrates(understanding)**<br>**CO3. Classify phylum Protochordates to Mammalia (analysing)** |
| **CH3CMT04** | **INORGANIC AND ORGANIC CHEMISTRY** | **CO1: Describe the fundamental concepts in nuclear chemistry (remember)**<br>**CO2: Recognize the various types of food additives (remember)**<br>**CO3: Explain the different plant nutrients, their functions and deficiency symptoms(Understand)**<br>**CO4: Apply the different types of nuclear reactions in various paths of life (Apply)** |
| **BO3CMT03** | **Angiosperm Taxonomy & Economic Botany** | **CO1; Trace the systems of classification of angiosperms, nomenclature and interdisciplinary approaches.**<br>**CO2;Describe plant morphology terminologies**<br>**CO3; Distinguish the major angiosperm families by identifying their diagnostic features and economic importance.** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO4;Compare the medicinal importance of selected angiosperms** |
| **SEMESTER IV** | | |
| **EN4CC06** | **ILLUMINATIONS** | **CO1: To examine the world personalities and their life sketches (apply level)**<br>**CO2: To develop moral perceptions in students (apply level)**<br>**CO3: To simulate the students towards various societal issues (apply level)**<br>**CO4: To facilitate the students to don the mantle of positivity (create level)**<br>**CO5: To explain their affinity towards literature by making them imbibe the aesthetic aspects in stories (analyze level)** |
| **HN 4CCT04** | **DRAMA & LONG POEM** | **CO1- Define Hindi Drama & Long poem (I Remembering)**<br>**CO2- Quote the eminent Hindi Long poets and their works discussed in the syllabus (I Remembering)**<br>**CO3- Explain the content, aspects and issues discussed. (III Applying)**<br>**CO4- Sketch the peculiarities of characters (III Applying)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO5 Deduce social & moral value based point of view.( IV Analysing)** |
| **ML4CCT04** | മലയാളഗദ്യരചനകൾ | CO1-മലയാള ഗദ്യത്തിന്റെ ശക്തിയും സാധ്യതയും തിരിച്ചറിയുക **(Understand)**<br>CO2-കാരൂർ നീലകണ്ഠപിള്ളയെന്ന എഴുത്തുകാരന്റെ പ്രധാനകൃതികൾ<br>,കഥാസന്ദർഭങ്ങൾ എന്നിവ വിവരിക്കുക **(Understand)**<br>CO3- മലയാളത്തിലെ പ്രധാന ഓർമ്മക്കുറിപ്പുകൾ/ആത്മകഥകൾ എന്നിവ തിരിച്ചറിയുക.<br>**(Understand)**<br>CO4- സാഹിത്യകൃതിയെ വിമർശനാത്മകമായി വിവരിക്കുക **(Apply)**<br>CO5- ലേഖന പരിചയത്തിലൂടെ പരിസ്ഥിസംരക്ഷണം പോലുള്ള സാമൂഹിക വിഷയങ്ങൾ<br>വിവരിക്കുക**(Apply)** |

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| **ZY4CRT04** | **RESEARCH METHODOLOGY, BIOPHYSICS AND BIOSTATISTICS** | **CO1. Differentiate between the Quantitative and Qualitative Research and understand different types of Research Design (understanding)**<br>**CO2. Describing various types of Sampling techniques (remembering)**<br>**CO3. Identify various tools & techniques used in biological systems and gives them insight about their use in research (remebering)**<br>**CO4. Apply scientific methods in day to day life (applying)** |
| **BO4CMT04** | **Anatomy & Applied Botany** | **CO1;Compare the primary and secondary structures and structural anomalies in plants**<br>**CO2; Differentiate the Morphological and Anatomical adaptations of plants growing in various habitats.**<br>**CO3; Assess the various methods of plant propagation and its importance in human welfare.**<br>**CO4;Develop skills to prepare plant specimens for microscopic studies** |
| **CH4CMT06** | **ADVANCED BIO-ORGANIC CHEMISTRY** | **CO1: Describe the synthesis properties and structure of amino acids and proteins (remember)**<br>**CO2: Distinguish the natural products available (understand)**<br>**CO3: Explain the components, structure and biological functions of DNA and RNA(Understand)**<br>**CO4: Describe the structure and properties of carbohydrates(Understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **ZY4CRP02** | **ANIMAL DIVERSITY – CHORDATA, RESEARCH METHODOLOGY,BIOPHYSICS ; BIOSTATISTICS** | **CO1: To give good laboratory practices to students and train them about proper handling of lab instruments. (understand)**<br>**CO2: To understand biodiversity and identify organisms by their external and internal characteristics (remember)**<br>**CO3 : Gain problem solving skills (apply)** |
| **CH4CMP03** | **ORGANIC CHEMISTRY PRACTICALS** | **CO1:Explain the reactions of the functional groups(Understand)**<br>**CO2:Explain how to prepare solid derivatives of organic compounds(Understand)**<br>**CO3: Identify organic compounds by determining physical constants – melting and boiling points.**<br>**CO4:Analyze qualitatively organic compounds(Analyze)** |
| **BO4CMP02** | **Angiosperm Taxonomy Economic Botany And Anatomy & Applied Botany** | **CO1 Assess a given plant in scientific terms. (Analyse)**<br>**CO2 Predict a given plant into an angiosperm family.(Evaluate)**<br>**CO3 Distinguish the primary and secondary anatomical specimens of stem and root of plants. (Evaluate)** |



DEVA MATHA COLLEGE KURAVILANGAD

| SEMESTER V | | |
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| **ZY5CRT05** | **ENVIRONMENTAL BIOLOGY AND HUMAN RIGHTS** | **CO1.Describe the basic theories and principles of ecology (understanding)**<br>**CO2. Examine current environmental issues based on ecological principles(applying)**<br>**CO3. Generalise human influence on environment(understanding)**<br>**CO4. Develop positive attitude towards Biodiversity conservation (applying)**<br>**CO5. Enable the learner to construct strategies for management and conservation of environment for sustaining life on earth (applying)**<br>**CO6. Identify the real sense of Human rights – its concepts & manifestations** |
| **ZY5CRT06** | **CELL BIOLOGY AND GENETICS** | **CO1. Identify what life is and how it functions at cellular level (Remembering)**<br>**CO2. Illustrate the cellular organization and functional biology nucleic acids (understanding)**<br>**CO3. Recall Mendelian and non mendelian inheritance(Remembering)**<br>**CO4. Explain concept behind genetic disorder, gene mutations- various causes associated with inborn errors of metabolism (applying)** |
| **ZY5CRT07** | **EVOLUTION, ETHOLOGY & ZOOGEOGRAPHY** | **CO1. Recall theories of Evolution (Remebering)**<br>**CO2. Discuss about eras and evolution of species (understanding)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO3. Chart the distribution of fauna according to their realms (applying)**<br>**CO4. Explain animal behaviour and response of animals to different instincts (understanding)** |
| **ZY5CRT08** | **HUMAN PHYSIOLOGY, BIOCHEMISTRY, AND ENDOCRINOLOGY** | **CO1. Examine the mechanisms that work to keep the human body alive and functioning (remembering)**<br>**CO2.Describe the function of various systems (understanding)**<br>**CO3.Apply the knowledge to lead a healthy life (applying)**<br>**CO4.Generalize the importance of Biomolecules (understanding)**<br>**CO5.chart various biochemical pathways(analyzing)**<br>**CO6. Develop interest in the debates and discussions associated with Lifestyle Diseases(creating)** |
| **ZY5OPT02** | **OPEN COURSE (FOR OTHER STREAMS; PUBLIC HEALTH AND NUTRITION** | **CO1. Describe the real sense of health. (Understand)**<br>**CO2. Associate the role of a balanced diet in maintaining health.(Apply)**<br>**CO3. Relate practice yoga and meditation into day-to-day life.(Analyze)**<br>**CO4: Study how and when to administer first aid.(Understand)**<br>**CO5: Learn how vector-borne diseases are transmitted (Understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

| SEMESTER VI | | |
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| **ZY6CRT09** | **DEVELOPMENTAL BIOLOGY** | **CO1.Memorize the various stages involved in the developing embryo(remembering)**<br>**CO2. Distinguish the initial developmental stages involved in Amphioxus, frog and chick(understanding)**<br>**CO3. Explain various Prenatal Diagnosis techniques (understanding)**<br>**CO4.Familiarise with various Techniques and tools of Embryology (understanding)**<br>**CO5. Redress problems associated with health and sex thereby promoting fitness and wellbeing(applying)** |
| **ZY6CRT10** | **MICROBIOLOGY AND IMMUNOLOGY** | **CO1. Define the microbial world, its structure and function(remembering)**<br>**CO2. Describe the applied aspects of microbiology(understanding)**<br>**CO3. Explain the tools and techniques used in Microbiology and pathogenic Microbes(understanding)**<br>**CO4. Observe about importance of immune system and allows the student to create insight as how to improve their immune system and good health(understanding)**<br>**CO5 Record about types of immunity, antigens-antibodies and their properties(applying)** |

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| **ZY6CRT11** | **BIOTECHNOLOGY, BIOINFORMATICS AND MOLECULAR BIOLOGY** | **CO1.Define gene manipulation, gene expression, etc which prepares them for further studies in the area of genetic engineering(remembering)**<br>**CO2.Demonstrate the use of biotechnology in solving various medical problems(applying)**<br>**CO3.Appreciation for the role of biotechnology in industry using microbes(analyzing)**<br>**CO4.Recognise the importance of various databases**<br>**CO5.Skill in observing and to some extent in analysing various Biological Data(remembering)**<br>**CO6. Discuss about the genetic material (Nucleic acids) and process of DNA replication, Transcription & Translation(understanding)**<br>**CO7. Relate the Genetic Code, Mendelism & Multiple allelism(understanding)** |
| **ZY6CRT12** | **OCCUPATIONAL ZOOLOGY . (APICULTURE, VERMICULTURE, QUAIL FARMING & AQUACULTURE)** | **CO1. Discover self employment capabilities(understanding)**<br>**CO2. Describe scientific knowledge of profitable farming(understanding)**<br>**CO3. Predict various systems and techniques in farming and cottage industries (understanding)** |
| **ZY6CRP03** | **ENVIRONMENTAL BIOLOGY AND TOXICOLOGY & CELL** | **CO1: Analyse various factors underlaying environmental changes(apply).** |

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| | **BIOLOGY AND GENETICS** | **CO2: Understand the biological principles and differentiate different cells in our body(understand).** |
| **ZY6CRP04** | **EVOLUTION, ETHOLOGY AND ZOOGEOGRAPHY & BIOCHEMSTRY HUMAN PHYSIOLOGY AND ENDOCRINOLOGY** | **CO1: Recognize various stages of evolution and various ethological conditions (understand).**<br>**CO2 : Use skill based knowledge in physiological techniques (apply)** |
| **ZY6CRP05** | **DEVELOPMENTAL BIOLOGY MICROBIOLOGY AND IMMUNOLOGY.** | **CO1: Recognize the different aspects of embryonic developments and the knowledge about implications of developmental biology in various fields (understand)**<br>**CO2: Identify and practice various techniques in microbiology and immunology (apply)** |
| **ZY6CRP06** | **BIOTECHNOLOGY, BIOINFORMATICS AND MOLECULAR BIOLOGY AND OCCUPATIONAL ZOOLOGY** | **CO1: Implement various tools and techniques in biotechnology, bioinformatics and molecular biology and apply them in solving problems (apply)**<br>**CO2: Understand economic importance and significance of various animals (understand)** |
| **ZY6CRPRP** | **PROJECT WORK** | **CO1: Apply fundamental and disciplinary concepts and methods in ways appropriate to their principal areas of study (apply)**<br>**CO2: Use effectively written, oral and visual communication (understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

| **PROGRAMME NAME B.Sc.MATHEMATICS**<br>**PROGRAMME CODE: DMCK-UG-MAT-M1-AD** | | |
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| **PROGRAMME SPECIFIC OUTCOMES** | | |
| **PSO1** | **Explain the major concepts and theorems in Mathematics (Understand)** | |
| **PSO2** | **Solve problems using tools in statistics and physics(Apply)** | |
| **PSO3** | **Develop skills to transmit mathematical and non-mathematical ideas both orally and written (Apply)** | |
| **PSO4** | **Evaluate a mathematical problem by critical thinking, analysis and synthesis (Analyse)** | |
| **PSO5** | **Formulate a mathematical model to solve a real life problem(Create)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER 1** | | |
| **EN1CC01** | **FINE-TUNE YOUR ENGLISH** | **CO1: Describe the basic rules of grammar in English for effective communication (understand level)**<br>**CO2:Develop language learning skills like Listening, Speaking, Reading and Writing (apply level)** |

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| | | **CO3: Develop the compositional skills and conversational skills in English in academic, professional and social contexts (apply level)**<br>**CO4: Recognize the common and uncommon errors committed by the speakers in daily English conversation (remember level)**<br>**CO5: Distinguish between the tense forms of verbs in English and identify the correct usage of tenses in sentences (understand level)**<br>**CO6: Explain about the enrichment of English vocabulary through different word formation processes (apply level)** |
| **EN1CC02** | **PEARLS FROM THE DEEP** | **CO1: Distinguish the features of specific literary genres (understand level)**<br>**CO2: Identify the prominent writers in Literature, their seminal works and their style of writing (understand level)**<br>**CO3: Explain the major themes and critical ideas that appear in the literary texts and their impact on culture and society (apply level)**<br>**CO4: Analyze different forms of literature across a wide range of literary age and explain the the socio-political contexts of literary works (analyze level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **ML1CCT01** | കഥാസാഹിത്യം | **CO1:**മലയാളകഥയുടെയും നോവലിന്റെയും ചരിത്രം, ഭാവുകത്വപരിണാമം എന്നിവ വിവരിക്കുക. **(Understand)**<br>**CO2:** കഥ, നോവൽ എന്നീ സാഹിത്യരൂപങ്ങളുടെ വ്യതിരിക്തത തിരിച്ചറിയുക. **(Understand)**<br>**CO3:** ലിംഗസമത്വം, സ്ത്രീശക്തീകരണം, പരിസ്ഥിതി തുടങ്ങിയ ശയങ്ങളിൽ അറിവ് നിർമ്മിക്കുക. **(Apply)**<br>**CO4:** കഥകളിൽ സമകാലിക സാമൂഹികസാഹചര്യങ്ങൾ എപ്രകാരം ആവിഷ്കരിച്ചിരിക്കുന്നു എന്ന് സമർത്ഥിക്കുക. **(Apply)**<br>**CO5:** കഥ ,നോവൽ തുടങ്ങിയ സാഹിത്യരൂപങ്ങളിൽ പ്രകടമാകുന്ന സുഖ-ദു:ഖ സമ്മിശ്രമായ ജീവിതാവാസ്ഥകൾ വിവരിക്കുക**(Apply** |
| **HN 1 CCT01** | **PROSE & ONE ACT PLAYS** | **CO1: Explain the content, aspects and issues discussed in the prose & One Act Plays (Understand)** |

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| | | **CO2 : Quote the eminent Hindi Prose & One Act play writers and their works mentioned in the syllabus.( Remember)**<br>**CO3: Evaluate a writer and his/her literary works.(Analyse)**<br>**CO4:Deduce a social and moral value based point of views.( Analyse)**<br>**CO5: Develop the skill to use good and correct Language.( Apply)** |
| **MM1CRT01** | **FOUNDATION OF MATHEMATICS** | **CO 1: Differentiate various methods for proving theorems (Analyzing level)**<br>**CO 2: Discuss operations in sets and functions defined on sets (Understand level)**<br>**CO 3: Explain equivalence relations and partial ordering. (Apply Level)**<br>**CO 4: Solve mathematical equations using various methods . (Apply Level)** |
| **ST1CMT01** | **DESCRIPTIVE STATISTICS** | **CO1: Describe the basic terms of Statistics (Understand)**<br>**CO2: Explain the concept of moments in Statistics (understand)**<br>**CO3: Construct different statistical measures, namely, central tendency, dispersion, skewness, kurtosis and indices (Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO4: Compare information provided by a real life data using different basic statistical measures (Evaluate)** |
| **PH1CMT01** | **PROPERTIES OF MATTER & ERROR ANALYSIS** | **CO1: Establish the relations between different moduli of elasticity to changes in physical dimensions due to external force (Apply)**<br>**CO2: Examine effect of surface tension in behavior of liquids (Apply)**<br>**CO3: Solve problems involving calculation of coefficient of viscosity and flow rate of liquids (Apply)**<br>**CO4: Estimate the different types of errors and their propagation in computations (Analyze)** |
| **SEMESTER 2** | | |
| **EN2CC03** | **Issues that Matter** | **CO1: Identify the major issues of contemporary significance (understand level)**<br>**CO2: Evaluate the issues raised positively and rationally (apply level)**<br>**CO3: Infer the values imparted through the literary works concerned (apply level)**<br>**CO4: Transform them as conscious and concerned human beings (understand level)** |

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| **EN2CC04** | **Savouring the Classics** | **CO1: Identify the Classics from various lands with a focus on their varied aesthetic dimensions (remember level)**<br><br>**CO2: Understand the features and factors that go into the making of a Classic (understand level)**<br><br>**CO3: Develop an understanding as to how Classic carries the idea of "Time-testedness" and depicts universal human conditions (apply level)**<br><br>**CO4: Enable the learner to reread and reinterpret the classics (analyze level)** |
| **ML2CCT02** | **Kavitha** | CO1: മലയാള കവിതയുടെ ചരിത്രം , ഭാവുകത്വപരിണാമം എന്നിവ<br>വിവരിക്കുക (Understand)<br><br>CO2: കാല്പനിക ,ആധുനിക ,ഉത്തരാധുനിക പ്രസ്ഥാനങ്ങൾ മലയാള കവിതയിൽ വരുത്തിയ മാറ്റങ്ങൾ തിരിച്ചറിയുക(Understand)<br><br>CO3: ലിംഗസമത്വം,സ്ത്രീ സ്വാതന്ത്ര്യം തുടങ്ങിയ ആശയങ്ങളിൽ അറിവ്<br>വികസിപ്പിക്കുക (Apply) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO5: കാലഘട്ടത്തിന്റെ പൊതുപ്രവണതകൾ എഴുത്തിൽ പ്രകടമാകുന്നത്<br>വിവരിക്കുക (Apply)<br><br>CO6: സർഗാത്മകരചന ,കാവ്യാലാപനം എന്നിവക്കുള്ള കഴിവുകൾ<br>കണ്ടെത്തുക (Apply) |
| **HN2CCT02** | **Short stories and Novel** | **CO1- Define Hindi short story and novel.( 1 Remembering)**<br>**CO2- Quote the eminent Hindi short Story and Novel writers.( 1 Remembering)**<br>**CO 3- Review the content of the stories and novel discussed in the syllabus.(II understanding)**<br>**CO4- Sketch the peculiarities of characters in the stories and novel.( III Applying)**<br>**CO5- Explain the issues and moral values discussed in the text .( III Applying)** |
| **MM2CRT01** | **Analytic Geometry, Trigonometry and Differential Calculus** | **CO 1: Explain major concepts of conic sections (Understand)** |



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| | | **CO 2: Determine equations of conic sections in polar form (Apply)**<br>CO3 : **Explain circular & hyperbolic functions and their inverses, and compute the sum of the infinite series based on C+iS method.**<br>**CO 4: Evaluate successive derivatives of mathematical functions and limits of indeterminate form (Evaluate)** |
| **ST2CMT02** | **Probability theory** | **CO1: Describe the basic terms of Probability (Understand)**<br>**CO2: Explain the concept of probability distributions of univariate and bivariate random variables (understand)**<br>**CO3: Construct different functions of a probability distribution (Apply)**<br>**CO4: Assess information provided by a data using measures of correlation and regression (Evaluate)** |
| **PH2CMT01** | **Mechanics and Astrophysics** | **CO1 Understand the basic concepts of Velocity-acceleration- force – acceleration due to gravity and apply these concepts to compound pendulum (symmetric and asymmetric) radius of gyration – Kater's Pendulum- centripetal acceleration and force - centrifugal force**<br>**CO2 Apply the concepts of torque, angular momentum, conservation of angular momentum, Moment of Inertia and parallel and perpendicular axis theorems.** |



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| | | **CO3 Model periodic, simple harmonic and oscillatory motion.**<br>**CO4 Analyse systems executing simple harmonic, damped and forced oscillations.**<br>**CO5 Solve problems using the basic concepts of waves, beats and doppler effect.**<br>**CO6 Describe various stages of star formation and analyse the concepts of H-R diagram, Chandrasekhar limit** |
| **PH2CMP01** | **Complementary Physics Practical 1** | **CO1: Read and tabulate using basic measuring instruments such as screw gauge, vernier callipers, travelling microscope and spectrometer(Remember)**<br>**CO2: Determine parameters like length, angle, resistance (Apply)**<br>**CO3: Calculate quantities such as acceleration due to gravity, rigidity modulus , Moment of inertia, Modulus of elasticity etc (Apply)**<br>**CO4: Estimate the errors in experiments (Analyze)** |
| **SEMESTER III** | | |
| **EN3CC05** | **Literature and/as identity** | **CO1: Recall the issues of refugee and cross border cases (Remember level)**<br>**CO2: Locate different works they have come across under specific categories of writing (Remember level)** |

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| | | **CO3: Identify the seriousness of the issues encountered by people of different ethnicities apart from race and gender (Remember level)**<br><br>**CO4: Explain the extent of the sufferings which people have been through in their lifetime (Understand level)** |
| **ML3CCT04** | **Malayalam-Drusyakala Sahithyam** | **CO1- കേരളത്തിന്റെ ദൃശ്യകലാപാരമ്പര്യത്തിൽ സംസ്കൃത നാടകങ്ങൾക്കുള്ള പങ്ക് വിവരിക്കുക (Understand)**<br><br>**CO2- ആട്ടക്കഥ, തുള്ളൽ തുടങ്ങി ജനകീയമായിരുന്ന ദൃശ്യകലകളുടെ സവിശേഷതകൾ തിരിച്ചറിയുക(Understand)**<br><br>**CO3- മലയാള നാടക ചരിത്രത്തിൽ സി ജെ തോമസ്സിനുള്ള സവിശേഷ സ്ഥാനം വിവരിക്കുക (Understand)**<br><br>**CO4- കാലഘട്ടത്തിന്റെ കലയെന്ന നിലയിൽ സിനിമയെന്ന മാധ്യമത്തെ വിവരിക്കുക (Apply)**<br><br>**CO5-സിനിമാമേഖലയിൽ സംഭവിച്ചു കൊണ്ടിരിക്കുന്ന** |

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| | | കാലഘട്ടാനുസൃതമായ മാറ്റങ്ങൾ നിരീക്ഷിക്കുക(Analyze) |
| **HN3CCT03** | **Poetry,Grammar and Translation** | **CO1- Quote eminent Hindi poets (I Remembering)**<br>**CO2- Explain the aspects and issues discussed in the poem.(II Understand)**<br>**CO3- Explain different parts of Hindi grammar like parts of speech, (Noun, pronoun , verb**<br>**etc..) verb and its different forms ( tense- present, past and future) etc….**<br>**(II understanding)**<br>**CO4- Develop the skill to use a good and correct language. (VI Creating)**<br>**CO5- Translate from English to Hindi and vice versa. (II Understanding)** |
| **MM3CRT01** | **Calculus** | **CO 1: Explain Taylor series and Maclaurin series of a function (Understand)**<br>**CO 2: Examine applications of derivatives (Apply)**<br>**CO 3: Evaluate partial derivatives (Evaluate)**<br>**CO 4: Apply integration to find volume and area of surfaces (Apply)** |

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| | | **CO 5: Evaluate double and triple integrals of functions (Analyse)** |
| **ST3CMT03** | **Probability Distributions** | **CO1: Summarize the term Mathematical expectation (Understand)**<br>**CO2: Describe different statistical laws of large numbers (Understand)**<br>**CO3: Analyse important discrete probability distributions (Analyse)**<br>**CO4: Analyse important continuous probability distributions (Analyse)**<br>**CO5: Focus on different sampling distributions (Analyse)** |
| **PH3CMT03** | **Modern Physics and Electronics** | **CO1 Discuss Bohr atom model, formula for energy, Vector atom model, various quantum numbers and coupling schemes**<br>**CO2 Understand the Physics of Nucleus, its properties and concepts such as binding energy, packing fraction, nuclear stability and nuclear forces.**<br>**CO3 Evaluate the applications of radioactivity such as carbon dating in the fields of Carbon dating and discuss Artificial radioactivity.**<br>**CO4 Discuss black body radiation , Planck's quantum hypothesis, the wave- particle duality through discussing De-Broglie hypothesis,** |

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| | | **Davisson- Germer experiment, Wave Function and matter wave**<br><br>**CO5 Derive Time dependent and Independent Schrodinger equation and the equations of radioactive decay.**<br><br>**CO6 Discuss Optical , molecular, IR Spectra, Rayleigh scattering, Raman effect and the experimental study and quantum theory of Raman effect.**<br><br>**CO7 Explain the working of p-n junction diode, its forward and reverse bias conditions, V-I characteristics, breakdown mechanism etc and the applications of Diodes through analysing Zener diode and various Diode circuits used for rectification**<br><br>**CO8 Explain the working of transistors, its various configurations and their characteristics.**<br><br>**CO9 Understand the basics of digital electronics and logic gates, various number systems such as decimal, binary, octal and hexadecimal and conversion between them.** |
| **SEMESTER IV** | | |
| **EN4CC06** | **Illuminations** | **CO1: To examine the world personalities and their life sketches (apply level)**<br><br>**CO2: To develop moral perceptions in students (apply level)** |

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| | | **CO3: To simulate the students towards various societal issues (apply level)**<br><br>**CO4: To facilitate the students to don the mantle of positivity (create level)**<br><br>**CO5: To explain their affinity towards literature by making them imbibe the aesthetic aspects in stories (analyze level)** |
| **ML4CCT04** | മലയാളഗദ്യരചനകൾ | CO1-മലയാള ഗദ്യത്തിന്റെ ശക്തിയും സാധ്യതയും തിരിച്ചറിയുക **(Understand)**<br><br>CO2-കാരൂർ നീലകണ്ഠപിള്ളയെന്ന എഴുത്തുകാരന്റെ പ്രധാനകൃതികൾ<br><br>കഥാസന്ദർഭങ്ങൾ എന്നിവ വിവരിക്കുക **(Understand)**<br><br>CO3- മലയാളത്തിലെ പ്രധാന ഓർമ്മക്കുറിപ്പുകൾ/ആത്മകഥകൾ എന്നിവ തിരിച്ചറിയുക **(Understand)**<br><br>CO4- സാഹിത്യകൃതിയെ വിമർശനാത്മകമായി വിവരിക്കുക **(Apply)**<br><br>CO5- ലേഖന പരിചയത്തിലൂടെ പരിസ്ഥിസംരക്ഷണം പോലുള്ള സാമൂഹിക വിഷയങ്ങൾ<br><br>വിവരിക്കുക**(Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **HN4CCT041** | **Drama and Long Poem** | **CO1- Define Hindi Drama & Long poem (I Remembering)**<br>**CO2- Quote the eminent Hindi Long poets and their works discussed in the syllabus (I Remembering)**<br>**CO3- Explain the content, aspects and issues discussed. (III Applying)**<br>**CO4- Sketch the peculiarities of characters (III Applying)**<br>**CO5 Deduce social & moral value based point of view.( IV Analysing)** |
| **MM4CRT01** | **Vector calculus, Theory of numbers and Laplace Transforms** | **CO 1: Explain differentiation on vectors (Understand)**<br>**CO 2: Evaluate integral of a vector function over a curve (Evaluate)**<br>**CO 3: Apply vector integration for finding area and volume of surfaces (Apply)**<br>**CO 4: Develop congruences and its applications (Create)**<br>**CO 5: Examine Laplace Transform and its applications (Analyse)** |
| **ST4CMT04** | **Statistical inference** | **CO1: Describe the term Statistical inference (Understand)** |

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| | | **CO2: Interpret terms in statistical estimation and testing (Understand)**<br>**CO3: Determine properties of a good estimate (Apply)**<br>**CO4: Discover different types of estimation techniques (Apply)**<br>**CO5: Conclude the validity of a statistical hypothesis (Evaluate)** |
| **PH4CMT01** | **Optics and electricity** | **CO1 State Principle of Superposition and conditions for maximum and minimum intensities and hence understand coherent sources and interference processes.**<br>**CO2 Apply the principles of interference to understand Young's double slit experiment and Newton's rings**<br>**CO3 Analyse various types of diffraction such as Fresnel and Fraunhofer diffraction and evaluate the theory of plane transmission grating.**<br>**CO4 Evaluate the concept of polarization various method of achieving it such as reflection, refraction, selective absorption, scattering etc.**<br>**CO5 Explain elliptically, circularly polarized light, Quarter and half wave plates**<br>**CO6 Analyse the interaction of electromagnetic radiation with matter giving due importance to stimulated absorption, spontaneous emission and** |

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| | | **stimulated emission and hence derive expressions for Einstein's coefficients**<br><br>**CO7 Discuss Dielectrics, polar and non-polar dielectrics, polarization and sources of polarization, Gauss's law in dielectrics, permittivity, dielectric displacement vector, dielectric constant, susceptibility, and ferro-electricity.**<br><br>**CO8 Explain growth and decay of current in an LR circuit and CR circuit**<br><br>**CO9 Analyze AC current through LR, CR, LC, LCR series circuit and sharpness of resonance** |
| **PH4CMP02** | **Complementary Physics Practical 2** | **CO1: Illustrate experimental methods to determine Modulus of elasticity, dispersive power etc (Apply)**<br><br>**CO2: Construct electronic/electrical circuits and collect outputs (Apply)**<br><br>**CO3: Analyze the results for different experimental conditions/parameters (Analyze)**<br><br>**CO4: Estimate the errors in experiments (Analyze)** |
| **SEMESTER V** | | |
| **MM5CRT01** | **Mathematical Analysis** | **CO 1: Explain real numbers and properties of real numbers (Understand)**<br>**CO 2: Determine limits and convergence of sequences (Apply)**<br>**CO 3: Explain convergence of series (Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO 4: Evaluate limits of function (Evaluate)**<br>**CO 5: Explain limit theorems (Analyse)** |
| **MM5CRT02** | **Differential Equations** | **CO 1: Explain different types of first order differential equations and their solutions (Understand)**<br>**CO 2: Describe second order differential equations and methods for finding the solution (Understand)**<br>**CO 3: Compute the solutions of second order linear differential equations using power series method (Apply)**<br>**CO 4: Develop solution for partial differential equations (Create)** |
| **MM5CRT03** | **Abstract Algebra** | **CO 1: Describe groups,subgroups, cyclic groups and their properties (Understand)**<br>**CO 2: Explain permutations, Cayley's theorem, orbits and cycles (Apply)**<br>**CO 3: Explain Homomorphism and factor groups (Analyse)**<br>**CO 4: Decide rings, fields, ideals and factor rings (Evaluate)** |
| **MM5CRT04** | **Human rights and Environmental Mathematics** | **CO 1: Explain the basic knowledge about natural resources and ecosystem (Understand)**<br>**CO 2: Determine various environmental pollutions and social issues (Apply)**<br>**CO 3: Analyse Fibonacci series in** |

