HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

(Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: I BA ENGLISH**

Course Code:23UENCC21	**Staff Name: Dr. J. Ahamed Meeran** **Mr. S. Mohamed Rowther** **Dr. H. Rakhiba** **Mr. S. Abubacker Siddiq**

Course Name: BRITISH LITERATURE - I

Unit: I - Dr. H. Rakhiba	
Topics to be covered	**No. of Hours**
Francis Bacon - Of Truth , Of Adversity	5
Oliver Goldsmith – A City Night- Piece	5
Joseph Addison & Richard Steele – The Spectator Club, On Gratitude, On Giving Advice	5
Total	**15**

Unit: II - Dr. H. Rakhiba	
Topics to be covered	**No. of Hours**
Robert Jamieson – Robinhood and The Monk	3
Robert Edgar Burns – The Potter	3
Anne Bradstreet - Prologue	3
William Blake – The Chimney Sweeper	3
John Keats – Endymion Book - 1	3
Total	**15**

Unit: III- Mr. S. Abubacker Siddiq	
Topics to be covered	**No. of Hours**

P.B. Shelley – Arethusa & Hymn to Intellectual Beauty	4
William Wordsworth – Ode: To Intimation & Immorality	4
Lord Byron – She Walks in Beauty	3
John Milton – Paradise Lost Book - IV	4
Total	**15**

Unit: IV – Mr. S. Mohamed Rowther	
Topics to be covered	**No. of Hours**
Christopher Marlowe – Doctor Faustus	5
Francis Beaumont & John Fletcher – Philaster	5
Oliver Goldsmith – She Stoops to Conquer	5
Total	**15**

Unit: V – Drama - Dr. J. Ahamed Meeran **Mr. S. Abubacker Siddiq**	
Topics to be covered	**No. of Hours**
Mary Shelley – Captain Walton's Conclusion- Frankenstein	5
Jonathan Swift – Voyage to Lilliput / Houyhnhnms- Gulliver's Travels	5
Charles Dickens – Recalled to Life – A Tale of Two Cities	5
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: I BA ENGLISH**
Course Code:23UENCC22	**Staff Name: Ms. S. Nasreen Banu** **Ms. A. J. Saleema Kathoon**

Course Name: AMERICAN LITERATURE - I

Unit: I – Ms. S. Nasreen Banu	
Topics to be covered	**No. of Hours**
E. M. Foster – The Prologue	7
Walt Whitman – Passage to India (Lines 1- 68) & O Captain , My Captain !	8
Total	**15**

Unit: II - Ms. A. J. Saleema Kathoon	
Topics to be covered	**No. of Hours**
Sherman Alexie – Crow Testament & Evolution	5
Edgar Allan Poe – The Raven	5
Emily Dickinson – Because I Could Not Stop For Death	5
Total	**15**

Unit: III- Ms. S. Nasreen Banu	
Topics to be covered	**No. of Hours**
Edgar Allan Poe – The Philosophy of Composition	5
Martin Luther King Jr – I Have a Dream	5
Abraham Lincoln – Gettysburg Address	5

Total	**15**

Unit: IV – Ms. A.J. Saleema Kathoon	
Topics to be covered	**No. of Hours**
Tennessee Williams – The Glass Menagerie	7
Eugene O' Neill – Emperor Jones	8
Total	**15**

Unit: V – Ms. S. Nasreen Banu & Ms. A. J. Saleema Kathoon	
Topics to be covered	**No. of Hours**
Harriet Beecher Stowe – Uncle Toms' Cabin	4
Herman Melville – Billy Budd	4
Washington Erving – The Legend of the Sleepy Hollow & Rip Van Winkle	4
Leslie Marmon Silko - Ceremony	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: I BA ENGLISH**
Course Code: 23UENGE21	**Staff Name: Dr. H. Mohamed Meeran** **Dr. J. Ahamed Meeran** **Mr. S. Mohamed Rowther**

Course Name: HISTORY OF ENGLISH LITERATURE - II

Unit: I - Mr. S. Mohamed Rowther	
Topics to be covered	**No. of Hours**
History of British Literature	12
Total	**12**

Unit: II - Mr. S. Mohamed Rowther	
Topics to be covered	**No. of Hours**
The Renaissance Period (1350- 1660)	12
Total	**12**

Unit: III - Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
The Late Seventeenth and The Eighteenth Centuries (1660- 1800)	12
Total	**12**

Unit: IV - Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
Well Made Play (Drama of Ideas- Shaw & Ibsen)	12

Total	**12**

Unit: V - Dr. H. Mohamed Meeran	
Topics to be covered	**No. of Hours**
The Victorian Age (1832 – 1901)	12
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: I BA ENGLISH**

Course Code: 23UENSE21	**Staff Name: Mr. M. Mathan** **Ms. B. Shameema**

Course Name: PHILOSOPHY FOR LITERATURE

Unit: I– Mr. M. Mathan	
Topics to be covered	**No. of Hours**
The World of Greeks	6
Total	**6**

Unit: II - Ms. B. Shameema	
Topics to be covered	**No. of Hours**
Robert Frost – West – Running Brook	2
S.T. Coleridge – Kubla Khan	2
P. B. Shelley – Ozymandias	1
Keats – Endymion	1
Total	**6**

Unit: III– Mr. M. Mathan	
Topics to be covered	**No. of Hours**
Enlightenment and After-Rene Descartes	6
Total	**6**

Unit: IV - Ms. B. Shameema	
Topics to be covered	**No. of Hours**
Emily Dickinson – The Brain is wider than the Sky	2
Walt Whitman – On the Beach at Night Alone	2
William Ross Wallace – The Liberty Bell	1
D. H. Lawrence – How Beastly the Bourgeois Is ?	1
Total	**6**

Unit: V - Mr. M. Mathan / Ms. B. Shameema	
Topics to be covered	**No. of Hours**
Nihilism, Existentialism & Afterwards	**6**
Total	**6**

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For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: I BA ENGLISH**

Course Code: 23UENSE22	**Staff Name: Dr. J. Ahamed Meeran** **Mr. P.M Noushad** **Mr. A. Rajamani**

Course Name: ENGLISH FOR COMMUNICATION

Unit: I - Mr. P.M Noushad	
Topics to be covered	**No. of Hours**
Communication : Basic Communication Styles	6
Unit: II- Mr. A. Rajamani	
Topics to be covered	**No. of Hours**
Types of Communication	6
Unit: III - Mr. A. Rajamani	
Topics to be covered	**No. of Hours**
Effective Communication Skills	6
Unit: IV- Mr. P.M Noushad	
Topics to be covered	**No. of Hours**
Skills to be acquired in communication	6
Unit: V - Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
Application of Learning	6
Total	**30**

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For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ENGLISH**
Course Code: 23UENCC41	**Staff Name: Ms. S. Nasreen Banu** **Ms. A.J. Saleema Kathoon** **Mr. S. Abubacker Siddiq**
Course Name: WORLD LITERATURE IN TRANSLATION	

Unit: I - POETRY - Mr. S. Abubacker Siddiq	
Topics to be covered	**No. of Hours**
Dante- Ulysses' Last Voyage	4
Johann Wolfgang Von Goethe- The Violet/The Rose Bush on the Moor	4
Victor Hugo- Tomorrow at Dawn	3
Kahlil Gibran – Your Children are not Your Children	4
Total	**15**

Unit: II – POETRY- Ms. A.J. Saleema Kathoon	
Topics to be covered	**No. of Hours**
Pablo Neruda – If You Forget Me	2
Ovid – Pyramus/ Thisbe	3
Alexander Pushkin – The Gypsies	2
Horace- Satires	3
Gabriel Okra – The Mystic Drum	3
Jean Arasayanagam- Two Dead Soldiers	2

Total	**15**

Unit: III – PROSE-Ms. A.J. Saleema Kathoon	
Topics to be covered	**No. of Hours**
Walter Benjamin- Unpacking My Library	8
Montaigne – Of Friendship	7
Total	**15**

Unit: IV – DRAMA- Ms. S. Nasreen Banu	
Topics to be covered	**No. of Hours**
Marie Clements – The Unnatural and Accidental Woman	5
Samuel Beckett – Waiting for Godot	5
Federico Garcia Lorca - Yerma	5
Total	**15**

Unit: V – FICTION- Ms. S. Nasreen Banu	
Topics to be covered	**No. of Hours**
Gabriel Garcia Marquez – A Very Old man with Enormous Wings	4
Ivan S. Turgenev – The District Doctor	3
Plautus – The Pot of Gold	4
Antoine de Saint – Exupery-The Little Prince	4
Total	**15**

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For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ENGLISH**
Course Code: 23UENCC42	**Staff Name: Ms. S. Nasreen Banu** **MS. A.J. Saleema Kathoon** **Mr. P. M. Noushad** **Mr. A. Rajamani**

Course Name: ASPECTS OF LANGUAGE AND LINGUISTICS

Unit: I - Mr. A. Rajamani	
Topics to be covered	**No. of Hours**
George Yule - Introduction to Study of Language	8
Ralph Fasold & Jeff Connor – Linton – An Introduction to Language and Linguistics	7
Total	**15**

Unit: II - Mr. A. Rajamani	
Topics to be covered	**No. of Hours**
David Holmes – Theory of Communication – From Communication Theory	4
Alfred Solomonick – General Semiotics – From the Theory of General Semiotics	4
Linguistics, Sign, Language & Culture	4
Language & Writing	3
Total	**15**

Unit: III – Ms. A.J. Saleema Kathoon

Topics to be covered	No. of Hours
Ferdinand De Saussure – Introduction to Sassurian Structuralism	5
Daniel Jones- Introduction to Phonology & Morphology	5
Noam Chomsky – Syntax & Semantics From Syntactic Structures	5
Total	**15**

Unit: IV - Ms. S. Nasreen Banu	
Topics to be covered	**No. of Hours**
Peter Roach – Computing in Linguistics & Phonetics – Introductory Reading	15
Total	**15**

Unit: V – Mr. P M. Noushad	
Topics to be covered	**No. of Hours**
F.T.Wood – Linguistics Changes – English Language Varieties- Idiolect, Dialect, Pidgin & Creole	4
Tej K. Bhatia, William C. Ritchie – Bilingualism / Multilingualism	4
Trevor A. Harley – The Psychology of Language	3
Alexander Clark, Chris Fox & Shalom Lappin – Natural Learning Process- The Handbook of Computational Linguistics and Natural Language Processing	4
Total	**15**

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For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ENGLISH**
Course Code: 23UENGE41	**Staff Name: Mr. S. Mohamed Rowther** **Mr. S. Abubacker Siddiq** **Mr. P M. Noushad**
Course Name: FILM AND LITERATURE	

Unit: I - Mr. S. Mohamed Rowther	
Topics to be covered	**No. of Hours**
Theories, Practices, Forms , Adaptations, Migrations – William Shakespeare's King Lear (1606), Akira Kurasawa, Ran (1985), Gregory Kozintsev, King Lear (1971)	9
Total	9

Unit: II - Mr. S. Abubacker Siddiq	
Topics to be covered	**No. of Hours**
Arthur C Clark, The Sentinel (1948)	3
Encounter in the Dawn (1953)	3
Stanley Kurbrick, 2001: A Space Odyssey(1968)	3
Total	9
Unit: III – Mr. P M. Noushad	
Topics to be covered	**No. of Hours**
Cinema from Novella and Dramatic Literature	9
Total	9

Unit: IV - Mr. S. Mohamed Rowther	
Topics to be covered	**No. of Hours**
Boris Pasternak, Dr Zhivago (1957) David Lean, Dr Zhivago(1965)	9
Total	**9**

Unit: V – Mr. P M. Noushad	
Topics to be covered	**No. of Hours**
Joseph Conrad – Heart of Darkness (1902)	5
Francis Ford Coppola – Apocalyse Now (1979)	4
Total	**9**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ENGLISH**
Course Code: 23UENSE41	**Staff Name: Dr. H. Mohamed Meeran** **Dr. J. Ahamed Meeran** **Mr. P. M. Noushad** **Mr. A. Rajamani**
Course Name: ENGLISH FOR CAREER	

Unit: I - Dr. H. Mohamed Meeran	
Topics to be covered	**No. of Hours**
Definition of English Language – Characteristic Features	6
Total	**6**
Unit: II - Dr. H. Mohamed Meeran	
Topics to be covered	**No. of Hours**
Purpose of English Language	6
Total	**6**
Unit: III - Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
Major Roles Played by English Language in Education and Various Career Choices	6
Total	**6**
Unit: IV – Mr. P. M. Noushad	
Topics to be covered	**No. of Hours**
English Language as an Identity to Popular Culture	6
Total	**6**

Unit: V – Mr. A. Rajamani	
Topics to be covered	**No. of Hours**
The Major Developments happening in the Contemporary World by using English Language	6
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ENGLISH**
Course Code: 23UENSE42	**Staff Name: Dr. H. RAKHIBA**

Course Name: ENGLISH FOR BUSINESS

Unit: I - Dr. H. Rakhiba	
Topics to be covered	**No. of Hours**
Business English - Definition and Difference	6
Total	**6**
Unit: II - Dr. H. Rakhiba	
Topics to be covered	**No. of Hours**
Highlights / Significance / Essentials of Business English	6
Total	**6**
Unit: III - Dr. H. Rakhiba	
Topics to be covered	**No. of Hours**
Needs of Business English	6
Total	**6**
Unit: IV – Dr. H. Rakhiba	
Topics to be covered	**No. of Hours**
The Role of Business English in English Language Learning – Education as an Instrumental Factor in Learning Business English	6
Total	**6**
Unit: V – Dr. H. Rakhiba	

Topics to be covered	No. of Hours
Economic Development through Business English	6
Total	6

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For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ENGLISH**
Course Code: 23UGEVS41	**Staff Name: Dr. J. Ahamed Meeran**
Course Name: ENVIRONMENTAL STUDIES	

Unit: I - Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
Earth and its Environment	3
Total	**3**
Unit: II - Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
Ecology and Eco System Concepts	3
Total	**3**
Unit: III - Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
Biodiversity of India	3
Total	**3**
Unit: IV – Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
Pollution and Global Issues	3
Total	**3**
Unit: V – Dr. J. Ahamed Meeran	

Topics to be covered	No. of Hours
Development and Disaster Management	3
Total	**3**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: III BA ENGLISH**

Course Code: 20UENC61	**Staff Name: Dr. J. Ahamed Meeran** **Mr. S. Mohamed Rowther** **Ms. A.J. Saleema Kathoon** **Dr. H. Rakhiba**

Course Name: SHAKESPEARE

Unit: I - Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
General Shakespeare	15
Total	**15**

Unit: II - Mr. S. Mohamed Rowther	
Topics to be covered	**No. of Hours**
Antony and Cleopatra	15
Total	**15**

Unit: III - Dr. H. Rakhiba	
Topics to be covered	**No. of Hours**
Henry-IV(Part I)	15
Total	**15**

Unit: IV - Ms. A.J. Saleema Kathoon	
Topics to be covered	**No. of Hours**
The Tempest	15
Total	**15**
Unit: V - Mr. S. Mohamed Rowther	
Topics to be covered	**No. of Hours**
A Midsummer Night's Dream	**15**
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: III BA ENGLISH**

Course Code: 20UENC62	**Staff Name: Dr. H. Mohamed Meeran** **Dr. J. Ahamed Meeran** **Mr. P. M. Noushad**

Course Name: TRANSLATION STUDIES

Unit: I - Dr. H. Mohamed Meeran	
Topics to be covered	**No. of Hours**
Definition and the Concepts of Translation	**8**
History of Translation	**7**
Total	**15**

Unit: II - Dr. H. Mohamed Meeran	
Topics to be covered	**No. of Hours**
Kinds and Methods of Translation	8
Translation Procedures and Problems	7
Total	**15**

Unit: III - Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
The Limitation of Translation	**7**
The Role of Translator	**8**
Total	**15**

Unit: IV - Mr. P. M. Noushad	
Topics to be covered	**No. of Hours**
Problem in Translating Prose, Poetry and Drama	15
Total	15

Unit: V - Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
Translation Exercises	15
Total	15

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Department: ENGLISH	**Programme: III BA ENGLISH**

Course Code: 20UENC63	**Staff Name: Dr. J. Ahamed Meeran** **Ms. S. Nasreen Banu** **Mr. S. Abubacker Siddiq**

Course Name: NEW LITERATURES

Unit: I – Poetry - Mr. S. Abubacker Siddiq	
Topics to be covered	**No. of Hours**
Maya Angelou- Woman Work	4
Bruce Dawe- Life Cycle	3
Wilfred Campbell- The Winter Lakes	4
Margaret Atwood- Journey to the Interior	4
Total	**15**

Unit: II – Prose - Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
Chinua Achebe- The Novelist as a Teacher	15
Total	**15**

Unit: III – Short Stories - Ms. S. Nasreen Banu	
Topics to be covered	**No. of Hours**
Alice Munro- The Turkey Season	8

Sinclair Ross- The Lamp at Noon	7
Total	**15**

Unit: IV – Drama - Ms. S. Nasreen Banu	
Topics to be covered	**No. of Hours**
George Ryga- The Ecstasy of Rita Joe	15
Total	**15**

Unit: V – Fiction - Ms. S. Nasreen Banu	
Topics to be covered	**No. of Hours**
Amitav Ghosh- The Shadow Lines	15
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: III BA ENGLISH**

Course Code: 20UENC64	**Staff Name: Ms. A.J. Saleema Kathoon** **Dr. H. Rakhiba** **Ms. B. Shameema**

Course Name: WOMEN'S WRITINGS IN ENGLISH

Unit: I - Ms. A.J. Saleema Kathoon / Dr. H. Rakhiba	
Topics to be covered	**No. of Hours**
Gwendolyn Brooks- The Mother	4
Alice Walker- Expect Nothing	4
Judith Wright- Woman to Child	4
Kishwar Naheed -We Sinful Women	3
Total	**15**

Unit: II - Ms. A.J. Saleema Kathoon / Dr.H. Rakhiba	
Topics to be covered	**No. of Hours**
Toni Morrison- The Bird in Our Hand: Is it Living or Dead?	8
Chimamanda Ngozi Adichie- I Decided to Call Myself a Happy Feminist	7
Total	**15**

Unit: III - Dr. H. Rakhiba	
Topics to be covered	**No. of Hours**
Kate Chopin- The Story of An Hour	5
Maxine Hong Kinston- No Name Women	5

Mrinal Pande- Girls	5
Total	**15**

Unit: IV - Ms. A.J. Saleema Kathoon	
Topics to be covered	**No. of Hours**
Suzan – Lori Parks' - Topdog/Underdog	15
Total	**15**

Unit: V - Ms. B. Shameema	
Topics to be covered	**No. of Hours**
Zora Neale Hurston's - Their Eyes were Watching God	15
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: III BA ENGLISH**

Course Code: 20UENC65	**Staff Name: Mr. A. Rajamani** **Ms. B. Shameema** **Ms. N. Vennila**

Course Name: ENGLISH FOR COMPETITIVE EXAMINATIONS

Unit: I - Mr. A. Rajamani	
Topics to be covered	**No. of Hours**
Basics of English	6
Common Errors in English	6
Total	**12**

Unit: II - Ms. N. Vennila	
Topics to be covered	**No. of Hours**
Portmanteau Words	4
Vocabulary and Anagrams	4
Acronyms and Bacronyms	4
Total	**12**

Unit: III - Ms. B. Shameema	
Topics to be covered	**No. of Hours**
Homophones	4
Heteronyms	4
Twin Words in English	4

Total	**12**

Unit: IV - Ms. N. Vennila	
Topics to be covered	**No. of Hours**
Some Notions, Conventional and Idiomatic Expression	4
Phrasal Verbs	4
Voice	4
Total	**12**

Unit: V - Mr. A. Rajamani	
Topics to be covered	**No. of Hours**
Reading Comprehension	4
Letter Writing	4
Report Writing	4
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: III BA ENGLISH**

Course Code: 20UENE61	**Staff Name: Mr. S. Abubacker Siddiq** **Mr. P.M. Noushad** **Mr. M. Mathan**

Course Name: LITERARY CRITICISM - II

Unit: I - Mr. M. Mathan	
Topics to be covered	**No. of Hours**
Trends in Criticism	12
Total	**12**

Unit: II - Mr. P.M. Noushad	
Topics to be covered	**No. of Hours**
T. S. Eliot - Tradition and Individual Talent	12
Total	**12**

Unit: III - Mr. M. Mathan	
Topics to be covered	**No. of Hours**
Cleanth Brooks- Language of Paradox	12
Total	**12**

Unit: IV - Mr. S. Abubacker Siddiq	
Topics to be covered	**No. of Hours**
Elaine Showalter - Towards a Feminist Poetics	12

Total	**12**

Unit: V - Mr. M. Mathan	
Topics to be covered	**No. of Hours**
Stanley Fish- Is There a Text in this Class?	12
Total	**12**

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Department: ENGLISH	**Programme: III BA ENGLISH**

Course Code: 20UENS61	**Staff Name: Mr. P.M. Noushad** **Ms. B. Shameema** **Ms. N. Vennila**

Course Name: LIFE SKILLS

Unit: I - Mr. P.M. Noushad	
Topics to be covered	**No. of Hours**
Introduction- Life Skills	6
Total	**6**

Unit: II - Ms. B. Shameema	
Topics to be covered	**No. of Hours**
Attitude	6
Total	**6**

Unit: III - Ms. B. Shameema	
Topics to be covered	**No. of Hours**
Emotional Intelligence	6
Total	**6**

Unit: IV - Ms. N. Vennila	
Topics to be covered	**No. of Hours**
Interpersonal Skills	6

Total	**6**

Unit: V - Ms. N. Vennila	
Topics to be covered	**No. of Hours**
Self-Development	6
Total	**6**

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TEACHING PLAN
For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: I MA ENGLISH**

Course Code: 23PENCC21	**Staff Name: Mr. S. Velmurugan** **Mr. K. Athinarayanan** **Ms. B. Nagia**

Course Name: AMERICAN LITERATURE

Unit: I–Poetry - Mr. S. Velmurugan	
Topics to be covered	**No. of Hours**
Walt Whitman – Out of the Cradle Endlessly Rocking	2
Emily Dickinson – The Last Night That She Lived & The Soul Selects Her Own Society	2
Robert Frost – After Apple Picking	1
E. E. Cummings – Cambridge Ladies	2
Wallace Stevens – Anecdote of the Jar	2
Denis Levertor – Scenario & Thinking of EL Salvador	2
Robert Lowell – Skunk Hour	2
Sylvia Plath – Lady Lazarus	1
Anne Lexton – Wanting to Die	2
Adrienne Rich – Snapshots of a Daughter-in-law	2
Total	**18**

Unit: II–Poetry & Prose - Mr. K. Athinarayanan	
Topics to be covered	**No. of Hours**
Victor Herandez Cruz – Today is a day of great joy	3
Amiri Baraka – An Agony as Now	3
Gwendolyn Brooks – Kitchenette Building	3
Joy Harijo - Remember	2
Emerson – The American Scholar	3
Amy Tan – Mother Tongue	2
Thoreau - Walden	2
Total	**18**

Unit: III–Drama - Mr. K. Athinarayanan	
Topics to be covered	**No. of Hours**
Arthur Miller – Death of a Salesman	5
Tennessee Williams – A Streetcar Named Desire	4
Marsha Norman – Night Mother	5
Ntozake Shange – For Coloured Girls	4
Total	**18**
Unit: IV– Fiction / Short Story – Ms. B. Nagia	
Topics to be covered	**No. of Hours**
Edgar Allan Poe – The Cask of Amontillado	4
Herman Melville – Bartleby the Scrivener	3
N.Scott Moma Day – The House Made of Dawn	4
Toni Morison - Beloved	3
Kate Chopin – The Awakening	4
Total	**18**

Unit: V - Autobiography - Mr. K. Athinarayanan	
Topics to be covered	**No. of Hours**
Excerpts from – MalcolmX, Hispanic Women Writing	9

Cherrie Moraga – Getting Home Alive	9
Total	**18**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: I MA ENGLISH**

Course Code: 23PENCC22	**Staff Name: Mr. S. Velmurugan** **Mr. K. Athinarayanan,** **Ms. M. Rizvana** **Ms. B. Nagia** **Mr. V. Rajesh Kanna**

Course Name: SHAKESPEARE STUDIES

Unit: I – Mr. K. Athinarayanan	
Topics to be covered	**No. of Hours**
Shakespeare Theatre: Theater Conventions; Sources ; Problems of categorization	18
Total	**18**

Unit: II – Ms. B. Nagia	
Topics to be covered	**No. of Hours**
Sonnets- 12, 65, 86, 130	6
Much Ado About Nothing	6
Winter's Tale	6
Total	**18**

Unit: III – Mr. S. Velmurugan	
Topics to be covered	**No. of Hours**
Othello	18
Total	**18**

Unit: IV–Mr. V Rajesh Kanna	
Topics to be covered	**No. of Hours**
Henry – IV Part I	18
Total	**18**

Unit: V –Ms. M. Rizvana	
Topics to be covered	**No. of Hours**
Shakespeare Criticism	18
Total	**18**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: I MA ENGLISH**

Course Code: 23PENCC23	**Staff Name: Ms. S. Anees Fathima** **Mr. S. Velmurugan** **Ms. A. Sumaya Banu** **Mr. K. Athinarayanan**

Course Name: POST-COLONIAL THEORY AND LITERATURE

Unit: I– Fiction- Ms. S. Anees Fathima & Ms. A. Sumaya Banu	
Topics to be covered	**No. of Hours**
Joseph Conrad – Heart of Darkness	9
E. M. Forster – A Passage to India	9
Total	**18**