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| | | **nature (Analyse)**<br>**CO 4: Apply Golden ratio in real life situations (Apply)**<br>**CO 5: Discuss concepts of Human rights (Understand)** |
| **MM5OPT02** | **Open Course-Applicable Mathematics** | **CO 1: Give examples for LCM, HCF, Fractions, Ratio and Proportion and Percentage (Understand)**<br>**CO 2: Apply concepts of quadratic equations, combinatorics and trigonometry (Apply)**<br>**CO 3: Evaluate simple interest, compound interest, time and work, exponential and logarithmic series(Evaluate)**<br>**CO 4: Explain the concepts of elementary mensuration and differential calculus (Apply)** |
| **SEMESTER VI** | | |
| **MM6CRT01** | **Real Analysis** | **CO 1: Explain the concepts of continuous functions (Understand)**<br>**CO 2: Determine the applications of differentiation (Apply)**<br>**CO 3: Analyse the Riemann Integral (Analyse)**<br>**CO 4: Evaluate the limit s and convergence of sequences and series of functions (Evaluate)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **MM6CRT02** | **Graph Theory and Metric Space** | **CO 1: Describe basic concepts of graphs (Understand)**<br>**CO 2: Explain Vertex degrees, subgraphs , paths and cycles and matrix representation of graphs (Apply)**<br>**CO 3: Determine different types of graphs (Apply)**<br>**CO 4: Define basic concepts of metric space (Understand)**<br>**CO 5: Correlate convergence and completeness (Analyse)** |
| **MM6CRT03** | **Complex Analysis** | **CO 1: Explain limit, continuity, derivative of complex valued functions and derive necessary and sufficient conditions for differentiability (Understand)**<br>**CO 2: Examine harmonic functions and elementary functions (Apply)**<br>**CO 3: Evaluate integrals of a complex function along a contour (Analyse)**<br>**CO 4: Summarize convergence of sequences and series (Evaluate)**<br>**CO 5: Classify different types of singularities and explain Cauchy's residue theorem (Analyse)** |
| **MM6CRT04** | **Linear Algebra** | **CO 1: Solve a system of Linear Homogeneous and nonhomogeneous equations using matrix transformations and explain Cayley Hamilton** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **theorem. (Apply level)**<br>**CO 2: Explain basic concepts of vector space (Understand)**<br>**CO 3: Correlate linear mappings and matrices (Analyse)**<br>**CO 4: Differentiate between eigenvalues and eigenvectors (Analyse)** |
| **MM6CBT01** | **Operations Research** | **CO 1: Formulate a model for LPP and solve LPP by graphical and simplex methods (Create)**<br>**CO 2: Explain duality in LPP and theorems of duality (Apply)**<br>**CO 3:Solve transportation and assignment problems (Apply)**<br>**CO 4: Explain theory of games and methods for solving game theory problems (Analyse)** |
| **MM6PRT01** | **PROJECT** | **CO1- Apply mathematical concepts in real world problems(apply)**<br>**CO2 - Develop interest in research studies mathematics and related fields(create)** |

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| **PROGRAMME NAME B.Com Computer Applications**<br>**PROGRAMME CODE: DMCK-UG-COM/CA-M1-AD** | | |
| **PROGRAMME SPECIFIC OUTCOMES** | | |
| **PSO1** | **Describe theoretical concepts in Accounting, Economics, Finance, Auditing, Law, Marketing, Environment, Ethics, Research, Computerized Business Applications and other disciplines of commerce. (Understand)** | |
| **PSO2** | **Develop competencies such as communication skills, managerial skills, decision making and problem solving skills to equip them for entrepreneurial ventures. (Apply)** | |
| **PSO3** | **Focus on practical exposure on accounting and analytical skills through applying quantitative and qualitative knowledge to acquire proficiency to pursue higher studies in professional courses. (Analyze)** | |
| **PSO4** | **Illustrate interpersonal skills to facilitate employability and industry readiness in the areas of commerce. (Apply)** | |
| **PSO5** | **Develop IT skills to adapt to the changing role of IT in business and to engage effectively in business research. (Create)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER I** | | |
| **EN1CCT01** | **Fine-Tune Your English** | **CO1: Describe the basic rules of grammar in English for effective communication (Understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO2: Develop language learning skills like Listening, Speaking, Reading and Writing (Apply)**<br><br>**CO3: Develop the compositional skills and conversational skills in English in academic, professional and social contexts (Apply)**<br><br>**CO4: Recognize the common and uncommon errors committed by the speakers in daily English conversation (Remember)**<br><br>**CO5: Distinguish between the tense forms of verbs in English and identify the correct usage of tenses in sentences (Understand)**<br><br>**CO6: Explain how English vocabulary is enriched through different word formation processes (Apply)** |
| **HN1CCT01** | **Hindi – Prose & Mass Media** | **CO1 :Quote the eminent Hindi writers and their works mentioned in the syllabus.( I Remembering)**<br><br>**CO2: Evaluate the content, aspects and issues discussed in the text.( IV Analysing)**<br><br>**CO3:Discuss the role of mass media in daily life.( II Understanding)** |

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| | | **CO4:Correlate literature and mass media.( IV Analysing)**<br>**CO5:Develop the skill to use a good and correct language. (VI Understanding)** |
| **ML1CCT05** | **Malayalam- -കഥയും കവിതയും** | **CO1: മലയാളകഥ, കവിത എന്നിവയുടെ ചരിത്രം, ഭാവുകത്വപരിണാമം എന്നിവ വിവരിക്കുക. (Understand)**<br>**CO2: കഥ, കവിത സാഹിത്യരൂപങ്ങളുടെ വ്യതിരിക്തത തിരിച്ചറിയുക. (Understand)**<br>**CO3: വ്യത്യസ്ത കാവ്യാനുഭവങ്ങളിലൂടെ മനുഷ്യമനസ്സിൽ കവിതകൾക്കുള്ള സവിശേഷമായ സ്ഥാനം വ്യാഖാനിക്കൽ. (Apply)**<br>**CO4:സാഹിത്യപഠനത്തിലൂടെ ആസ്വാദനശേഷി, ഭാഷാപരിചയം, വായനശീലം എന്നിവ നിർമ്മിക്കുക. (Apply)** |

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| | | CO5:ഭിന്നജീവിതാവസ്ഥകളുടെ വിഷ്കരണമാധ്യമമായികഥ, കവിത എന്നിവയെ വിവരിക്കുക. (Apply) |
| **CO1CRT01** | **Dimensions and Methodology of Business Studies** | **CO1:Illustrate the significance of business to different stakeholders by examining the form of business and interpret the impact of business environment on business. (Understand)**<br>**CO2: Describe the stages of development in the Indian economy since independence and identify government initiatives to fuel the economic growth. (Understand)**<br>**CO3: Explain the importance of business ethics and business research in decision making. (Understand)** |
| **CO1CRT02** | **Financial Accounting I** | **CO1: Apply knowledge of Generally Accepted Accounting Principles (GAAP) and managerial accounting theories to business organizations so as to prepare final accounts of a sole trader in accordance with appropriate principles, conventions & standards. (Apply)**<br>**CO2: Solve problems relating to conversion of single entry accounts to double entry and** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **determine the applicability of Single Entry and reason to convert into Double Entry. (Apply)**<br><br>**CO3: Explain the concept of Royalty and its accounting treatment. (Analyze)**<br><br>**CO4: Differentiate consignment transactions and its accounting treatment in the books of consignor and consignee. (Analyze)**<br><br>**CO5: Prepare farm accounts with notional transactions pertaining to crop/livestock accounts. (Apply)** |
| **CO1CRT03** | **Corporate Regulations and Administration** | **CO1: Explain the basic concepts of companies Act 2013. (Understand)**<br><br>**CO2: Describe the steps in the incorporation, administration and winding up of corporates under the Companies Act 2013. (Understand)**<br><br>**CO3: Describe the modes of acquiring membership in a company and administrative roles and procedures happening in a company. (Understand)**<br><br>**CO4: Differentiate between the types of public offer and different types of share capital. (Analyze)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **CO1CMT01** | **Banking and Insurance** | **CO1: Describe types and functions of various banks operating in India. (Understand)**<br>**CO2: Apply knowledge and skills on developments in banking sector including online banking in running a business or real life situations. (Apply)**<br>**CO3: Explain banker customer relationship and types of negotiable instruments and their relevance in business transactions. (Understand)**<br>**CO4: Identify various clauses and principles associated with different types of insurance policies. (Understand)** |
| **SEMESTER II** | | |
| **EN2CCT03** | **ISSUES THAT MATTER** | **CO1: Identify the major issues of contemporary significance (understand level)**<br>**CO2: Evaluate the issues raised positively and rationally (apply level)**<br>**CO3: Infer the values imparted through the literary works concerned (apply level)**<br>**CO4: Transform them as conscious and concerned human beings (understand level)** |
| **HN 2CCT02** | **Hindi – Poetry ,commercial correspondence and translation** | **CO1- Quote the eminent Hindi writers Remembering)** |



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| | | **CO 2- State what is commercial correspondence( I Remembering)**<br><br>**CO3- Explain the content, aspects and issues discussed in the poems(II understanding)**<br><br>**CO4- Translate from English to Hindi and vice versa ( II understanding)**<br><br>**CO5- Develop the skill to use a correct and good language.( VI Creatin** |
| **ML2CCT06** | **Malayalam- ആത്മകഥ , ലേഖനം (BCom course )** | **CO1: മലയാള ഗദ്യത്തിന്റെ ചരിത്രം, ഭാവുകത്വപരിണാമം എന്നിവ**<br><br>**വിവരിക്കുക(Understand)**<br><br>**CO2: മലയാള ഗദ്യസാഹിത്യത്തിന്റെ ശക്തിയും സൗന്ദര്യവും വിവരിക്കുക**<br><br>**(Understand)**<br><br>**CO3: ആത്മകഥ എന്ന സാഹിത്യശാഖയെ വിശദീകരിക്കുക(Understand)**<br><br>**CO4: സ്വത്വബോധം, പാരിസ്ഥിതിക അവബോധം, സാംസ്കാരിക**<br><br>**വ്യതിയാനങ്ങൾ എന്നിവ അപഗ്രഥിക്കുക(Apply)**<br><br>**CO5: വിവിധ നവോത്ഥാന പ്രസ്ഥാനങ്ങളുടെ സ്ഥാപിതചരിത്രം** |



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| | | വിവരിക്കുക(Apply) |
| **CO2CRT04** | **Financial Accounting II** | **CO1: Explain the concept of Hire Purchase System and apply it to the preparation of accounts. (Understand)**<br>**CO2: Develop the ability to prepare Branch and departmental accounts and calculate profit or loss. Gain practical exposure in operating a branch independently with the knowledge of branch and departmental accounts. (Apply)**<br>**CO3: Develop the application skills to apply Garner vs. Murray rule at the time of dissolution of partnership firm, piecemeal method of distributing assets and settlement of liabilities. (Apply)**<br>**CO4: Develop the application of important accounting standards in the field of accounting.**<br>**(Apply)** |
| **CO2CRT05** | **Business Regulatory Framework** | **CO1: Understand the basic concepts and definitions given in the Indian Contract Act (Understand)**<br>**CO2: Distinguish between the different types of contracts (Analyze)** |



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| | | **CO3: Explain the basic concepts in the Sale of Goods Act, 1930 (Understand)**<br>**CO4: Summarize the legal framework influencing business decisions. (Understand)** |
| **CO2CRT06** | **Business Management** | **CO1: Review contributions of renowned academicians towards the field of management and explain the basic management concepts and principles. (Understand)**<br>**CO2: Define the importance of planning and coordination in an organization. (Remember)**<br>**CO3: Describe the actions required in the establishment of an efficient organization structure. (Understand)**<br>**CO4: Relate various elements of direction and control to management activities. (Understand)**<br>**CO5: Define the importance of various management techniques. (Remember)** |
| **CO2CMT02** | **Principle of Business Decisions** | **CO1: Articulate types of decisions and the application of economic theories in business decision making. (Apply)**<br>**CO2: Relate demand of a product to its various determinants, focusing specially on price demand relationship and employ demand forecasting techniques so as to venture into business. (Apply)** |



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| | | **CO3: Explain production laws in the short run and long run and also economies and diseconomies of production. (Understand)**<br><br>**CO4: Identify various types of costs that may have an impact on business. (Understand)**<br><br>**CO5: Analyze price output relationship and price determination in various forms of markets to maximize profits of the firm. (Analyze)** |
| **SEMESTER III** | | |
| **EN3CC07** | **GEMS OF IMAGINATION** | **CO1: Distinguish the features of specific literary genres (understand level)**<br><br>**CO2: Identify the prominent writers in Literature, their seminal works and their style of writing (understand level)**<br><br>**CO3: Explain the major themes and critical ideas that appear in the literary texts and their impact on culture and society (apply level)**<br><br>**CO4: Analyze different forms of literature across a wide range of literary age and explain the the socio-political contexts of literary works (analyze level)** |



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| **CO3CRT07** | **Corporate Accounts I** | **CO1: Discuss the concepts of share issue and types of share capital. (Understand)**<br>**CO2: Develop awareness about the provisions in Companies Act with respect to Underwriting of Shares (Apply)**<br>**CO3: Prepare and present financial statements as per the requirements of companies**<br>**Act 2013. (Apply)**<br>**CO4: Employ problem solving skills in investment accounts of shares. (Apply)**<br>**CO5: Acquire the basic knowledge about insurance claim accounts. (Understand)** |
| **CO3CRT08** | **Quantitative Techniques for Business-I** | **CO1: Discuss the subject matter or division of statistics (Understand)**<br>**CO2: Distinguish between primary and secondary data (Understand)**<br>**C03: Calculate various measures of central tendency (Apply)**<br>**C04: Compute different measures of dispersion (Apply)**<br>**C05: Illustrate the methods of interpolation and extrapolation (Apply)** |
| **CO3CRT09** | **Financial Markets and Operations** | **CO1: Classify the various components of the Indian Financial System and the role of regulatory agencies in ensuring proper functioning of the system. (Understand)** |



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| | | **CO2: Explain the intermediaries in the New Issue Market and methods of issuing fresh capital. (Understand)**<br>**C03: Discover how stock exchanges act as a platform for trading securities, capital formation and facilitate bank lending (Apply)**<br>**C04: Distinguish between different types of mutual funds. (Understand)**<br>**C05: Describe various types of derivative instruments. (Understand)** |
| **CO3CRT10** | **Marketing Management** | **CO1: Explain the basic concepts in marketing management (Understand)**<br>**CO2: Determine an appropriate product mix so as to market the product successfully. (Apply)**<br>**C03: Describe pricing and physical distribution strategies which can be adopted for products and services. (Understand)**<br>**C04: Identify recent trends in marketing which are essential to have a competitive edge. (Understand)** |
| **CO3OCT02** | **Computer Application-Information Technology for Business (Theory)** | **CO1: Explain the role of information technology in business, society, education and healthcare. (Understand)** |



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| | | **CO2: Define various hardware and software required for enabling information technology. (Remember)**<br><br>**CO3: Explain different types of computer networks and communication protocols. (Understand)**<br><br>**CO3: Develop proper usage of computers and Internet (Apply)**<br><br>**CO4: Develop website using HTML (Create)** |
| **SEMESTER IV** | | |
| **EN4CC08** | **Language- English- IV REVISITING THE CLASSICS** | **CO1: Identify the Classics from various lands with a focus on their varied aesthetic dimensions (remember level)**<br><br>**CO2: Understand the features and factors that go into the making of a Classic (understand level)**<br><br>**CO3: Develop an understanding as to how Classic carries the idea of "Time-testedness" and depicts universal human conditions (apply level)**<br><br>**CO4: Enable the learner to reread and reinterpret the classics (analyze level)** |



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| **CO4CRT11** | **Corporate Accounts II** | **CO1: Prepare financial statements of Insurance and Banking companies. (Apply)**<br>**CO2: Explain the accounting procedure for reconstruction. (Understand)**<br>**CO3: Illustrate concepts and accounting procedures of Amalgamation, Absorption and External reconstruction as per the Accounting Standards. (Analyze)**<br>**CO4: Solve problems on the legal procedure in the event of liquidation of a company. (Apply)** |
| **CO4CRT12** | **Quantitative Techniques for Business-II** | **CO1: Develop methods of studying correlation (Apply)**<br>**CO2: Calculate regression equations and regression coefficient (Apply)**<br>**CO3: Develop Methods of constructing price index, quantity index and value index. (Apply)**<br>**CO4: Calculate mathematical model and semi average methods of time series (Apply)**<br>**CO5: Develop theorems of probability (Apply)** |
| **CO4CRT13** | **Entrepreneurship Development & Project Management** | **CO1: Explain functions of entrepreneurship and its significance in economic development (Understand)**<br>**CO2: Illustrate support system available to promote entrepreneurship in general and for women entrepreneurs and MSMEs in particular. (Understand)** |



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| | | **CO3: Develop a project idea and prepare a project report after undertaking project appraisal. (Apply)**<br><br>**CO4: Articulate traits required by an entrepreneur to take up entrepreneurial ventures and also to make them match with industry demands. (Apply)** |
| **CO4OCT02** | **Computer Application-Information Technology for Office (Theory)** | **CO1: Construct and mail merge a document using M.S Word. (Apply)**<br><br>**CO2: Construct publications using Adobe Pagemaker 7.0. (Apply)**<br><br>**CO3: Manipulate a spreadsheet using M.S Excel. (Apply)**<br><br>**CO4: Prepare a Power Point presentation using M.S Office. (Apply)** |
| **CO4OCT02** | **Information Technology for Office (Practical)** | **CO1: Construct and mail merge a document using M.S Word. (Apply)**<br><br>**CO2: Construct publications using Adobe Pagemaker 7.0. (Apply)**<br><br>**CO3: Manipulate a spreadsheet using M.S Excel. (Apply)**<br><br>**CO4: Prepare a PowerPoint presentation using M.S Office. (Apply)** |
| **SEMESTER V** | | |
| **CO5CRT14** | **Cost Accounting I** | **COI: Describe cost concept and terminologies related to cost accounting. (Understanding)** |



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| | | **CO2: Compute stock levels, material losses and pricing of issue of materials (Apply)**<br>**CO3: Differentiate between time rate and piece rate systems (Understand)**<br>**CO4: Analyse primary and secondary distribution of overheads (Analyse)**<br>**CO: 5: Preparation of cost sheet and profit reconciliation statement (Apply)** |
| **CO5CRT15** | **Environment Management and Human Rights** | **CO1: Develop understanding regarding natural resources, ecosystems, environmental aspects and its management. (Understanding)**<br>**CO2: Develop awareness about environmental laws in India and the need for their observance. (Understanding)**<br>**CO3: Sensitise about the recent developments in the field of commerce and management relating to the environment. (Understanding)**<br>**CO4: Apply the knowledge about RTI Act in ensuring civic rights of self and society. (Apply)**<br>**CO5: Develop understanding about the basic human rights and the mechanisms for protecting them for self and others. (Understanding)** |



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| | | **CO6: Apply the knowledge of environment management and human rights in daily life to ensure sustainable development. (Apply)** |
| **CO5CRT16** | **Financial Management** | **CO1: Describe the concept, scope, functions and objectives of financial management. (Understand)**<br>**CO2: Apply knowledge of financial management to constitute an optimal capital structure (Apply)**<br>**CO3: Develop investment decisions by constructing capital budget and employing cash flow evaluation techniques. (Apply)**<br>**CO4: Compute capital requirements for starting business & management of working capital. (Apply)**<br>**CO5: Acquire the knowledge about dividend policies and various dividend models. (Understand)** |
| **CO5OCT02** | **Computer Application-Computerized Accounting(Theory)** | **CO1: Explain the concepts in computerized accounting. (Understand)**<br>**CO2: Develop basic knowledge in preparing financial statements of trading and non-trading companies using tally erp9 software. (Apply)**<br>**CO3: Illustrate recording of transactions with GST and generate GST reports using tally erp9 software (Analyze)**<br>**CO4: Develop basic knowledge in payroll management using tally erp9 software. (Apply)** |



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| **CO5OCT02** | **Computerized Accounting (Practical)- Examination in 6th Semester only** | **CO1: Explain the concepts in computerized accounting. (Understand)**<br>**CO2: Develop basic knowledge in preparing financial statements of trading and non-trading companies using tally erp9 software. (Apply)**<br>**CO3: Illustrate recording of transactions with GST and generate GST reports using tally erp9 software (Analyze)**<br>**CO4: Develop basic knowledge in payroll management using tally erp9 software. (Apply)** |
| **CO5OP03** | **Open Course; FUNDAMENTALS OF ACCOUNTING** | **CO1: Describe fundamental accounting concepts, conventions and equations. (Understand)**<br>**CO2: Record journal entries in proper format based on business transactions. (Apply)**<br>**CO3: Subdivide journal and prepare cash book and day books accordingly. (Analyze)**<br>**CO4: Illustrate preparation of Trial Balance and Final accounts from given account balances. (Analyze)** |
| **SEMESTER VI** | | |
| **CO6CRT17** | **Cost Accounting II** | **CO1: Describe batch, job and contract costing (Understand)**<br>**CO2: Distinguish between transport costing and contract costing (Understand)** |



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| | | **CO3: Prepare process account, joint product and by-product (Apply)**<br>**C04: Apply marginal costing methods in decision making (Apply)**<br>**CO5: Prepare different types of budget (Apply)** |
| **CO6RT18** | **Advertisement & Sales Management** | **CO1: Discuss basic aspects of advertising including the types of and ethics in advertising (Understand)**<br>**CO2: Describe advertisement appeal, ad layout and media in advertising. (Understand)**<br>**CO3: Explain methods of measuring advertisement effectiveness. (Understand)**<br>**C04: Articulate strategies and techniques of effecting sales promotion and personal selling required for successful conduct of business. (Apply)** |
| **CO6CRT19** | **Auditing & Assurance** | **CO1: Explain the basic concepts of different types of audits and procedures involved in. (Understand)**<br>**CO2: Describe the actions required in the various steps of audit process. (Understand)**<br>**CO3: Explain duties and responsibilities of auditors. (Understand)**<br>**CO4: Define the importance of internal control, Special Audits and Investigation in an organization. (Remember)** |



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| | | **CO5: Describe the qualifications, principles and procedures required to undertake a valid and efficient auditing. (Understand)** |
| **CO6CRT20** | **Management Accounting** | **CO1: Explain management accounting, its objectives, functions, limitations and difference with financial accounting and cost accounting. (Understand)**<br>**CO2: Describe various tools and techniques used by management accountants for financial statement analysis. (Understand)**<br>**CO3: Summarize the basic framework of financial reporting using management accounting. (Understand)**<br>**CO4: Employ ratio analysis of financial statements and interpret the financial statement using ratios. (Apply)**<br>**CO5: Analyse fund flow and cash flow statements and explain the same in real business/accounting cases.** |
| **CO6OCT02** | **Computer Application-Software for Business and Research (Theory)** | **CO1: Develop basic understanding of using the software SPSS for business research. (Understand)**<br>**CO2: Perform basic statistical analysis using software SPSS (Apply)**<br>**CO3: Create and design open office documents for general office use using Libre Office word. (Create)** |



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| | | **CO3: Create spreadsheets and perform basic mathematical operations using Libre Office Calc (Create)** |
| **CO6OCT02** | **Software for Business and Research (Practical)** | **CO1: Explain the basic steps in the process of conducting research. (Understand)**<br>**CO2: Review related literature and explore theoretical framework for the study. (Understand)**<br>**CO3: Prepare a project report after analyzing the data collected through primary or secondary sources. (Create)** |
| **CO6PR01** | **Project & Viva** | **CO1: Explain the basic steps in the process of conducting research. (Understand)**<br>**CO2: Review related literature and explore theoretical framework for the study. (Understand)**<br>**CO3: Prepare a project report after analyzing the data collected through primary or secondary sources. (Create)** |

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| **PROGRAMME NAME B.Sc. BOTANY**<br>**PROGRAMME CODE: DMCK-UG-BOT-M1-AD** | | |
| **PROGRAMME SPECIFIC OUTCOMES** | | |
| **PSO1** | **Discover different branches of Botany such as taxonomy, evolution, ecology, morphology, anatomy, pathology, reproduction, developmental biology, physiology, biochemistry, genetics, biotechnology and molecular biology of various plant-forms.(Understand)** | |
| **PSO2** | **Illustrate various analytical and technical skills related to plant sciences.(Understand)** | |
| **PSO3** | **Articulate the concepts in biological and chemical sciences to resolve the societal and environmental issues for sustainable development.(Analyze)** | |
| **PSO4** | **Develop communication skills, practical & entrepreneurial skills in botany.(Analyze)** | |
| **PSO5** | **Identify any plant form by applying the concepts and techniques of basic science, life science and fundamentals process of plants. (Apply)** | |
| **PSO6** | **Devise short research projects using various tools and techniques in plant sciences and develop scientific temperament and research attitude. (Create)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER I** | | |
| **EN1CC01** | **FINE-TUNE YOUR ENGLISH** | **CO1: Describe the basic rules of grammar in English for effective communication (understand level)** |



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| | | **CO2: Develop language learning skills like Listening, Speaking, Reading and Writing (apply level)**<br><br>**CO3: Develop the compositional skills and conversational skills in English in academic, professional and social contexts (apply level)**<br><br>**CO4: Recognize the common and uncommon errors committed by the speakers in daily English conversation (remember level)**<br><br>**CO5:Distinguish between the tense forms of verbs in English and identify the correct usage of tenses in sentences (understand level)**<br><br>**CO6: Explain about the enrichment of English vocabulary through different word formation processes (apply level)** |
| **EN1CC02** | **PEARLS FROM THE DEEP** | **CO1:Distinguish the features of specific literary genres (understand level)**<br><br>**CO2: Identify the prominent writers in Literature, their seminal works and their style of writing (understand level)**<br><br>**CO3: Explain the major themes and critical ideas that appear in the literary texts and their impact on culture and society (apply level)** |



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| | | **CO4: Analyze different forms of literature across a wide range of literary age and explain the the socio-political contexts of literary works (analyze level)** |
| **ML1CCT01** | കഥാസാഹിത്യം | CO1:മലയാളകഥയുടെയും നോവലിന്റെയും ചരിത്രം, ഭാവുകത്വപരിണാമം എന്നിവ വിവരിക്കുക. **(Understand)**<br>CO2: കഥ, നോവൽ എന്നീ സാഹിത്യരൂപങ്ങളുടെ വ്യതിരിക്തത തിരിച്ചറിയുക. **(Understand)**<br>CO3: ലിംഗസമത്വം, സ്ത്രീശക്തീകരണം, പരിസ്ഥിതി തുടങ്ങിയ ശയങ്ങളിൽ അറിവ് നിർമ്മിക്കുക. **(Apply)**<br>CO4: കഥകളിൽ സമകാലിക സാമൂഹികസാഹചര്യങ്ങൾ എപ്രകാരം ആവിഷ്കരിച്ചിരിക്കുന്നു എന്ന് സമർത്ഥിക്കുക. **(Apply)**<br>CO5: കഥ ,നോവൽ തുടങ്ങിയ സാഹിത്യരൂപങ്ങളിൽ പ്രകടമാകുന്ന സുഖ-ദു:ഖ സമ്മിശ്രമായ ജീവിതാവാസ്ഥകൾ വിവരിക്കുക**(Apply** |



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| **HN 1 CCT01** | **PROSE & ONE ACT PLAYS** | **CO1: Explain the content, aspects and issues discussed in the prose & One Act Plays.**<br>**( Understanding)**<br>**CO2 : Quote the eminent Hindi Prose & One Act play writers and their works mentioned**<br>**in the syllabus.( Remembering)**<br>**CO3: Evaluate a writer and his/her literary works.( Analyzing)**<br>**CO4:Deduce a social and moral value based point of views.( Analyzing)**<br>**CO5: Develop the skill to use good and correct Language.( Creating)** |
| **BO1CRT01** | **Methodology of Science and an Introduction to Botany** | **CO1;Identify the universal nature of science by explaining the different steps of scientific method and experimentation.**<br>**CO2;Describe the diversity of plants with respect to Algae, Fungi, Lichens, Bryophytes, Pteridophytes and Gymnosperms.**<br>**CO3;Trace the different theories of origin and evolution of life on earth**<br>**CO4;Develop basic botanical laboratory skills to study plant science** |
| **CH1CMT01** | **BASIC THEORETICAL AND** | **CO1: Define the principle underlying various analytical methods in** |

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| | **ANALYTICAL CHEMISTRY** | **chemistry(Remember)**<br>**CO2: Explain principle, types and applications of chromatography(Understand)**<br>**CO3: Explain the fundamental concepts in chemistry(Understand)**<br>**CO4: Develop theoretical knowledge on chemical bonding (Apply)** |
| **ZY1CMT0I** | **NON CHORDATE DIVERSITY (Theory)** | **CO1: Interpret relationships, including predation, parasitism, commensalism, mutualism, and competition, among organisms; (Analyse)**<br>**CO2: Understand Scientific classification of Invertebrate fauna (Remember)**<br>**CO3: To understand principles of general taxonomy and nomenclature (Understand)** |
| **SEMESTER II** | | |
| **EN2CC03** | **ISSUES THAT MATTER** | **CO1: Identify the major issues of contemporary significance (understand level)**<br>**CO2: Evaluate the issues raised positively and rationally (apply level)**<br>**CO3: Infer the values imparted through the literary works concerned (apply level)**<br>**CO4: Transform them as conscious and concerned human beings (understand level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **EN2CC04** | **SAVORING THE CLASSICS** | **CO1: Identify the Classics from various lands with a focus on their varied aesthetic dimensions (remember level)**<br>**CO2: Understand the features and factors that go into the making of a Classic (understand level)**<br>**CO3: Develop an understanding as to how Classic carries the idea of "Time- testedness" and depicts universal human conditions (apply level)**<br>**CO4: Enable the learner to reread and reinterpret the classics (analyze level)** |
| **HN 2CCT02** | **SHORT STORIES & NOVEL** | **CO1- Define Hindi short story and novel.( Remembering)**<br>**CO2- Quote the eminent Hindi short Story and Novel writers.( Remembering)**<br>**CO 3- Review the content of the stories and novel discussed in the syllabus.(Understanding)**<br>**CO4- Sketch the peculiarities of characters in the stories and novel.( Applying)**<br>**CO5- Explain the issues and moral values discussed in the text .( Applying)** |
| **ML2CCT02** | കവിത | CO1: മലയാള കവിതയുടെ ചരിത്രം , ഭാവുകത്വപരിണാമം എന്നിവ<br>വിവരിക്കുക (Understand) |

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| | | CO2: കാല്പനിക ,ആധുനിക ,ഉത്തരാധുനിക പ്രസ്ഥാനങ്ങൾ മലയാള കവിതയിൽ വരുത്തിയ മാറ്റങ്ങൾ തിരിച്ചറിയുക(Understand)<br><br>CO3: ലിംഗസമത്വം,സ്ത്രീ സ്വാതന്ത്ര്യം തുടങ്ങിയ ആശയങ്ങളിൽ അറിവ് വികസിപ്പിക്കുക (Apply)<br><br>CO5: കാലഘട്ടത്തിന്റെ പൊതുപ്രവണതകൾ എഴുത്തിൽ പ്രകടമാകുന്നത് വിവരിക്കുക (Apply) |
| **BO2CRT02** | **Microbiology, Mycology and Plant Pathology** | **CO1;Enumerate the economic and pathological importance of bacteria, virus, fungi and lichens.**<br><br>**CO2;Discover the world of microbes, fungi and lichens.**<br><br>**CO3;Explain the adaptive strategies of Bacteria, virus, fungi and lichens.**<br><br>**CO4;Determine the common plant diseases and major control measures.** |
| **CH2CMT02** | **BASIC ORGANIC CHEMISTRY** | **CO1: Describe the fundamental aspects in Organic Chemistry (understand)** |

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| | | **CO2: Discuss the stereochemistry of organic compounds and its**<br>**implications(Understand)**<br>**CO3:Explain the various electron displacement effects, reaction intermediates**<br>**etc.(Understand)**<br>**CO4:Classify the various types of polymers on the basis of their origin.(Analyze)** |
| **ZY2CMTO2** | **CHORDATE DIVERSITY** | **CO1.Describe the diversity in form, structure and habits of vertebrates (remebering)**<br>**CO2. Explain general characteristics of different classes of vertebrates(understanding)**<br>**CO3. Classify phylum Protochordates to Mammalia (analysing)** |
| **BO2CRP01** | **PRACTICAL: Methodology Science and an Introduction to Botany And Microbiology, Mycology and Plant Pathology** | **CO1 Classify bacteria by Gram's staining. (Analyse)**<br>**CO2 Categorize different plants into their respective planned groups. (analyse)**<br>**CO3 Design an experiment to verify a given hypothesis (create)** |
| **CH2CMP01** | **VOLUMETRIC ANALYSIS** | **CO1: Describe the fundamental concepts in volumetric analysis(Remember)**<br>**CO2: Describe the use of various types of indicators (Understand)**<br>**CO3:Explain the various types of volumetric techniques(Understand)**<br>**CO4:Analyze volumetrically the mass of the given substance (Analyze)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **ZY2CMP01** | **NONCHORDATE DIVERSITY & CHORDATE DIVERSITY** | **CO1: Acquire good laboratory practices to students and train them about proper handling of lab instruments (apply)**<br>**CO2: Recognize biodiversity and identify organisms by their external and internal characteristics (understand)** |
| **SEMESTER III** | | |
| **EN3CC05** | **LITERATURE AND/AS IDENTITY** | **CO1: Recall the issues of refugee and cross border cases (Remember level)**<br>**CO2: Locate different works they have come across under specific categories of writing (Remember level)**<br>**CO3: Identify the seriousness of the issues encountered by people of different ethnicities apart from race and gender (Remember level)**<br>**CO4: Explain the extent of the sufferings which people have been through in their lifetime (Understand level)** |
| **HN 3CCT03** | **POETRY, GRAMMAR & TRANSLATION** | **CO1- Quote eminent Hindi poets (Remembering)**<br>**CO2- Explain the aspects and issues discussed in the poem.( Understand)**<br>**CO3- Explain different parts of Hindi grammar like parts of speech, (Noun, pronoun , verb etc..) verb and its different forms ( tense- present, past and future) etc….** |

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| | | **(Understanding)**<br><br>**CO4- Develop the skill to use a good and correct language. ( Creating)**<br><br>**CO5- Translate from English to Hindi and vice versa. (Understanding)** |
| **CML3CCT03** | ദൃശ്യകലാ സാഹിത്യം | CO1- കേരളത്തിന്റെ ദൃശ്യകലാപാരമ്പര്യത്തിൽ സംസ്കൃത<br><br>നാടകങ്ങൾക്കുള്ള പങ്ക് വിവരിക്കുക **(Understand)**<br><br>CO2- ആട്ടക്കഥ, തുള്ളൽ തുടങ്ങി ജനകീയമായിരുന്ന ദൃശ്യകലകളുടെ<br><br>സവിശേഷതകൾ തിരിച്ചറിയുക**(Understand)**<br><br>CO3- മലയാള നാടക ചരിത്രത്തിൽ സി ജെ തോമസ്സിനുള്ള സവിശേഷ<br><br>സ്ഥാനം വിവരിക്കുക **(Understand)**<br><br>CO4- കാലഘട്ടത്തിന്റെ കലയെന്ന നിലയിൽ സിനിമയെന്ന മാധ്യമത്തെ<br><br>വിവരിക്കുക **(Apply)**<br><br>CO5-സിനിമാമേഖലയിൽ സംഭവിച്ചു കൊണ്ടിരിക്കുന്ന<br><br>കാലഘട്ടാനുസൃതമായ മാറ്റങ്ങൾ നിരീക്ഷിക്കുക**(Analyze)** |

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| **BO3CRT03** | **Phycology and Bryology** | **CO1;State the unique and evolutionary features of algae and bryophytes.**<br>**CO2;Identify the common genera of algae and bryophytes.**<br>**CO3;Discuss the different cultivation and preservation techniques of algae.**<br>**CO4;Apply the economic importance of algae and bryophytes in daily life** |
| **ZY3CMT03** | **PHYSIOLOGY AND IMMUNOLOGY** | **CO1. Examine the mechanisms that work to keep the human body alive and functioning (remembering)**<br>**CO2.Generalize the importance of Bio molecules (understanding)**<br>**CO3. Observe about importance of immune system and allows the student to create insight as how to improve their**<br>**immune system and good health(understanding)** |
| **CH3CMT04** | **INORGANIC AND ORGANIC CHEMISTRY** | **CO1: Describe the fundamental concepts in nuclear chemistry (remember)**<br>**CO2: Recognize the various types of food additives (remember)**<br>**CO3: Explain the different plant nutrients, their functions and deficiency**<br>**symptoms(Understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO4: Apply the different types of nuclear reactions in various paths of life (Apply)** |
| **SEMESTER IV** | | |
| **EN4CC06** | **ILLUMINATIONS** | **CO1: To examine the world personalities and their life sketches (apply level)**<br>**CO2: To develop moral perceptions in students (apply level)**<br>**CO3: To simulate the students towards various societal issues (apply level)**<br>**CO4: To facilitate the students to don the mantle of positivity (create level)**<br>**CO5: To explain their affinity towards literature by making them imbibe the aesthetic aspects in stories (analyze level)** |
| **HN 4CCT04** | **DRAMA & LONG POEM** | **CO1- Define Hindi Drama & Long poem (Remembering)**<br>**CO2- Quote the eminent Hindi Long poets and their works discussed in the syllabus ( Remembering)**<br>**CO3- Explain the content, aspects and issues discussed. (Applying)**<br>**CO4- Sketch the peculiarities of characters (Applying)** |

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| | | **CO5 Deduce social & moral value based point of view.( Analysing)** |
| **CML4CCT04** | മലയാളഗദ്യ രചനകൾ | CO1-മലയാള ഗദ്യത്തിന്റെ ശക്തിയും സാധ്യതയും തിരിച്ചറിയുക **(Understand)**<br>CO2-കാരൂർ നീലകണ്ഠപിള്ളയെന്ന എഴുത്തുകാരന്റെ പ്രധാനകൃതികൾ<br>,കഥാസന്ദർഭങ്ങൾ എന്നിവ വിവരിക്കുക **(Understand)**<br>CO3- മലയാളത്തിലെ പ്രധാന ഓർമ്മക്കുറിപ്പുകൾ/ആത്മകഥകൾ എന്നിവ തിരിച്ചറിയുക **(Understand)**<br>CO4- സാഹിത്യകൃതിയെ വിമർശനാത്മകമായി വിവരിക്കുക **(Apply)**<br>CO5- ലേഖന പരിചയത്തിലൂടെ പരിസ്ഥിസംരക്ഷണം പോലുള്ള സാമൂഹിക വിഷയങ്ങൾ<br>വിവരിക്കുക**(Apply)** |
| **BO4CRT04** | **Pteridology, Gymnosperms and Paleobotany** | **CO1;State the unique and evolutionary features of Pteridophytes and Gymnosperms.**<br>**CO2;Identify the common genera of Pteridophytes and Gymnosperms.**<br>**CO3;Describe the significance of paleobotany and its applications.**<br>**CO4;Determine the economic importance of Pteridophytes and Gymnosperms in daily life.** |

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| **CH4CMT06** | **ADVANCED BIO-ORGANIC CHEMISTRY** | **CO1: Describe the synthesis properties and structure of aminoacids and proteins (remember)**<br>**CO2: Distinguish the natural products available (understand)**<br>**CO3: Explain the components, structure and biological functions of DNA and**<br>**RNA(Understand)**<br>**CO4: Describe the structure and properties of carbohydrates(Understand)** |
| **ZY4CMT04** | **APPLIED ZOOLOGY** | **CO1. Discover self employment capabilities(understanding)**<br>**CO2. Describe scientific knowledge of profitable farming(understanding)**<br>**CO3. Predict various systems and techniques in farming and cottage industries (understanding)** |
| **BO4CRP02** | **Phycology and**<br>**Bryology**<br>**&;Pteridology,**<br>**Gymnosperms**<br>**and Paleobotany** | **CO1 Compare the thallus and reproductive structures of**<br>**different Algal genera. (Analyse)**<br>**CO2 Analyse the thallus and reproductive structures of**<br>**various bryophytes. (Analyse)**<br>**CO3 Distinguish different algal genera seen in freshwater**<br>**ecosystem. (Evaluate)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **CH4CMP03** | **ORGANIC CHEMISTRY PRACTICALS** | **CO1:Explain the reactions of the functional groups(Understand)**<br>**CO2:Explain how to prepare solid derivatives of organic compounds(Understand)**<br>**CO3: Identify organic compounds by determining physical constants – melting and boiling points.**<br>**CO4:Analyze qualitatively organic compounds(Analyze)** |
| **ZY4CMP02** | **PHYSIOLOGY AND IMMUNOLOGY, APPLIED ZOOLOGY** | **CO1: Identify clinically important diagnostic instruments, their working principle and application.**<br>**CO2: Identify and practice various techniques in immunology (remember)**<br>**CO2: Describe economic importance and significance of various animals (understand)** |
| **SEMESTER V** | | |
| **BO5CRT05** | **Anatomy, Reproductive Botany and Microtechnique** | **CO1;Differentiate the types of tissues and their organization in the most evolved group of plants, the Angiosperms.**<br>**CO2;Identify the different stages of development of reproductive parts and fruits.**<br>**CO3;Discuss the transition from primary structure to the secondary growth in plants.**<br>**CO4;Develop skills to prepare plant specimens for microscopic studies.**<br>**CO5;Categorize the types of wood based on anatomy.**<br>**CO6;Estimate the age of trees using dendrochronology.** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **BO5CRT06** | **Research Methodology, Biophysics and Biostatistics** | **CO1;Illustrate the different steps used in scientific research and writing research report.**<br>**CO2;Apply different computer skills for conducting the research and analyzing the research results.**<br>**CO3;Administer different tools and techniques in research.**<br>**CO4;Evaluate the significance of research work using bio statistical tools** |
| **BO5CRT07** | **Plant Physiology and Biochemistry** | **CO1;Trace the various plant-water relations.**<br>**CO2;Distinguish the mechanism of various metabolic processes in plants.**<br>**CO3;Discuss metabolic pathways leading to the formation of significant biomolecules, their catabolism and the vital role of each of these molecules in plants.**<br>**CO4;Relate the phenomenon of metabolism of primary and secondary metabolites and their role in plants.**<br>**CO5;Develop skills and techniques related to plant physiology and design their own experiments.** |
| **BO5CRT08** | **Environmental Science and Human Rights** | **CO1;Explain the structure and function of the ecosystems.**<br>**CO2;Describe various environmental lows in India and role of various movements in the protection of nature and natural resources.**<br>**CO3;Discuss the various factors leading to Environmental degradation, their reasons and their impact on the Environment.**<br>**CO4;Cite the provisions under the Constitution of India dealing with human and environmental rights** |
| **BO5OPT01** | **Open Course: Agribased Micro Enterprises** | **CO1;Compare the effect of applying synthetic fertilizers and organic manures in the environment.**<br>**CO2;Show the importance of sustainable agriculture and organic farming.**<br>**CO3;Establish an ornamental garden, nursery, mushroom cultivation and tissue culture unit.** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO4;Choose business opportunities in plant sciences.**<br>**CO5:Summarize the requirements and design an outline of the vermin-compost plant.** |
| **SEMESTER VI** | | |
| **BO6CRT09** | **Genetics, Plant Breeding and Horticulture** | **CO1;Describe the chromosomal, extra-chromosomal and sex linked patterns of inheritance in different organisms.**<br>**CO2;Illustrate the concept of population genetics.**<br>**CO3;Apply various methods for crop improvement.**<br>**CO4;Assess the various methods of plant propagation and its importance in human welfare.**<br>**CO5;Develop various methods to improve gardening skill and garden tools.**<br>**CO6;Solve the problems related to Mendelian and non-Mendelian inheritance in organisms** |
| **BO6CRT10** | **Cell and Molecular Biology** | **CO1;Discuss the molecular basis of origin, continuity and complexity of life forms.**<br>**CO2;Associate the different components with the structure of hereditary units**<br>**CO3;Examine the cytological aspects of growth and development**<br>**CO4;Distinguish the various stages of transfer of information gene to proteins**<br>**CO5;Create basic skills to make cytological preparations and identification of various stages of cell division**<br>**CO6;Solve elementary problems in molecular biology** |
| **BO6CRT1** | **Angiosperm Morphology, Taxonomy and Economic Botany** | **CO1;Describe the plant morphology terms for plant recognition and identification**<br>**CO2;Illustrate the methods and principles of classification and nomenclature** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO3;Distinguish the major angiosperm families based on their vegetative & sexual features and economic importance.**<br>**CO4;Chart the different classes of plants according to their economic importance**<br>**CO5;Summarize the role of Ethnobotany, BSI and interdisciplinary approaches to the progression of plant taxonomy.**<br>**CO6;Assemble the morphological and sexual characters of plants through lab and field based studies to identify angiosperms.**<br>**CO7;Combine the basic techniques and prepare herbaria.** |
| **BO6CRT12** | **Biotechnology and Bioinformatics** | **CO1;Discuss the history and current developments in the field of Biotechnology and Bioinformatics**<br>**CO2;Discover the repositories of Biological Data**<br>**CO3;Develop skills in tissue culture.**<br>**CO4;Analyze the different techniques and tools in recombinant DNA technology**<br>**CO5;Predict social issues and concerns related to biotechnological advancements**<br>**CO6;Assess biological data using molecular tools** |
| **BO6PET02** | **Programme elective paper: Plant Genetic Resource Management** | **CO1;Explain the history and evolution of crop plants giving emphasis on their wild relatives.**<br>**CO2;Choose the major threats to genetic resources and their conservation strategies.**<br>**CO3;Interpret the significance of remote sensing to locate the distribution of endangered species.**<br>**CO4;Compare the roles of different governmental and non-governmental organizations in PGR Management.**<br>**CO5;Evaluate the importance of common underutilized plants of Kerala state for future food requirements.** |
| **BO6CRP03** | **Anatomy, Reproductive Botany and Microtechnique; Genetics,** | **CO1 Analyse the stomatal types seen in plants. (Analyse)**<br><br>**CO2** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | **Plant Breeding and Horticulture** | **Distinguish the primary and secondary anatomical specimens of stem, root and leaves of plants. (Evaluate)**<br>**CO3 Compile a hybrid plant by conducting budding or grafting. (Create)** |
| **BO6CRP04** | **Research Methodology, Biophysics and Biostatistics & Angiosperm Morphology, Taxonomy and Economic Botany** | **CO1 :Analyse a given data by calculating the measures of Central tendency. (Analyse)**<br>**CO2 Predict a given plant into an angiosperm family. (Evaluate)**<br>**CO3:Assess a given plant in scientific terms. (Analyse)** |
| **BO6CRP05** | **Plant Physiology and Biochemistry Cell and Molecular Biology** | **CO1:Analyse the process of photosynthesis by conducting different physiological experiments. (Analyse)**<br>**CO2 Evaluate the presence of organic compounds in biological samples. (evaluate)**<br>**CO3 Compare the different stages of meiosis in plants. (analyse)** |
| **BO6CRP06** | **Environmental Science and Human Rights &Biotechnology and Bio-informatics** | **CO1 Deduce the structural properties of a protein using RasMol (analyse)**<br>**CO2 Illustrate the isolation of DNA from plant cells.(Analyse)**<br>**CO3 Assess the water sample for different quality parameters. (evaluate)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **BO6PRT01** | **Investigatory project work** | **CO1 Construct a hypothesis based on observation. (create)**<br><br>**CO2 Design an experiment to verify a hypothesis (create)**<br><br>**CO3 Infer the results and arrive at a conclusion. (create)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **PROGRAMME NAME : B.Sc CHEMISTRY**<br>**PROGRAMME CODE: DMCK-UG-CHE-M1-AD** | | |
| **PROGRAMME SPECIFIC OUTCOME** | | |
| **PSO1** | **Describe the major concepts and theoretical principles in Chemistry (Understand)** | |
| **PSO2** | **PSO2: Develop communication, analytical, creative, and cognitive skills to identify, investigate, formulate and transmit new ideas and concepts with social responsibility and environmental consciousness (Apply)** | |
| **PSO3** | **Analyse the various macro and micro nutrients by identifying the components and physical and chemical aspects of soil (Analyse)** | |
| **PSO4** | **Integrate critical thinking and scientific knowledge to design, perform, record and analyse experiments. (Create)** | |
| **PSO5** | **Solve problems using basic understandings in chemistry, physics, and mathematics(Apply)** | |
| **COURSE OUTCOME** | | |
| **SEMESTER I** | | |
| **EN1CC01** | **FINE-TUNE YOUR ENGLISH** | **CO1: Describe the basic rules of grammar in English for effective communication (Understand)**<br>**CO2; Develop language learning skills like Listening, Speaking, Reading and Writing (Apply)**<br>**CO3: Develop the compositional skills and conversational skills in English in** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **academic, professional and social contexts (Apply)**<br><br>**CO4: Recognize the common and uncommon errors committed by the speakers in daily English conversation (Remember)**<br><br>**CO5: Distinguish between the tense forms of verbs in English and identify the correct usage of tenses in sentences (Understand)**<br><br>**CO6: Explain about the enrichment of English vocabulary through different word formation processes (Apply)** |
| **EN1CC02** | **PEARLS FROM THE DEEP** | **CO1: Distinguish the features of specific literary genres (Understand)**<br><br>**CO2: Identify the prominent writers in Literature, their seminal works and their style of writing (Understand)**<br><br>**CO3: Explain the major themes and critical ideas that appear in the literary texts and their impact on culture and society (Apply)**<br><br>**CO4: Analyze different forms of literature across a wide range of literary age and explain the the socio-political contexts of literary works (Analyze)** |
| **HN1CCT01** | **PROSE AND ONE ACT PLAYS** | **CO1: Explain the content, aspects and issues discussed in the prose & One Act Plays.** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **( II Understanding)**<br>**CO2 : Quote the eminent Hindi Prose & One Act play writers and their works mentionedin the syllabus.( I Remembering)**<br>**CO3: Evaluate a writer and his/her literary works.( IV Analyzing)**<br>**CO4:Deduce a social and moral value based point of views.( IV Analyzing)**<br>**CO5: Develop the skill to use good and correct Language.( VI Creating)** |
| **ML1CCT01** | **KATHAA SAHITHYAM** | CO1:മലയാളകഥയുടെയും നോവലിന്റെയും ചരിത്രം, ഭാവുകത്വപരിണാമം എന്നിവ വിവരിക്കുക. (Understand)<br>CO2:കഥ, നോവൽ എന്നീ സാഹിത്യരൂപങ്ങളുടെ വ്യതിരിക്തത തിരിച്ചറിയുക. (Understand)<br>CO3:ലിംഗസമത്വം, സ്ത്രീശക്തീകരണം, പരിസ്ഥിതി തുടങ്ങിയ ആശയങ്ങളിൽ അറിവ് നിർമ്മിക്കുക. (Apply)<br>CO4:കഥകളിൽ സമകാലിക സാമൂഹികസാഹചര്യങ്ങൾ എപ്രകാരം |

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| | | ആവിഷ്കരിച്ചിരിക്കുന്നു എന്ന് സമർത്ഥിക്കുക. (Apply)<br>CO5:കഥ ,നോവൽ തുടങ്ങിയ സാഹിത്യരൂപങ്ങളിൽ പ്രകടമാകുന്ന സുഖ-ദു:ഖ സമ്മിശ്രമായ ജീവിതാവാസ്ഥകൾ വിവരിക്കുക(Apply) |
| **CH1CRT01** | **GENERAL AND ANALYTICAL CHEMISTRY** | **CO1: Describe the various scientific methods involved in the evolution of modern chemistry and the principles behind various quantitative chemical analyses (Remember)**<br>**CO2: Classify elements based on their physical and chemical properties (Understand)**<br>**CO3: Compare the different chromatographic techniques (Evaluate)**<br>**CO4: Analyse errors statistically involved in measurements (Analyse)** |
| **MM1CMT01** | **PARTIAL DIFFERENTIATION, MATRICES, TRIGONOMETRY AND NUMERICAL METHODS** | **CO 1: Determine the partial derivatives of a function of several variables (Apply)**<br>**CO 2: Solve a system of Linear Homogeneous and non-homogenous equations using matrix transformations and explain Cayley Hamilton theorem. (Apply)**<br>**CO3: Explain circular & hyperbolic functions and their inverses, and** |

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| | | **compute the sum of an infinite series based on C+ i S method. (Apply)**<br>**CO 4: Solve mathematical equations using different numerical methods (Apply)** |
| **PH1CMT02** | **PROPERTIES OF MATTER & THERMODYNAMICS** | **CO1: Establish the relations between different moduli of elasticity to changes in physical dimensions due to external force (Apply)**<br>**CO2: Examine effect of surface tension in behavior of liquids (Apply)**<br>**CO3: Solve problems involving calculation of coefficient of viscosity and flow rate of liquids (Apply)**<br>**CO4: Explain laws of thermodynamics and derive Maxwell's thermodynamic relations** |
| **SEMESTER II** | | |
| **EN2CC03** | **ISSUES THAT MATTER** | **CO1: Identify the major issues of contemporary significance (understand level)**<br>**CO2: Evaluate the issues raised positively and rationally (apply level)**<br>**CO3: Infer the values imparted through the literary works concerned (apply level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO4: Transform them as conscious and concerned human beings (understand level)** |
| **EN2CC04** | **SAVORING THE CLASSICS** | **CO1: Identify the Classics from various lands with a focus on their varied aesthetic dimensions (remember level)**<br><br>**CO2: Understand the features and factors that go into the making of a Classic (understand level)**<br><br>**CO3: Develop an understanding as to how Classic carries the idea of "Time-testedness" and depicts universal human conditions (apply level)**<br><br>**CO4: Enable the learner to reread and reinterpret the classics (analyze level)** |
| **HN2CCT02** | **Short stories and Novel** | **CO1- Define Hindi short story and novel.( 1 Remembering)**<br><br>**CO2- Quote the eminent Hindi short Story and Novel writers.( 1 Remembering)**<br><br>**CO 3- Review the content of the stories and novel discussed in the syllabus.(II understanding)** |

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| | | **CO4- Sketch the peculiarities of characters in the stories and novel.( III Applying)**<br>**CO5- Explain the issues and moral values discussed in the text .( III Applying)** |
| **ML2CCT02-** | കവിത | CO1: മലയാള കവിതയുടെ ചരിത്രം , ഭാവുകത്വപരിണാമം എന്നിവ<br>വിവരിക്കുക (Understand)<br>CO2: കാല്പനിക ,ആധുനിക ,ഉത്തരാധുനിക പ്രസ്ഥാനങ്ങൾ മലയാള കവിതയിൽ വരുത്തിയ<br>മാറ്റങ്ങൾ തിരിച്ചറിയുക (Understand)<br>CO3: ലിംഗസമത്വം,സ്ത്രീ സ്വാതന്ത്ര്യം തുടങ്ങിയ ആശയങ്ങളിൽ അറിവ്<br>വികസിപ്പിക്കുക (Apply)<br>CO5: കാലഘട്ടത്തിന്റെ പൊതുപ്രവണതകൾ എഴുത്തിൽ പ്രകടമാകുന്നത്<br>വിവരിക്കുക (Apply) |
| **CH2CRT02** | **THEORETICAL AND INORGANIC CHEMISTRY** | **CO1: Describe properties of s and p block elements(Remember)** |

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| | | **CO2: Examine the applications of d and f block elements(Remember)**<br>**CO3: Develop theoretical knowledge on chemical bonding (Apply)**<br>**CO4: Summarize different models of atoms(Evaluate)** |
| **PH2CMT02** | **Mechanics and Superconductivity (Chemistry)** | **CO1 Understand the basic concepts of Velocity- acceleration- force – acceleration due to gravity and apply these concepts to compound pendulum (symmetric and asymmetric) radius of gyration – Kater's Pendulum- centripetal acceleration and force - centrifugal force**<br>**CO2 Apply the concepts of torque, angular momentum, conservation of angular momentum, Moment of Inertia and parallel and perpendicular axis theorems.**<br>**CO3 Model periodic, simple harmonic and oscillatory motion.**<br>**CO4 Analyse systems executing simple harmonic, damped and forced oscillations.**<br>**CO5 Solve problems using the basic concepts of waves, beats and doppler effect.**<br>**CO6 Explain superconductivity, various associated phenomena like Meissner effect and Josephson effect in superconducting materials and its applications** |



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| **MM2CMT01** | **INTEGRAL CALCULUS AND DIFFERENTIAL EQUATIONS** | **CO 1: Apply integration to find volume and area of surfaces (Apply)**<br>**CO 2: Evaluate double and triple integrals of functions (Analyse)**<br>**CO 3: Explain different types of first order differential equations and their solutions (Understand)**<br>**CO 4: Develop solution for partial differential equations (Create)** |
| **CH2CRP01** | **VOLUMETRIC ANALYSIS** | **CO1: Describe the fundamental concepts in volumetric analysis(Remember)**<br>**CO2: Explain the use of various types of indicators (Understand)**<br>**CO3:Explain the various types of volumetric techniques(Understand)**<br>**CO4:Analyze volumetrically the mass of the given substance (Analyze)** |
| **PH2CMP01** | **Complementary Physics Practical 1** | **CO1: Read and tabulate using basic measuring instruments such as screw gauge, vernier callipers, travelling microscope and spectrometer(Remember)**<br>**CO2: Determine parameters like length, angle, resistance (Apply)**<br>**CO3: Calculate quantities such as acceleration due to gravity, rigidity** |

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| | | **modulus , Moment of inertia, Modulus of elasticity etc (Apply)**<br>**CO4: Estimate the errors in experiments (Analyze)** |
| **SEMESTER 3** | | |
| **EN3CC05** | **LITERATURE AND/AS IDENTITY** | **CO1: Recall the issues of refugee and cross border cases (Remember level)**<br>**CO2: Locate different works they have come across under specific categories of writing (Remember level)**<br>**CO3: Identify the seriousness of the issues encountered by people of different ethnicities apart from race and gender (Remember level)**<br>**CO4: Explain the extent of the sufferings which people have been through in their lifetime (Understand level)** |
| **ML3CCT03** | ദൃശ്യകലാസാഹിത്യം | CO1- കേരളത്തിന്റെ ദൃശ്യകലാപാരമ്പര്യത്തിൽ സംസ്കൃത നാടകങ്ങൾക്കുള്ള പങ്ക് വിവരിക്കുക (Understand) |



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| | | CO2- ആട്ടക്കഥ, തുള്ളൽ തുടങ്ങി ജനകീയമായിരുന്ന ദൃശ്യകലകളുടെ സവിശേഷതകൾ<br>തിരിച്ചറിയുക(Understand)<br>CO3- മലയാള നാടക ചരിത്രത്തിൽ സി ജെ തോമസ്സിനുള്ള സവിശേഷ<br>സ്ഥാനം വിവരിക്കുക (Understand)<br>CO4- കാലഘട്ടത്തിന്റെ കലയെന്ന നിലയിൽ സിനിമയെന്ന മാധ്യമത്തെ വിവരിക്കുക<br>(Apply)<br>CO5-സിനിമാമേഖലയിൽ സംഭവിച്ചു കൊണ്ടിരിക്കുന്ന<br>കാലഘട്ടാനുസൃതമായ മാറ്റങ്ങൾ നിരീക്ഷിക്കുക(Analyze) |
| **HN 3CCT03** | **POETRY, GRAMMAR & TRANSLATION** | **CO1- Quote eminent Hindi poets (I Remembering)**<br>**CO2- Explain the aspects and issues discussed in the poem.(II Understand)**<br>**CO3- Explain different parts of Hindi grammar like parts of speech, (Noun, pronoun , verb**<br>**etc..) verb and its different forms ( tense- present, past and future) etc….**<br>**(II understanding)** |



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| | | **CO4- Develop the skill to use a good and correct language. (VI Creating)**<br><br>**CO5- Translate from English to Hindi and vice versa. (II Understanding)** |
| **CH3CRT03** | **ORGANIC CHEMISTRY – I** | **CO1: Identify the various methods of preparation of benzene, naphthalene and anthracene(Remember)**<br><br>**CO2: Identify the basic concepts of organic chemistry(Understand)**<br><br>**CO3: Explain the various methods of preparation and reactions –nucleophilic substitution, elimination-of aryl halides(Understand)**<br><br>**CO4: Explain the different types of stereoisomerism using examples(Understand)** |
| **MM3CMT01** | **VECTOR CALCULUS, ANALYTIC GEOMETRY AND ABSTRACT ALGEBRA** | **CO 1: Explain vector valued functions (Understand)**<br><br>**CO 2: Evaluate integral of a vector function over a curve (Evaluate)**<br><br>**CO 3: Apply vector integration for finding area and volume of surfaces (Apply)**<br><br>**CO 4: Determine equations of conic sections in polar form (Apply)**<br><br>**CO 5: Explain basic concepts of groups and Homomorphism (Understand)** |