Unit: II– Fiction - Ms. S. Anees Fathima	
Topics to be covered	**No. of Hours**
Chinua Achebe – Things Fall Apart	6
Salman Rushdie – Midnight's Children	6
Thomas King – The One About Coyote Going West	6
Total	**18**

Unit: III – Fiction - Mr. K. Athinarayanan	
Topics to be covered	**No. of Hours**
Samuel Selvon – The Lonely Londoners	9
BapsiSidhwa – Ice Candy Man	9
Total	**18**

Unit: IV–Poetry - Mr. S. Velmurugan	
Topics to be covered	**No. of Hours**
Arunkoltkar – The Priest, A Low Temple, Yeshwant Rao , An Old Woman, Scratch	6
A.K. Ramanujan – Returning, Death of Poem, No Fifth Man, Birthdays, Farewells	6
Kofi Awonoor – Easter Dawn, The Weaver Bird, Songs of Sorrow, Song of War	6
Total	**18**

Unit: V– Poetry - Ms. A. Sumaya Banu	
Topics to be covered	**No. of Hours**
Leopold Senghor – In Memorium, Night of Sine, All Day Long	6
Grace Nichols – In My Name Of course when they asked for poems about the 'realities' of black women, Praise Song for My Mother, Caribbean Women Prayer	6
James Reaney - Maps	3
George Bowering – Grand Father	3
Total	**18**

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For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: I MA ENGLISH**

Course Code:23PENDE21	**Staff Name: Ms. M. Rizvana** **Ms. K. Fathima Nasreen** **Mr. V. Rajesh Kanna**

Course Name: APPROACHES TO ENGLISH LANGUAGE TEACHING

Unit: I - Ms. M. Rizvana	
Topics to be covered	**No. of Hours**
A Brief History of Language Teaching	15
Total	**15**

Unit: II - Ms. K. Fathima Nasreen	
Topics to be covered	**No. of Hours**
Nature of Approaches and Methods in Language Teaching	15
Total	**15**

Unit: III – Ms. M. Rizvana	
Topics to be covered	**No. of Hours**
Current Communicative Approaches	15
Total	**15**

Unit: IV - Ms. M. Rizvana	
Topics to be covered	**No. of Hours**
Teaching Aspects	15
Total	**15**

Unit: V – Mr. V. Rajesh Kanna	
Topics to be covered	**No. of Hours**
Use of Media in ELT	15
Total	**15**

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For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: I MA ENGLISH**

Course Code: 23PENGE21	**Staff Name: Ms. S. Anees Fathima** **Ms. A. Sumaya Banu** **Ms. B. Nagia**

Course Name: A GLIMPSE OF NOBEL LAUREATES

Unit: I - Ms. S. Anees Fathima	
Topics to be covered	**No. of Hours**
Pablo Neruda – If You Forget, A Song of Despair, Ode to the Onion & Your Laughter	6
Octavio Paz – As One Listen to the Rain, The Street	3
Rudyard Kipling – The Power of the Dog	3
Seamus Heaney - Oracle	3
Total	**15**

Unit: II - Ms. A. Sumaya Banu	
Topics to be covered	**No. of Hours**
Nadine Gordimer - Loot	3
Thomas Mann - Disorder and Early Sorrow , He Comes Round the Corner	6
J.M. Coetzee – Excerpts from Disgrace	3
Toni Morrison - Excerpts from Sula	3
Total	**15**

Unit: III - Ms. S. Anees Fathima	
Topics to be covered	**No. of Hours**

Harold Pinter – The Caretaker	8
George Bernard Shaw – Man and Superman	7
Total	**15**

Unit: IV - Ms. B. Nagia	
Topics to be covered	**No. of Hours**
Alice Munro – The Turkey Season, Differently, Runaway, The Bear Came Over the Mountain, Boys and Girls	15
Total	**15**

Unit: V - Ms. S. Anees Fathima	
Topics to be covered	**No. of Hours**
John Steinbeck – The Pearl	8
Gabriel Garcia Marquez – One Hundred Years of Solitude	7
Total	**15**

B. Nagia

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: ENGLISH	**Programme: I MA ENGLISH**

Course Code:23PENSE21	**Staff Name: Mr. S. Velmurugan** **Ms. K. Fathima Nasreen**

Course Name: COMMUNICATION SKILLS

Unit: I - Ms. K. Fathima Nasreen	
Topics to be covered	**No. of Hours**
Communication : An Introduction	6
Total	**6**

Unit: II - Ms. K. Fathima Nasreen	
Topics to be covered	**No. of Hours**
Oral / Aural Communication	6
Total	**6**

Unit: III – Mr. S. Velmurugan	
Topics to be covered	**No. of Hours**
Corporate Communication	6
Total	**6**

Unit: IV - Mr. S. Velmurugan	
Topics to be covered	**No. of Hours**
Verbal Communication - Written	6
Total	**6**

Unit: V – Mr. S. Velmurugan	
Topics to be covered	**No. of Hours**
Practical Assessment	6
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-2025(EVEN SEMESTER)

Department: ENGLISH	**Programme: II MA English**

Course Code:23PENCC41	**Staff Name: Ms. A. Sumaya Banu** **Ms. B. Nagia** **Ms. S. Hibah**

Course Name: 21st CENTURY MILLENNIAL LITERATURE AND CULTURE

Unit: I - Ms. A. Sumaya Banu	
Topics to be covered	**No. of Hours**
Blue Studies	18
Total	**18**

Unit: II – Ms. B. Nagia	
Topics to be covered	**No. of Hours**
Animal Studies	18
Total	**18**
Unit: III – Ms. S. Hibah	
Topics to be covered	**No. of Hours**
Medical Humanities	18
Total	**18**

Unit: IV - Ms. B. Nagia	
Topics to be covered	**No. of Hours**
Climate Studies	18

Total	**18**

Unit: V - Ms. A. Sumaya Banu	
Topics to be covered	**No. of Hours**
Disability Studies	18
Total	**18**

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TEACHING PLAN

For the Academic Year 2024-2025(EVEN SEMESTER)

Department: ENGLISH	**Programme: II MA English**

Course Code: 23PENCC42	**Staff Name: Ms. S. Anees Fathima** **Mr. K. Athinarayanan** **Ms. M. Rizvana**

Course Name: SUBALTERN STUDIES

Unit: I – Poetry - Ms. S. Anees Fathima	
Topics to be covered	**No. of Hours**
Imayam - You and I & The Rattle and The Cow that Changed Heads	3
L.S. Rokade – To Be or Not to Be Born	3
Bapurao Jagtap – This Country is Broken	3
K.V. Sirumalesh – The Untouchables	3
Claude Mckay – If We Must Die	3
Langston Hughes – Dinner Guest: Me	3
Total	**18**

Unit: II – Prose- Ms. M. Rizvana/ Mr. K. Athinarayanan	
Topics to be covered	**No. of Hours**
Marti Luther King(Jr)- I Have a Dream	9
Gayathri C. Spivak – Can the Subaltern Speak?	9
Total	**18**

Unit: III – Drama - Ms. S. Anees Fathima/ Mr. K. Athinarayanan	
Topics to be covered	**No. of Hours**
C.T. Indra - Nandan	9

Vijay Tendulkar - Kanyadan	9
Total	**18**

Unit: IV – Fiction - Mr. K. Athinarayanan	
Topics to be covered	**No. of Hours**
Malala Yousafzai & Christina Lamb – I am Malala	9
Bama - Karukku	9
Total	**18**

Unit: V – Fiction - Ms. M. Rizvana	
Topics to be covered	**No. of Hours**
Chinua Achebe – Things Fall Apart	9
Arundhati Roy – God of Small Things	9
Total	**18**

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TEACHING PLAN

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Department: ENGLISH	**Programme: II MA English**

Course Code: 23PENGE41	**Staff Name: Ms. S. Anees Fathima** **Mr. S. Velmurugan** **Mr. K. Athinarayanan** **Ms. M. Rizvana**

Course Name: ENGLISH LITERATURE FOR NTA, NET, SET & GATE

Unit: I - Ms. M. Rizvana	
Topics to be covered	**No. of Hours**
Teaching and Research Aptitude	12
Total	**12**

Unit: II – History of English Literature - Mr. K. Athinarayanan	
Topics to be covered	**No. of Hours**
The Elizabethan Age	2
The Jacobean Age	2
The Restoration Period	2
The Augustan age	2
The Victorian Age	2
The Twentieth Century/ Contemporary Period	2
Total	**12**

Unit: III – American & Non British Literatures- Ms. S. Anees Fathima	
Topics to be covered	**No. of Hours**
Historical Perspective and Background	2
Colonization, Colonizers & the Colonized	2
Commonwealth Literature	2

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Department: ENGLISH	**Programme: II MA English**

Course Code: 23PENSE41	**Staff Name: Mr. S. Velmurugan** **Ms. K. Fathima Nasreen** **Ms. A. Sumaya Banu** **Ms. B. Nagia**

Course Name: EMPLOYABILITY SKILLS

Unit: I – Ms. K. Fathima Nasreen	
Topics to be covered	**No. of Hours**
Behavioral Skills – Personal Strength Analysis- Ethics, Values & Etiquette- Social Etiquette – Role Modeling	12
Total	**12**

Unit: II – Mr. S. Velmurugan	
Topics to be covered	**No. of Hours**
English Literacy – Functional English – Reading - Written English- Communication Skills – Self Introduction – Verbal and Non – Verbal Communication – Campus to Work	12
Total	**12**

Unit: III – Ms. A. Sumaya Banu	
Topics to be covered	**No. of Hours**
IT Literacy – Basics of Computers – Operating System – MS Word- MS Excel – Web Browsers and Search Engines – Email- Mobile Application	12
Total	**12**

Unit: IV– Ms. B. Nagia	
Topics to be covered	**No. of Hours**
Entrepreneurship Skills – Maintaining Efficiency at Workplace – Occupational	12

Safety, Health and Environment Education	
Total	**12**

Unit: V – Ms. K. Fathima Nasreen	
Topics to be covered	**No. of Hours**
Career Plan- Basic Professional Skills- Resume Preparation – Mock Interview – Career Pathways – Search and apply for job	12
Total	**12**

Signature of the Dean
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Dean of Humanities
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Signature of the HOD
HEAD
PG AND RESEARCH CENTRE IN ENGLISH
HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
(AUTONOMOUS)
UTHAMAPALAYAM-625533,THENI-Dt

Signature of the Staff

HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

(Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I BA ECONOMICS**
Course Code: 23UENLL21	**Staff Name: Mr. S. Mohamed Rowther** **Mr. M. Mathan**
Course Name: GENERAL ENGLISH-II	

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
D.H.Lawrence - Snake	5
Total	**20**
Unit: III – Prose Life Story & Autobiography	
Topics to be covered	**No. of Hours**
Sudha Murty – How I taught my Grandmother to Read	6
Aaron Shepard- A Tale of Angola - How Frog Went to Heaven	6

A.P.J. Abdul Kalam – Wings of Fire (Ch- 1,2, 3)	8
Total	**20**

Unit: IV– Tenses	
Topics to be covered	**No. of Hours**
Present	4
Past	4
Future	4
Concord	3
Total	**15**

Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
Circular	3
Memo	4
Minutes of the Meeting	4
Total	**15**

Signature of the Dean

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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I BA ENGLISH**
Course Code: 23UENLL21	**Staff Name: Mr. S. Abubacker Siddiq** **Mr. M. Mathan**
Course Name: GENERAL ENGLISH-II	

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
D.H.Lawrence - Snake	5
Total	**20**
Unit: III – Prose Life Story & Autobiography	
Topics to be covered	**No. of Hours**
Sudha Murty – How I taught my Grandmother to Read	6
Aaron Shepard- A Tale of Angola - How Frog Went to Heaven	6

A.P.J. Abdul Kalam – Wings of Fire (Ch- 1,2, 3)	8
Total	**20**

Unit: IV– Tenses	
Topics to be covered	**No. of Hours**
Present	4
Past	4
Future	4
Concord	3
Total	**15**

Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
Circular	3
Memo	4
Minutes of the Meeting	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I BA HISTORY**

Course Code: 23UENLL21	**Staff Name: Ms. S. Nasreen Banu** **Ms. N. Vennila**

Course Name: GENERAL ENGLISH-II

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
D.H.Lawrence - Snake	5
Total	**20**
Unit: III – Prose Life Story & Autobiography	
Topics to be covered	**No. of Hours**
Sudha Murty – How I taught my Grandmother to Read	6
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A.P.J. Abdul Kalam – Wings of Fire (Ch- 1,2, 3)	8
Total	**20**

Unit: IV– Tenses	
Topics to be covered	**No. of Hours**
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Past	4
Future	4
Concord	3
Total	**15**

Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
Circular	3
Memo	4
Minutes of the Meeting	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc. MATHEMATICS**
Course Code: 23UENLL21	**Staff Name: Dr. J. Ahamed Meeran** **Mr. A. Rajamani**
Course Name: GENERAL ENGLISH-II	

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
D.H.Lawrence - Snake	5
Total	**20**
Unit: III – Prose Life Story & Autobiography	
Topics to be covered	**No. of Hours**
Sudha Murty – How I taught my Grandmother to Read	6
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Total	**20**

Unit: IV– Tenses	
Topics to be covered	**No. of Hours**
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Concord	3
Total	**15**

Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
Circular	3
Memo	4
Minutes of the Meeting	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc. COMPUTER SCIENCE**
Course Code: 23UENLL21	**Staff Name: Dr. H. Rakhiba** **Ms. N. Vennila**
Course Name: GENERAL ENGLISH-II	

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
D.H.Lawrence - Snake	5
Total	**20**
Unit: III – Prose Life Story & Autobiography	
Topics to be covered	**No. of Hours**
Sudha Murty – How I taught my Grandmother to Read	6
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Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
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Memo	4
Minutes of the Meeting	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc. PHYSICS**
Course Code: 23UENLL21	**Staff Name: Mr. S. Mohamed Rowther** **Ms. B. Shameema**

Course Name: GENERAL ENGLISH-II

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
D.H.Lawrence - Snake	5
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Unit: III – Prose Life Story & Autobiography	
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Topics to be covered	**No. of Hours**
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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc. CHEMISTRY**
Course Code: 23UENLL21	**Staff Name: Dr. H. Rakhiba** **Mr. A. Rajamani**
Course Name: GENERAL ENGLISH-II	

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
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Topics to be covered	**No. of Hours**
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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc. ZOOLOGY**

Course Code: 23UENLL21	**Staff Name: Ms. A. J. Saleema Kathoon** **Ms. N. Vennila**

Course Name: GENERAL ENGLISH-II

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
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Total	**20**
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Topics to be covered	**No. of Hours**
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Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
Circular	3
Memo	4
Minutes of the Meeting	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Com. COMMERCE**
Course Code: 23UENLL21	**Staff Name: Mr. P.M. Noushad** **Ms. B. Shameema**
Course Name: GENERAL ENGLISH-II	

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
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Total	**20**

Unit: III – Prose Life Story & Autobiography	
Topics to be covered	**No. of Hours**
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Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
Circular	3
Memo	4
Minutes of the Meeting	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.A. ARABIC**
Course Code: 23UENLL21	**Staff Name: Mr. K. Athinarayanan** **Mr. V. Rajesh Kanna**
Course Name: GENERAL ENGLISH-II	

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
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Total	**20**
Unit: III – Prose Life Story & Autobiography	
Topics to be covered	**No. of Hours**
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Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.A. TAMIL**

Course Code: 23UENLL21	**Staff Name: Ms. S. Anees Fathima** **Ms. B. Nagia**

Course Name: GENERAL ENGLISH-II

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
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Unit: III – Prose Life Story & Autobiography	
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Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
Circular	3
Memo	4
Minutes of the Meeting	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc. BIO CHEMISTRY**
Course Code: 23UENLL21	**Staff Name: Mr. S. Velmurugan** **Ms. K. Fathima Nasreen**

Course Name: GENERAL ENGLISH-II

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
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Minutes of the Meeting	4
Total	**15**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Signature of the HOD
HEAD
PG AND RESEARCH CENTRE IN ENGLISH
HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
(AUTONOMOUS)
UTHAMAPALAYAM-625533,THENI-Dt

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HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc. MICROBIOLOGY**
Course Code: 23UENLL21	**Staff Name: Ms. M. Rizvana** **Ms. B. Nagia**

Course Name: GENERAL ENGLISH-II

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
D.H.Lawrence - Snake	5
Total	**20**
Unit: III – Prose Life Story & Autobiography	
Topics to be covered	**No. of Hours**
Sudha Murty – How I taught my Grandmother to Read	6
Aaron Shepard- A Tale of Angola - How Frog Went to Heaven	6

A.P.J. Abdul Kalam – Wings of Fire (Ch- 1,2, 3)	8
Total	**20**

Unit: IV– Tenses	
Topics to be covered	**No. of Hours**
Present	4
Past	4
Future	4
Concord	3
Total	**15**

Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
Circular	3
Memo	4
Minutes of the Meeting	4
Total	**15**

Signature of the Dean

Dr.G.RAMANAN,Ph.D.,
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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc. INFORMATION TECHNOLOGY**
Course Code: 23UENLL21	**Staff Name: Mr. K. Athinarayanan** **Mr. V. Rajesh Kanna**
Course Name: GENERAL ENGLISH-II	

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
D.H.Lawrence - Snake	5
Total	**20**
Unit: III – Prose Life Story & Autobiography	
Topics to be covered	**No. of Hours**
Sudha Murty – How I taught my Grandmother to Read	6
Aaron Shepard- A Tale of Angola - How Frog Went to Heaven	6

A.P.J. Abdul Kalam – Wings of Fire (Ch- 1,2, 3)	8
Total	**20**

Unit: IV– Tenses	
Topics to be covered	**No. of Hours**
Present	4
Past	4
Future	4
Concord	3
Total	**15**

Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
Circular	3
Memo	4
Minutes of the Meeting	4
Total	**15**

Signature of the Dean

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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Com. CA**

Course Code: 23UENLL21	**Staff Name: Ms. A. Sumaya Banu** **Ms. S. Hibah**

Course Name: GENERAL ENGLISH-II

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
D.H.Lawrence - Snake	5
Total	**20**
Unit: III – Prose Life Story & Autobiography	
Topics to be covered	**No. of Hours**
Sudha Murty – How I taught my Grandmother to Read	6
Aaron Shepard- A Tale of Angola - How Frog Went to Heaven	6

A.P.J. Abdul Kalam – Wings of Fire (Ch- 1,2, 3)	8
Total	**20**

Unit: IV– Tenses	
Topics to be covered	**No. of Hours**
Present	4
Past	4
Future	4
Concord	3
Total	**15**

Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
Circular	3
Memo	4
Minutes of the Meeting	4
Total	**15**

Hibah Syed.

Signature of the Dean

Dr.G.RAMANAN,Ph.D.,
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Hajee Karutha Rowther Howdia College
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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Com. BANKING**

Course Code: 23UENLL21	**Staff Name: Mr. V. Rajesh Kanna** **Ms. S. Hibah**

Course Name: GENERAL ENGLISH-II

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
D.H.Lawrence - Snake	5
Total	**20**
Unit: III – Prose Life Story & Autobiography	
Topics to be covered	**No. of Hours**
Sudha Murty – How I taught my Grandmother to Read	6
Aaron Shepard- A Tale of Angola - How Frog Went to Heaven	6

A.P.J. Abdul Kalam – Wings of Fire (Ch- 1,2, 3)	8
Total	**20**

Unit: IV– Tenses	
Topics to be covered	**No. of Hours**
Present	4
Past	4
Future	4
Concord	3
Total	**15**

Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
Circular	3
Memo	4
Minutes of the Meeting	4
Total	**15**

Signature of the Dean

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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I BBA**
Course Code: 23UENLL21	**Staff Name: Mr. V. Rajesh Kanna** **Ms. S. Hibah**
Course Name: GENERAL ENGLISH-II	

Unit: I– Poem & Short Story	
Topics to be covered	**No. of Hours**
Edgar A.Guest – Don't Quit	5
Langston Hughes- Still Here	5
R.K.Narayan – Engine Trouble	5
Washington Irving- Rip Van Winkle	5
Total	**20**

Unit: II – Short Story & Poem	
Topics to be covered	**No. of Hours**
Kristin Hunter – The Scribe	5
Frank Stockton – The Lady or The Tiger?	5
Robert Frost – The Road not Taken	5
D.H.Lawrence - Snake	5
Total	**20**
Unit: III – Prose Life Story & Autobiography	
Topics to be covered	**No. of Hours**
Sudha Murty – How I taught my Grandmother to Read	6
Aaron Shepard- A Tale of Angola - How Frog Went to Heaven	6

A.P.J. Abdul Kalam – Wings of Fire (Ch- 1,2, 3)	8
Total	**20**

Unit: IV– Tenses	
Topics to be covered	**No. of Hours**
Present	4
Past	4
Future	4
Concord	3
Total	**15**

Unit: V - English in the Workplace	
Topics to be covered	**No. of Hours**
E-mail – Invitation, Enquiry, Seeking Clarification	4
Circular	3
Memo	4
Minutes of the Meeting	4
Total	**15**

Signature of the Dean
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HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
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UTHAMAPALAYAM-625533, THENI-Dt

Hebah Syed.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ECONOMICS**

Course Code: 23UENLL41	**Staff Name: Ms. B. Shameema** **Ms. N. Vennila**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**

Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
William Shakespeare – The Quality of Mercy(The Merchant of Venice)	5
Total	**20**

Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5
Aaron Shephard – The Princess and the God	5

HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ENGLISH**
Course Code: 23UENLL41	**Staff Name: Dr. J. Ahamed Meeran** **Mr. P. M. Noushad**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**

Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
William Shakespeare – The Quality of Mercy(The Merchant of Venice)	5
Total	**20**

Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5
Aaron Shephard – The Princess and the God	5

Total	**20**

Unit: IV - Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
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HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
(AUTONOMOUS)
UTHAMAPALAYAM-625533, THENI-Dt

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA HISTORY**
Course Code: 23UENLL41	**Staff Name: Mr. A. Rajamani** **Mr. M. Mathan**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**
Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
William Shakespeare – The Quality of Mercy(The Merchant of Venice)	5
Total	**20**
Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5
Aaron Shephard – The Princess and the God	5

Total	**20**

Unit: IV – Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

Signature of the Dean

Dr.G.RAMANAN,Ph.D.,
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Hajee Karutha Rowther Howdia College
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc MATHEMATICS**
Course Code: 23UENLL41	**Staff Name: Ms. A. J. Saleema Kathoon** **Mr. S. Abubacker Siddiq**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**
Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
William Shakespeare – The Quality of Mercy(The Merchant of Venice)	5
Total	**20**
Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5
Aaron Shephard – The Princess and the God	5

Total	**20**

Unit: IV - Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	5
Total	**15**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
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HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc COMPUTER SCIENCE**
Course Code: 23UENLL41	**Staff Name: Ms. S. Nasreen Banu** **Dr. H. Rakhiba**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**

Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
William Shakespeare – The Quality of Mercy(The Merchant of Venice)	5
Total	**20**

Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5
Aaron Shephard – The Princess and the God	5

Total	**20**

Unit: IV - Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	5
Total	**15**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
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Hajee Karutha Rowther Howdia College
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Uthamapalayam,Theni-Dt-625533

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HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc PHYSICS**
Course Code: 23UENLL41	**Staff Name: Mr. P. M. Noushad** **Ms. N. Vennila**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**
Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
William Shakespeare – The Quality of Mercy(The Merchant of Venice)	5
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Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5

Aaron Shephard – The Princess and the God	5
Total	**20**

Unit: IV – Grammar	
Topics to be covered	**No. of Hours**
Simple	3
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Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	5
Total	**15**

Signature of the Dean
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HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc CHEMISTRY**

Course Code: 23UENLL41	**Staff Name: Mr. S. Mohammed Rowther** **Ms. A.J. Saleema Kathoon**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**

Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
William Shakespeare – The Quality of Mercy(The Merchant of Venice)	5
Total	**20**

Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5

Aaron Shephard – The Princess and the God	5
Total	**20**

Unit: IV – Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V – Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
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HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc ZOOLOGY**
Course Code: 23UENLL41	**Staff Name: Ms. S. Nasreen Banu** **Ms. B. Shameema**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**
Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
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Topics to be covered	**No. of Hours**
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Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5

Aaron Shephard – The Princess and the God	5
Total	**20**

Unit: IV - Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	15

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
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Signature of the HOD
HEAD
PG AND RESEARCH CENTRE IN ENGLISH
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II B.COM**
Course Code: 23UENLL41	**Staff Name: Mr. S. Abubacker Siddiq** **Mr. M. Mathan**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**
Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
William Shakespeare – The Quality of Mercy(The Merchant of Venice)	5
Total	**20**
Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5

William Carleton – The Giant's Wife	5
Aaron Shephard – The Princess and the God	5
Total	**20**

Unit: IV - Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ARABIC**

Course Code: 23UENLL41	**Staff Name: Ms. K. Fathima Nasreen** **Ms. S. Hibah**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**

Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
William Shakespeare – The Quality of Mercy(The Merchant of Venice)	5
Total	**20**

Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5
Aaron Shephard – The Princess and the God	5

Total	**20**

Unit: IV – Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V – Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA TAMIL**
Course Code: 23UENLL41	**Staff Name: Ms. M. Rizvana** **Mr. V. Rajesh Kanna**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**
Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
William Shakespeare – The Quality of Mercy(The Merchant of Venice)	5
Total	**20**
Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5
Aaron Shephard – The Princess and the God	5