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| **PH3CMT02** | **MODERN PHYSICS AND MAGNETISM** | **CO1 Discuss Bohr atom model, formula for energy, Vector atom model, various quantum numbers and coupling schemes**<br><br>**CO2 Understand the Physics of Nucleus, its properties and concepts such as binding energy, packing fraction, nuclear stability and nuclear forces.**<br><br>**CO3 Evaluate the applications of radioactivity such as carbon dating in the fields of Carbon dating and discuss Artificial radioactivity.**<br><br>**CO4 Discuss black body radiation , Planck's quantum hypothesis, the wave-particle duality through discussing De-Broglie hypothesis, Davisson- Germer experiment, Wave Function and matter wave**<br><br>**CO5 Derive Time dependent and Independent Schrodinger equation and the equations of radioactive decay.**<br><br>**CO6 Discuss Optical , molecular, IR Spectra, Rayleigh scattering, Raman effect and the experimental study and quantum theory of Raman effect.**<br><br>**CO7 Explain the working of p-n junction diode, its forward and reverse bias conditions, V-I characteristics, breakdown mechanism etc and the applications of Diodes through analysing Zener diode and** |

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| | | **various Diode circuits used for rectification**<br><br>**CO8 Explain the working of transistors, its various configurations and their characteristics.**<br><br>**CO9 Understand the para, dia, ferro, antiferro and ferri magnetism, linear and non-linear materials, magnetization in materials and hysteresis** |
| **SEMESTER IV** | | |
| **EN4CC06** | **ILLUMINATIONS** | **CO1: To examine the world personalities and their life sketches (apply level)**<br><br>**CO2: To develop moral perceptions in students (apply level)**<br><br>**CO3: To simulate the students towards various societal issues (apply level)**<br><br>**CO4: To facilitate the students to don the mantle of positivity (create level)**<br><br>**CO5: To explain their affinity towards literature by making them imbibe the aesthetic aspects in stories (analyze level)** |
| **ML4CCT04** | **മലയാളഗദ്യരചനകൾ** | |



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| | | CO1-മലയാള ഗദ്യത്തിന്റെ ശക്തിയും സാധ്യതയും തിരിച്ചറിയുക (Understand)<br>CO2-കാരൂർ നീലകണ്ഠപിള്ളയെന്ന എഴുത്തുകാരന്റെ പ്രധാനകൃതികൾ<br>കഥാസന്ദർഭങ്ങൾ എന്നിവ വിവരിക്കുക (Understand)<br>CO3- മലയാളത്തിലെ പ്രധാന ഓർമ്മക്കുറിപ്പുകൾ/ആത്മകഥകൾ എന്നിവ<br>തിരിച്ചറിയുക (Understand)<br>CO4- സാഹിത്യകൃതിയെ വിമർശനാത്മകമായി വിവരിക്കുക (Apply)<br>CO5- ലേഖന പരിചയത്തിലൂടെ പരിസ്ഥിസംരക്ഷണം പോലുള്ള സാമൂഹിക വിഷയങ്ങൾ<br>വിവരിക്കുക(Apply) . |
| **HN 4CCT04** | **DRAMA & LONG POEM** | **CO1- Define Hindi Drama & Long poem ( Remembering)**<br>**CO2- Quote the eminent Hindi Long poets and their works discussed in the syllabus ( Remembering)** |



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| | | **CO3- Explain the content, aspects and issues discussed. (III Applying)**<br>**CO4- Sketch the peculiarities of characters (III Applying)**<br>**CO5 Deduce social & moral value based point of view.( IV Analysing)** |
| **CH4CRT04** | **ORGANIC CHEMISTRY –II** | **CO1: Describe the mechanism of various chemical reactions (Remember)**<br>**CO2: llustrate mechanisms of various typical reactions executed by aldehydes and ketones(understand)**<br>**CO3:Explain the preparation and reactions of alcohols, phenols, ethers(Understand)**<br>**CO4: Classify various types of acids and differentiate their synthesis, properties and applications(Analyze)** |
| **MM4CMT-01** | **FOURIER SERIES, LAPLACE TRANSFORM AND COMPLEX ANALYSIS** | **CO 1: Explain Fourier series Power series and Legendre polynomials (Understand)**<br>**CO 2: Examine Laplace Transform and its applications (Analyse)**<br>**CO 3: Describe complex numbers , Cauchy Riemann equations and complex functions (Understand)** |

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| | | **CO 4: Evaluate integrals of a complex function along a contour (Analyse)** |
| **PH4CMT02** | **OPTICS AND SOLID STATE PHYSICS** | **CO1 State Principle of Superposition and conditions for maximum and minimum intensities and hence understand coherent sources and interference processes.**<br><br>**CO2 Apply the principles of interference to understand Young's double slit experiment and Newton's rings**<br><br>**CO3 Analyse various types of diffraction such as Fresnel and Fraunhofer diffraction and evaluate the theory of plane transmission grating.**<br><br>**CO4 Evaluate the concept of polarization various methods of achieving it such as reflection, refraction, selective absorption, scattering etc.**<br><br>**CO5 Explain elliptically, circularly polarized light, Quarter and half wave plates**<br><br>**CO6 Analyse the interaction of electromagnetic radiation with matter giving due importance to stimulated absorption, spontaneous emission and stimulated emission and hence derive expressions for Einstein's coefficients**<br><br>**CO7 Discuss Dielectrics, polar and non-polar dielectrics, polarization and sources of polarization, Gauss's law in dielectrics, permittivity, dielectric displacement** |

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| | | **vector, dielectric constant, susceptibility, and ferro-electricity.**<br>**CO8 Explain crystal structure, crystal lattice, unit cell, basis, symmetry operations, lattice constants, crystal planes and miller indices, interplanar spacing, reciprocal lattice, simple cubic, body centred cubic, face centred cubic and hexagonal close packed structures, structures of NaCl and X-ray powder diffraction method.** |
| **CH4CRP02** | **QUALITATIVE ORGANIC ANALYSIS** | **CO1: Explain the reactions of the functional groups (Understand)**<br><br>**CO2: Explain how to prepare solid derivatives of organic compounds(Understand)**<br><br>**CO3: Classify organic compounds by determining physical constants – melting and boiling points(Understand)**<br><br>**CO4:Analyze qualitatively organic compounds(Analyze)** |
| **PH4CMP02** | **Complementary Physics Practical 2** | **CO1: Illustrate experimental methods to determine Modulus of elasticity, dispersive power etc (Apply)**<br>**CO2: Construct electronic/electrical circuits and collect outputs (Apply)**<br>**CO3: Analyze the results for different experimental conditions/parameters (Analyze)**<br>**CO4: Estimate the errors in experiments (Analyze)** |



DEVA MATHA COLLEGE KURAVILANGAD

| SEMESTER V | | |
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| **CH5CRT05** | **Environment, Ecology and Human Rights** | **CO1: Identify the different natural resources, its uses and over exploitation (remember)**<br>**CO2: Discuss the scope and importance of environmental studies for sustainable development (understand)**<br>**CO3: Identify the various transformation processes and the risk factors(Understand)**<br>**CO4: Explain human rights appropriately under different situations(Analyze)**<br>**CO5: Analyse the various environmental issues (analyze)**<br>**CO6:Compare the various types of pollution and to develop the factors to minimize it.** |
| **CH5CRT06** | **ORGANIC CHEMISTRY – III** | **CO1:Identify the various N containing compounds and study about their preparation and synthetic aplications(Remember)**<br>**CO2: Differentiate the various pharmaceutical drugs and their therapeutic applications.(Understand)**<br>**CO3: Describe chemical properties of five membered, six membered & fused heterocycles(Understand)** |



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| | | **CO4: Compare different mechanisms involved in polymerization reaction with examples(Evaluate)** |
| **CH5CRT07** | **PHYSICAL CHEMISTRY – I** | **CO1: Identify the characteristics of the different states of matter (Remember)**<br>**CO2: Explain the basic concepts that are used to describe the structure and physical properties of crystalline substances(Understand)**<br>**CO3: focus on Surface Studies (analyze)**<br>**CO4: Correlate X-ray diffraction information with crystal structure(Analyze)** |
| **CH5CRT08** | **PHYSICAL CHEMISTRY – II** | **CO1:Define the basic concepts of quantum mechanics(Remember)**<br>**CO2: Illustrate an idea about quantum numbers and orbitals(Understand)**<br>**CO3: Analyse various types of operators(Analyze)**<br>**CO4: Differentiate principle behind different types of molecular spectroscopies(Analyze)** |
| **CH5OPT01** | **OPEN COURSE CHEMISTRY IN EVERYDAY LIFE** | **CO1: Recognize the various types of food additives (remember)** |



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| | | **CO2: Explain the role of fertilizers for better crop yield/production and the role of biofertilizers in maintaining soil health(Understand)**<br>**CO3: Differentiate the drugs used in daily life (analyze)**<br>**CO4:Examine the different properties of polymers,soaps and cosmetics (apply)** |
| **SEMESTER VI** | | |
| **CH6CRT09** | **INORGANIC CHEMISTRY** | **CO1: Explain the development of coordination chemistry, isomerism in coordination compounds andthe theories of Werner's and Sidgwick relating to the bonding in coordination compounds.(Understand)**<br>**CO2: Explain how bonding theories like VB theory, CFT, MOT can be applied to describe the different properties of coordination compounds and to describe the spectral and magnetic properties of complexes (Understand).**<br>**CO3: Discuss the preparation and properties of some important boron compounds(Understand)**<br>**CO4:Identify various essential and trace elements in biological systems and describe about various oxygen containing pigments(Understand)** |



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| **CH6CRT10** | **ORGANIC CHEMISTRY - IV** | **CO1:Define the various classes of organic compounds like terpenes, lipids, aminoacids, enzymes etc.(Remember)**<br>**CO2:Identify the various types of vitamins,their sources and deficiency diseases(Understand)**<br>**CO3: Compare the nature of non-covalent interactions which are the basis of the formation of supramolecular compounds(Understand)**<br>**CO4: Analyse spectral data of simple organic molecules and arrive at its structure(Analyze)** |
| **CH6CRT11** | **PHYSICAL CHEMISTRY – III** | **CO1: Describe the basics of chemical kinetics: determination of order, molecularity, and understanding theories of reaction rates(Understand)**<br>**CO2: Differentiate the various thermodynamic properties (understand)** |

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| | | **CO3: Illustrate the concept of acids and bases, and the terms like pKa ,pKb ,pKw ,pH, pOH and to introduce buffer solution and buffer action and hydrolysis of salts(Apply)**<br>**CO4: Predict the feasibility of a chemical reaction (Evaluate)** |
| **CH6CRT12** | **PHYSICAL CHEMISTRY – IV** | **CO1: Describe basic symmetry concepts of chemical molecules and its applications(Remember)**<br>**CO2: Identify the axis, plane, centre and point group of molecules(Remember)**<br>**CO3: Explain electrolytic cell, galvanic cells, concentration cell, and the terms associated with it. And to explain the term corrosion, corrosion monitoring and prevention(Understand)**<br>**CO4:Explain faraday's laws of electrolysis,electrolytic and molar conductivity,Kohlrausch's law and its applications(Understand)** |
| **CH6CRP03** | **QUALITATIVE INORGANIC ANALYSIS** | **CO1: Identify the acid and basic radicals from an inorganic mixture(Remember)**<br>**CO2:Analyze the acid and basic radicals systematically(Analyze)** |

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| | | **CO3:Develop an analysis in a semimicro method(Create)**<br>**CO4: To record the experiment, observation and inferences related to qualitative inorganic analysis systematically** |
| **CH6CRP04** | **ORGANIC PREPARATIONS AND LABORATORY TECHNIQUES** | **CO1: Explain various chromatographic techniques (Understand)**<br>**CO2: Apply distillation techniques for purification of organic compounds and perform**<br>**standard synthesis methods for the preparation of useful compounds (Apply)**<br>**CO3: Develop TLC for the separation and identification of a binary mixture of organic**<br>**compounds and column chromatography for the purification of organic compounds (Create)**<br>**CO4:Prepare Various organic compounds(Create)** |
| **CH6CRP05** | **PHYSICAL CHEMISTRY PRACTICALS** | **CO1: Describe the principles behind the experiments performed in the laboratory(Remember)**<br>**CO2: Calculate the % composition of unknown solution through viscosity** |



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| | | **measurements, transition temperature of given salt hydrate, molecular mass of unknown solute using Rast's method and the % composition of KCl solution using CST measurements(Apply)**<br>**CO3: Interpret the experimental results obtained by conductometer and potentiometer(Apply)**<br>**CO4: Evaluate independently the experimental data required for calculations involved in** |
| **CH6CRP06** | **GRAVIMETRIC ANALYSIS** | **CO1: Describe the method used in the gravimetric procedure (Remember)**<br>**CO2: Estimate the different ions present in a sample gravimetrically (Analyze** |
| **CH6CBT03** | **SOIL AND AGRICULTURAL CHEMISTRY** | **CO1: Identify the the physical properties of the soil(Understand)**<br>**CO2:Identify the various nutrients necessary for plant growth(Understand)**<br>**CO3:Acquire a basic knowledge about various type of fertilizers**<br>**CO4:Desribe the environmental impact of pesticides** |
| **CH6PR01** | **Project & Industrial visit and comprehensive viva-voce** | **CO1:Explain the basic steps in the process of research(Understand)**<br>**CO2:Review literature associated with the work((Understand)**<br>**CO3:Prepare a report on the basis of the work conducted(Create)** |



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| **PROGRAMME NAME : B.Sc PHYSICS**<br>**PROGRAMME CODE: DMCK-UG-PHY-M1-AD** | | |
| **PROGRAMME SPECIFIC OUTCOME** | | |
| **PSO1** | **Discuss the Methodology of Physics and explain the basic principles of general physics. (Understand)** | |
| **PSO2** | **Solve the problems related to general physics using mathematical tools and principles of basic chemistry. (Apply)** | |
| **PSO3** | **Experiment the theories related to basic physics in lab and using computer programming. (Analyze)** | |
| **PSO4** | **Develop communication skill to improve scientific temper and awareness of environment and human values in society (Apply)** | |
| **PSO5** | **Combine fundamental theoretical concepts and extrapolate the available data to propose and validate new concepts. (Create)** | |
| **COURSE OUTCOME** | | |
| **SEMESTER I** | | |
| **EN1CC01** | **FINE-TUNE YOUR ENGLISH** | **CO1: Describe the basic rules of grammar in English for effective communication (understand level)**<br>**CO2: Develop language learning skills like Listening, Speaking, Reading and Writing (apply level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO3: Develop the compositional skills and conversational skills in English in academic, professional and social contexts (apply level)**<br>**CO4: Recognize the common and uncommon errors committed by the speakers in daily English conversation (remember level)**<br>**CO5:Distinguish between the tense forms of verbs in English and identify the correct usage of tenses in sentences (understand level)**<br>**CO6: Explain about the enrichment of English vocabulary through different word formation processes (apply level)** |
| **EN1CC02** | **PEARLS FROM THE DEEP** | **CO1:Distinguish the features of specific literary genres (understand level)**<br>**CO2: Identify the prominent writers in Literature, their seminal works and their style of writing (understand level)**<br>**CO3: Explain the major themes and critical ideas that appear in the literary texts and their impact on culture and society (apply level)**<br>**CO4: Analyze different forms of literature across a wide range of literary age and explain the the** |



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| | | **socio-political contexts of literary works (analyze level)** |
| **HN 1 CCT01** | **PROSE & ONE ACT PLAYS** | **CO1: Explain the content, aspects and issues discussed in the prose & One Act Plays.**<br>**( Understanding)**<br>**CO2 : Quote the eminent Hindi Prose & One Act play writers and their works mentioned in the syllabus.(Remembering)**<br>**CO3: Evaluate a writer and his/her literary works.( Analyzing)**<br>**CO4:Deduce a social and moral value based point of views.( Analyzing)**<br>**CO5: Develop the skill to use good and correct Language.( Creating)** |
| **ML1CCT01** | കഥാസാഹിത്യം | CO1:മലയാളകഥയുടെയും നോവലിന്റെയുംചരിത്രം, ഭാവുകത്വപരിണാമംഎന്നിവ വിവരിക്കുക. (Understand)<br>CO2:കഥ,നോവൽ എന്നീസാഹിത്യരൂപങ്ങളുടെവ്യതിരിക്തതതിരിച്ചറിയുക. (Understand) |



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| | | CO3:ലിംഗസമത്വം,സ്ത്രീശക്തീകരണം, പരിസ്ഥിതിതുടങ്ങിയആശയങ്ങളിൽ അറിവ്നിർമ്മിക്കുക. (Apply)<br>CO4:കഥകളിൽ സമകാലികസാമൂഹികസാഹചര്യങ്ങൾ എപ്രകാരംആവിഷ്കരിച്ചിരിക്കുന്നുഎ ന്ന്സമർത്ഥിക്കുക.(Apply)<br>CO5:കഥ ,നോവൽ തുടങ്ങിയസാഹിത്യരൂപങ്ങളിൽ പ്രകടമാകുന്നസുഖ-ദു:ഖസമ്മിശ്രമായജീവിതാവാസ്ഥകൾ വിവരിക്കുക(Apply)<br>: |
| **PH1CRT01** | **METHODOLOGY AND PERSPECTIVES OF PHYSICS** | **CO1: Summarize the development of scientific concepts with reference to the contributions of various scientists ( level 2- understand )**<br>**CO2: Solve number conversion problems and binary arithmetics (level 3 - Apply)**<br>**CO3: Solve basic level problems in vector calculus (level 3 - Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO4: Estimate the different types of errors and their propagation in computations (level 4 - Analyse)** |
| **MM1CMT01** | **PARTIAL DIFFERENTIATION, MATRICES, TRIGONOMETRY AND NUMERICAL METHODS** | **CO 1: Determine the partial derivatives of a function of several variables (Apply)**<br>**CO 2: Solve a system of Linear Homogeneous and non-homogenous equations using matrix transformations and explain Cayley Hamilton theorem. (Apply)**<br>**CO3: Explain circular & hyperbolic functions and their inverses, and compute the sum of an infinite series based on C+ i S method. (Apply)**<br>**CO 4: Solve mathematical equations using different numerical methods (Apply)** |
| **CH1CMT01** | **BASIC THEORETICAL AND ANALYTICAL CHEMISTRY** | **CO1: Define the principle underlying various analytical methods in chemistry(Remember)**<br>**CO2: Explain principle, types and applications of chromatography(Understand)**<br>**CO3: Explain the fundamental concepts in chemistry(Understand)**<br>**CO4: Develop theoretical knowledge on chemical bonding (Apply)** |
| **PH2CRP01** | **Mechanics and Properties of Matter** | **CO1: Determine the volume of cylinders, spheres, glass plates, radius of curvature of lenses appropriately using Screw gauges, Vernier Calipers and Spherometers**<br>**CO2: Calculate the radius of a capillary tube using travelling microscope and determine the surface tension of a liquid using capillary rise** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **method, viscosity of a liquid using variable pressure head method, density of unknown liquid using Hare's apparatus**<br><br>**CO3: Estimate the Young's Modulus of materials arranged as cantilever using pin and microscope method, Uniform and Non uniform bending method**<br>**CO4: Determine the acceleration due to gravity, radius of gyration and MI using symmetric & asymmetric compound pendulum and Kater's pendulum**<br><br>**CO5: Determine the rigidity modulus (n) and moment of inertia (I) using Torsion Pendulum and Method of equal masses**<br><br>**CO6: Determine the moment of inertia of a Flywheel** |
| **SEMESTER II** | | |
| **EN2CC03** | **ISSUES THAT MATTER** | **CO1: Identify the major issues of contemporary significance (understand level)**<br><br>**CO2: Evaluate the issues raised positively and rationally (apply level)**<br><br>**CO3: Infer the values imparted through the literary works concerned (apply level)**<br><br>**CO4: Transform them as conscious and concerned human beings (understand level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **EN2CC04** | **SAVOURING THE CLASSICS** | **CO1: Identify the Classics from various lands with a focus on their varied aesthetic dimensions (remember level)**<br>**CO2: Understand the features and factors that go into the making of a Classic (understand level)**<br>**CO3: Develop an understanding as to how Classic carries the idea of "Time- testedness" and depicts universal human conditions (apply level)**<br>**CO4: Enable the learner to reread and reinterpret the classics (analyze level)** |
| **HN2CCT02** | **Short stories and Novel** | **CO1- Define Hindi short story and novel.( Remembering)**<br>**CO2- Quote the eminent Hindi short Story and Novel writers.( Remembering)**<br>**CO 3- Review the content of the stories and novel discussed in the syllabus.( understanding)**<br>**CO4- Sketch the peculiarities of characters in the stories and novel.( Applying)**<br>**CO5- Explain the issues and moral values discussed in the text .( Applying)** |
| **ML2CCT02-** | കവിത | CO1: മലയാള കവിതയുടെ ചരിത്രം , ഭാവുകത്വപരിണാമം എന്നിവ<br>വിവരിക്കുക (Understand) |

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| | | CO2: കാല്പനിക ,ആധുനിക ,ഉത്തരാധുനിക പ്രസ്ഥാനങ്ങൾ മലയാള കവിതയിൽ വരുത്തിയ മാറ്റങ്ങൾ തിരിച്ചറിയുക(Understand)<br><br>CO3: ലിംഗസമത്വം,സ്ത്രീ സ്വാതന്ത്ര്യം തുടങ്ങിയ ആശയങ്ങളിൽ അറിവ് വികസിപ്പിക്കുക (Apply)<br>CO5: കാലഘട്ടത്തിന്റെ പൊതുപ്രവണതകൾ എഴുത്തിൽ പ്രകടമാകുന്നത് വിവരിക്കുക<br>(Apply) |
| **PH2CRT02** | **MECHANICS AND PROPERTIES OF MATTER** | **CO1:Recognize wave equation and identify wave parameters (Remember)**<br>**CO2:Categorize different types of Harmonic motion(Analyze)**<br>**CO3:Determine Moment of Inertia of different shaped bodies such as uniform rod, ring, disc, cylinder and sphere (Apply)**<br>**CO4:Examine different types of elasticity (Apply)**<br>**CO5:Describe methods for estimating Viscosity and Surface tension of liquids (Understand)** |

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| **MM2CMT01** | **INTEGRAL CALCULUS AND DIFFERENTIAL EQUATIONS** | **CO 1: Apply integration to find volume and area of surfaces (Apply)**<br>**CO 2: Evaluate double and triple integrals of functions (Analyse)**<br>**CO 3: Explain different types of first order differential equations and their solutions (Understand)**<br>**CO 4: Develop solution for partial differential equations (Create)** |
| **CH2CMT02** | **BASIC ORGANIC CHEMISTRY** | **CO1: Describe the fundamental aspects in Organic Chemistry (understand)**<br>**CO2: Discuss the stereochemistry of organic compounds and its implications(Understand)**<br>**CO3:Explain the various electron displacement effects, reaction intermediates etc.(Understand)**<br>**CO4:Classify the various types of polymers on the basis of their origin.(Analyze)** |
| **CH2CMP01** | **VOLUMETRIC ANALYSIS** | **CO1: Describe the fundamental concepts in volumetric analysis(Remember)**<br>**CO2: Describe the use of various types of indicators (Understand)**<br>**CO3:Explain the various types of volumetric techniques(Understand)**<br>**CO4:Analyze volumetrically the mass of the given substance (Analyze)** |

| SEMESTER III | | |
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| **EN3CC05** | **LITERATURE AND/AS IDENTITY** | **CO1: Recall the issues of refugee and cross border cases (Remember level)**<br>**CO2: Locate different works they have come across under specific categories of writing (Remember level)**<br>**CO3: Identify the seriousness of the issues encountered by people of different ethnicities apart from race and gender (Remember level)**<br>**CO4: Explain the extent of the sufferings which people have been through in their lifetime (Understand level)** |
| **HN 3CCT03** | **POETRY, GRAMMAR & TRANSLATION** | **CO1- Quote eminent Hindi poets (Remembering)**<br>**CO2- Explain the aspects and issues discussed in the poem.(Understand)**<br>**CO3- Explain different parts of Hindi grammar like parts of speech, (Noun, pronoun , verb etc..) verb and its different forms ( tense- present, past and future) etc….(understanding)**<br>**CO4- Develop the skill to use a good and correct language. (Creating)**<br>**CO5- Translate from English to Hindi and vice versa. (Understanding)** |
| **ML3CCT03** | ദൃശ്യകലാസാഹിത്യം | CO1- കേരളത്തിന്റെ ദൃശ്യകലാപാരമ്പര്യത്തിൽ സംസ്കൃത |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | നാടകങ്ങൾക്കുള്ള പങ്ക് വിവരിക്കുക **(Understand)**<br>**CO2-** ആട്ടക്കഥ, തുള്ളൽ തുടങ്ങി ജനകീയമായിരുന്ന ദൃശ്യകലകളുടെ<br>സവിശേഷതകൾ തിരിച്ചറിയുക **(Understand)**<br>**CO3-** മലയാള നാടക ചരിത്രത്തിൽ സി ജെ തോമസ്സിനുള്ള സവിശേഷ<br>സ്ഥാനം വിവരിക്കുക **(Understand)**<br>**CO4-** കാലഘട്ടത്തിന്റെ കലയെന്ന നിലയിൽ സിനിമയെന്ന മാധ്യമത്തെ<br>വിവരിക്കുക **(Apply)**<br>**CO5-**സിനിമാമേഖലയിൽ സംഭവിച്ചു കൊണ്ടിരിക്കുന്ന<br>കാലഘട്ടാനുസൃതമായ മാറ്റങ്ങൾ നിരീക്ഷിക്കുക**(Analyze)** |
| **PH3CRT03** | **OPTICS, LASER AND FIBER OPTICS** | **CO1:Discuss the principle behind interference, diffraction and polarization( Understand)**<br>**CO2:Differentiate these optical phenomena and solve numerical problems (Analyze)**<br>**CO3:Describe the working of different types of lasers (Understand)**<br>**CO4:Explain the basic concepts of fiber optics (Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **MM3CMT01** | **VECTOR CALCULUS, ANALYTIC GEOMETRY AND ABSTRACT ALGEBRA** | **CO 1: Explain vector valued functions (Understand)**<br>**CO 2: Evaluate integral of a vector function over a curve (Evaluate)**<br>**CO 3: Apply vector integration for finding area and volume of surfaces (Apply)**<br>**CO 4: Determine equations of conic sections in polar form (Apply)**<br>**CO 5: Explain basic concepts of groups and Homomorphism (Understand)** |
| **CH3CMT03** | **PHYSICAL CHEMISTRY – I** | **CO1: Discuss the theoretical aspects of liquids and solutions(Understand)**<br>**CO2: Identify the characteristics of the different states of matter (understand)**<br>**CO3: Explain the basic concepts that are used to describe the structure and physical properties of crystalline substances**<br>**CO4: Construct the phase diagram of water and lead-silver system(Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **PH4CRP02** | **Core Practical 02:Optics and Semiconductor Physics** | **CO1: Apply the concepts of interference and diffraction (Determine angle of a prism and refractive index using Spectrometer, Draw the i-d curve using spectrometer-prism, Determine the wavelength of sodium light using Newton's rings arrangement, Determine the diameter of thin wire using air wedge arrangements)**<br><br>**CO2: Develop various semiconductor devices and study their applications .**<br><br>**(Construct a half wave and Full wave rectifier circuit with and without filter and study its ripple factor and load regulation)**<br><br>**CO3: Study the characteristics of zener diode, Transistor and FET**<br><br>**CO4: Understand the working of wave shaping and modulation circuits, amplifiers, Clippers, oscillators, thermistor, voltage multipliers, Op-amps Based adders and subractors**<br><br>**CO5: Determine the refractive index of the given liquid.**<br><br>**CO6: Determine the optical constants of a convex lens using Liquid Lens** |



DEVA MATHA COLLEGE KURAVILANGAD

| SEMESTER IV | | |
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| **EN4CC06** | **ILLUMINATIONS** | **CO1: To examine the world personalities and their life sketches (apply level)**<br>**CO2: To develop moral perceptions in students (apply level)**<br>**CO3: To simulate the students towards various societal issues (apply level)**<br>**CO4: To facilitate the students to don the mantle of positivity (create level)**<br>**CO5: To explain their affinity towards literature by making them imbibe the aesthetic aspects in stories (analyze level)** |
| **ML4CCT04** | മലയാളഗദ്യരചനകൾ | CO1-മലയാള ഗദ്യത്തിന്റെ ശക്തിയും സാധ്യതയും തിരിച്ചറിയുക (Understand)<br>CO2-കാരൂർ നീലകണ്ഠപിള്ളയെന്ന എഴുത്തുകാരന്റെ പ്രധാനകൃതികൾ<br>,കഥാസന്ദർഭങ്ങൾ എന്നിവ വിവരിക്കുക (Understand)<br>CO3- മലയാളത്തിലെ പ്രധാന ഓർമ്മക്കുറിപ്പുകൾ/ആത്മകഥകൾ എന്നിവ<br>തിരിച്ചറിയുക (Understand) |

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| | | CO4- സാഹിത്യകൃതിയെ വിമർശനാത്മകമായി വിവരിക്കുക (Apply)<br>CO5- ലേഖന പരിചയത്തിലൂടെ പരിസ്ഥിസംരക്ഷണം പോലുള്ള സാമൂഹിക<br>വിഷയങ്ങൾ വിവരിക്കുക(Apply) . |
| **HN 4CCT04** | **DRAMA & LONG POEM** | **CO1- Define Hindi Drama & Long poem ( Remembering)**<br>**CO2- Quote the eminent Hindi Long poets and their works discussed in the syllabus (**<br>**Remembering)**<br>**CO3- Explain the content, aspects and issues discussed. (Applying)**<br>**CO4- Sketch the peculiarities of characters (Applying)**<br>**CO5 Deduce social & moral value based point of view.( Analysing)** |
| **PH4CRT04** | **Semiconductor Physics** | **CO1 : Discuss the fundamental concepts of semiconducting diodes and explain various diode parameters (Understand)**<br>**CO2 : Explain different applications of diodes such as rectifiers, filters, voltage regulators, voltage multipliers, clippers and clampers and** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **solve problems associated with such circuits (Apply)**<br>**CO3 : Discuss the concepts of bipolar junction transistors and its configurations (Understand)**<br>**CO4 : solve problems associated with transistor biasing and feedback (Apply)**<br>**CO5 : Analyze different amplifier and oscillator circuits (Analyze)**<br>**CO6 : Discuss the basic principles of FET and operational amplifiers (Understand)**<br>**CO7 : Calculate various parameters associated with modulation (Apply)** |
| **MM4CMT-01** | **FOURIER SERIES, LAPLACE TRANSFORM AND COMPLEX ANALYSIS** | **CO 1: Explain Fourier series Power series and Legendre polynomials (Understand)**<br>**CO 2: Examine Laplace Transform and its applications (Analyse)**<br>**CO 3: Describe complex numbers , Cauchy Riemann equations and complex functions (Understand)**<br>**CO 4: Evaluate integrals of a complex function along a contour (Analyse)** |
| **CH4CMT05** | **PHYSICAL CHEMISTRY – II** | **CO1: Explain the theoretical aspects of photochemistry, chemical kinetics and catalysis(Understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO2: Identify the characteristics of the different states of matter (understand)**<br>**CO3: Compare the basic principles of the major spectroscopes, including ultraviolet & visible spectroscopy, infrared and microwave spectroscopes (Understand)**<br>**CO4: Analyze a nanostructured material of a given species through their modified chemical and physical properties (Analyze)** |
| **CH4CMP02** | **PHYSICAL CHEMISTRY PRACTICALS** | **CO1: Describe the principles behind the experiments performed in the**<br>**laboratory(Remember)**<br>**CO2: Calculate the % composition of unknown solution through viscosity measurements,**<br>**transition temperature of given salt hydrate, molecular mass of unknown solute using**<br>**Rast's method and the % composition of KCl solution using CST measurements(Apply)**<br>**CO3: Interpret the experimental results obtained by conductometer and**<br>**potentiometer(Apply)**<br>**CO4: Evaluate independently the experimental data required for calculations involved in physical chemistry experiments(Analyze)** |
| **SEMESTER V** | | |

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| **PH5CRT05** | **ELECTRICITY AND ELECTRODYNAMICS** | **CO1: Examine behavior of electrical circuits using network theorems (Apply)**<br>**CO2: Explain the phenomenon of thermal electricity (Understanding)**<br>**CO3: Describe behavior of different LCR circuits (Understanding)**<br>**CO4: Calculate static electric and magnetic fields due to different types of charge and current distributions (Analyze)**<br>**CO5: Compute different physical properties of an electromagnetic wave (Apply)** |
| **PH5CRT06** | **CLASSICAL AND QUANTUM MECHANICS** | **CO1: Discuss Lagrange's equation from Hamilton's Principle (Understand)**<br>**CO2: Apply Lagrangian for solving problems such as Harmonic Oscillator, Planetary Motion and Simple Pendulum (Apply)**<br>**CO3: Discuss the limitations of Classical Mechanics and establish the need of Quantum Mechanics (Understand)**<br>**CO4: State the Postulates of Quantum Mechanics (Remember)**<br>**CO5: Deduce Schrodinger equation and Examine Particle in a box problem in the perspective of quantum Mechanics(Analyze)** |
| **PH5CRT07** | **DIGITAL ELECTRONICS AND PROGRAMMING** | **CO1: Classify different number systems and Perform Subtraction using 2's complement and 1's complement method** |

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| | | **CO2: Understand Binary logic and describe various gates such as AND, OR, NOT, NAND, NOR, XOR, XNOR etc.**<br><br>**CO3: Discus Boolean algebra and solve problems related to it**<br><br>**CO4: State Duality theorem and Demorgan's theorem and apply the theorems to obtain complement of Boolean functions**<br><br>**CO5: Explain Half and Full adders & Half and Full Subractor. Discuss Four bit parallel adder, Subtractor, Decoders and Encoders**<br><br>**CO6: Illustrate and explain the working of Sequential logic circuits such Flip-flops (RS, Clocked RS, MSJK, DFF JK), Registers (Buffer and Shift), D/A and A/D converters**<br><br>**CO7: Explain Microprocessor architecture, Various cycle of operations, Intel 8085 Microprocessor Instruction Set, addressing modes.**<br><br>**CO8: Perform data transfer and program 8-bit addition, 8-bit subtraction, 8-bit multiplication using intel 8085**<br><br>**CO9: Understand the basics of C++ programming and explain preprocessor directives, declarations and definitions, manipulators, arithmetic operators and library functions, loops and decisions** |

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| | | **CO10: Design basic programmes using for loop, while loop,do loop and using conditional selection statements.** |
| **PH5CRT08** | **ENVIRONMENTAL PHYSICS AND HUMAN RIGHTS** | **CO1: Develop awareness among the students about the environment and its various problems, the inter-relationship between man and environment and necessity to protect the nature and natural resources (Apply)**<br>**CO2: Explain different types of pollution and their remediation (Understand)**<br>**CO3: Compare and contrast various renewable and non renewable energy sources (Understand)**<br>**CO4: Review different methods of solar energy utilization (Understand)**<br>**CO5: Discuss about Human Rights in national and international perspective (Understand)** |
| **PH5OPT01** | **OPEN COURSE:Our Universe** | **CO1: Describe historical developments of human efforts in understanding the structure of universe (Remember)**<br>**CO2: Explain the origin and future of universe ( Understanding)**<br>**CO3: Practice identification of celestial objects using celestial coordinates (Apply)**<br>**CO4: Describe structure and distribution of various solar system bodies (Remember)**<br>**CO5: Defend science against superstitions associated with celestial phenomena (Evaluate)** |

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| **PH6CRP03** | **Core Practical 03: Electricity, Magnetism and LASER** | **CO1: Construct different electrical circuits to measure various electrical quantities( Apply)**<br>**CO2: Calculate magnetic moment of a magnet and field due to earth's magnetic field by different methods (Apply)**<br>**CO3: Determine very small dimensions using principles of optics and properties of LASER (Apply)** |
| **PH6CRP04** | **Core Practical 04:Digital Electronics** | **CO1: Construct different electronic circuits to verify Boolean algebra (Apply)**<br>**CO2: Construct different combinational and sequential logical circuits (Apply)**<br>**CO3: Construct different electronic circuits to generate non-sinusoidal wave (Apply)** |
| **PH6CRP05** | **Core Practical 05: Thermal Physics, Spectroscopy and C++ Programming** | **CO1 : Understand various phenomena in thermodynamics by doing experiments (Understand)**<br>**CO2 : Evaluate various parameters of prism and grating using optical phenomena such as reflection, refraction, diffraction etc. (Apply)**<br>**CO3 : Learn the C++ programming concepts and acquire the skills to write, compile and debug programs in C++ (Apply)** |
| **PH6CRP06** | **Core Practical 06: Acoustics, Photonics and Advanced Semiconductor Physics** | **CO1: Construct experiments to verify laws in acoustics and to find various constants related. (Apply)** |

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| | | **CO2: Demonstrate various experiments establishing quantum nature of light (Apply)**<br>**CO3: Demonstrate various applications of different ICs (Apply)** |
| | **SEMESTER VI** | |
| **PH6CRT09** | **Thermal and Statistical Physics** | **CO1 : Discuss the basic idea on the laws of thermodynamics and its consequences (Understand)**<br>**CO2 : Solve problems in thermodynamic systems such as gases, heat engines, refrigerators etc. (Apply)**<br>**CO3 : Analyze the relationship among various thermodynamic functions (Analyze)**<br>**CO4 : Discuss the basic concepts of conduction and radiation and its applications (Understand)**<br>**CO5 : Describe the fundamental concepts in statistical mechanics (Understand)**<br>**CO6 : Derive various statistical distribution functions (Analyze)** |
| **PH6CRT10** | **RELATIVITY AND SPECTROSCOPY** | **CO1:Outline the basic concepts of Special and General theory of relativity (Understand)**<br>**CO2:Use Lorentz transformation to concepts of Length contraction, time dialation and relativistic mass(Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO3:Discuss Vector atom Model (Analyze)**<br>**CO4:Explain the principles of Rotational,Vibrational and Raman Spectroscopy (Analyze)**<br>**CO5:Discuss the principles of NMR and ESR spectroscopy (Apply)** |
| **PH6CRT09** | **Nuclear, Particle Physics and Astrophysics** | **CO1 : Acquire a basic idea on nuclear structure and describe different nuclear models (Understand)**<br>**CO2 : Analyze the working of various nuclear radiation detectors and particle accelerators. (Analyze)**<br>**CO3 : Acquire a basic idea on radioactive decay, nuclear fission and fusion (Understand)**<br>**CO4 : Solve problems associated with nuclear transformations (Apply)**<br>**CO5 : Understand the basic forces in nature and classification of particles and study in detail conservation laws and quark models (Understand)**<br>**CO6 : Acquire a basic idea about the evolution of stars (Understand)** |
| **PH6CRT12** | **SOLID STATE PHYSICS** | **CO1: Classify crystalline solids to different structural types ( Understanding)**<br>**CO2: Calculate lattice parameters of different crystalline solids (Understanding)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO3: Establish the relation between electronic structure and conductivity of solids using quantum mechanics ( Apply)**<br>**CO4: Describe the origin of electric and magnetic properties of solids (Understanding)**<br>**CO5: Explain the superconductivity and various phenomenon associated with it. (Understanding)** |
| **PH6CBT05** | **Astronomy and Astrophysics** | **CO1: Compare different types of telescopes used in astronomical observations (level 2 - Understanding)**<br>**CO2: Practice to locate a celestial objects from its coordinates (level 3 - Apply)**<br>**CO3: Describe structure and properties of Milky Way, Sun and solar system bodies (level 1 - Remember)**<br>**CO4: Explain stellar birth and evolution (level 2 - Understanding)**<br>**CO5: Describe the origin and future of the universe. (Level 2 - Understanding)** |
| **PH6PRO01** | **PROJECT** | **CO1- Apply the principles taught in the core subjects of the programme to create a prototype or synthesize materials and systematically investigate the properties or the process so as to suggest real life applications (Create)**<br>**CO2- Defend the topic selected for investigation by answering to queries related to the project (Evaluate)** |

| **PROGRAMME NAME: B A MALAYALAM**<br>**PROGRAMME CODE: DMCK-UG-MAL-M1-AD** | | |
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| **PROGRAMME SPECIFIC OUTCOME** | | |
| **PSO1** | ഭാഷയുടെ ഉത്ഭവം, വികാസം, ശരിയായ പ്രയോഗം എന്നിവ വിവരിക്കൽ. **(Understand)** | |
| **PSO2** | മലയാളം, ഇംഗ്ലീഷ്, സംസ്കൃതം എന്നീ വിവിധഭാഷകളിലെ വ്യത്യസ്തസാഹിത്യരൂപങ്ങൾ വിസ്തരിച്ച് | |
| **PSO3** | സമകാലികകാലഘട്ടത്തിന്റെ വിജ്ഞാനശാഖകളെ ആവിഷ്കരിക്കുംവിധം ഭാഷയിൽ പരിശീലിക്കുക. **(Apply)** | |
| **PSO4** | സാഹിത്യരചനകളിലെ ഗുണദോഷങ്ങൾ തരംതിരിക്കുക. **(Analyze)** | |
| **PSO5** | കഥ, കവിത, നോവൽ തുടങ്ങിയ മേഖലകളിൽ സർഗാത്മകരചനകൾ തയ്യാറാക്കുക. **(Create)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER I** | | |
| **EN1CC01** | **FINE-TUNE YOUR ENGLISH** | **CO1: Describe the basic rules of grammar in English for effective communication (understand level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO2: Develop language learning skills like Listening, Speaking, Reading and Writing (apply level)**<br>**CO3: Develop the compositional skills and conversational skills in English in academic, professional and social contexts (apply level)**<br>**CO4: Recognize the common and uncommon errors committed by the speakers in daily English conversation (remember level)**<br>**CO5:Distinguish between the tense forms of verbs in English and identify the correct usage of tenses in sentences (understand level)**<br>**CO6: Explain about the enrichment of English vocabulary through different word formation processes (apply level)** |
| **EN1CC02** | **PEARLS FROM THE DEEP** | **CO1:Distinguish the features of specific literary genres (understand level)**<br>**CO2: Identify the prominent writers in Literature, their seminal** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **works and their style of writing (understand level)**<br>**CO3: Explain the major themes and critical ideas that appear in the literary texts and their impact on culture and society (apply level)**<br>**CO4: Analyze different forms of literature across a wide range of literary age and explain the the socio-political contexts of literary works (analyze level)** |
| **ML1CCT01** | കഥാസാഹിത്യം | CO1:മലയാളകഥയുടെയും നോവലിന്റെയും ചരിത്രം, ഭാവുകത്വപരിണാമം എന്നിവ വിവരിക്കുക.<br>**(Understand)**<br>CO2:കഥ, നോവൽ എന്നീ സാഹിത്യരൂപങ്ങളുടെ വ്യതിരിക്തത തിരിച്ചറിയുക.<br>**(Understand)**<br>CO3:ലിംഗസമത്വം, സ്ത്രീശക്തീകരണം, പരിസ്ഥിതി തുടങ്ങിയ |

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| | | ആശയങ്ങളിൽ അറിവ് നിർമ്മിക്കുക. **(Apply)**<br>CO4:കഥകളിൽ സമകാലിക സാമൂഹികസാഹചര്യങ്ങൾ എപ്രകാരം ആവിഷ്കരിച്ചിരിക്കുന്നു എന്ന് സമർത്ഥിക്കുക. **(Apply)**<br>CO5:കഥ ,നോവൽ തുടങ്ങിയ സാഹിത്യരൂപങ്ങളിൽ പ്രകടമാകുന്ന സുഖ-ദു:ഖ സമ്മിശ്രമായ ജീവിതാവാസ്ഥകൾ വിവരിക്കുക**(Apply)** |
| **ML1CMT01** | മലയാളപഠനത്തിന്റെ രീതിശാസ്ത്രം | CO1:മലയാളഭാഷാപഠനത്തിന്റെയും സാഹിത്യപഠനത്തിന്റെയും വ്യത്യസ്തരീതിശാസ്ത്രങ്ങൾ തിരിച്ചറിയുക. **(Understand)**<br>CO2:വ്യാകരണം, ഭാഷാശാസ്ത്രം, ഭാഷാചരിത്രം, നിഘണ്ടു എന്നീ വിജ്ഞാനശാഖകൾ മലയാളഭാഷയുടെ |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | വളർച്ചയിൽ ചെലുത്തിയപങ്ക് വേർതിരിച്ചറിയുക. **(Understand)**<br>**CO3:**സാഹിത്യ ചരിത്രം, സാഹിത്യനിരൂപണം എന്നിവ മലയാളസാഹിത്യത്തെ അടയാളപ്പെടുത്തിയത് ഏപ്രകാരമെന്ന് വിവരിക്കുക. **(Apply)**<br>**CO4:** സംസ്കാരപഠനം, വിവർത്തനപഠനം, സാഹിത്യ ചരിത്രവിജ്ഞാനീയം തുടങ്ങിയ ഭാഷാസാഹിത്യ പഠനത്തിലെ പുതുപ്രവണതകൾ അപഗ്രഥിക്കുക. **(Analyze)** |
| **ML1CMTO2** | നാടകവും സിനിമയും | **CO1:**പാശ്ചാത്യവും പൗരസ്ത്യവുമായ നാടകസങ്കല്പങ്ങളെക്കുറിച്ചുള്ള പഠനത്തിലൂടെ |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | ലോകനാടകചരിത്രം വിവരിക്കുക. **(Understand)**<br>**CO2:**മലയാളനാടകവേദിയുടെ പരിണാമത്തിന്റെ വിവിധ ഘട്ടങ്ങൾ മനസിലാക്കി അവ സാമൂഹികജീവിതത്തിൽ ചെലുത്തിയ സ്വാധീനംതിരിച്ചറിയുക. **(Understand)**<br>**CO3:**സിനിമയുടെ ഉത്ഭവം, വികാസം, അതിന്റെ ജനപ്രിയസ്വാഭാവം എന്നിവ അപഗ്രഥിക്കുക. **((Apply)**<br>**CO4:**നാടകം, സിനിമ എന്നീ ജനകീയകലകളുമായി പരിചയപ്പെടുന്നതുവഴി ആ മേഖലയിൽ താത്പര്യം കണ്ടെത്തുക. **(Apply)** |
| **ML1CRT01** | നവീനകവിത | **CO1:** മലയാളകവിതയിലെ വ്യത്യസ്തഭാവുകത്വപരി |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | ണാമങ്ങൾ തിരിച്ചറിയുക. **(Remember)**<br>CO2:കവിത അനുവാചകന് പകർന്നുനൽകുന്ന സാമൂഹികവും രാഷ്ട്രീയവുമായ നിലപാടുകൾ വിവരിക്കുക. **(Understand)**<br>CO3:കവിതകളിലൂടെ ആവിഷ്കരിക്കപ്പെടുന്ന സ്ത്രീസ്വത്വപരവും പാരിസ്ഥിതികവുമായ പ്രശ്നങ്ങൾ വിശദീകരിക്കുക. **(Understand)**<br>CO4:കാവ്യഭാഷയിലും ആവിഷ്കാരത്തിലും കാലാനുസൃതമായി വന്നുചേർന്ന പരിണതികൾ സമർത്ഥിക്കുക. **(Apply)**<br>CO5: കവിതയിലെ വ്യത്യസ്ത ആശയധാരകൾ കണ്ടെത്തി |

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| | | മൂല്യനിർണയം നടത്തുക. **(Evaluate)**<br>CO6:സർഗാത്മകരചന, കാവ്യാലാപനം എന്നിവയ്ക്കുള്ള കഴിവുകൾ പരീക്ഷിക്കുക.. **(Evaluate)** |
| **SEMESTER II** | | |
| **EN2CC03** | **ISSUES THAT MATTER** | **CO1: Identify the major issues of contemporary significance (understand level)**<br>**CO2: Evaluate the issues raised positively and rationally (apply level)**<br>**CO3: Infer the values imparted through the literary works concerned (apply level)**<br>**CO4: Transform them as conscious and concerned human beings (understand level)** |
| **EN2CC04** | **SAVORING THE CLASSICS** | **CO1: Identify the Classics from various lands with a focus on their** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **varied aesthetic dimensions (remember level)**<br><br>**CO2: Understand the features and factors that go into the making of a Classic (understand level)**<br><br>**CO3: Develop an understanding as to how Classic carries the idea of "Time-testedness" and depicts universal human conditions (apply level)**<br><br>**CO4: Enable the learner to reread and reinterpret the classics (analyze level)** |
| **ML2CCT02** | കവിത | CO1: മലയാള കവിതയുടെ ചരിത്രം , ഭാവുകത്വപരിണാമം എന്നിവ<br>വിവരിക്കുക (Understand)<br><br>CO2: കാല്പനിക ,ആധുനിക ,ഉത്തരാധുനിക പ്രസ്ഥാനങ്ങൾ മലയാള കവിതയിൽ വരുത്തിയ |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | മാറ്റങ്ങൾ തിരിച്ചറിയുക(Understand)<br>CO3: ലിംഗസമത്വം,സ്ത്രീ സ്വാതന്ത്ര്യം തുടങ്ങിയ ആശയങ്ങളിൽ അറിവ് വികസിപ്പിക്കുക (Apply)<br>CO5: കാലഘട്ടത്തിന്റെ പൊതുപ്രവണതകൾ എഴുത്തിൽ പ്രകടമാകുന്നത് വിവരിക്കുക<br>(Apply) |
| **ML2CMT03** | ആധുനിക ലോകകവിത | CO1: വിവിധ രാജ്യങ്ങളിലെ ഭാഷ, സാഹിത്യം, സൗന്ദര്യ ശാസ്ത്രം എന്നിവ തിരിച്ചറിയുക<br>(Understand)<br>CO2: ആധുനികതപ്രസ്ഥാനം വിവിധ ഭാഷകളിൽ പ്രവർത്തിച്ചതെങ്ങനെയെന്ന് വേർതിരിച്ചറിയുക(Understand)<br>CO3: യൂറോപ്പ് ,വടക്കേ അമേരിക്ക , തെക്കേ അമേരിക്ക ,ഏഷ്യ, |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | ഓസ്ട്രേലിയ ആഫ്രിക്ക തുടങ്ങിയ<br>, ഭൂഖണ്ഡങ്ങളിലെ കവിതകൾ,എഴുത്തുകാർ<br>എന്നിവയെക്കുറിച്ചും അവരുടെ സാഹിത്യ രചനകളെ സ്വാധീനിച്ച<br>ഘടകങ്ങളെക്കുറിച്ചും വിവരിക്കുക **(Apply)**<br><br>**CO4:** മലയാള കവിതയിൽ മറ്റു നാടുകളിലെ കവിതകളുടെയും<br>കാവ്യപദ്ധതികളുടെയും സ്വാധീനം വിവരിക്കുക**(Apply)** |
| **ML2CMT04** | ഫോക് ലോർ വിജ്ഞാനം | **CO1:** ഫോക് ലോർ പഠനം എന്ന വിജ്ഞാനമേഖലയുടെ ഉദയം ,നിർവചനങ്ങൾ ഫോക് ലോർ<br>ധർമ്മങ്ങൾ എന്നിവ വിവരിക്കുക **(Understand)**<br>**CO2:** വ്യത്യസ്തങ്ങളായ ഫോക് ലോർ ജനുസ്സുകളെ തിരിച്ചറിയുക**(Understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO3: വിവിധങ്ങളായ ഫോക് ലോർ മാതൃകകൾ വേർതിരിച്ചറിയുക(Understand)<br>CO4: ഫോക് ലോർ പഠനത്തിലെ സൈദ്ധാന്തിക സമീക്ഷകൾ, വ്യത്യസ്ത രീതിശാസ്ത്രങ്ങൾ<br>എന്നിവ വിവരിക്കുക(Apply) |
| **ML2CRT02** | മലയാളകവിത എഴുത്തച്ഛൻ മുതൽ കവിത്രയം വരെ | CO1: മലയാള കവിതയിൽ എഴുത്തച്ഛൻ, രാമപുരത്തു വാര്യർ തുടങ്ങിയവർ വരുത്തിയ<br>ഭാവുകത്വപരമായ മാറ്റങ്ങൾ വിവരിക്കുക(Understand)<br>CO2: കൊടുങ്ങല്ലൂർ കളരി വെണ്മണി പ്രസ്ഥാനം പച്ചമലയാള പ്രസ്ഥാനം<br>തുടങ്ങിയ പ്രസ്ഥാനങ്ങൾ മലയാള കവിതയിൽ ചെലുത്തിയ സ്വാധീനം<br>അപഗ്രഥിക്കുക (Apply)<br>CO3:<br>കാല്പനികപ്രസ്ഥാനത്തി |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | ന്റെ ഉദയവും വികാസവും വിവരിക്കുക(Apply)<br>CO4: രാഷ്ട്രീയ സാമൂഹിക ചലനങ്ങളുടെ സ്വാധീനം കവിതയിൽ പ്രകടമാകുന്നത്<br>വിലയിരുത്തുക (Analyze)<br>CO5: മദ്ധ്യകാലം മുതൽ കവിത്രയം വരെയുള്ള കവിതാസാഹിത്യ<br>പഠനത്തിലൂടെ മലയാള കവിതയിൽ സംഭവിച്ച സംക്രമണങ്ങൾ<br>വിവരിക്കുക (Analyze) |
| **SEMESTER III** | | |
| **EN3CC05** | **LITERATURE AND/AS IDENTITY** | **CO1: Recall the issues of refugee and cross border cases (Remember level)**<br>**CO2: Locate different works they have come across under specific categories of writing (Remember level)**<br>**CO3: Identify the seriousness of the issues encountered by people of** |

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| | | **different ethnicities apart from race and gender (Remember level)**<br><br>**CO4: Explain the extent of the sufferings which people have been through in their lifetime (Understand level)** |
| **ML3CCT03** | ദൃശ്യകലാസാഹിത്യം | CO1- കേരളത്തിന്റെ ദൃശ്യകലാപാരമ്പര്യത്തിൽ സംസ്കൃത<br><br>നാടകങ്ങൾക്കുള്ള പങ്ക് വിവരിക്കുക **(Understand)**<br><br>CO2- ആട്ടക്കഥ, തുള്ളൽ തുടങ്ങി ജനകീയമായിരുന്ന ദൃശ്യകലകളുടെ<br><br>സവിശേഷതകൾ തിരിച്ചറിയുക**(Understand)**<br><br>CO3- മലയാള നാടക ചരിത്രത്തിൽ സി ജെ തോമസ്സിനുള്ള സവിശേഷ<br><br>സ്ഥാനം വിവരിക്കുക **(Understand)**<br><br>CO4- കാലഘട്ടത്തിന്റെ കലയെന്ന നിലയിൽ സിനിമയെന്ന മാധ്യമത്തെ വിവരിക്കുക |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | (Apply)<br>CO5-സിനിമാമേഖലയിൽ സംഭവിച്ചു കൊണ്ടിരിക്കുന്ന<br>കാലഘട്ടാനുസൃതമായ മാറ്റങ്ങൾ നിരീക്ഷിക്കുക(Analyze) |
| **ML3CMT05** | ഒരു എഴുത്തുകാരൻ / എഴുത്തുകാരി - മാധവിക്കുട്ടി | CO1- മലയാള സാഹിത്യത്തിൽ തുറന്നെഴുത്തിന്റെ വക്താവായി<br>മാധവിക്കുട്ടിയെന്ന എഴുത്തുകാരിയെ തിരിച്ചറിയുക (Understand)<br>CO2- കഥ,കവിത,നോവൽ ,നോവലൈറ്റ് തുടങ്ങിയ സാഹിത്യവിഭാഗങ്ങളിൽ<br>മാധവിക്കുട്ടി പുലർത്തിയിരുന്ന വ്യതിരിക്ത സ്വഭാവം<br>വിവരിക്കുക(Understand)<br>CO3- പ്രണയം,കുടുംബം, സ്വാതന്ത്ര്യം തുടങ്ങിയ വിഷയങ്ങളിൽ മാധവിക്കുട്ടി<br>സ്വീകരിച്ച നിലപാടുകൾ വിശദീകരിക്കുക (Apply) |

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| | | CO4- കാല്പനികതയും കാല്പനിക ഭാവവും കൊണ്ട് സങ്കീർണ്ണമായ അവരുടെ<br><br>ആഖ്യാനരീതി വിവരിക്കുക (Apply) |
| **SC3CMT01** | സംസ്കൃതം -Poetry,Rhetorics Basics of Grammar | CO1-സംസ്കൃത അക്ഷരങ്ങൾ കോശ ഗ്രന്ഥങ്ങൾ എന്നിവ തിരിച്ചറിയുക (Understand)<br><br>CO2-സംസ്കൃത ശബ്ദങ്ങൾ ,കാലങ്ങൾ എന്നിവ വിവരിക്കുക(Understand)<br><br>CO3-സംസ്കൃതത്തിലെ മഹാകാവ്യങ്ങളെക്കുറിച്ച് വിശദീകരിക്കുക (Apply)<br><br>CO4-സംസ്കൃത സാഹിത്യ സിദ്ധാന്തങ്ങൾ വ്യാഖ്യാനിക്കുക (Apply)<br><br>CO5-ലിംഗ പ്രത്യയങ്ങളുടെ പ്രയോഗം വിവരിക്കുക (Apply) |
| **ML3CRT03** | കേരളസംസ്കാരം - പൂർവ്വഘട്ടം | CO1- കേരളം എന്ന സാംസ്കാരികമേഖലയുടെ ഭൂമിശാസ്ത്രപരമായ<br><br>സവിശേഷതകൾ തിരിച്ചറിയുക(Understand) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO2- കാർഷികവത്കരണം, ആര്യാഗമനം ഭക്തിപ്രസ്ഥാനം തുടങ്ങിയ സാംസ്കാരികമായ മാറ്റങ്ങൾ തിരിച്ചറിയുക(Understand)<br>CO3- ജന്മിത്തം ,മരുമക്കത്തായം എന്നിവയുടെ ഉദയവും വികാസവും വിവരിക്കുക(Apply)<br>CO4- പാശ്ചാത്യ അധിനിവേശത്തിന്റെ ഗുണദോഷങ്ങൾ വിവരിക്കുക(Analyze)<br>CO5- ബ്രിട്ടീഷ് അധിനിവേശത്തിനെതിരായ് ഉയർന്നു വന്ന പ്രാദേശികമായ ചെറുത്തു നില്പുകൾ വിശദീകരിക്കുക(Apply)<br>CO6- ഭാഷാ, സാഹിത്യ മേഖലയിലുണ്ടായ പരിവർത്തനം അപഗ്രഥിക്കുക(Apply) |



DEVA MATHA COLLEGE KURAVILANGAD

| SEMESTER IV | | |
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| **EN4CC06** | **ILLUMINATIONS** | **CO1: To examine the world personalities and their life sketches (apply level)**<br>**CO2: To develop moral perceptions in students (apply level)**<br>**CO3: To simulate the students towards various societal issues (apply level)**<br>**CO4: To facilitate the students to don the mantle of positivity (create level)**<br>**CO5: To explain their affinity towards literature by making them imbibe the aesthetic aspects in stories (analyze level)** |
| **ML4CCT04** | മലയാളഗദ്യരചനകൾ | CO1-മലയാള ഗദ്യത്തിന്റെ ശക്തിയും സാധ്യതയും തിരിച്ചറിയുക (Understand)<br>CO2-കാരൂർ നീലകണ്ഠപിള്ളയെന്ന എഴുത്തുകാരന്റെ പ്രധാനകൃതികൾ |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | ,കഥാസന്ദർഭങ്ങൾ എന്നിവ വിവരിക്കുക **(Understand)**<br><br>**CO3**- മലയാളത്തിലെ പ്രധാന ഓർമ്മക്കുറിപ്പുകൾ/ആത്മകഥകൾ എന്നിവ<br><br>തിരിച്ചറിയുക **(Understand)**<br><br>**CO4**- സാഹിത്യകൃതിയെ വിമർശനാത്മകമായി വിവരിക്കുക **(Apply)**<br><br>**CO5**- ലേഖന പരിചയത്തിലൂടെ പരിസ്ഥിസംരക്ഷണം പോലുള്ള സാമൂഹിക വിഷയങ്ങൾ<br><br>വിവരിക്കുക**(Apply)** |
| **ML4CMT06** | ആധുനിക മലയാളഭാഷ | **CO1**- മലയാളഭാഷയുടെ പുരോഗതിയിൽ പാശ്ചാത്യ മിഷണറിമാരുടെ പങ്ക്<br><br>വിവരിക്കുക **(Understand)**<br><br>**CO2**- നോവൽ, കഥ പോലുള്ള പുതിയ ആഖ്യാന രൂപങ്ങളുടെ കടന്നുവരവ് അപഗ്രഥന<br><br>വിധേയമാക്കുക**(Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO3- വിജ്ഞാനഭാഷയെന്ന നിലയിൽ മലയാളത്തിന്റെ വളർച്ച വിലയിരുത്തുക<br>**(Apply)**<br>CO4- ഡിജിറ്റൽ സാങ്കേതിക വിദ്യയുടെ കാലത്ത് മലയാളഭാഷക്കുണ്ടായ<br>മാറ്റങ്ങൾ വിലയിരുത്തുക<br>**(Analyze)** |
| **ML4CRT04** | കേരളസംസ്കാരം - ഉത്തരഘട്ടം | CO1- ആധുനിക വിജ്ഞാനം കേരളസമൂഹത്തിൽ<br>വ്യാപിക്കുന്നതെങ്ങനെയെല്ലാമെന്ന് വിശദീകരിക്കുക**(Understand)**<br>CO2- കേരളനവോത്ഥാനത്തിന്റെ സാമൂഹികാടിത്തറ വിവരിക്കുക **(Apply)**<br>CO3- കേരളത്തിലുണ്ടായ പ്രധാന ജന്മി/സാമ്രാജ്യത്വവിരുദ്ധ മുന്നേറ്റങ്ങൾ വിശദീകരിക്കുക<br>**(Apply)**<br>CO4- കേരളസംസ്ഥാനത്തിന്റെ |