Total	**20**

Unit: IV - Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

Signature of the Dean
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc BIOCHEMISTRY**
Course Code: 23UENLL41	**Staff Name: Mr. S. Velmurugan** **Mr. V. Rajesh Kanna**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**
Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
William Shakespeare – The Quality of Mercy(The Merchant of Venice)	5
Total	**20**
Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5
Aaron Shephard – The Princess and the God	5

Total	**20**

Unit: IV – Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V – Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

Signature of the Dean
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc MICROBIOLOGY**
Course Code: 23UENLL41	**Staff Name: Ms. M. Rizvana** **Ms. A. Sumaya Banu**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**
Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
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Total	**20**

Unit: IV – Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

Signature of the Dean
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Hajee Karutha Rowther Howdia College
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HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc INFORMATION TECHNOLOGY**
Course Code: 23UENLL41	**Staff Name: Ms. K. Fathima Nasreen** **Ms. S. Hibah**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**
Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
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Total	**20**
Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5
Aaron Shephard – The Princess and the God	5

Total	**20**

Unit: IV – Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V – Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BBA**

Course Code: 23UENLL41	**Staff Name: Mr. K. Athinarayanan** **Ms. K. Fathima Nasreen**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**
Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
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Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
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Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5

Aaron Shephard – The Princess and the God	5
Total	**20**

Unit: IV – Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

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PG AND RESEARCH CENTRE IN ENGLISH
HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
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UTHAMAPALAYAM-625533,THENI-Dt

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HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BCOM (CA)**
Course Code: 23UENLL41	**Staff Name: Ms. S. Anees Fathima** **Ms. B. Nagia**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**
Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
O Henry – A Retrieved Reformation	5
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Total	**20**
Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5
William Carleton – The Giant's Wife	5

Aaron Shephard – The Princess and the God	5
Total	**20**

Unit: IV - Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
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HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BCOM (BANKING)**

Course Code: 23UENLL41	**Staff Name: Ms. A. Sumaya Banu** **Ms. S. Hibah**

Course Name: GENERAL ENGLISH-IV

Unit: I - Life Story & Short Essay	
Topics to be covered	**No. of Hours**
Adeline Yen Mah – From Chinese Cinderella	5
George Orwell – Why I Write	5
Robin Sharma – On Personnel Mastery	5
William Hazlitt – On the Love of Life	5
Total	**20**
Unit: II – Short Story & A Play	
Topics to be covered	**No. of Hours**
K.S. Duggal – The Taxi Driver	5
Rabindranath Tagore - Kabuliwallah	5
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William Shakespeare – The Quality of Mercy(The Merchant of Venice)	5
Total	**20**
Unit: III - Poem & Readers Theatre	
Topics to be covered	**No. of Hours**
Dahilia Ravikovitch - Pride	5
Maya Angelou – Phenomenal Woman	5

William Carleton – The Giant's Wife	5
Aaron Shephard – The Princess and the God	5
Total	**20**

Unit: IV - Grammar	
Topics to be covered	**No. of Hours**
Simple	3
Compound	3
Complex	4
Direct and Indirect Speech	5
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Narrative Report	4
Newspaper Report	4
Welcome Address	4
Vote of Thanks	3
Total	**15**

Signature of the Dean

Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: I B.A. HISTORY**

Course Code: 23UHICC21	**Staff Name: Dr. T. Anas Babu**

Course Name: HISTORY OF MEDIEVAL INDIA, 1206 – 1707 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
Establishment of Sultanate Rule in India	2
Slave Dynasty	2
Qutb-Uddin	1
Aibak	1
Iltutmish–Sultana Raziya	2
Balban	1
Khilji Dynasty	1
Jalaluddin Khilji	1
Alauddin Khilji	2
Malik Kafur's Invasion	2
Total	15

Unit: II	
Topics to be covered	**No. of Hours**
Tughlaq Dynasty	2
Mohammed-bin-Tughlaq	2
Feroz Shah Tughlaq	2
Sayyids and Lodis	2
Administrative System under Delhi Sultanate	3
Bhakti Movement	2
Sufi Movement	2
Total	15

Unit: III	
Topics to be covered	**No. of Hours**
Advent of Mughals	2
Babur	2
Humayun	2
Sher Shah Administration	2
Conquests of Akbar	2
Mughal administration	2
Mughal Art and Architecture	3
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
Jehangir	2
Chain of Justice	2
Shah Jahan	2
Aurangzeb	2
Rise of the Marathas	2
Life and Career of Shivaji	2
Shivaji's Administration	3
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Bahmini Kingdom	3
Vijayanagar Empire	3
Administration	3
Art and Architecture	3
Position of Women in Medieval Period	3
Total	15

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Dr.G.RAMANAN,Ph.D.,
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Hajee Karutha Rowther Howdia College
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Verified by

HOD

Dr.M.BASHEER AHAMED MEERAN,M.A.,M.Phil.,Ph.D.,
Associate Professor & Head,
P.G. Department of History & Research Centre,
Hajee Karutha Rowther Howdia College (Autonomous),
Uthamapalayam - 625 533,Theni District.

Prepared by

Staff

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: I B.A. HISTORY**

Course Code: 23UHICC22	**Staff Name: Dr. M. Basheer Ahamed Meeran** **Ms. K.C. Raihanath**

Course Name: HISTORY OF TAMIL NADU, 1311 – 1801 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
Decline of the Pandya Kingdom	3
Rise of the Madurai Sultanate	3
Administration	2
Society	2
Economy	2
Culture	3
Total	15

Unit: II	
Topics to be covered	**No. of Hours**
Impact of Vijayanagar Rule	2
Invasion of Kumara Kampana	2
The Nayaks of Madurai	2
Vishwanatha Nayak	2
Thirumalai Nayak	2
Rani Mangammal	2
Meenakshi	1
Decline of Nayaks of Madurai	2
Total	15

Unit: III	
Topics to be covered	**No. of Hours**
Nayaks of Tanjore	2
Nayaks of Senji	2
Civil War among the Nayak Rulers	2
Poligari system	2
Administration	2
Social and Economic Conditions	2
Religion	1
Temple Art and Architecture	2
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
Marathas of Tamil Country	2
Serfoji II	1
Administration	2
Contribution of Maratha to the Tamil Culture	2
Saraswathi Mahal Library	2
Sethupathis of Ramnad	2
Society	1
Economy	1
Religion and Culture	2
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Nawabs of Carnatic	1
Tamil Society Under the Nawabs	2
Anglo	1
Mysore Relations	1
Carnatic wars	1
Society	1
Economy and Religion and Culture	2
Poligar Rebellion	1
Puli Thevar	1
Khan Sahib	1
Velu Nachiyar	1
Veerapandia Kattabomman	1
Revolt of Maruthu Brothers	1
Total	15

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Verified by

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Dr.M.BASHEER AHAMED MEERAN,M.A.,M.Phil.,Ph.D.,
Associate Professor & Head,
P.G. Department of History & Research Centre,
Hajee Karutha Rowther Howdia College (Autonomous),
Uthamapalayam - 625 533,Theni District.

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: I B.A. HISTORY**
Course Code: 23UHIGE21	**Staff Name: Ms. K.C. Raihanath**
Course Name: WESTERN POLITICAL THOUGHT	

Unit: I	
Topics to be covered	**No. of Hours**
Socrates	4
Plato	4
Aristotle	4
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Machiavelli	3
Thomas Hobbes	3
John Locke	3
Rousseau	3
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Voltaire	2
Montesquieu	2
Thomas Paine	2
Mary Wollstonecraft	3
Luigi Taparelli	3
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Jeremy Bentham	3
J.S. Mill	3
David Thoreau	3
Nietzsche	3
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Karl Marx	3
Antonio Gramsci	3
Richard Rorty	3
Martin Luther King Jr	3
Total	12

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Dean of Humanities
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HOD

Dr.M.BASHEER AHAMED MEERAN,M.A.,M.Phil.,Ph.D.,
Head,
P.G. Department ... arch Centre,
Hajee Karutha Rowther How... 'onomous),
Uthamapalayam - 625 533,Theni District.

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: I YEAR NME**
Course Code: 23UHISE21	**Staff Name: Mr. A. Aboobacker Siddiq**

Course Name: INDIAN CONSTITUTION (NME)

Unit: I	
Topics to be covered	**No. of Hours**
Sources	1
Preamble	1
Salient Features	2
Citizenship	1
Amendments	1
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Fundamental Rights	2
Directive Principles	2
Fundamental Duties.	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Union Government: President	2
Prime Minister and Council of Ministers	2
Parliament	1
Supreme Court of India	1
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
State Government: Chief Minister	2
Governor	2
State Legislature	1
High Courts	1
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Local Government: Urban	3
Rural	3
Total	6

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: I B.A. HISTORY**

Course Code: 23UHISE22	**Staff Name: Dr. M. Amzad Ali**

Course Name: BASIC JOURNALISM

Unit: I	
Topics to be covered	**No. of Hours**
Definition of News	1
Types of News	2
Determinants of News	2
News Evaluation	1
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Newspaper Organization Structure	2
News Sources and Agencies	2
Target audience	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Role, Qualities and Responsibilities of a Reporter	2
Lead Writing	1
News Pegs	1
Developing a News Story	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Interviews	1
Interpretative Reporting	1
Investigative Reporting	1
Reviews	1
Feature Writing	1
Travelogues, Web Writing	1
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Role, Qualities and Functions of an Editor	1
Headlines	1
Layout	1
Placement of Photographs	1
Caption Writing	1
Infographics	1
Total	6

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: II B.A. HISTORY**
Course Code: 23UHICC41	**Staff Name: Dr. M. Amzad Ali**

Course Name: FREEDOM STRUGGLE IN INDIA

Unit: I	
Topics to be covered	**No. of Hours**
Poligar Revolt: South Indian Rebellion	3
Vellore Mutiny - 1857 Mutiny	3
Queen's Proclamation	3
Transition from Company to Crown	3
Socio-Religious Reform Movements.	3
Total	15

Unit: II	
Topics to be covered	**No. of Hours**
Indian National Movement: Indian National Congress: Moderates – Extremists	3
Partition of Bengal – Swadeshi Movement – Birth of Muslim League	3
Surat Congress– Minto-Morley Reforms	3
Communal Electorate - Home Rule Movement	3
Montague-Chelmsford Reforms – Dyarchy.	3
Total	15

Unit: III	
Topics to be covered	**No. of Hours**
Gandhian Era: Jallianwala Bagh Massacre – Non-Cooperation Movement – Swaraj Party	3
Simon Commission – Rise of Communist Party – Civil Disobedience Movement	3
Gandhi –Irwin Pact	3
Round Table Conference and the Communal Award	3
Act of 1935 – Provincial Autonomy –1937 elections – Cripps Mission.	3
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
Rise of the Left Politics: Rise and Growth of Revolutionary Movements	5
Social Reform Movements in the Twentieth Century	4
Role of Communists	3
Periyar E V Ramasamy.	3
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Quit India Movement: Subash Chandra Bose and Indian National Army	3
Simla Conference	3
Cabinet Mission	3
Mountbatten Plan	3
Partition of India.	3
Total	15

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: II B.A. HISTORY**
Course Code: 23UHICC42	**Staff Name: Mr. C.P. Muhammed Kabeer** **Mr. M. Jamal Mohideen**

Course Name: HISTORY OF MODERN EUROPE, 1789 – 1919 CE

Unit: I	
Topics to be covered	**No. of Hours**
French Revolution: Causes – National Assembly	3
National Convention – Directory	3
Napoleon I - Napoleonic Wars	3
Continental System	3
Reforms – Code Napoleon.	3
Total	15

Unit: II	
Topics to be covered	**No. of Hours**
Age of Metternich: The Congress of Vienna- 1815	3
The Holy and Quadruple Alliance	3
Concert of Europe	3
The Revolution of 1830 and 1848	3
Napoleon III.	3
Total	15

Unit: III	
Topics to be covered	**No. of Hours**
Unification of Germany: Bismarck's Blood and Iron policy	3
Unification of Italy: Mazzini	3
Garibaldi	3
Count Cavour	3
Victor Immanuel II.	3
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
Eastern Question: Greek War of Independence	4
Crimean War – Pan Slavism	5
The Russo Turkish War (1878)	3
The Congress of Berlin 1878.	3
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Age of Armed Peace: The Triple Alliance and Triple entente	3
Balkan wars	3
First World War	3
US Entry into First World War	3
Treaty of Versailles.	3
Total	15

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: II B.A. HISTORY**

Course Code: 23UHIGE41	**Staff Name: Mr. S. Shack Abdullah**

Course Name: MODERN GOVERNMENTS

Unit: I	
Topics to be covered	**No. of Hours**
Constitution: Meaning, Purpose and Contents	3
Classification: Written and unwritten	3
Rigid and Flexible.	3
Total	9

Unit: II	
Topics to be covered	**No. of Hours**
State: Meaning and Features	1
Classification: Unitary	3
Federal – Quasi Federal	3
Theory of Separation of Powers.	2
Total	9