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| | | രൂപീകരണവുമായി ബന്ധപ്പെട്ട പ്രധാന സംഭവങ്ങൾ<br>വിവരിക്കുക(Analyze)<br>CO5- ഒന്നാം മന്ത്രിസഭ,കാർഷിക ബില്ല് ,വിമോചന സമരം തുടങ്ങിയവ വിശദീകരിക്കുക<br>(Analyze)<br>CO6- വിവിധ വൈജ്ഞാനിക സംഘടനകളുടെ രൂപീകരണം ഉത്തരാധുനിക<br>സംസ്കാരത്തിന്റെ കടന്നു വരവ് എന്നിവ അപഗ്രഥന<br>വിധേയമാക്കുക(Apply) |
| **SC3CMT02** | സംസ്കൃതം-Prose ,Vrutha,Alankara ,Theories of Poetics & Grammar | CO1-ഭാരതീയ ഇതിഹാസങ്ങൾ തിരിച്ചറിയുക (Understand)<br>CO2-ഭാരതീയ കാവ്യമീമാംസയുടെ അടിസ്ഥാന തത്വങ്ങൾ വിവരിക്കുക(Understand)<br>CO3-സംസ്കൃത സാഹിത്യത്തിൽ |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | അലങ്കാരങ്ങളുടെ പങ്ക് വ്യാഖ്യാനിക്കുക(Apply)<br>CO4-വിവിധ വൃത്തങ്ങൾ അവയുടെ പ്രാധാന്യം എന്നിവ വിവരിക്കുക(Apply)<br>CO5-സംസ്കൃത വ്യാകരണ നിയമങ്ങൾ തിരിച്ചറിയുക (Analyze)<br>CO6-കാരകപ്രകാരണങ്ങൾ വിവരിക്കുക (Analyze) |
| **SEMESTER V** | | |
| **ML5CRT05** | പരിസ്ഥിതിവിജ്ഞാനവും മനുഷ്യാവകാശപഠനവും | CO1-പരിസ്ഥിതി പഠനത്തിന്റെ ബഹുവിജ്ഞാനീയ സ്വഭാവം തിരിച്ചറിയുക<br>(Understand)<br>CO2- മനുഷ്യാവകാശ സംബന്ധിയായ സ്ഥാപനങ്ങൾ ,അവയുടെ പ്രവർത്തനം എന്നിവ<br>തിരിച്ചറിയുക (Understand<br>CO3- ജൈവ വൈവിധ്യ സംരക്ഷണത്തിന്റെ പ്രാധാന്യം വിവരിക്കുക (Apply) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO4- പരിസ്ഥിതി മലിനീകരണത്തിന്റെ ദൂഷ്യവശങ്ങളും<br>മാലിന്യനിവാരണത്തിൽ വ്യക്തികളുടെ പങ്കും വിശദീകരിക്കുക (Apply)<br>CO5- പരിസ്ഥിതി സംരക്ഷണത്തിന്റെ ആവശ്യകത തിരിച്ചറിഞ്ഞ് തദനുസൃതമായ് ജീവിതരീതികൾ പരിഷ്കരിക്കുക(Create) |
| **ML5CRT06** | സാഹിത്യമീമാംസ | CO1- ഭാരതീയവും ഭാരതീയേതരവുമായ സൗന്ദര്യദർശനങ്ങൾ സാഹിത്യസിദ്ധാന്തങ്ങൾ എന്നിവ വിവരിക്കുക(Understand)<br>CO2- വിവിധ അലങ്കാരങ്ങൾ ,വൃത്തങ്ങൾ എന്നിവയുടെ ലക്ഷണം ,പ്രയോഗം തുടങ്ങിയവ വിശദീകരിക്കുക(Understand)<br>CO3- നാട്യശാസ്ത്രത്തിലെ രസവിചാരം വിവരിക്കുക(Understand) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO4- പ്രധാനപ്പെട്ട കാവ്യദർശനങ്ങൾ അപഗ്രഥനവിധേയമാക്കുക (Apply)<br><br>CO5- ആധുനികത ,അസ്തിത്വ ദർശനം എന്നീ സങ്കൽപ്പങ്ങൾ വിവരിക്കുക(Apply)<br><br>CO6-സാഹിത്യത്തിലെ ദളിത്-പരിസ്ഥിതി-സ്ത്രീ സ്വത്വ പരികല്പനകൾ വിലയിരുത്തുക (Analyze) |
| **ML5CRT07** | ചെറുകഥ നോവൽ | CO1- ഗദ്യസാഹിത്യത്തിന്റെ വളർച്ചയുടെ വിവിധ ഘട്ടങ്ങൾ ചരിത്രവും<br><br>സാംസ്കാരികവുമായ മാറ്റങ്ങൾ എന്നിവ വിവരിക്കുക (Understand)<br><br>CO2- ആധുനിക നോവൽ രചനയിലും സങ്കേതത്തിലും വന്ന മാറ്റങ്ങൾ<br><br>പെണ്ണെഴുത്തിന്റെ സജീവസാന്നിധ്യം എന്നിവ<br><br>തിരിച്ചറിയുക(Understand)<br><br>CO3- ആഗോളവത്കരണം കമ്പോളവത്കരണം എന്നിവ ആധുനികാനന്തര(Apply) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO4- മലയാള ചെറുകഥയുടെ ഉദയവികാസ പരിണാമങ്ങൾ ,കഥയിലെ<br>സാമൂഹ്യ രാഷ്ട്രീയ അന്തർധാരകൾ എന്നിവ വിവരിക്കുക **(Analyze)**<br>CO5- കഥയിലെ ആധുനിക പ്രവണതകൾ ബിംബാത്മകമായ ആവിഷ്കരണ രീതി എന്നിവ വിലയിരുത്തുക<br>**(Analyze)**<br>CO6-ആധുനികാനന്തര കഥകളിലെ രൂപ-ഭാവപരമായ മാറ്റങ്ങൾ ,സൈബർ<br>രചനകളുടെ സവിശേഷതകൾ എന്നിവ വിലയിരുത്തുക**(Evaluate)** |
| **ML5CRT08** | ഭാഷാശാസ്ത്രം | CO1- ഭാഷയെക്കുറിച്ചും ഭാഷാശാസ്ത്രത്തെക്കുറിച്ചു മുള്ള അടിസ്ഥാന<br>സങ്കൽപ്പങ്ങൾ വിവരിക്കുക **(Understand)** |

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| | | CO2- വ്യാകരണവും ഭാഷാശാസ്ത്രവും തമ്മിലുള്ള വ്യതിരിക്തത<br>വിശദീകരിക്കുക (Understand)<br>CO3- സ്വനം,സ്വനിമം എന്നിവ വേർതിരിച്ചറിയുക(Apply)<br>CO4- രൂപിമം ,രൂപിമ വിഭാഗങ്ങൾ വാക്യം,വാക്യത്വ നിർണയത്തിനു<br>പിന്നിലെ അടിസ്ഥാന വസ്തുതകൾ എന്നിവ അപഗ്രഥന<br>വിധേയമാക്കുക(Apply)<br>CO5- ഭാഷ പരിണാമം ഭാഷാശാസ്ത്രപഠനശാഖകൾ എന്നിവയെക്കുറിച്ച്<br>വിവരിക്കുക(Analyze) |
| **ML5OPT02** | മാധ്യമപഠനം | CO1- മാധ്യമ പഠനത്തിന്റെ അനന്തമായ സാധ്യതകൾ<br>തിരിച്ചറിയുക(Understand)<br>CO2- അച്ചടിമാധ്യമത്തിന്റെ സവിശേഷതകൾ ,റിപ്പോർട്ടിംഗ്,എഡിറ്റിങ്, |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | പത്രപ്രവർത്തകന് ഉണ്ടായിരിക്കേണ്ട ഗുണങ്ങൾ പത്രപ്രവർത്തകൻ<br>നേരിടുന്ന വെല്ലുവിളികൾ എന്നിവ വിവരിക്കുക **(Apply)**<br>**CO3-** ഇന്ത്യയിലെ റേഡിയോ പ്രക്ഷേപണത്തിന്റെ ചരിത്രം,കല, സാഹിത്യാദി<br>മേഖലകളിൽ റേഡിയോ നൽകിയ സംഭാവനകൾ<br>എന്നിവ വിവരിക്കുക **(Apply)**<br>**CO4-** ടെലിവിഷൻ ചരിത്രത്തിന്റെ വിവിധ ഘട്ടങ്ങൾ ,നവമാധ്യമങ്ങളുടെ<br>കടന്നുവരവ് എന്നിവ വിവരിക്കുക **(Analyze)**<br>**CO5-** നവമാധ്യമങ്ങൾ പുതുതലമുറയെ എപ്രകാരം സ്വാധീനിക്കുന്നുവെന്ന്<br>വിശദീകരിക്കുക.**(Analyze)** |
| **SEMESTER VI** | | |
| **ML6CRT09** | കേരളീയ ദൃശ്യകല | **CO1-**സാമൂഹിക ഐക്യത്തിന്റെ സൃഷ്ടികൾ എന്ന നിലയിൽ കേരളത്തിലെ |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | ദൃശ്യകലാപാരമ്പര്യത്തെ തിരിച്ചറിയുക (Understand)<br><br>CO2-അനുഷ്ഠാനപരവും വിനോദപരവുമായ നാടൻകലാരൂപങ്ങളെ<br><br>വേർതിരിച്ചറിയുക (Understand)<br><br>CO3- ആംഗിക-വാചിക-ആഹാര്യാഭിനയ രീതികൾ വിവരിക്കുക(Apply)<br><br>CO4-കഥകളി,തുള്ളൽ തുടങ്ങിയ ദൃശ്യകലകളുടെ ചരിത്രവും അഭിനയ<br><br>സങ്കേതങ്ങളും വിശദീകരിക്കുക (Apply)<br><br>CO5-നാടോടി രംഗകലകളുമായി ബന്ധപ്പെട്ട പുരാവൃത്തങ്ങൾ<br><br>വിവരിക്കുക(Apply)<br><br>CO6- നാടോടിനാടകങ്ങളുടെ ചരിത്രവും വികാസപരിണാമങ്ങളും<br><br>വിവരിക്കുക(Apply) |



DEVA MATHA COLLEGE KURAVILANGAD

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| **ML6CRT10** | പ്രാചീനസാഹിത്യം | CO1-പദ്യം ,ഗദ്യം ,മിശ്രം എന്നീ ശാഖകളിലുള്ള പ്രാചീന സാഹിത്യ<br>മാതൃകകളെ തിരിച്ചറിയുക(Understand)<br>CO2-പാട്ടുപ്രസ്ഥാനത്തിന്റെ ലക്ഷണം,ചരിത്രം,പ്രധാന കൃതികൾ അവയുടെ<br>സവിശേഷതകൾ എന്നിവ വിശദീകരിക്കുക (Understand)<br>CO3- പ്രാചീന മണിപ്രവാള കൃതികൾ അവയുടെ സാംസ്കാരികമായ<br>പ്രത്യേകതകൾ എന്നിവ വിശദീകരിക്കുക (Apply)<br>CO4- പ്രാചീന ഗദ്യ കൃതികളെപ്പറ്റിയും അവ രൂപപ്പെട്ട സാംസ്കാരിക<br>രാഷ്ട്രീയ സാഹചര്യങ്ങളെപ്പറ്റിയും വിവരിക്കുക (Apply)<br>CO5- പാട്ടിന്റെയും മണിപ്രവാളത്തിന്റെയും പിൽക്കാല ചരിത്രം<br>വിലയിരുത്തുക (Analyze) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO6- പ്രാചീന സാഹിത്യത്തിൽ ഉപരിപഠനത്തി നും ഗവേഷണത്തിനുമുള്ള<br>സാധ്യതകൾ കണ്ടുപിടിക്കുക(Create) |
| **ML6CRT11** | ഗദ്യസാഹിത്യം ,നിരൂപണം | CO1- മലയാളഗദ്യസാഹിത്യത്തിന് അടിത്തറയിട്ട പ്രരംഭഘട്ട നിരൂപണ<br>മാതൃകകൾ വിവരിക്കുക (Understand)<br>CO2- വ്യത്യസ്തമായ നിരൂപണ മാതൃകകൾ അപഗ്രഥനവിധേയമാക്കുക (Apply)<br>CO3- നവീന വിമർശനത്തിലെ വ്യത്യസ്ത സമീപന രീതികൾ വിവരിക്കുക (Apply)<br>CO4- കീഴാളപഠനത്തിന്റെ പ്രസക്തി വിവരിക്കുക (Apply)<br>CO5- ഗദ്യത്തിന്റെ വിവിധ ആവിഷ്കാരമെന്ന നിലയിൽ ആത്മകഥ ,യാത്രാവിവരണം |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | ,സ്മരണകൾ,അനുഭവം എന്നിവ വിവരിക്കുക **(Analyze)** |
| **ML6CR12** | വ്യാകരണം ,ഭാഷാചരിത്രം | **CO1-** വ്യാകരണ പഠനത്തിന്റെ പ്രാധാന്യം വിവരിക്കുക **(Understand)**<br>**CO2-**അക്ഷര വർഗീകരണം ,ശബ്ദ വിഭാഗങ്ങൾ ,സന്ധി നിർവചനം<br>വർഗീകരണം എന്നിവ വിവരിക്കുക **(Understand)**<br>**CO3-** മലയാളഭാഷാചരിത്രം ,പ്രധാന ഭാഷോത്പത്തി വാദങ്ങൾ എന്നിവ<br>ഗ്രഹിക്കുക **(Understand)**<br>**CO4-** ലിംഗം,വചനം ,വിഭക്തി ,കാരകം എന്നിവയുടെ പ്രയോഗവും<br>വർഗ്ഗീകരണവും ഗ്രഹിക്കുക **(Apply)**<br>**CO5-** കരണാധിഷ്ഠിതമായ ഭാഷാശൈലി നിർമ്മിക്കുക**(Create)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **ML6CBT01** | മലയാളത്തിലെ സ്ത്രീരചനകൾ | CO1- പെൺപക്ഷരചനകളിൽ കാലഘട്ടമാനുസൃതമായ് വരുന്ന മാറ്റങ്ങൾ<br>തിരിച്ചറിയുക (Understand)<br>CO2- പാരിസ്ഥികസ്ത്രീവാദം പോലുള്ള പുതുധാരകൾ<br>തിരിച്ചറിയുക(Understand)<br>CO3- സ്ത്രീവാദപരമായ നിരൂപണങ്ങൾ മുന്നോട്ടു വെക്കുന്ന ആശയാദർശങ്ങൾ<br>വിവരിക്കുക (Apply)<br>CO4- പെൺകഥകളിലെ ഭാഷ,പ്രമേയം,രൂപശില്പം എന്നിവ അപഗ്രഥന<br>വിധേയമാക്കുക(Apply)<br>CO5- സ്ത്രീനാടകവേദിയുടെ ചരിത്രം വിശദീകരിക്കുക (Apply) |
| **ML6PRT01** | **Project** | CO1-ഗവേഷണരചനയുടെ പ്രാഥമികതത്വങ്ങൾ വിവരിക്കുക (Apply)<br>CO2- ദത്തശേഖരണത്തിൽ ശ്രദ്ധി ക്കേണ്ട കാര്യങ്ങൾ വിവരിക്കുക (Apply) |



DEVA MATHA COLLEGE KURAVILANGAD

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| **PROGRAMME NAME: B.A. ENGLISH**<br>**PROGRAMME CODE: DMCK-UG-ENG-M1-AD** | |
| **PROGRAMME SPECIFIC OUTCOMES** | |
| **PSO1** | **Describe the various genres of Literature and identify the relevant literary terms through exposure to various texts from across the literary ages (remember level)** |
| **PSO2** | **Develop basic communication skills, critical thinking and creative writing in English and examine the various stages in the evolution of English language (apply level)** |
| **PSO3** | **Explain the different periods in the history of English Literature and the literary movements that existed in different ages (understand level) (Note: Contains the essence of the complementary papers offered in Sem 3 and Sem 4- British History)** |
| **PSO4** | **Apply the theoretical approaches in Literature to other disciplines like gender studies, dalit studies and cultural studies and establish connections across frontiers of disciplines (apply level)** |
| **PSO5** | **Describe the origin, nature and scope of Political Science and discuss the various approaches to the study of Political Science (understand level) (Note: Contains the essence of the complementary papers offered in Sem 1 and Sem 2- Political Science)** |



DEVA MATHA COLLEGE KURAVILANGAD

| COURSE OUTCOMES | | |
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| **SEMESTER I** | | |
| **EN1CC01** | **FINE-TUNE YOUR ENGLISH** | **CO1: Describe the basic rules of grammar in English for effective communication (understand level)**<br><br>**CO2: Develop language learning skills like Listening, Speaking, Reading and Writing (apply level)**<br><br>**CO3: Develop the compositional skills and conversational skills in English in academic, professional and social contexts (apply level)**<br><br>**CO4: Recognize the common and uncommon errors committed by the speakers in daily English conversation (remember level)**<br><br>**CO5: Distinguish between the tense forms of verbs in English and identify the correct usage of tenses in sentences (understand level)**<br><br>**CO6: Explain how English vocabulary is enriched through different word formation processes (apply level)** |
| **EN1CC02** | **PEARLS FROM THE DEEP** | |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO1: Distinguish the features of specific literary genres (understand level)**<br><br>**CO2: Identify the prominent writers in Literature, their seminal works and their style of writing (understand level)**<br><br>**CO3: Explain the major themes and critical ideas that appear in the literary texts and their impact on culture and society (apply level)**<br><br>**CO4: Analyze different forms of literature across a wide range of literary age and explain the the socio-political contexts of literary works (analyze level)** |
| **ML1CCT01** | കഥാസാഹിത്യം | CO1:മലയാളകഥയുടെയും നോവലിന്റെയുംചരിത്രം, ഭാവുകത്വപരിണാമംഎന്നിവവിവരിക്കുക. (Understand)<br><br>CO2:കഥ,നോവൽ എന്നീസാഹിത്യരൂപങ്ങളുടെവ്യതിരിക്തതതിരിച്ചറിയുക. (Understand) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO3:ലിംഗസമത്വം,സ്ത്രീശക്തീകരണം, പരിസ്ഥിതിതുടങ്ങിയആശയങ്ങളിൽ അറിവ്നിർമ്മിക്കുക. (Apply)<br>CO4:കഥകളിൽ സമകാലികസാമൂഹികസാഹചര്യങ്ങൾ എപ്രകാരംആവിഷ്കരിച്ചിരിക്കുന്നുഎ ന്ന്സമർത്ഥിക്കുക.(Apply)<br>CO5:കഥ ,നോവൽ തുടങ്ങിയസാഹിത്യരൂപങ്ങളിൽ പ്രകടമാകുന്നസുഖ-ദു:ഖസമ്മിശ്രമായജീവിതാവാസ്ഥകൾ വിവരിക്കുക(Apply) |
| **HN 1 CCT01** | **PROSE & ONE ACT PLAYS** | **CO1: Explain the content, aspects and issues discussed in the prose & One Act Plays.**<br>**( II Understanding)**<br>**CO2 : Quote the eminent Hindi Prose & One Act play writers and their works mentioned**<br>**in the syllabus.( I Remembering)**<br>**CO3: Evaluate a writer and his/her literary works.( IV Analyzing)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO4:Deduce a social and moral value based point of views.( IV Analyzing)**<br>**CO5: Develop the skill to use good and correct Language.( VI Creating)** |
| **EN1CR01** | **METHODOLOGY OF LITERARY STUDIES** | **CO1: Describe the various methodologies in reading Literature and identify the location of literature within humanities (remember level)**<br>**CO2: Discuss the major signposts in the historical evolution of literary studies from its inception (understand level)**<br>**CO3: Interpret the socio-political contexts represented in literary works and explain representative literary texts in diverse contexts (apply level)**<br>**CO4: Analyze the issues raised by feminist, ethnic and post-colonial voices in Literature (analyze level)**<br>**CO5: Examine the regional and subaltern identity representations in Literature (apply level)**<br>**CO6: Apply the different critical and theoretical approaches to the reading and analysis of literary texts in multiple genres (apply level)** |
| **PS1CMT01** | **AN INTRODUCTION TO POLITICAL SCIENCE** | **1. Develop critical ideas about different forms of government. (Apply)** |

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| | | **2. Compare different approaches to the study of Political Science. (Understanding)**<br><br>**3. Develop critical ideas about major political ideologies. (Apply)**<br><br>**4. Identify democratic principles and its values. (Understanding)**<br><br>**5. Explain the essential concepts in Political Science. (Understanding)** |
| **SEMESTER II** | | |
| **EN2CC03** | **ISSUES THAT MATTER** | **CO1: Identify the major issues of contemporary significance (understand level)**<br><br>**CO2: Evaluate the issues raised positively and rationally (apply level)**<br><br>**CO3: Infer the values imparted through the literary works concerned (apply level)**<br><br>**CO4: Transform them as conscious and concerned human beings (understand level)** |
| **EN2CC04** | **SAVOURING THE CLASSICS** | **CO1: Identify the Classics from various lands with a focus on their varied aesthetic dimensions (remember level)**<br><br>**CO2: Understand the features and factors that go into the making of a Classic (understand level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO3: Develop an understanding as to how Classic carries the idea of "Time- testedness" and depicts universal human conditions (apply level)**<br><br>**CO4: Enable the learner to reread and reinterpret the classics (analyze level)** |
| **EN2CR02** | **INTRODUCING LANGUAGE AND LITERATURE** | **CO1: Identify the evolution of modern English language (Remember level)**<br><br>**CO2: Distinguish between old English, middle English and modern English language (Understand level)**<br><br>**CO3: Understand the various varieties of English language and their major features (Understand level)**<br><br>**CO4: Determine the various periods of literature(Analyze level)**<br><br>**CO5: Create the link between film and literature (Evaluate level)** |
| **ML2CCT02-** | കവിത | CO1: മലയാള കവിതയുടെ ചരിത്രം , ഭാവുകത്വപരിണാമം എന്നിവ<br><br>വിവരിക്കുക (Understand) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO2: കാല്പനിക ,ആധുനിക ,ഉത്തരാധുനിക പ്രസ്ഥാനങ്ങൾ മലയാള കവിതയിൽ വരുത്തിയ മാറ്റങ്ങൾ തിരിച്ചറിയുക(Understand)<br><br>CO3: ലിംഗസമത്വം,സ്ത്രീ സ്വാതന്ത്ര്യം തുടങ്ങിയ ആശയങ്ങളിൽ അറിവ് വികസിപ്പിക്കുക (Apply)<br><br>CO5: കാലഘട്ടത്തിന്റെ പൊതുപ്രവണതകൾ എഴുത്തിൽ പ്രകടമാകുന്നത് വിവരിക്കുക<br>(Apply) |
| **HN2CCT02** | **Short stories and Novel** | **CO1- Define Hindi short story and novel.( 1 Remembering)**<br>**CO2- Quote the eminent Hindi short Story and Novel writers.( 1 Remembering)**<br>**CO 3- Review the content of the stories and novel discussed in the syllabus.(II understanding)**<br>**CO4- Sketch the peculiarities of characters in the stories and novel.( III Applying)**<br>**CO5- Explain the issues and moral values discussed in the text .( III Applying)** |

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| **PS2CMT03** | **INDIAN CONSTITUTION: SOCIAL ISSUES IN INDIA** | **CO1. Interpret our Constitutional design and framework. (Understanding)**<br>**CO2. Develop critical idea about the peculiar nature of Indian federalism.**<br>**(Apply)**<br>**CO3. Distinguish Panchayat Raj Institutions and understand decentralisation principles. (Understanding)**<br>**CO4. Explain the structure and functioning of the state mechanism.**<br>**(Understanding)**<br>**CO5. Analyse the major social issues in India. (Analyse)** |
| **SEMESTER III** | | |
| **EN3CC05** | **LITERATURE AND/AS IDENTITY** | **CO1: Recall the issues of refugee and cross border cases (Remember level)**<br>**CO2: Locate different works they have come across under specific categories of writing (Remember level)**<br>**CO3: Identify the seriousness of the issues encountered by people of different ethnicities apart from race and gender (Remember level)**<br>**CO4: Explain the extent of the sufferings which people have been through in their lifetime (Understand level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **EN3CC07** | **GEMS OF IMAGINATION** | **CO1: Distinguish the features of specific literary genres (understand level)**<br><br>**CO2: Identify the prominent writers in Literature, their seminal works and their style of writing (understand level)**<br><br>**CO3: Explain the major themes and critical ideas that appear in the literary texts and their impact on culture and society (apply level)**<br><br>**CO4: Analyze different forms of literature across a wide range of literary age and explain the the socio-political contexts of literary works (analyze level)** |
| **CML3CCT03** | ദൃശ്യകലാസാഹിത്യം | CO1- കേരളത്തിന്റെ ദൃശ്യകലാപാരമ്പര്യത്തിൽ സംസ്കൃത നാടകങ്ങൾക്കുള്ള പങ്ക് വിവരിക്കുക (Understand)<br><br>CO2- ആട്ടക്കഥ, തുള്ളൽ തുടങ്ങി ജനകീയമായിരുന്ന ദൃശ്യകലകളുടെ സവിശേഷതകൾ തിരിച്ചറിയുക(Understand)<br><br>CO3- മലയാള നാടക ചരിത്രത്തിൽ സി ജെ തോമസ്സിനുള്ള സവിശേഷ സ്ഥാനം വിവരിക്കുക (Understand) |



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| | | CO4- കാലഘട്ടത്തിന്റെ കലയെന്ന നിലയിൽ സിനിമയെന്ന മാധ്യമത്തെ<br>വിവരിക്കുക (Apply)<br>CO5-സിനിമാമേഖലയിൽ സംഭവിച്ചു കൊണ്ടിരിക്കുന്ന<br>കാലഘട്ടാനുസൃതമായ മാറ്റങ്ങൾ നിരീക്ഷിക്കുക(Analyze) |
| **HN3CCT03** | **Poetry,Grammar and Translation** | **CO1- Quote eminent Hindi poets (I Remembering)**<br>**CO2- Explain the aspects and issues discussed in the poem.(II Understand)**<br>**CO3- Explain different parts of Hindi grammar like parts of speech, (Noun, pronoun , verb**<br>**etc..) verb and its different forms ( tense- present, past and future) etc….**<br>**(II understanding)**<br>**CO4- Develop the skill to use a good and correct language. (VI Creating)**<br>**CO5- Translate from English to Hindi and vice versa. (II Understanding)** |
| **EN3CR03** | **HARMONY OF PROSE** | **CO1: Identify the essayists of the different ages (remember level)**<br>**CO2: Locate the difference between a personal essay and an impersonal essay (remember level)** |

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| | | **CO3: Differentiate the diction of the various ages (understand level)**<br><br>**CO4: Evaluate the growth of the prose writing in English till time (evaluate level)**<br><br>**CO5: Identify the major social problems of different ages (remember level)** |
| **EN3CR04** | **SYMPHONY OF VERSE** | **CO1: Identify the various genres of English poetry [understanding level]**<br><br>**CO2: Recognize poetry from a variety of cultures, languages and historic periods [remember level]**<br><br>**CO3: Understand and appreciate poetry as a literary art form [evaluate level)**<br><br>**CO4: Analyze the various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc.[analyze level]**<br><br>**CO5: Develop a deeper appreciation of cultural diversity by introducing them to poetry from a variety of cultures throughout the world [evaluate level]**<br><br>**CO6:Develop an understanding of language and its connotations and denotations [understand level]** |

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| **EN3CM03** | **THE EVOLUTION OF LITERARY MOVEMENTS: THE SHAPERS OF DESTINY** | **CO1: Analyse comprehensive overview of the history of Britain including the major wars, invasions and dynasties from the Early settlers till the end of seventeenth century (analyze level)**<br><br>**CO2: Describe an overview of the history of Britain and thorough knowledge on the major geographical and scientific innovations, momentous movements (understand level)**<br><br>**CO3: To examine the impact of the British history upon the rest of the world and understand in the light of historical events (remember level)**<br><br>**CO4: To interpret the religious, political, scientific and educational circumstances of England and classify the customs, practices, locale, spatial/ temporal settings in England (understand level)**<br><br>**CO5: Analyse the manner in which a person is moulded by the historical events(analyze level)** |
| **SEMESTER IV** | | |
| **EN4CC06** | **ILLUMINATIONS** | **CO1: To examine the world personalities and their life sketches (apply level)**<br><br>**CO2: To develop moral perceptions in students (apply level)**<br><br>**CO3: To simulate the students towards various societal issues (apply level)** |

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| | | **CO4: To facilitate the students to don the mantle of positivity (create level)**<br><br>**CO5: To explain their affinity towards literature by making them imbibe the aesthetic aspects in stories (analyze level)** |
| **EN4CC08** | **REVISITING THE CLASSICS** | **CO1: Identify the Classics from various lands with a focus on their varied aesthetic dimensions (remember level)**<br><br>**CO2: Understand the features and factors that go into the making of a Classic (understand level)**<br><br>**CO3: Develop an understanding as to how Classic carries the idea of "Time- testedness" and depicts universal human conditions (apply level)**<br><br>**CO4: Enable the learner to reread and reinterpret the classics (analyze level)** |
| **ML4CCT04** | മലയാളഗദ്യരചനകൾ | CO1-മലയാള ഗദ്യത്തിന്റെ ശക്തിയും സാധ്യതയും തിരിച്ചറിയുക (Understand)<br><br>CO2-കാരൂർ നീലകണ്ഠപിള്ളയെന്ന എഴുത്തുകാരന്റെ പ്രധാനകൃതികൾ<br><br>,കഥാസന്ദർഭങ്ങൾ എന്നിവ വിവരിക്കുക (Understand) |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO3- മലയാളത്തിലെ പ്രധാന ഓർമ്മക്കുറിപ്പുകൾ/ആത്മകഥകൾ എന്നിവ തിരിച്ചറിയുക (Understand)<br>CO4- സാഹിത്യകൃതിയെ വിമർശനാത്മകമായി വിവരിക്കുക (Apply)<br>CO5- ലേഖന പരിചയത്തിലൂടെ പരിസ്ഥിസംരക്ഷണം പോലുള്ള സാമൂഹിക വിഷയങ്ങൾ വിവരിക്കുക (Apply) |
| **HN4CCT041** | **Drama and Long Poem** | **CO1- Define Hindi Drama & Long poem (I Remembering)**<br>**CO2- Quote the eminent Hindi Long poets and their works discussed in the syllabus (I Remembering)**<br>**CO3- Explain the content, aspects and issues discussed. (III Applying)**<br>**CO4- Sketch the peculiarities of characters (III Applying)**<br>**CO5 Deduce social & moral value based point of view.( IV Analysing)** |
| **EN4CR05** | **MODES OF FICTION** | **CO1: Identify the various genres of English fiction[understand level]**<br>**CO2:Recognize fiction from a variety of cultures, languages and historic periods[remember level]** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO3:Understand and appreciate fiction as a literary art form[evaluate level]**<br><br>**CO4:Analyze the various elements of fiction such as diction, tone, form, genre, symbolism, theme, etc[analyze level]**<br><br>**CO5:Develop a deeper appreciation of cultural diversity by introducing them to fiction from a variety of cultures throughout the world[evaluate level]**<br><br>**CO6:Develop an understanding of language and its connotations and denotations[understand level]** |
| **EN4CR06** | **LANGUAGE AND LINGUISTICS** | **CO1: Identify the speech sounds and their classification (remember level)**<br><br>**CO2: Describe the various morphological processes in English (understand level)**<br><br>**CO3: Facilitate better and intelligible pronunciation (create level)**<br><br>**CO4: Discuss how language is enriched through word formation processes (remember level)**<br><br>**CO5: Analyze the different syntactical approaches (analyze level)** |
| **EN4CM04** | **THE EVOLUTION OF LITERARY MOVEMENTS: THE** | **CO 1: Describe various literary movements (remember level)** |

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| | **CROSS CURRENTS OF CHANGE** | **CO2: Interpret literary works and periods in the light of socio-political aspects of literary movements (understand level)**<br>**CO3: Simulate students to contribute dynamically to historical and literary process (apply level)**<br>**CO4: Examine the notion of the evolution of literature (apply level)**<br>**CO5: Analyze the interplay of social process and literature (analyze level)** |
| **SEMESTER V** | | |
| **EN5CR0P02** | **THEATRE STUDIES** | **CO1: Discover a selection of well-discussed plays across the world (understand level)**<br>**CO2: Distinguish between the classical and modern theatre in the West and the East (understand level)**<br>**CO3: Infer a comprehensive understanding regarding the form and content of various kinds of theatre (analyze level)**<br>**CO4: Evaluate the colonial and subversive postcolonial aspects in Indian theatre (evaluate level)** |
| **EN5CR07** | **ACTS ON THE STAGE** | **CO 1: Discuss the select theatre texts that form the canon of English drama (understand level)**<br>**CO 2: Describe the themes of various playwrights (understand level)** |

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| | | **CO 3: Generalize about the broad genre-based nuances in the realm of drama (understand level)**<br><br>**CO 4: Facilitate the appreciation and critique of drama as an art form (create level)** |
| **EN5CR08** | **LITERARY CRITICISM AND THEORY** | **CO1: Examine various strands of contemporary critical thought (apply level)**<br><br>**CO2: Describe the core aspects of literary theory (remember level)**<br><br>**CO3: Discuss the current developments in the domain of literary theory (understand level)**<br><br>**CO4: Practice our understanding of contemporary culture through the application of various literary theoretical formulations (apply level)**<br><br>**CO5: Facilitate the students look afresh into the accustomed perceptions of reality (create level)** |
| **EN5CR09** | **INDIAN WRITING IN ENGLISH** | **CO1- To identify the various literary techniques employed by Indian English writers (remember level)**<br><br>**CO2-To describe the regional literatures translated into English and describe the distinctive features of fiction (remember level)**<br><br>**CO3-To analyse an awareness of the socio-cultural and political issues as represented in the various literary process (analyze level)** |



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| | | **CO4-To examine the differences between pre independence and post-independence Indian Literature (apply level)**<br><br>**CO5-To interpret the growth of nationalism and Indian sensibility. an awareness of the socio-cultural and political issues as represented in the various literary process (apply level)** |
| **EN5CRTEN01** | **ENVIRONMENTAL SCIENCE AND HUMAN RIGHTS** | **CO1: Describe the pressing issues of climate change; human rights violation and ecological degradation (understand level)**<br><br>**C02: Determine a creative solution to the vexing concerns of environmental issues and human rights (apply level)**<br><br>**C03: Examine the relation between ecology and the delicate balance between the various microsystems in the nature (apply level)**<br>**C04: Analyze the various environmental campaigns in the world (analyze level)** |
| **SEMESTER VI** | | |
| **EN6CB04** | **VOICES FROM THE MARGINS** | **CO 1: Recognize the marginalized categories in society**<br><br>**CO 2: Understand theoretical background of subaltern literature** |



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| | | **CO 3: Identify the politics behind the suppression of unprivileged groups represented in literature (remember level)**<br><br>**CO 4: Connect themselves to the issues raised through the literary representations**<br><br>**CO 5: Express the issues of marginalized groups through literary representations** |
| **EN6CR10** | **POSTCOLONIAL LITERATURES** | **CO1: Understandthe varied dimensions of postcolonial subjectivity through theory and literature [understanding level]**<br><br>**CO2: Interpret the links between language, history and culture [apply level]**<br><br>**CO3: Think critically about the contexts of exploration and colonialism in relation to postcolonial societies [evaluate level]**<br><br>**CO4: Recognize different approaches to culture, nationalism, multiculturalism, migration, gender and race in the context of post-colonial societies[remember level]**<br><br>**CO5: Develop awareness of the social, political, cultural aspects of postcolonial societies[evaluate level]** |



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| | | **CO6: Explain interconnections and functions of postcolonial literature and its contexts, including comparative and interdisciplinary issues [analyze level]** |
| **EN6CR11** | **WOMEN'S WRITING** | **CO1: Describe the ideological underpinnings of women's movements (remember level)**<br>**CO2: Discuss certain core aspects of what is currently designated as gender equality.**<br>**CO3: Provide exposure to the span of experience unique to women writers, expressed through their poems and short stories.**<br>**CO4: Intend to promote research and analysis which will enables students to examine and challenge social norms around what it means to be a woman or man in society**<br>**CO5: Pursue justice and equality for all, which should be fundamental facets of development.** |
| **EN6CR12** | **AMERICAN LITERATURE** | **CO 1: Identify the various genres of American Literature (understanding level)**<br>**CO2:Identify the evolution of various literary movements in American literature (understand level)** |



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| | | **CO3: Define the heterogeneity of American culture (understand level)**<br><br>**CO4: Assess the major authors in American Literary History (evaluate level)**<br><br>**CO5: Recognize American Literature from the variety of its cultures, states and historic periods (remember level)** |
| **EN6CR13** | **MODERN WORLD LITERATURE** | **CO1- Describe a cross section of the literatures around the world and their concerns (remember level)**<br><br>**CO2- Identify how the literatures around the world deeply engage with the vicissitudes of life (understand level)**<br><br>**CO3- Analyze how generic conventions and canonical assumptions are often defied in world literatures (analyze level)**<br><br>**CO4- Develop a theoretical framework that juxtaposes aesthetical and political concerns to engage with new trends in world literatures (apply level)** |
| **EN6PR01** | **PROJECT** | **CO1- Describe the different techniques associated with writing an undergraduate** |



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| | | **degree project in English Literature (understand level)**<br><br>**CO2- Analyze the different literary elements in a given work using a particular**<br><br>**theoretical framework (analyze level)** |



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| **PROGRAMME NAME: B A Triple Main**<br>**PROGRAMME CODE: DMCK-UG-ENG-M3-SF** | | |
| **PROGRAMME SPECIFIC OUTCOME** | | |
| **PSO1** | **Develop an outline of English literary history, theory and criticism. (Applying Level)** | |
| **PSO2** | **Discover a wide range of cultural, intellectual and philosophical traditions across disciplines. (Understanding Level)** | |
| **PSO3** | **Explain the aesthetics enshrined in various genres of literature. (Applying Level)** | |
| **PSO4** | **Practice the function, features and scope of communication in day to day life. (Apply Level)** | |
| **PSO5** | **Apply the theoretical and practical aspects of journalism on multimedia. (Apply Level)** | |
| **COURSE OUTCOME** | | |
| **SEMESTER I** | | |
| **EN1CCT01** | **Fine Tune your English** | **CO 1: Discover the various aspects of language such as syntax, word classes, common errors etc.(Understanding)**<br>**CO 2: Articulate the practical aspects of Grammar.(Applying)**<br>**CO 3: Distinguish the nuances of tense and its usages.(Understanding)**<br>**CO 4: Develop compositional skills.(Applying)** |



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| | | **CO 5: Practice conversational skills.(Applying)** |
| **EN1CRT01** | **Methodology of Literary Studies** | **CO1: Describe the various methodologies in reading Literature and identify the location of literature within humanities (remember level)**<br><br>**CO2: Discuss the major signposts in the historical evolution of literary studies from its inception (understand level)**<br><br>**CO3: Interpret the socio-political contexts represented in literary works and explain representative literary texts in diverse contexts (apply level)**<br><br>**CO4: Analyze the issues raised by feminist, ethnic and post-colonial voices in Literature (analyze level)**<br><br>**CO5: Examine the regional and subaltern identity representations in Literature (apply level)**<br><br>**CO6: Apply the different critical and theoretical approaches to the reading and analysis of literary texts in multiple genres (apply level)** |
| **EN1CET01** | **English Literature from the Old English Period to the Romantic Age** | **CO 1: Identify the major events that mark the development of English Language and Literature until the seventeenth century. (Remember)** |



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| | | **CO 2: Summarize an overview of the historical developments of English Literature from Restoration to Enlightenment.(Understanding)**<br>**CO 3: Describe the nature, feature and basic concepts of language and literature till the end of the Romantic period. (Understanding)**<br>**CO 4:Observe the styles of writing across different ages.(Understanding)** |
| **EN1CET02** | **Conversational Skills** | **CO 1: Define various aspects of phonetics, classification and description of sounds. (Remembering)**<br>**CO 2: Illustrate the phonological aspects of the English language. (Understanding)**<br>**CO 3: Articulate a neutral accent and improve the general standard of pronunciation. (Applying)**<br>**CO 4: Develop conversational skills in various situations. (Applying)** |
| **EN1CET03** | **Writing for The Media** | **CO 1: Enumerate the various techniques employed in different media.(Remember)**<br>**CO 2: Practice the function, features and scope of communication.(Applying)**<br>**CO 3: Apply the style of writing for newspaper.(Applying)**<br>**CO 4: Describe various types of printing.(Understanding)**<br>**CO 5: Articulate the techniques of magazine writing.(Applying)** |



DEVA MATHA COLLEGE KURAVILANGAD

| SEMESTER II | | |
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| **EN2CCT03** | **Issues that Matter** | **CO 1: Identify major issues of contemporary significance in the world. (Understanding)**<br>**CO 2: Associate the various issues related to war and refugees, freedom of expression , minorities and extinction of species.(Understanding)**<br>**CO 3: Trace an idea how contemporary issues are incorporated in various genres like articles, memoirs, short stories and poems**<br>**CO 4: Critique the voices of dissent in literature and develop cognizant views of our times. (Evaluate)** |
| **EN2CRT02** | **Introducing Language and Literature** | **CO 1: Recognize the evolution and differential traits of the English language till the post modern times. (Remembering)**<br>**CO 2: Analyse the diversity of genres and techniques of representation and narration .(Applying)**<br>**CO 3: Examine the significance of literature with special reference to language variations across periods. (Remembering)** |



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| | | **CO 4: Generalize the link between narration of film and literature (Creating)** |
| **EN2CET04** | **English Literature from the Victorian to the Postmodern Age** | **CO 1: Illustrate an outlook of the historical evolution of English literature from the Victorian to the Post modern period. (Understanding)**<br>**CO 2: Discover the important writers and their contributions across ages. (understanding)**<br>**CO 3: Correlate the major movements that influenced the literary perspectives. (Analyzing)**<br>**CO 4: Interpret the diverse theories related to language and literature (Applying)** |
| **EN2CET05** | **Editing and Fundamentals of Media Writing** | **CO 1: Enumerate the various techniques employed in editing. (Remember)**<br>**CO 2: Practice the fundamentals of feature story writing.(Applying)**<br>**CO 3: Apply the style of writing for the newspaper and lay out. (Applying)**<br>**CO 4: Articulate the techniques of book review.(Applying)**<br>**CO 5: Adapt the responsibilities and organizational structure of editorial** |



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| | | **department and legal aspects in writing for the media. (Creating)** |
| **EN2CET06** | **Interpersonal Skills** | **CO 1: Develop effective and meaningful interpersonal skills (Applying)**<br>**CO 2: Establish self awareness and emotional maturity (Applying)**<br>**CO 3: Explain and communicate vivid points of view conforming to social étiquettes. ( Understanding)**<br>**CO 4:Develop the oratorial and communication skills (Applying)** |
| **SEMESTER III** | | |
| **EN3CRT03** | **Harmony of Prose** | **CO 1: Identify and relate to the works of great masters of English literature. (Remembering)**<br>**CO 2:Examine the different prose produced by writers of third world countries and of Indian origin. (Applying)**<br>**CO3;Recognize the eloquent experience, brevity and aptness of voicing ideas in different styles across the globe. (Remembering)**<br>**CO 4: Distinguish between different prose styles belonging to various parts of the world throughout the ages. (Understanding)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **EN3CRT04** | **Symphony of Verse** | **CO 1: Identify and relate to the range, scope and types of poetry across English language. (Remembering)**<br>**CO 2:Discover the emerging cultural and aesthetic expressions that poetry makes possible (Understanding)**<br>**CO 3:Correlate with historical, sociological and linguistic implications expressed through the poetry of the ages. (Analyzing)**<br>**CO 4:Reproduce critical expressions from the sample poems prescribed. (Creating)** |
| **EN3CET07** | **Introduction to Narratology** | **CO 1: Classify the different narrative techniques and modes of narration. (Understanding)**<br>**CO 2: Identify the different intricacies involved in narration from the sample tests.(Remembering)**<br>**CO 3:Compare and contrast the differences across the various narratives. (Evaluating)**<br>**CO 4: Identify the various theorists and their theories involved in narration. (Understanding)** |
| **EN3CET08** | **Digital Writing, Advertising and Reporting** | **CO 1: Identify the theories of media and digital writing. (Remembering)** |



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| | | **CO 2: Examine the different techniques employed in writing for electronic media (Applying)**<br>**CO 3:Visualize the meaning and significance of advertising. (Remembering)**<br>**CO 4: Focus on the concepts of media ethics and Censorship in Press. (Analysing)** |
| **EN3CET09** | **Creative Writing** | **CO 1: Employ creative writing skills . (Applying)**<br>**CO 2: Develop an overall idea about successful writing(Applying)**<br>**CO 3: Discover the various techniques involved in one's own creative voice across various genres. (Applying)**<br>**CO 4: Construct an overview of the writing pattern for multimedia. (Creating)** |
| **SEMESTER IV** | | |
| **EN4CRT05** | **Modes of fiction** | **CO 1: Compare and contrast the features of European and non European fiction. (Understanding)**<br>**CO 2: Identify the writers of European and non European fiction. (Remembering)**<br>**CO 3: Describe the movements that shaped the growth of European novels. (Understanding)**<br>**CO 4: Examine the various narrative techniques used in the prescribed novels.(Remembering)** |



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| **EN4CRT06** | **Language and Linguistics** | **CO 1: Identify the various process involved in the generation of meaning. (Remembering)**<br>**CO 2: Analyze sound, words and sentence structures of the language.(Analyzing)**<br>**CO 3: Discover the nuances of language as a system of communication. (Understanding)**<br>**CO 4: Classify the methodology used by linguists in the analysis of the pattern of language use.(Analyzing)** |
| **EN4CET11** | **Translation: Theoretical and Literary Perspectives.** | **CO 1: Understand the various theories of translation. (Understanding)**<br>**CO 2: Discover the various types of translation.(Understanding)**<br>**CO 3: Compare and contrast the models of translation on the basis of their merits and demerits. (Understand)**<br>**CO 4:Translate works from source language to target language. (Applying)** |
| **EN4CET12** | **Writing for Radio and Television.** | **CO 1: Understand the growth of radio and television in India. (Understanding)**<br>**CO 2:Write scripts for radio and television programmes. (Creating)**<br>**CO 3: Differentiate between types of radio. (Understanding)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO 4: Define the fundamentals of film making. (Remembering)** |
| **EN4CET10** | **Business Writing** | **CO 1: Enumerate the principles of business writing.(Remembering)**<br>**CO 2: Compare the structure of different types of business letters.(Understanding)**<br>**CO3: Apply the use of common phrases and idioms in business English. (Applying)**<br>**CO 4: Illustrate the various techniques of writing proposals and reports.(Applying)** |
| **SEMESTER V** | | |
| **PE5CROPP01** | **PHYSICAL HEALTH AND LIFE SKILL EDUCATION** | **CO1: Recognize the definition and meaning of health, dimensions of health. (Remember level)**<br>**CO2:Interpret the effects of exercise on bodily system. (Apply level)**<br>**CO3: Develop an awareness of the functions of Diet, balanced diet and malnutrition. (Evaluate level)**<br>**CO4: Assess the fundamental principles of first aid and aims of first aid (evaluate level)**<br>**C05: Define the need and Importance of Yoga in daily life. Elements of yoga and benefits of Asana (understand level)** |
| **EN5CR07** | **ACTS ON THE STAGE** | **CO 1: Discuss the select theatre texts that form the canon of English drama (understand level)**<br>**CO 2: Describe the themes of various playwrights (understand level)** |



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| | | **CO 3: Generalize about the broad genre-based nuances in the realm of drama (understand level)**<br>**CO 4: Facilitate the appreciation and critique of drama as an art form (create level)** |
| **EN5CR08** | **LITERARY CRITICISM AND THEORY** | **CO1: Examine various strands of contemporary critical thought (apply level)**<br>**CO2: Describe the core aspects of literary theory (remember level)**<br>**CO3: Discuss the current developments in the domain of literary theory (understand level)**<br>**CO4: Practice our understanding of contemporary culture through the application of various literary theoretical formulations (apply level)**<br>**CO5: Facilitate the students look afresh into the accustomed perceptions of reality (create level)** |
| **EN5CR09** | **INDIAN WRITING IN ENGLISH** | **CO1- To identify the various literary techniques employed by Indian English writers (remember level)**<br>**CO2-To describe the regional literatures translated into English and describe the distinctive features of fiction (remember level)**<br>**CO3-To analyse an awareness of the socio-cultural and political issues as represented in the various literary process (analyze level)**<br>**CO4-To examine the differences between pre independence and post-independence Indian Literature (apply level)**<br>**CO5-To interpret the growth of nationalism and Indian sensibility. an awareness of** |



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| | | **the socio-cultural and political issues as represented in the various literary process (apply level)** |
| **EN5CREN01** | **ENVIRONMENTAL SCIENCE AND HUMAN RIGHTS** | **CO1: Describe the pressing issues of climate change; human rights violation and ecological degradation (understand level)**<br>**C02: Determine a creative solution to the vexing concerns of environmental issues and human rights (apply level)**<br>**C03: Examine the relation between ecology and the delicate balance between the various microsystems in the nature (apply level)**<br>**C04: Analyze the various environmental campaigns in the world (analyze level)** |
| **SEMESTER VI** | | |
| **EN6CR10** | **POSTCOLONIAL LITERATURES** | **CO1: Understand the varied dimensions of postcolonial subjectivity through theory and literature [understanding level]**<br>**CO2: Interpret the links between language, history and culture [apply level]**<br><br>**CO3: Think critically about the contexts of exploration and colonialism in relation to postcolonial societies [evaluate level]**<br>**CO4: Recognize different approaches to culture, nationalism, multiculturalism, migration, gender and race in the context of post-colonial societies[remember level]**<br>**CO5: Develop awareness of the social, political, cultural aspects of postcolonial societies[evaluate level]**<br>**CO6: Explain interconnections and functions of postcolonial literature and its** |



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| | | **contexts, including comparative and interdisciplinary issues [analyze level]** |
| **EN6CR11** | **WOMEN'S WRITING** | **CO1: Describe the ideological underpinnings of women's movements (remember level)**<br>**CO2: Discuss certain core aspects of what is currently designated as gender equality.**<br>**CO3: Provide exposure to the span of experience unique to women writers, expressed through their poems and short stories.**<br>**CO4: Intend to promote research and analysis which will enables students to examine and challenge social norms around what it means to be a woman or man in society**<br>**CO5: Pursue justice and equality for all, which should be fundamental facets of development.** |
| **EN6CR12** | **AMERICAN LITERATURE** | **CO 1: Identify the various genres of American Literature (understanding level)**<br>**CO2:Identify the evolution of various literary movements in American literature (understand level)**<br>**CO3: Define the heterogeneity of American culture (understand level)**<br>**CO4: Assess the major authors in American Literary History (evaluate level)**<br>**CO5: Recognize American Literature from the variety of its cultures, states and historic periods (remember level)** |
| **EN6CR13** | **MODERN WORLD LITERATURE** | **CO1- Describe a cross section of the literatures around the world and their concerns (remember level)**<br>**CO2- Identify how the literatures around the world deeply engage with the vicissitudes of life (understand level)** |



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| | | **CO3- Analyze how generic conventions and canonical assumptions are often defied in world literatures (analyze level)**<br>**CO4- Develop a theoretical framework that juxtaposes aesthetical and political concerns to engage with new trends in world literatures (apply level)** |
| **EN6OJT01** | **OJT IN MEDIA: AUDIO, VISUAL AND PRINT & PROJECT** | **CO1 Ability to integrate theory and practice by receiving hands on training in a professional set up (Creating Level)**<br>**CO2 Develop work habits, attitudes necessary for job success and enhance professional contacts for future (Applying Level)**<br>**CO3 Adapting with the latest development in the media industry (Creating Level)** |



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| **PROGRAMME NAME: B. COM. MODEL 1 FINANCE AND TAXATION**<br>**PROGRAMME CODE: DMCK-UG-COM/FT-M1-SF** | | |
| **PROGRAMME SPECIFIC OUTCOMES** | | |
| **PSO1** | **Examine basic concepts, principles, rules and regulations and provisions of commerce and management including accounting, financial management, business law, statistics, Research methodology, direct and indirect tax etc. (Understand level)** | |
| **PSO2** | **Solve the problems using basic concepts, principles and tools in the area of accounting, statistics, economics etc. (Apply level)** | |
| **PSO3** | **Develop communication skills and writing skills to transfer the basic information and trends in the field of commerce and management. (Apply level)** | |
| **PSO4** | **Develop research aptitude towards Research and lifelong learning and attitude of environmentally responsible person (Apply level)** | |
| **PSO5** | **Assess taxable income from various Sources and tax payable on individual assesses with the help of basic concepts, provisions and rules of direct tax (Analyse level)** | |
| **COURSE OUTCOMES** | | |
| **SEMESTER I** | | |
| **EN1CCT01** | **Fine-Tune Your English** | **CO1: Describe the basic rules of grammar in English for effective communication (Understand)** |



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| | | **CO2: Develop language learning skills like Listening, Speaking, Reading and Writing (Apply)**<br><br>**CO3: Develop the compositional skills and conversational skills in English in academic, professional and social contexts (Apply)**<br><br>**CO4: Recognize the common and uncommon errors committed by the speakers in daily English conversation (Remember)**<br><br>**CO5: Distinguish between the tense forms of verbs in English and identify the correct usage of tenses in sentences (Understand)**<br><br>**CO6: Explain how English vocabulary is enriched through different word formation processes (Apply)** |
| **HN1CCT01** | **Hindi – Prose & Mass Media** | **CO1 :Quote the eminent Hindi writers and their works mentioned in the syllabus.( I Remembering)**<br>**CO2: Evaluate the content, aspects and issues discussed in the text.( IV Analysing)**<br>**CO3:Discuss the role of mass media in daily life.( II Understanding)**<br>**CO4:Correlate literature and mass media.( IV Analysing)** |



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| | | **CO5:Develop the skill to use a good and correct language. (VI Understanding)** |
| **ML1CCT05** | Malayalam- -കഥയും കവിതയും | CO1: മലയാളകഥ, കവിത എന്നിവയുടെ ചരിത്രം, ഭാവുകത്വപരിണാമം എന്നിവ വിവരിക്കുക. **(Understand)**<br>CO2: കഥ, കവിത സാഹിത്യരൂപങ്ങളുടെ വ്യതിരിക്തത തിരിച്ചറിയുക. **(Understand)**<br>CO3: വ്യത്യസ്ത കാവ്യാനുഭവങ്ങളിലൂടെ മനുഷ്യമനസ്സിൽ കവിതകൾക്കുള്ള സവിശേഷമായ സ്ഥാനം വ്യാഖാനിക്കൽ. **(Apply)**<br>CO4:സാഹിത്യപഠനത്തിലൂടെ ആസ്വാദനശേഷി, ഭാഷാപരിചയം, വായനശീലം എന്നിവ നിർമ്മിക്കുക.**(Apply)**<br>CO5:ഭിന്നജീവിതാവസ്ഥകളുടെ വിഷ്കരണമാധ്യമമായികഥ, കവിത എന്നിവയെ വിവരിക്കുക. **(Apply)** |

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| **CO1CRT01** | **Dimensions and Methodology of Business Studies** | **CO1:Illustrate the significance of business to different stakeholders by examining the form of business and interpret the impact of business environment on business. (Understand)**<br>**CO2: Describe the stages of development in the Indian economy since independence and identify government initiatives to fuel the economic growth. (Understand)**<br>**CO3: Explain the importance of business ethics and business research in decision making. (Understand)** |
| **CO1CRT02** | **Financial Accounting I** | **CO1: Apply knowledge of Generally Accepted Accounting Principles (GAAP) and managerial accounting theories to business organizations so as to prepare final accounts of a sole trader in accordance with appropriate principles, conventions & standards. (Apply)**<br>**CO2: Solve problems relating to conversion of single entry accounts to double entry and determine the applicability of Single Entry and reason to convert into Double Entry. (Apply)** |



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| | | **CO3: Explain the concept of Royalty and its accounting treatment. (Analyze)**<br><br>**CO4: Differentiate consignment transactions and its accounting treatment in the books of consignor and consignee. (Analyze)**<br><br>**CO5: Prepare farm accounts with notional transactions pertaining to crop/livestock accounts. (Apply)** |
| **CO1CRT03** | **Corporate Regulations and Administration** | **CO1: Explain the basic concepts of companies Act 2013. (Understand)**<br><br>**CO2: Describe the steps in the incorporation, administration and winding up of corporates under the Companies Act 2013. (Understand)**<br><br>**CO3: Describe the modes of acquiring membership in a company and administrative roles and procedures happening in a company. (Understand)**<br><br>**CO4: Differentiate between the types of public offer and different types of share capital. (Analyze)** |
| **CO1CMT01** | **Banking and Insurance** | **CO1: Describe types and functions of various banks operating in India. (Understand)** |



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| | | **CO2: Apply knowledge and skills on developments in banking sector including online banking in running a business or real life situations. (Apply)**<br>**CO3: Explain banker customer relationship and types of negotiable instruments and their relevance in business transactions. (Understand)**<br>**CO4: Identify various clauses and principles associated with different types of insurance policies. (Understand)** |
| **SEMESTER II** | | |
| **EN2CCT02** | **ISSUES THAT MATTER** | **CO1: Identify the major issues of contemporary significance (understand level)**<br>**CO2: Evaluate the issues raised positively and rationally (apply level)**<br>**CO3: Infer the values imparted through the literary works concerned (apply level)**<br>**CO4: Transform them as conscious and concerned human beings (understand level)** |
| **HN 2CCT02** | **Hindi – Poetry ,commercial correspondence and translation** | **CO1- Quote the eminent Hindi writers Remembering)** |



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| | | **CO 2- State what is commercial correspondence( I Remembering)**<br><br>**CO3- Explain the content, aspects and issues discussed in the poems(II understanding)**<br><br>**CO4- Translate from English to Hindi and vice versa ( II understanding)**<br><br>**CO5- Develop the skill to use a correct and good language.( VI Creating)** |
| **ML2CCT06** | **Malayalam- ആത്മകഥ ,ലേഖനം (BCom course )** | **CO1: മലയാള ഗദ്യത്തിന്റെ ചരിത്രം, ഭാവുകത്വപരിണാമം എന്നിവ**<br><br>**വിവരിക്കുക(Understand)**<br><br>**CO2: മലയാള ഗദ്യസാഹിത്യത്തിന്റെ ശക്തിയും സൗന്ദര്യവും വിവരിക്കുക(Understand)**<br><br>**CO3: ആത്മകഥ എന്ന സാഹിത്യശാഖയെ വിശദീകരിക്കുക(Understand)**<br><br>**CO4: സ്വത്വബോധം, പാരിസ്ഥിതിക അവബോധം, സാംസ്കാരിക**<br><br>**വ്യതിയാനങ്ങൾ എന്നിവ അപഗ്രഥിക്കുക(Apply)**<br><br>**CO5: വിവിധ നവോത്ഥാന പ്രസ്ഥാനങ്ങളുടെ സ്ഥാപിതചരിത്രം**<br><br>**വിവരിക്കുക(Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **CO2CRT04** | **Financial Accounting II** | **CO1: Explain the concept of Hire Purchase System and apply it to the preparation of accounts. (Understand)**<br><br>**CO2: Develop the ability to prepare Branch and departmental accounts and calculate profit or loss. Gain practical exposure in operating a branch independently with the knowledge of branch and departmental accounts. (Apply)**<br><br>**CO3: Develop the application skills to apply Garner vs. Murray rule at the time of dissolution of partnership firm, piecemeal method of distributing assets and settlement of liabilities. (Apply)**<br><br>**CO4: Develop the application of important accounting standards in the field of accounting.**<br><br>**(Apply)** |
| **CO2CRT05** | **Business Regulatory Framework** | **CO1: Understand the basic concepts and definitions given in the Indian Contract Act (Understand)**<br><br>**CO2: Distinguish between the different types of contracts (Analyze)** |



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| | | **CO3: Explain the basic concepts in the Sale of Goods Act, 1930 (Understand)**<br>**CO4: Summarize the legal framework influencing business decisions. (Understand)** |
| **CO2CRT06** | **Business Management** | **CO1: Review contributions of renowned academicians towards the field of management and explain the basic management concepts and principles. (Understand)**<br>**CO2: Define the importance of planning and coordination in an organization. (Remember)**<br>**CO3: Describe the actions required in the establishment of an efficient organization structure. (Understand)**<br>**CO4: Relate various elements of direction and control to management activities. (Understand)**<br>**CO5: Define the importance of various management techniques. (Remember)** |
| **CO2CMT02** | **Principle of Business Decisions** | **CO1: Articulate types of decisions and the application of economic theories in business decision making. (Apply)**<br>**CO2: Relate demand of a product to its various determinants, focusing specially on price demand relationship and employ** |