Unit: III	
Topics to be covered	**No. of Hours**
Legislature: Types: Unicameral - Bicameral;	3
Powers and Functions of legislature	3
Role of Political Parties	3
Total	9

Unit: IV	
Topics to be covered	**No. of Hours**
Executive: Types: Parliamentary Form - Presidential Form	3
Powers and Functions of Executive	3
Merits and Demerits.	3
Total	9

Unit: V	
Topics to be covered	**No. of Hours**
Judiciary: Rule of Law	1
Role and functions of Judiciary	3
Independence of Judiciary	3
Judicial Review.	2
Total	9

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: II B.A. HISTORY**

Course Code: 23UHISE41	**Staff Name: Mr. M. Mohamed Asraf**

Course Name: COMPUTER TRAINING

Unit: I	
Topics to be covered	**No. of Hours**
Basic Components of Computer: Hardware	2
Software	2
DOS and Windows	1
Printing	1
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
MS Word Document: Creating a New Document	2
Open and Close Document	1
Delete a File	1
Save a File	1
Cut, Copy and Paste	1
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Keys of Preparation of Vitae: Typing a letter and Curriculum Vitae	6
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
MS Power Point Presentation: Slide Creation	3
Inserting Pictures, Tables, Videos	3
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Developing skills in Designing: Brochures	2
Presentation	1
Newsletter	1
Videos	1
Websites	1
Total	6

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: II B.A. HISTORY**

Course Code: 23UHISE42	**Staff Name: Mr. M. Mohamed Asraf**

Course Name: HOTEL MANAGEMENT

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Hotels: History of Hotels	2
Types of Hotels	1
Traditional and Supplementary Accommodation	1
Classification	1
Grading and Categorization.	1
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Types of Hotels: Major International Hotel Chains and Hotel chains of India	3
Federation of Hotel and Restaurant Association of India (FHRAI) International Hotel and Restaurant Association (IH and RA)	3
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Menu Patterns and Food Services: Types of Menus - Banquet	2
Transport catering	1
Industrial catering	1
Welfare catering	1
Beverage Services.	1
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Reception: Front Office - Definition -Functions and importance of Front Office	2
Lobby- Reception counter- Help Desk	1
Etiquette - Guest Handling - Reservation - Methods	1
Registration Procedure -Guest arrival– Pre - registration	1
Receiving Guests - Departure Procedure - Night Auditing.	1
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Uses of Computers in Hotels: Computer Reservation System	2
Global Distribution System Transformation of Hospitality Industry	2
Future of Hotel Industry.	2
Total	6

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: II BA History**

Course Code: 23UGEVS41	**Staff Name: Ms. K.C. Raihanath**

Course Name: Environmental Studies

Unit: I	
Topics to be covered	**No. of Hours**
Earth and its Environment: Earth- formation and Evolution of Earth over time- structure of Earth and its components	**1**
Atmosphere, Lithosphere, Hydrosphere and Biosphere.	**1**
Resources – renewable and nonrenewable resources	**1**
Total	**3**

Unit: II	
Topics to be covered	**No. of Hours**
Ecology and ecosystem concepts: Ecology – definition- Definition – structure and function	**1**
energy flow – food chain and Food web- one example for an ecosystem	**1**
Biogeochemical cycles – Nitrogen, carbon, Phosphorous and Water	**1**
Total	**3**

Unit: III	
Topics to be covered	**No. of Hours**
Biodiversity of India: Introduction – definition – Values of Biodiversity- Threat to Biodiversity – Conservation of Biodiversity	1
Biodiversity of India – as a mega diversity nation - bio-geographical distribution – Hot spots of biodiversity	1
National Biodiversity Conservation Board and its function	1
Total	3

Unit: IV	
Topics to be covered	**No. of Hours**
Pollution and Global issues: Definition, causes, effects and control measures of Air, Water, Soil, Marine, Noise, Thermal and Nuclear pollution	1
Global issues: Global Warming and Ozone Layer Depletion	1
Total	2

Unit: V	
Topics to be covered	**No. of Hours**
Development and Disaster Management: a) Sustainable Development – Sustainable Agriculture	1
Organic farming, Irrigation – Water harvesting and Waste recycling - Cyber waste and management	1
Disaster Management – Flood and Drought – Earthquake and Tsunami	1
Landslides and Avalanches – Cyclones and Hurricanes –Precautions,Warnings, Rescue and Rehabilitation.	1
Total	4

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History**

CourseCode:20UHIC61	**Staff Name: Mr. M. Mohamed Asraf** **Mr. F. Mohamed Khan**

Course Name: Contemporary India from 1947 – 2014 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
Partition and the Integration of Indian States - Framing of Indian Constitution – Linguistic Re-organization of States (1956) and Union Territories	**3**
Foreign Policy of India - Non-Alignment Movement	**3**
Relations with U.S.A., U.S.S.R., China, Pakistan, Sri Lanka	**3**
UNO	**3**
India and the SAARC- BRICS - ASEAN.	**3**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Administration – Jawaharlal Nehru – Lal Bahadur Sastri	**3**
Indira Gandhi – Morarji Desai	**3**
Rajiv Gandhi – V.P. Singh	**3**
Narasimha Rao – Vajpayee	**3**
Manmohan Singh	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Education , New Education Policy, Elementary, Higher Secondary	3
University and Higher Education, U.G.C. – SSA, Vocational and Technical Education, Women's Education, Rural Education	3
Welfare of Scheduled Castes and Scheduled Tribes, Constitutional Safeguards	3
Legislation against Untouchability, Welfare of Minorities.	3
Welfare of the Aged-Child and Women's Development	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Planned Economy of India, Five Year Plans and NITI Aayog	3
Agriculture, Horticulture, Animal Husbandry.	3
Dairy Development, Fisheries, Health and Family Planning	3
Commerce and Industry, Major Industries, Import and Export	3
Labour Policies and Welfare Programmes, MGNREGA	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Transport and Communication, Roads, Railways, Shipping	4
Civil Aviation, Postal Network, Mass Media, Tele-Communications	4
Information Technology	3
Promotion of Cultural Activities, Sports	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History**
CourseCode:20UHIC62	**Staff Name: Mr. S. Shack Abdullah**
Course Name: History for Competitive Examinations	

Unit: I	
Topics to be covered	**No. of Hours**
Geography of India: Earth and Universe	2
Solar System	1
Atmosphere, Hydrosphere	1
Lithosphere	1
Monsoon	1
Rainfall and Climate	1
Water Resources	1
Rivers in India	1
Soils	1
Minerals and Natural Resources	1
Forest and Wildlife.	1
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Indian National Movement:Revolt of 1857	2
Causes for the rise of Nationalism	1
Indian National Congress	1
National Movement (1885-1947 C.E.)	1
Moderates	1
Extremists	1
Non-Cooperation	1
Civil Disobedience Movement	1
Quit India Movement	1
August Offers	1
Indian Independence Act of 1947.	1
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Indian Polity:Constitution of India	2
Preamble	2
Salient Features	2
Parliament	2
State Legislature	2
Elections and Election Commission.	2
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Indian Economy: Nature of Indian Economy	1
Industrial Growth	1
Role of Public Sector and Disinvestment	1
National Income	1
Public Finance and Fiscal Policy	1
Price Policy and Public Distribution	1
Banking	1
Money and Monetary Policy	1
Foreign Direct Investment (FDI)	1
WTO	1
Globalization	1
Liberalization, Privatization.	1
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Current Affairs: Latest Events	1
National	1
Defense, Security	1
Terrorism	1
India and Neighbours	1
World Organizations	1
Pacts and Summits	1
Latest Historical Events	1
Eminent Persons and Places in News	1
Sports and Games	1
Books and Authors	1
Awards and Honours.	1
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History**

Course Code: 20UHIC63	**Staff Name: Mr. F. Mohamed Khan** **Mr. M. Jamal Mohideen**

Course Name: History of Science and Technology Since 1453 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
Birth of Modern Science and Technology in Europe in the 15th and 16th Centuries.	2
Renaissance in Europe, Progress in Astronomy, Nicholas Copernicus	3
Johannes Kepler, Galileo Galilei, Science and Technology in the Seventeenth Century, Foundation of Scientific Academies	3
Royal Society in London, French Royal Academy of Science, Progress in Medical Science	3
Vesalius, Ambroise Pare– John Gutenberg, Leonardo- da -Vinci - Isaac Newton	2
Robert Boyle, Progress in Medical Science, William Harvey	2
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Science and Technology in the Eighteenth Century, Inventions in Textile Industry.	3
Transportation, Steam Engine, Chemistry.	3
Henry Cavendish, Joseph Priestly, Simon Lavoisier	3
Natural Science, Carl Linnaeus	3
Medical Science, John Hunter, Edward Jenner	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Science and Technology in the Golden Age of Science (Nineteenth Century)	3
Charles Darwin, Physics, Michael Faraday,	2
James Clerk Maxwell, Chemistry John Dalton, Mendeleev, Medicine, James Simpson, Louis Pasteur	4
Patric Manson, Transportation, Railways, Cycle, Motor Car, Communication.	3
Samuel Morse, Alexander Graham Bell, Thomas Alva Edison, Alfred Nobel and Nobel Prizes	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Science and Technology in the Twentieth Century	3
Albert Einstein and Theory of Relativity, Impact of World Wars on Science,	2
Atomic Science, Lord Rutherford, Atom Bombs, Medical Science, Roentgen and X-Ray, Marie Curie.	3
Penicillin and Alexander Fleming, Information Technology,	2
Radio, Radar, Television, Computer, E-mail, Internet, E-commerce, Impact of social media	3
Psychology, Sigmund Freud	2
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Aeroplane, Space Missions in India.	2
DRDO, Atomic Energy Commission.	3
Technological Development in Agriculture, Green Revolution, Pioneers in Modern Science in India.	4
J.C. Bose, P.C. Ray, SrinivasaRamanujam	3
C.V. Raman, Dr. A.P.J. Abdul Kalam	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History**

CourseCode:20UHIC64	**Staff Name: Mr. C.P. Muhammed Kabeer**

Course Name: Constitutional History of India, 1773 - 1950 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
The Regulating Act of 1773	4
the Act of 1781	4
Pitt's India Act of 1784.	4
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
The Charter Acts of 1793	2
The Charter Acts of 1813	2
The Charter Acts of 1833	3
The Charter Acts of 1853	2
The Queen Victoria's Proclamation	1
The Act of 1858	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Indian Council Acts of 1861	2
Indian Council Acts of 1892	2
Minto, Morley Reforms of 1909	4
Montague, Chelmsford Reforms of 1919 and communal Reservation	4
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
The Government of India Act of 1935	5
Provincial Autonomy	4
The Indian Independence Act of 1947.	3
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
The Making of the Indian Constitution	2
The Constituent Assembly	2
Drafting Committee	2
Preamble and Salient features of the Indian Constitution	2
Fundamental Rights – Fundamental Duties – Directive Principles of State Policy – Legislature - Executive and Judiciary	4
Total	12

Forwarded by

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Dean of Humanities
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(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

HOD
Dr.M.BASHEER AHAMED MEERAN,M.A.,M.Phil.,Ph.D.,
Associate Professor & Head,
P.G. Department of History & Research Centre,
Hajee Karutha Rowther Howdia College (Autonomous),
Uthamapalayam - 625 533,Theni District.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History**

Course Code:20UHIC65	**Staff Name: Mr. M. Mohamed Asraf** **Mr. A. Aboobacker Siddiq**

Course Name: History of the Journalism

Unit: I	
Topics to be covered	**No. of Hours**
Fundamental Principles of Journalism.	3
Aims, Duties and Responsibilities of Journals.	3
History of Journalism.	3
Missionary activities and Press, Portuguese and Printing in the Vernacular Languages.	4
Ziegenbalg and the revival of Printing.	2
Asiatic Society, Sir William Jones.	3
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Indian English Journalism - James Augustus Hicky and Bengal Gazette.	5
The Madras Courier, Bombay Chronicle.	5
Hindustan Times.	4
The Spectator, Hindu Patriot.	4
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Role of Press in Freedom Struggle.	4
Nehru and National Herald.	4
Press and Partition of Bengal.	4
LokmanyaTilak and Kesari, Annie Beasant and Madras Mail.	2
The Hindu, Swadeshamitran, Times of India.	2
Indian Express - Press and Social Reforms.	2
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Press Laws and Censorship.	4
The Licensing Regulating Act, 1823, The Licensing Regulating Act, 1857.	4
The Registration Act, 1867, Vernacular Press Act, 1878, The News Paper Act, 1908.	4
Indian Press Act (Emergency) of 1931.	2
Law of Defamation, Contempt of Court.	2
Copy Right Act, Official Secret Act, Obscene Prohibition Act.	2
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Privileges of Press in India.	4
Role of Journalism in Democracy.	3
News Agencies.	2
Indian News Agencies.	3
Press Council of India.	2
Journalism in Tamil Nadu	2
Uses of Journalism and Ethics of Journalism	2
Total	**18**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History**

Course Code: 20UHIE61	**Staff Name: Mr. F. Mohamed Khan** **Mr. M. Jamal Mohideen**

Course Name: International Relations, 1914 – 2005 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
Definition, Scope, Elements of National Power	2
Diplomacy, Balance of Power, Collective Security	2
First World War, Causes, Course and Results	4
Fourteen Principles of Woodrow Wilson	2
Paris Peace Conference, The Treaty of Versailles, The League of Nation.	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Rise of Fascism	2
Rise of Nazism	2
Formation of Military Alliances	3
Second World War, Causes, Course and Results, U.N.O.	3
Specialised Agencies, Achievements of U.N.O., Disarmament and its Impact.	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Cold War, Emergence of Two Blocks	3
NATO, CENTO, SEATO, Warsaw Pact	3
Emergence of Third World Countries	3
Non-Alignment, SAARC, OPEC Arab League, Commonwealth of Nations	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
European Community, European Union.	2
Gulf Wars	3
Disintegration of Soviet Union	2
Unipolar World	2
End of Cold War, U.S., Ascendancy in the World	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
New International Economic Order	3
World Trade Organisation	2
Liberalisation, Privatisation, Globalisation	2
Global Terrorism	3
Afghan War, Impact	2
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History**

Course Code: 20UHIS61	**Staff Name: Dr. T. Anas Babu**

Course Name: Indo-Islamic Architecture

Unit: I	
Topics to be covered	**No. of Hours**
Architecture	**1**
Definition	**1**
Historical Significance	**1**
Methods and Techniques	**1**
Trabeate	**1**
Corbelled - Arcuate.	**1**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Development of Indo- Islamic Architecture	**1**
Qutub Complex	**1**
AlauddinKhilji	**1**
Mohammed bin Tughluq - FirozshahTughlaq	**1**
Shershah's Contribution to Architecture	**1**
PuranaQila – Shershah's Tomb at Sasaram	**1**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Art and Architecture under the Mughals – Fatehpur Sikri	1
BulandDarwaza – Panch Mahal	1
Ibadatkhana – Agra Fort	1
Humayun's Tomb – Sikandra	1
Shah Jahan - 'Prince of Builders'	1
Monuments – Red Fort – Delhi Juma Masjid.	1
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Contribution of Aurangzeb to Architecture	2
Bibika	1
Makbara – Pearl Masjid at Delhi	2
Badshahi Mosque at Lahore.	1
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Islamic Architecture in Tamil Nadu	1
Indo-Saracenic Architecture	1
Madras University Senate Hall	1
Madras University Library	1
Amir Mahal	1
Egmore Railway Station – Madras High Court.	1
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History Vocational**

Course Code: 20UHVC61	**Staff Name: Mr. M. Mohamed Asraf** **Mr. F. Mohamed Khan**

Course Name: Contemporary India from 1947 – 2014 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
Partition and the Integration of Indian States - Framing of Indian Constitution – Linguistic Re-organization of States (1956) and Union Territories	**3**
Foreign Policy of India - Non-Alignment Movement	**3**
Relations with U.S.A., U.S.S.R., China, Pakistan, Sri Lanka	**3**
UNO	**3**
India and the SAARC- BRICS - ASEAN.	**3**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Administration – Jawaharlal Nehru – Lal Bahadur Sastri	**3**
Indira Gandhi – Morarji Desai	**3**
Rajiv Gandhi – V.P. Singh	**3**
Narasimha Rao – Vajpayee	**3**
Manmohan Singh	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Education, New Education Policy, Elementary, Higher Secondary	3
University and Higher Education, U.G.C. – SSA, Vocational and Technical Education, Women's Education, Rural Education	3
Welfare of Scheduled Castes and Scheduled Tribes, Constitutional Safeguards	3
Legislation against Untouchability, Welfare of Minorities.	3
Welfare of the Aged-Child and Women's Development	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Planned Economy of India, Five Year Plans and NITI Aayog	3
Agriculture, Horticulture, Animal Husbandry.	3
Dairy Development, Fisheries, Health and Family Planning	3
Commerce and Industry, Major Industries, Import and Export	3
Labour Policies and Welfare Programmes, MGNREGA	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Transport and Communication, Roads, Railways, Shipping	4
Civil Aviation, Postal Network, Mass Media, Tele-Communications	4
Information Technology	3
Promotion of Cultural Activities, Sports	4
Total	**15**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History Vocational**

CourseCode:20UHVC62	**Staff Name: Mr. S. Shack Abdullah**

Course Name: History for Competitive Examinations

Unit: I	
Topics to be covered	**No. of Hours**
Geography of India: Earth and Universe	**2**
Solar System	**1**
Atmosphere, Hydrosphere	**1**
Lithosphere	**1**
Monsoon	**1**
Rainfall and Climate	**1**
Water Resources	**1**
Rivers in India	**1**
Soils	**1**
Minerals and Natural Resources	**1**
Forest and Wildlife.	**1**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Indian National Movement:Revolt of 1857	2
Causes for the rise of Nationalism	1
Indian National Congress	1
National Movement (1885-1947 C.E.)	1
Moderates	1
Extremists	1
Non-Cooperation	1
Civil Disobedience Movement	1
Quit India Movement	1
August Offers	1
Indian Independence Act of 1947.	1
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Indian Polity:Constitution of India	2
Preamble	2
Salient Features	2
Parliament	2
State Legislature	2
Elections and Election Commission.	2
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Indian Economy: Nature of Indian Economy	1
Industrial Growth	1
Role of Public Sector and Disinvestment	1
National Income	1
Public Finance and Fiscal Policy	1
Price Policy and Public Distribution	1
Banking	1
Money and Monetary Policy	1
Foreign Direct Investment (FDI)	1
WTO	1
Globalization	1
Liberalization, Privatization.	1
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Current Affairs: Latest Events	1
National	1
Defense, Security	1
Terrorism	1
India and Neighbours	1
World Organizations	1
Pacts and Summits	1
Latest Historical Events	1
Eminent Persons and Places in News	1
Sports and Games	1
Books and Authors	1
Awards and Honours.	1
Total	12

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History Vocational**
Course Code: 20UHVC63	**Staff Name: Mr. F. Mohamed Khan** **Mr. M. Jamal Mohideen**
Course Name: History of Science and Technology Since 1453 C.E.	

Unit: I	
Topics to be covered	**No. of Hours**
Birth of Modern Science and Technology in Europe in the 15th and 16th Centuries.	2
Renaissance in Europe, Progress in Astronomy, Nicholas Copernicus	3
Johannes Kepler, Galileo Galilei, Science and Technology in the Seventeenth Century, Foundation of Scientific Academies	3
Royal Society in London, French Royal Academy of Science, Progress in Medical Science	3
Vesalius, Ambroise Pare– John Gutenberg, Leonardo- da -Vinci - Isaac Newton	2
Robert Boyle, Progress in Medical Science, William Harvey	2
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Science and Technology in the Eighteenth Century ,Inventions in Textile Industry.	3
Transportation, Steam Engine, Chemistry.	3
Henry Cavendish, Joseph Priestly, Simon Lavoisier	3
Natural Science, Carl Linnaeus	3
Medical Science, John Hunter, Edward Jenner	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Science and Technology in the Golden Age of Science (Nineteenth Century)	3
Charles Darwin, Physics, Michael Faraday,	2
James Clerk Maxwell, Chemistry John Dalton, Mendeleev, Medicine, James Simpson, Louis Pasteur	4
Patric Manson, Transportation, Railways, Cycle, Motor Car, Communication.	3
Samuel Morse, Alexander Graham Bell, Thomas Alva Edison, Alfred Nobel and Nobel Prizes	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Science and Technology in the Twentieth Century	3
Albert Einstein and Theory of Relativity, Impact of World Wars on Science,	2
Atomic Science, Lord Rutherford, Atom Bombs, Medical Science, Roentgen and X-Ray, Marie Curie.	3
Penicillin and Alexander Fleming, Information Technology,	2
Radio, Radar, Television, Computer, E-mail, Internet, E-commerce, Impact of Social Media	3
Psychology, Sigmund Freud	2
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Aero plane, Space Missions in India.	2
DRDO, Atomic Energy Commission.	3
Technological Development in Agriculture, Green Revolution, Pioneers in Modern Science in India.	4
J.C. Bose, P.C. Ray, Srinivasa Ramanujam	3
C.V. Raman, Dr. A.P.J. Abdul Kalam	3
Total	**15**

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lajee Karutha Rowther Howdia College (Autonomous),
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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History Vocational**

Course Code: 20UHVC64	**Staff Name: Mr. C.P. Muhammed Kabeer**

Course Name: Constitutional History of India, 1773 - 1950 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
The Regulating Act of 1773	4
the Act of 1781	4
Pitt's India Act of 1784.	4
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
The Charter Acts of 1793	2
The Charter Acts of 1813	2
The Charter Acts of 1833	3
The Charter Acts of 1853	2
The Queen Victoria's Proclamation	1
The Act of 1858	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Indian Council Acts of 1861	2
Indian Council Acts of 1892	2
Minto, Morley Reforms of 1909	4
Montague, Chelmsford Reforms of 1919 and communal Reservation	4
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
The Government of India Act of 1935	5
Provincial Autonomy	4
The Indian Independence Act of 1947.	3
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
The Making of the Indian Constitution	2
The Constituent Assembly	2
Drafting Committee	2
Preamble and Salient features of the Indian Constitution	2
Fundamental Rights – Fundamental Duties – Directive Principles of State Policy – Legislature - Executive and Judiciary	4
Total	12

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History Vocational**
Course Code: 20UHVE61	**Staff Name: Mr. F. Mohamed Khan** **Mr. M. Jamal Mohideen**
Course Name: International Relations, 1914 – 2005 C.E.	

Unit: I	
Topics to be covered	**No. of Hours**
Definition, Scope, Elements of National Power	2
Diplomacy, Balance of Power, Collective Security	2
First World War, Causes, Course and Results	4
Fourteen Principles of Woodrow Wilson	2
Paris Peace Conference, The Treaty of Versailles, The League of Nation.	2
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Rise of Fascism	2
Rise of Nazism	2
Formation of Military Alliances	3
Second World War, Causes, Course and Results, U.N.O.	3
Specialised Agencies, Achievements of U.N.O., Disarmament and its Impact.	2
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Cold War, Emergence of Two Blocks	3
NATO, CENTO, SEATO, Warsaw Pact	3
Emergence of Third World Countries	3
Non-Alignment, SAARC, OPEC Arab League, Commonwealth of Nations	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
European Community, European Union.	2
Gulf Wars	3
Disintegration of Soviet Union	2
Unipolar World	2
End of Cold War, U.S., Ascendancy in the World	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
New International Economic Order	3
World Trade Organisation	2
Liberalisation, Privatisation, Globalisation	2
Global Terrorism	3
Afghan War, Impact	2
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: History	**Programme: III BA History Vocational**
Course Code: 20UHVS61	**Staff Name: Dr. T. Anas Babu**
Course Name: Indo-Islamic Architecture	

Unit: I	
Topics to be covered	**No. of Hours**
Architecture	1
Definition	1
Historical Significance	1
Methods and Techniques	1
Trabeate	1
Corbelled - Arcuate.	1
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Development of Indo- Islamic Architecture	1
Qutub Complex	1
AlauddinKhilji	1
Mohammed bin Tughluq - FirozshahTughlaq	1
Shershah's Contribution to Architecture	1
PuranaQila – Shershah's Tomb at Sasaram	1
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Art and Architecture under the Mughals – FatehpurSikri	1
BulandDarwaza – Panch Mahal	1
Ibadatkhana – Agra Fort	1
Humayun's Tomb – Sikandra	1
Shah Jahan - 'Prince of Builders'	1
Monuments – Red Fort – Delhi Juma Masjid.	1
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Contribution of Aurangzeb to Architecture	2
Bibika	1
Makbara – Pearl Masjid at Delhi	2
Badshahi Mosque at Lahore.	1
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Islamic Architecture in Tamil Nadu	1
Indo-Saracenic Architecture	1
Madras University Senate Hall	1
Madras University Library	1
Amir Mahal	1
Egmore Railway Station – Madras High Court.	1
Total	6

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: I M.A. HISTORY**
Course Code: 23PHICC21	**Staff Name: Mr. C.P. Muhammed Kabeer** **Mr. S. Shack Abdullah**

Course Name: History of Medieval India, 1206 - 1707 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
Qutbuddin Aibak and Iltutmish	2
Iqta System	2
Centralised Monarchy: Sultana Raziya and Period of Instability	1
Age of Balban	2
Chihalgani	1
Theory of Kingship	2
Reorganisation of the Government	1
Mongol Threat	2
Internal Restructuring and Territorial Expansion	1
Jalaluddin and Alauddin Khalji's approaches to the State	2
Changes among the ruling Classes	1
Conquest and Annexation.	1
Total	18