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| | | **demand forecasting techniques so as to venture into business. (Apply)**<br><br>**CO3: Explain production laws in the short run and long run and also economies and diseconomies of production. (Understand)**<br><br>**CO4: Identify various types of costs that may have an impact on business. (Understand)**<br><br>**CO5: Analyze price output relationship and price determination in various forms of markets to maximize profits of the firm. (Analyze)** |
| **SEMESTER III** | | |
| **EN3CC07** | **GEMS OF IMAGINATION** | **CO1: Distinguish the features of specific literary genres (understand level)**<br><br>**CO2: Identify the prominent writers in Literature, their seminal works and their style of writing (understand level)**<br><br>**CO3: Explain the major themes and critical ideas that appear in the literary texts and their impact on culture and society (apply level)**<br><br>**CO4: Analyze different forms of literature across a wide range of literary age and** |



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| | | **explain the the socio-political contexts of literary works (analyze level)** |
| **CO3CRT07** | **Corporate Accounts I** | **CO1: Discuss the concepts of share issue and types of share capital. (Understand)**<br>**CO2: Develop awareness about the provisions in Companies Act with respect to Underwriting of Shares (Apply)**<br>**CO3: Prepare and present financial statements as per the requirements of companies Act 2013. (Apply)**<br>**CO4: Employ problem solving skills in investment accounts of shares. (Apply)**<br>**CO5: Acquire the basic knowledge about insurance claim accounts. (Understand)** |
| **CO3CRT08** | **Quantitative Techniques for Business-I** | **CO1: Discuss the subject matter or division of statistics (Understand)**<br>**CO2: Distinguish between primary and secondary data (Understand)**<br>**C03: Calculate various measures of central tendency (Apply)**<br>**C04: Compute different measures of dispersion (Apply)**<br>**C05: Illustrate the methods of interpolation and extrapolation (Apply)** |



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| **CO3CRT09** | **Financial Markets and Operations** | **CO1: Classify the various components of the Indian Financial System and the role of regulatory agencies in ensuring proper functioning of the system. (Understand)**<br>**CO2: Explain the intermediaries in the New Issue Market and methods of issuing fresh capital. (Understand)**<br>**C03: Discover how stock exchanges act as a platform for trading securities, capital formation and facilitate bank lending (Apply)**<br>**C04: Distinguish between different types of mutual funds. (Understand)**<br>**C05: Describe various types of derivative instruments. (Understand)** |
| **CO3CRT10** | **Marketing Management** | **CO1: Explain the basic concepts in marketing management (Understand)**<br>**CO2: Determine an appropriate product mix so as to market the product successfully. (Apply)**<br>**C03: Describe pricing and physical distribution strategies which can be adopted for products and services. (Understand)**<br>**C04: Identify recent trends in marketing which are essential to have a competitive edge. (Understand)** |
| **CO3OCT01** | **GOODS AND SERVICES TAX** | **CO1: Explain the concepts and evaluation of GST (Understanding level)**<br>**CO2: Describe the process of registration filing of return under GST Act2017 (Understanding level)** |



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| | | **CO3: Explain the procedure of assessment under GST Act 2017 (Understanding level)**<br>**CO4: Discuss about the appeal and appellate authorities. (Understanding level)** |
| **SEMESTER IV** | | |
| **EN4CC08** | **Language- English- IV REVISITING THE CLASSICS** | **CO1: Identify the Classics from various lands with a focus on their varied aesthetic dimensions (remember level)**<br>**CO2: Understand the features and factors that go into the making of a Classic (understand level)**<br>**CO3: Develop an understanding as to how Classic carries the idea of "Time-testedness" and depicts universal human conditions (apply level)**<br>**CO4: Enable the learner to reread and reinterpret the classics (analyze level)** |
| **CO4CRT11** | **Corporate Accounts II** | **CO1: Prepare financial statements of Insurance and Banking companies. (Apply)**<br>**CO2: Explain the accounting procedure for reconstruction. (Understand)**<br>**CO3: Illustrate concepts and accounting procedures of Amalgamation, Absorption and External reconstruction as per the Accounting Standards. (Analyze)** |



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| | | **CO4: Solve problems on the legal procedure in the event of liquidation of a company.**<br>**(Apply)** |
| **CO4CRT12** | **Quantitative Techniques for Business-II** | **CO1: Develop methods of studying correlation (Apply)**<br>**CO2: Calculate regression equations and regression coefficient (Apply)**<br>**CO3: Develop Methods of constructing price index, quantity index and value index.**<br>**(Apply)**<br>**CO4: Calculate mathematical model and semi average methods of time series (Apply)**<br>**CO5: Develop theorems of probability (Apply)** |
| **CO4CRT13** | **Entrepreneurship Development & Project Management** | **CO1: Explain functions of entrepreneurship and its significance in economic development**<br>**(Understand)**<br>**CO2: Illustrate support system available to promote entrepreneurship in general and for women entrepreneurs and MSMEs in particular. (Understand)**<br>**CO3: Develop a project idea and prepare a project report after undertaking project**<br>**appraisal. (Apply)**<br>**CO4: Articulate traits required by an entrepreneur to take up entrepreneurial ventures and also to make them match with industry demands. (Apply)** |



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| **CO4OCT01** | **FINANCIAL SERVICES** | **CO1:Explain basic concepts of financial services and merchant banking (Understanding level)**<br>**CO2: Discuss about venture capital and securitization (Understanding level)**<br>**CO3: Differentiate leasing and factoring (Analyze level)**<br>**CO4: Explain the concept of credit rating and credit rating agen(Understanding level)**<br>**CO5: Describe different types of mergers and acquisitions(Understanding level)** |
| **SEMESTER V** | | |
| **CO5CRT14** | **Cost Accounting I** | **COI: Describe cost concept and terminologies related to cost accounting. (Understanding)**<br>**CO2: Compute stock levels, material losses and pricing of issue of materials (Apply)**<br>**CO3: Differentiate between time rate and piece rate systems (Understand)**<br>**CO4: Analyse primary and secondary distribution of overheads (Analyse)**<br>**CO: 5: Preparation of cost sheet and profit reconciliation statement (Apply)** |
| **CO5CRT15** | **Environment Management and Human Rights** | **CO1: Develop understanding regarding natural resources, ecosystems, environmental aspects and its management. (Understanding)** |



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| | | **CO2: Develop awareness about environmental laws in India and the need for their observance. (Understanding)**<br>**CO3: Sensitise about the recent developments in the field of commerce and management relating to the environment. (Understanding)**<br>**CO4: Apply the knowledge about RTI Act in ensuring civic rights of self and society. (Apply)**<br>**CO5: Develop understanding about the basic human rights and the mechanisms for protecting them for self and others. (Understanding)**<br>**CO6: Apply the knowledge of environment management and human rights in daily life to ensure sustainable development. (Apply)** |
| **CO5CRT16** | **Financial Management** | **CO1: Describe the concept, scope, functions and objectives of financial management. (Understand)**<br>**CO2: Apply knowledge of financial management to constitute an optimal capital structure (Apply)**<br>**CO3: Develop investment decisions by constructing capital budget and employing cash flow evaluation techniques. (Apply)** |



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| | | **CO4: Compute capital requirements for starting business & management of working capital. (Apply)**<br>**CO5: Acquire the knowledge about dividend policies and various dividend models. (Understand)** |
| **CO5OCT01** | **INCOME TAX- I** | **CO1: Explain basic concepts of income tax under Income Tax Act 1961 (Understanding level)**<br>**CO2: Assess the residential status of individual (Evaluate level)**<br>**CO3: Compute the taxable income from salary of individual (Apply level)**<br>**CO4: Calculate taxable income from house property (Apply level)**<br>**CO5: Compute the taxable income from business or profession(Apply level)** |
| **EN5CROP03** | **English for Careers** | **CO 1: Articulate proficiency in oral and written communication.(Applying)**<br>**CO 2: Analyze the practical aspects of Grammar.(Analyzing)**<br>**CO 3: Assess effective presentation.(Evaluating)**<br>**CO4: Adapt professional ethics and soft skills for team building. (Creating)** |
| **SEMESTER VI** | | |
| **CO6CRT17** | **Cost Accounting II** | **CO1: Describe batch, job and contract costing (Understand)** |



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| | | **CO2: Distinguish between transport costing and contract costing (Understand)**<br>**CO3: Prepare process account, joint product and by-product (Apply)**<br>**C04: Apply marginal costing methods in decision making (Apply)**<br>**CO5: Prepare different types of budget (Apply)** |
| **CO6CRT18** | **Advertisement & Sales Management** | **CO1: Discuss basic aspects of advertising including the types of and ethics in advertising(Understand)**<br>**CO2: Describe advertisement appeal, ad layout and media in advertising. (Understand)**<br>**CO3: Explain methods of measuring advertisement effectiveness. (Understand)**<br>**C04: Articulate strategies and techniques of effecting sales promotion and personal selling required for successful conduct of business. (Apply)** |
| **CO6CRT19** | **Auditing & Assurance** | **CO1: Explain the basic concepts of different types of audits and procedures involved in. (Understand)**<br>**CO2: Describe the actions required in the various steps of audit process. (Understand)**<br>**CO3: Explain duties and responsibilities of auditors. (Understand)**<br>**CO4: Define the importance of internal control, Special Audits and Investigation in an organization. (Remember)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO5: Describe the qualifications, principles and procedures required to undertake a valid and efficient auditing. (Understand)** |
| **CO6CRT20** | **Management Accounting** | **CO1: Explain management accounting, its objectives, functions, limitations and difference with financial accounting and cost accounting. (Understand)**<br>**CO2: Describe various tools and techniques used by management accountants for financial statement analysis. (Understand)**<br>**CO3: Summarize the basic framework of financial reporting using management accounting. (Understand)**<br>**CO4: Employ ratio analysis of financial statements and interpret the financial statement using ratios. (Apply)**<br>**CO5: Analyse fund flow and cash flow statements and explain the same in real business/accounting cases.** |
| **CO6OCT01** | **INCOME TAX -II** | **CO1: Compute taxable capital gain of individual (Apply level)**<br>**CO2: Calculate taxable income from other source (Apply level)**<br>**CO3: Assess total taxable income and tax liability of individual (Evaluate level)** |

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| | | **CO4: Assess individual taxable agricultural income (Evaluate level)**<br>**CO5: Explain various income tax authorities and process of assessment.** |
| **CO6PR01** | **PROJECT AND VIVA** | **CO1: to explain the process of conducting a research project**<br>**CO2: to identify the issues of society related to the subject which is relevant to conduct research study**<br>**CO3:to prepare a project report as per academic requirements.** |

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| **PROGRAMME NAME: B. COM. MODEL 1 CO OPERATION**<br>**PROGRAMME CODE: DMCK-UG-COM/CO-M1-SF** | | |
| **PROGRAMME SPECIFIC OUTCOME** | | |
| **PSO1** | **Examine basic concepts, principles, rules and regulations and provisions of commerce and management including accounting, financial management, business law, statistics, Research methodology, direct and indirect tax etc. (Understand level)** | |
| **PSO2** | **Describe major strategies and policies of cooperative sectors and Kerala Cooperative Societies Act 1969 and various amendments (Understand level)** | |
| **PSO3** | **Solve problems using basic concepts, principles and tools in the area of accounting, statistics, economics etc. (Apply level)** | |
| **PSO4** | **Develop communication skills and writing skills to transfer the basic information and trends in the field of commerce and management. (Apply level)** | |
| **PSO5** | **Develop research aptitude towards Research and lifelong learning and attitude of environmentally responsible person (Apply level)** | |
| **COURSE OUTCOME** | | |
| **SEMESTER I** | | |
| **EN1CCT01** | **Fine-Tune Your English** | **CO1: Describe the basic rules of grammar in English for effective communication (Understand)** |



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| | | **CO2: Develop language learning skills like Listening, Speaking, Reading and Writing (Apply)**<br><br>**CO3: Develop the compositional skills and conversational skills in English in academic, professional and social contexts (Apply)**<br><br>**CO4: Recognize the common and uncommon errors committed by the speakers in daily English conversation (Remember)**<br><br>**CO5: Distinguish between the tense forms of verbs in English and identify the correct usage of tenses in sentences (Understand)**<br><br>**CO6: Explain how English vocabulary is enriched through different word formation processes (Apply)** |
| **HN1CCT01** | **Hindi – Prose & Mass Media** | **CO1 :Quote the eminent Hindi writers and their works mentioned in the syllabus.( I Remembering)**<br><br>**CO2: Evaluate the content, aspects and issues discussed in the text.( IV Analysing)**<br><br>**CO3:Discuss the role of mass media in daily life.( II Understanding)** |



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| | | **CO4:Correlate literature and mass media.( IV Analysing)**<br>**CO5: Develop the skill to use a good and correct language. (VI Understanding)** |
| **ML1CCT05** | Malayalam- -കഥയും കവിതയും | CO1: മലയാളകഥ, കവിത എന്നിവയുടെ ചരിത്രം, ഭാവുകത്വപരിണാമം എന്നിവ വിവരിക്കുക. **(Understand)**<br>CO2: കഥ, കവിത സാഹിത്യരൂപങ്ങളുടെ വ്യതിരിക്തത തിരിച്ചറിയുക. **(Understand)**<br>CO3: വ്യത്യസ്ത കാവ്യാനുഭവങ്ങളിലൂടെ മനുഷ്യമനസ്സിൽ കവിതകൾക്കുള്ള സവിശേഷമായ സ്ഥാനം വ്യാഖാനിക്കൽ. **(Apply)**<br>CO4:സാഹിത്യപഠനത്തിലൂടെ ആസ്വാദനശേഷി, ഭാഷാപരിചയം, വായനശീലം എന്നിവ നിർമ്മിക്കുക. **(Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | CO5:ഭിന്നജീവിതാവസ്ഥകളുടെ വിഷ്കരണമാധ്യമമായികഥ, കവിത എന്നിവയെ വിവരിക്കുക. (Apply) |
| **CO1CRT01** | **Dimensions and Methodology of Business Studies** | **CO1:Illustrate the significance of business to different stakeholders by examining the form of business and interpret the impact of business environment on business. (Understand)**<br>**CO2: Describe the stages of development in the Indian economy since independence and identify government initiatives to fuel the economic growth. (Understand)**<br>**CO3: Explain the importance of business ethics and business research in decision making. (Understand)** |
| **CO1CRT02** | **Financial Accounting I** | **CO1: Apply knowledge of Generally Accepted Accounting Principles (GAAP) and managerial accounting theories to business organizations so as to prepare final accounts of a sole trader in accordance with appropriate principles, conventions & standards. (Apply)**<br>**CO2: Solve problems relating to conversion of single entry accounts to double entry and** |



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| | | **determine the applicability of Single Entry and reason to convert into Double Entry. (Apply)**<br><br>**CO3: Explain the concept of Royalty and its accounting treatment. (Analyze)**<br><br>**CO4: Differentiate consignment transactions and its accounting treatment in the books of consignor and consignee. (Analyze)**<br><br>**CO5: Prepare farm accounts with notional transactions pertaining to crop/livestock accounts. (Apply)** |
| **CO1CRT03** | **Corporate Regulations and Administration** | **CO1: Explain the basic concepts of companies Act 2013. (Understand)**<br><br>**CO2: Describe the steps in the incorporation, administration and winding up of corporates under the Companies Act 2013. (Understand)**<br><br>**CO3: Describe the modes of acquiring membership in a company and administrative roles and procedures happening in a company. (Understand)**<br><br>**CO4: Differentiate between the types of public offer and different types of share capital. (Analyze)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **CO1CMT01** | **Banking and Insurance** | **CO1: Describe types and functions of various banks operating in India. (Understand)**<br>**CO2: Apply knowledge and skills on developments in banking sector including online banking in running a business or real life situations. (Apply)**<br>**CO3: Explain banker customer relationship and types of negotiable instruments and their relevance in business transactions. (Understand)**<br>**CO4: Identify various clauses and principles associated with different types of insurance policies. (Understand)** |
| **SEMESTER II** | | |
| **EN2CCT03** | **ISSUES THAT MATTER** | **CO1: Identify the major issues of contemporary significance (understand level)**<br>**CO2: Evaluate the issues raised positively and rationally (apply level)**<br>**CO3: Infer the values imparted through the literary works concerned (apply level)**<br>**CO4: Transform them as conscious and concerned human beings (understand level)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **HN 2CCT02** | **Hindi – Poetry ,commercial correspondence and translation** | **CO1- Quote the eminent Hindi writers Remembering)**<br>**CO 2- State what is commercial correspondence( I Remembering)**<br>**CO3- Explain the content, aspects and issues discussed in the poems(II understanding)**<br>**CO4- Translate from English to Hindi and vice versa ( II understanding)**<br>**CO5- Develop the skill to use a correct and good language.( VI Creating)** |
| **ML2CCT06** | **Malayalam- ആത്മകഥ ,ലേഖനം (BCom course )** | **CO1: മലയാള ഗദ്യത്തിന്റെ ചരിത്രം, ഭാവുകത്വപരിണാമം എന്നിവ**<br>**വിവരിക്കുക(Understand)**<br>**CO2: മലയാള ഗദ്യസാഹിത്യത്തിന്റെ ശക്തിയും സൗന്ദര്യവും വിവരിക്കുക (Understand)**<br>**CO3: ആത്മകഥ എന്ന സാഹിത്യശാഖയെ വിശദീകരിക്കുക(Understand)**<br>**CO4: സ്വത്വബോധം, പാരിസ്ഥിതിക അവബോധം, സാംസ്കാരിക**<br>**വ്യതിയാനങ്ങൾ എന്നിവ അപഗ്രഥിക്കുക(Apply)**<br>**CO5: വിവിധ നവോത്ഥാന പ്രസ്ഥാനങ്ങളുടെ സ്ഥാപിതചരിത്രം** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | വിവരിക്കുക(Apply) |
| **CO2CRT04** | **Financial Accounting II** | **CO1: Explain the concept of Hire Purchase System and apply it to the preparation of accounts. (Understand)**<br><br>**CO2: Develop the ability to prepare Branch and departmental accounts and calculate profit or loss. Gain practical exposure in operating a branch independently with the knowledge of branch and departmental accounts. (Apply)**<br><br>**CO3: Develop the application skills to apply Garner vs. Murray rule at the time of dissolution of partnership firm, piecemeal method of distributing assets and settlement of liabilities. (Apply)**<br><br>**CO4: Develop the application of important accounting standards in the field of accounting. (Apply)** |
| **CO2CRT05** | **Business Regulatory Framework** | **CO1: Understand the basic concepts and definitions given in the Indian Contract Act (Understand)**<br><br>**CO2: Distinguish between the different types of contracts (Analyze)** |



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| | | **CO3: Explain the basic concepts in the Sale of Goods Act, 1930 (Understand)**<br>**CO4: Summarize the legal framework influencing business decisions. (Understand)** |
| **CO2CRT06** | **Business Management** | **CO1: Review contributions of renowned academicians towards the field of management and explain the basic management concepts and principles. (Understand)**<br>**CO2: Define the importance of planning and coordination in an organization. (Remember)**<br>**CO3: Describe the actions required in the establishment of an efficient organization structure. (Understand)**<br>**CO4: Relate various elements of direction and control to management activities. (Understand)**<br>**CO5: Define the importance of various management techniques. (Remember)** |
| **CO2CMT02** | **Principle of Business Decisions** | **CO1: Articulate types of decisions and the application of economic theories in business decision making. (Apply)**<br>**CO2: Relate demand of a product to its various determinants, focusing specially on price demand relationship and employ** |



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| | | **demand forecasting techniques so as to venture into business. (Apply)**<br><br>**CO3: Explain production laws in the short run and long run and also economies and diseconomies of production. (Understand)**<br><br>**CO4: Identify various types of costs that may have an impact on business. (Understand)**<br><br>**CO5: Analyze price output relationship and price determination in various forms of markets to maximize profits of the firm. (Analyze)** |
| **SEMESTER III** | | |
| **EN3CCT07** | **GEMS OF IMAGINATION** | **CO1: Distinguish the features of specific literary genres (understand level)**<br><br>**CO2: Identify the prominent writers in Literature, their seminal works and their style of writing (understand level)**<br><br>**CO3: Explain the major themes and critical ideas that appear in the literary texts and their impact on culture and society (apply level)**<br><br>**CO4: Analyze different forms of literature across a wide range of literary age and** |

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| | | **explain the the socio-political contexts of literary works (analyze level)** |
| **CO3CRT07** | **Corporate Accounts I** | **CO1: Discuss the concepts of share issue and types of share capital. (Understand)**<br>**CO2: Develop awareness about the provisions in Companies Act with respect to Underwriting of Shares (Apply)**<br>**CO3: Prepare and present financial statements as per the requirements of companies Act 2013. (Apply)**<br>**CO4: Employ problem solving skills in investment accounts of shares. (Apply)**<br>**CO5: Acquire the basic knowledge about insurance claim accounts. (Understand)** |
| **CO3CRT08** | **Quantitative Techniques for Business-I** | **CO1: Discuss the subject matter or division of statistics (Understand)**<br>**CO2: Distinguish between primary and secondary data (Understand)**<br>**C03: Calculate various measures of central tendency (Apply)**<br>**C04: Compute different measures of dispersion (Apply)**<br>**C05: Illustrate the methods of interpolation and extrapolation (Apply)** |
| **CO3CRT09** | **Financial Markets and Operations** | **CO1: Classify the various components of the Indian Financial System and the role of** |



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| | | **regulatory agencies in ensuring proper functioning of the system. (Understand)**<br><br>**CO2: Explain the intermediaries in the New Issue Market and methods of issuing fresh capital. (Understand)**<br><br>**C03: Discover how stock exchanges act as a platform for trading securities, capital formation and facilitate bank lending (Apply)**<br><br>**C04: Distinguish between different types of mutual funds. (Understand)**<br><br>**C05: Describe various types of derivative instruments. (Understand)** |
| **CO3CRT10** | **Marketing Management** | **CO1: Explain the basic concepts in marketing management (Understand)**<br><br>**CO2: Determine an appropriate product mix so as to market the product successfully. (Apply)**<br><br>**C03: Describe pricing and physical distribution strategies which can be adopted for products and services. (Understand)**<br><br>**C04: Identify recent trends in marketing which are essential to have a competitive edge. (Understand)** |
| **CO3OCT03** | **BASICS OF CO-OPERATION** | **CO1: Describe the concepts and origin of co-operation (Understanding level)**<br>**CO2: Compare co-operation and other economic systems(Understanding level)**<br>**CO3: Explain co-operative principles and values. (Understanding level)**<br>**CO4: Summaries different types of co-operative systems exist in India and Kerala** |



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| | | **(Understanding level)**<br>**CO5: Discuss the co-operative movements in foreign countries. (Understanding level)** |
| **SEMESTER IV** | | |
| **EN4CC08** | **Language- English- IV REVISITING THE CLASSICS** | **CO1: Identify the Classics from various lands with a focus on their varied aesthetic dimensions (remember level)**<br>**CO2: Understand the features and factors that go into the making of a Classic (understand level)**<br>**CO3: Develop an understanding as to how Classic carries the idea of "Time testedness" and depicts universal human conditions (apply level)**<br>**CO4: Enable the learner to reread and reinterpret the classics (analyze level)** |
| **CO4CRT11** | **Corporate Accounts II** | **CO1: Prepare financial statements of Insurance and Banking companies. (Apply)**<br>**CO2: Explain the accounting procedure for reconstruction. (Understand)**<br>**CO3: Illustrate concepts and accounting procedures of Amalgamation, Absorption and External reconstruction as per the Accounting Standards. (Analyze)**<br>**CO4: Solve problems on the legal procedure in the event of liquidation of a company.** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **(Apply)** |
| **CO4CRT12** | **Quantitative Techniques for Business-II** | **CO1: Develop methods of studying correlation (Apply)**<br>**CO2: Calculate regression equations and regression coefficient (Apply)**<br>**CO3: Develop Methods of constructing price index, quantity index and value index.**<br>**(Apply)**<br>**CO4: Calculate mathematical model and semi average methods of time series (Apply)**<br>**CO5: Develop theorems of probability (Apply)** |
| **CO4CRT13** | **Entrepreneurship Development & Project Management** | **CO1: Explain functions of entrepreneurship and its significance in economic development**<br>**(Understand)**<br>**CO2: Illustrate support system available to promote entrepreneurship in general and for**<br>**women entrepreneurs and MSMEs in particular. (Understand)**<br>**CO3: Develop a project idea and prepare a project report after undertaking project**<br>**appraisal. (Apply)**<br>**CO4: Articulate traits required by an entrepreneur to take up entrepreneurial ventures and also to make them match with industry demands. (Apply)** |
| **CO4OCT03** | **Co-operation-Management of Co-** | **Co1: Explain basic concepts of cooperative management.(Understanding level)** |



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| | operativeEnterprises | **Co2: Conclude various problems exist in cooperative management.( Analyze level)**<br>**Co3: Evaluate the Administrative set up of cooperative department in Kerala. (Analyse level)**<br>**Co4: Examine the institutional system of cooperative education and training in India and Kerala.(Apply level)**<br>**Co5: Explain the management and working of national level cooperative organisations. (Understanding level).** |
| **SEMESTER V** | | |
| **CO5CRT14** | **Cost Accounting I** | **COI: Describe cost concept and terminologies related to cost accounting. (Understanding)**<br>**CO2: Compute stock levels, material losses and pricing of issue of materials (Apply)**<br>**CO3: Differentiate between time rate and piece rate systems (Understand)**<br>**CO4: Analyse primary and secondary distribution of overheads (Analyse)**<br>**CO: 5: Preparation of cost sheet and profit reconciliation statement (Apply)** |
| **CO5CRT15** | **Environment Management and Human Rights** | **CO1: Develop understanding regarding natural resources, ecosystems, environmental aspects and its management. (Understanding)**<br>**CO2: Develop awareness about environmental laws in India and the need for their observance. (Understanding)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO3: Sensitise about the recent developments in the field of commerce and management relating to the environment. (Understanding)**<br>**CO4: Apply the knowledge about RTI Act in ensuring civic rights of self and society. (Apply)**<br>**CO5: Develop understanding about the basic human rights and the mechanisms for protecting them for self and others. (Understanding)**<br>**CO6: Apply the knowledge of environment management and human rights in daily life to ensure sustainable development. (Apply)** |
| **CO5CRT16** | **Financial Management** | **CO1: Describe the concept, scope, functions and objectives of financial management. (Understand)**<br>**CO2: Apply knowledge of financial management to constitute an optimal capital structure (Apply)**<br>**CO3: Develop investment decisions by constructing capital budget and employing cash flow evaluation techniques. (Apply)**<br>**CO4: Compute capital requirements for starting business & management of working capital. (Apply)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| | | **CO5: Acquire the knowledge about dividend policies and various dividend models. (Understand)** |
| **CO5OCT03** | **Co-operation- Co-operative Legal System** | **CO1: Explain the history of cooperative legislation in India and Kerala. (Understanding level)**<br>**CO2: Describe Kerala Cooperative Societies Act 1 (Understanding level)**<br>**CO3: Summarise the management of cooperative institutions( Understanding level)**<br>**CO4: Examine the provisions and procedures of settlement of disputes in cooperatives. ( Apply level)**<br>**CO5: Discuss about winding up and dissolution of cooperative societies. (Understanding level)** |
| **EN5CROP03** | **English for Careers** | **CO 1: Articulate proficiency in oral and written communication.(Applying)**<br>**CO 2: Analyze the practical aspects of Grammar.(Analyzing)**<br>**CO 3: Assess effective presentation.(Evaluating)**<br>**CO4: Adapt professional ethics and soft skills for team building. (Creating)** |
| **SEMESTER VI** | | |
| **CO6CRT17** | **Cost Accounting II** | **CO1: Describe batch, job and contract costing (Understand)**<br>**CO2: Distinguish between transport costing and contract costing (Understand)**<br>**CO3: Prepare process account, joint product and by-product (Apply)** |



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| | | **C04: Apply marginal costing methods in decision making (Apply)**<br>**CO5: Prepare different types of budget (Apply)** |
| **CO6CRT18** | **Advertisement & Sales Management** | **CO1: Discuss basic aspects of advertising including the types of and ethics in advertising (Understand)**<br>**CO2: Describe advertisement appeal, ad layout and media in advertising. (Understand)**<br>**CO3: Explain methods of measuring advertisement effectiveness. (Understand)**<br>**C04: Articulate strategies and techniques of effecting sales promotion and personal selling required for successful conduct of business. (Apply)** |
| **CO6CRT19** | **Auditing & Assurance** | **CO1: Explain the basic concepts of different types of audits and procedures involved in. (Understand)**<br>**CO2: Describe the actions required in the various steps of audit process. (Understand)**<br>**CO3: Explain duties and responsibilities of auditors. (Understand)**<br>**CO4: Define the importance of internal control, Special Audits and Investigation in an organization. (Remember)**<br>**CO5: Describe the qualifications, principles and procedures required to undertake a valid and efficient auditing. (Understand)** |



DEVA MATHA COLLEGE KURAVILANGAD

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| **CO6CRT20** | **Management Accounting** | **CO1: Explain management accounting, its objectives, functions, limitations and difference with financial accounting and cost accounting. (Understand)**<br>**CO2: Describe various tools and techniques used by management accountants for financial statement analysis. (Understand)**<br>**CO3: Summarize the basic framework of financial reporting using management accounting. (Understand)**<br>**CO4: Employ ratio analysis of financial statements and interpret the financial statement using ratios. (Apply)**<br>**CO5: Analyse fund flow and cash flow statements and explain the same in real business/accounting cases.** |
| **CO6OCT03** | **Co-operation-Accounting for Co-operative Societies** | **CO1: Explain meaning and importance of cooperative Accounting.(Understanding level)**<br>**CO2:Discuss the Sources of funds in a cooperative societies.(Understanding level)**<br>**CO3: Compute the trial balance of different types of co operative societies.(Apply level)**<br>**CO4: Construct the final accounts of co operative society ( Creating level)**<br>**CO5: Describe the process of co operative audit.( Understanding level)** |



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| **CO6PR01** | **Project and Viva** | **CO1: to explain the process of conducting a research project**<br>**CO2: to identify the issues of society related to the subject which is relevant to conduct research study**<br>**CO3:to prepare a project report as per academic requirements.** |



DEVA MATHA COLLEGE KURAVILANGAD

| **Department of Physical Education - Open Course** | |
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| **PROGRAMME SPECIFIC OUTCOMES** | |
| **PSO1** | **Education through physical activities for the development of the total personality of an individual. (apply)** |
| **PSO2** | **Healthy lifestyles and its maintenance.(apply)** |
| **PSO3** | **Knowledge of sports and games, events, and awards.(understand)** |

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| **PE5OPT01** | **Physical Health & Life Skills Education** | **CO 1 – Describe the basics of sports science (understand level)**<br>**CO 2 – Describe about health and nutrition. (Understand level)**<br>**CO 3 – Examine about the need of safety education, first aid and health promotive measures (analyze level)**<br>**CO 4 – Examine the value of sports in daily life (analyze level)**<br>**CO 5- Understand the significant International and National sports events and the major sports awards ( Understand level)** |

Principal
Deva Matha College
Kuravilangad - 686 633



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