Unit: II	
Topics to be covered	**No. of Hours**
Ghiyas-ud-din and Muhammad bin Tughlaq	3
Administrative and Political Measures	3
Economic and Agrarian Reforms	3
Token Currency Transfer of Capital	3
Firoz Tughlaq -Economic reforms- Military Expeditions	3
Impact of Sayyids and Lodis; Administration under the Delhi Sultanate	3
Total	18

Unit: III	
Topics to be covered	**No. of Hours**
Central Asian experience of Babur	2
India on the eve of Babur's invasion	2
Struggle for empire in North India	2
Significance of the Afghan despotism-	2
Rise of Sher Shah Sur; Expansion and Consolidation	2
Political phase of Akbar; new imperial system and administration; the Mughal nobility	2
Mansabdari system, Jagirdari system	2
Nur Jahan Junta	2
The Mughals and the North-Western frontier	1
Shah Jahan and his contribution.	1
Total	18

Unit: IV	
Topics to be covered	**No. of Hours**
Akbar's imperial agenda - Suhl-i-kul	2
Akbar's religion	2
Din ilahi; Aurangzeb's relation with religious groups and institutions.; Mughal-Rajput Relations	2
Mughal administration-: Aurangzeb	2
the Imperial elite	2
Deccan wars	2
Rise of Marathas under Shivaji	2
Popular revolts within the Mughal empire	2
Decline of the Mughal empire.	2
Total	18

Unit: V	
Topics to be covered	**No. of Hours**
Economy: Agricultural Production, Village Society and the Revenue System	2
Trade relations with the Europeans-Society	3
Ruling Classes, Merchants, Artisans and Slaves	2
Caste, Customs and Women	2
Religious Ideas and Beliefs	1
The Sufi Movement	1
The Bhakti Movement in North India	1
Culture	1
Architecture	2
Literature	1
Fine Arts, Music.	2
Total	18

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Verified by

HOD

Dr.M.BASHEER AHAMED MEERAN,M.A.,M.Phil.,Ph.D.,
Associate Professor & Head,
P.G. Department of History & Research Centre,
Hajee Karutha Rowther Howdia College (Autonomous),
Uthamapalayam - 625 533,Theni District.

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: I M.A. HISTORY**
Course Code: 23PHICC22	**Staff Name: Dr. M. Amzad Ali & Mr. M. Mohamed Asraf**

Course Name: Socio Cultural History of Tamil Nadu, 1565 – 1956 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
The Nayaks of Madurai	3
Thirumalai Nayak	3
the Nayaks of Senji	3
The Nayaks of Tanjore	3
social and cultural condition under the Nayaks	3
contribution of Nayaks to art and architecture and Tamil culture	3
Total	18

Unit: II	
Topics to be covered	**No. of Hours**
Tamilagam under Marathas	3
Society: caste system	1
status women	1
achievements of Raja Serfoji	3
Literature under the rule of Tanjore Marathas	3
Saraswathi Mahal Library	3
Development of Art and Architecture under the Marathas.	4
Total	18

Unit: III	
Topics to be covered	**No. of Hours**
The Marava country and the Sethupathis of Ramnad	2
society	2
cultural contribution; Administration of the Nawabs	2
village administration	1
society	1
famines and diseases	2
Status of women	2
economic and religious life	2
Social Impact of the Europeans; Religion: Saivism: St. Ramalinga	2
Vaishnavism: the Schism	2
Total	18

Unit: IV	
Topics to be covered	**No. of Hours**
Christianity: Policy of the Company	3
growth and impact	3
Introduction of Western education	3
Government education	3
Professional and Technical education	3
Female education	3
Total	18

Unit: V	
Topics to be covered	**No. of Hours**
Emergence of Administrative and Professional Elites	3
Justice Party and Non-Brahmin Movement	3
E.V.R, a social reformer	3
Self Respect Movement	3
Contribution of Dravidian Movement to social transformation	3
socio- cultural impact of the Dravidian parties	3
Total	18

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: I M.A. HISTORY**
Course Code: 23PHICC23	**Staff Name: Dr. M. Basheer Ahamed Meeran** **Dr. T. Anas Babu**
Course Name: Historiography and Historical Methods	

Unit: I	
Topics to be covered	**No. of Hours**
Meaning, Nature, and Scope of History	4
Kinds of History and Allied Subjects	4
Lessons of History; Uses and Abuses of History	5
Role of Individuals, Role of Institutions and Role of Ideas in History	5
Total	18

Unit: II	
Topics to be covered	**No. of Hours**
Philosophy of History	3
Positivist History	3
Marxist Interpretation of History	3
Annales Paradigm	3
Subaltern History	3
Subjectivity and Need for Objectivity in History	3
Total	18

Unit: III	
Topics to be covered	**No. of Hours**
Historical Research: Pre-requisites of a Researcher	2
Choice of Topic	1
Review of Literature	2
Hypothesis	2
Sources of History	2
External and Internal Criticism of Sources	3
Collection of Data, Synthesis, Exposition and Writing	3
Use of Footnotes and preparation of Bibliography	3
Total	18

Unit: IV	
Topics to be covered	**No. of Hours**
Development of Historical writing in the West	6
Herodotus, Thucydides, St. Augustine, Ibn Khaldun, L.V. Ranke, Arnold Toynbee,	6
E.H. Carr, Fernand Braudel, E.P. Thompson, Eric Hobsbawm	6
Total	18

Unit: V	
Topics to be covered	**No. of Hours**
Historians of India	4
V.A. Smith, D.D. Kosambi, Romila Thapar, Jadunath Sarkar, Bipan Chandra, Ranajit Guha	5
K.A. Nilankanta Sastri, R. Sathianatha Ayyar, S. Krishnaswami Ayyangar,	5
C.S. Srinivasachari, K.K. Pillai	4
Total	18

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: I M.A. HISTORY**
Course Code: 23PHIDE21	**Staff Name: M. Mohamed Asraf**
Course Name: History of Journalism	

Unit: I	
Topics to be covered	**No. of Hours**
The Origin of Press: Invention of Printing Press	3
Gutenberg Press	3
Role of Printing in evolution of modern newspapers;	3
Growth of newspapers in India: Hickey's Gazette, Early journalism in Bengal, Bombay, and Madras presidencies.	3
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Growth of Press and Indian Independence Movement;	3
Role of Newspapers in Indian Freedom struggle;	3
Contribution of Anglo-Indian and Nationalist Press to the field of Journalism in India;	3
Role and responsibility of press in Modern India	3
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Government and the press: reaction and regulation –Press laws	12
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Contribution of Eminent Personalities to Indian Journalism: Bala Gangadhara Tilak	3
Gandhi	1
S. Sadanand; Contributions of Eminent personalities to Tamil journalism	4
G. Subramanialyer	1
Peiryar	1
Aditanar	1
Kalaignar	1
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Contribution of Important News Papers: Amrit Bazar Patrika, The Times of India	4
The Hindu; Contemporary News Papers in Tamil- Dinamani	3
DhinaThanthi	1
Dinamalar	1
Dinakaran	1
Viduthalai	1
Murasoli	1
Total	12

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: I M.A. HISTORY**
Course Code: 23PHIGE21	**Staff Name: Mr. M. Jamal Mohideen**
Course Name: Environmental History of India	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction To Environmental History – Habitats in Human History	4
Modes of Production and Modes of Resource Use	4
Schools of Thought in Ecology: Marxist, Gandhian, Eco-Feminism, Anthropocene.	4
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Prehistoric Environment in India	2
Role of Climate in Indus Valley Civilization	2
Forest In Ancient India	2
Iron Tools and Deforestation in the Vedic Period	2
Eco-Systems of the Sangam Age In South India	2
Asoka And Ecology	1
Mughals And Hunting.	1
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Ecological Imperialism	2
Forest Policy: Forest Acts of 1865, 1878 and 1927	2
Protest Against British Forest Acts and Policies of Monoculture	2
Plantation	1
Public Works	1
Railways	1
Hill Stations	1
Systematic Conservation versus Exploitation Debate.	2
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Independent India's Environmental Policy	1
Forest Policy, Resolutions And Acts of 1952, 1980, 1988 and 2018	2
Development Versus Environment	1
Big Dams and Hydro-Electric Power Projects	1
Bhopal Gas Tragedy	1
Tsunami and its Impact	1
Move Towards Sustainable Development, National Environment Policy	2
National Conservation Strategy and the Policy Statement of Environment And Development 1992	1
National Environment Tribunal, National Green Tribunal.	2
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Environmental Movements: Bishnoi Movement	2
Chipko Movement	2
Appiko Movement	2
Narmada Bacchao Andolan	2
Silent Valley Movement	2
Jungle Bachao Andolan	2
Total	12

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: I M. Com NME**
Course Code: 23PHISE21	**Staff Name: Ms. K.C. Raihanath**
Course Name: Introduction to Epigraphy (NME)	

Unit: I	
Topics to be covered	**No. of Hours**
Epigraphy	2
Definition	2
Importance of epigraphy for writing history	4
Format of Inscription	2
Authenticity	2
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Nature of the material	4
stone, metal, clay, terra-cota, pottery, wood, papyrus, parchment	4
Types of inscriptions- monumental- archival- Incidental	4
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Origin of Writing in India	4
Indus Script and its decipherment	4
Brahmi and Kharosthi Script	4
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Origin of Writing in South India	4
Tamili	2
Tamil Brahmi	2
Vattezhuthu	2
Grantha Script	2
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Inscriptions as historical source material	2
Inscriptions of Indus civilization	2
Asokan Pillar inscriptions	2
inscriptions of Gupta period	2
Inscriptions in Tamilnadu	2
Mangulam	1
Sittannavasal	1
Total	12

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: II M.A. HISTORY**
Course Code: 23PHICC41	**Staff Name: Dr. M. Basheer Ahamed Meeran** **Mr. S. Shack Abdullah**
Course Name: Contemporary History of India	

Unit: I	
Topics to be covered	**No. of Hours**
Demographic Profile: Characteristics of Indian Population – Population growth – Religion	4
Language – Occupation – National Policy on Population.	3
The Political Development: Reorganisation of States on Linguistic bases – Channels of integration	4
Political parties – From Sastri to Indira Gandhi	3
Rajiv years – Changes during Bharathiya Janata Party.	4
Total	18

Unit: II	
Topics to be covered	**No. of Hours**
Science and Technology: Government of India Policy – Atomic and Nuclear Policy	4
Space Research - ISRO – DRDO - IT – National Research Institutes.	4
Transport and Communications: Railways – Roads – Shipping	3
Civil aviation – Postal, Telegraph – Telecommunication	3
Landline –internet, Communication satellites – Mobile communication.	4
Total	18

Unit: III	
Topics to be covered	**No. of Hours**
The Economic Development: Planning Commission – National Development Council-State Plans	4
Five Year plans – Liberalization and Privatization and their impact.	4
The Foreign policy: objectives of Foreign Policy, Basic principles of Indian Foreign Policy	4
India and China – India and Pakistan	3
India and USA – India and Russia.	3
Total	18

Unit: IV	
Topics to be covered	**No. of Hours**
Indian Society: Rural and Urban context – Constitutional framework for safeguarding the social interest.	4
Education: Indian Education Commission – University Grants Commission	4
Kothari Commission	3
Progress of Women Education	4
Growth of Science Education.	3
Total	18

Unit: V	
Topics to be covered	**No. of Hours**
Culture and the Arts: Society – Religion	4
Family – Festivals	4
Cuisine – Recreation and Sports	4
Performing Arts – Drama and Cinema	3
Folk Arts.	3
Total	18

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P.G. Department of History & Research Centre,
Hajee Karutha Rowther Howdia College (Autonomous),
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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: II M.A. HISTORY**
Course Code: 23PHICC42	**Staff Name: Mr. F. Mohamed Khan** **Mr. S. Shack Abdullah** **Dr. T. Anas Babu**

Course Name: International Relations since 1945 CE

Unit: I	
Topics to be covered	**No. of Hours**
Theories of International Relations: Idealist Theory – Realist Theory – World Systems Theory	3
Neorealist Theory – Neoliberal Theory; State System: Origin – Nature – Sovereignty	3
Nationalism – Balance of Power: Meaning – Characteristics	3
Types – Techniques – Collective Security: Meaning – Nature – Diplomacy	3
Diplomacy: Meaning – New Diplomacy – Types of Diplomacy	3
National Security: Definition – Internal Threats – External Threats.	3
Total	18

Unit: II	
Topics to be covered	**No. of Hours**
Cold War: Origin – Phases of Cold War – End of Cold War	4
NAM: Origin – Membership and Conferences	4
Objectives – Achievements	4
India's Role; Middle East: Arab Israeli Conflict	3
Oil Crisis.	3
Total	18

Unit: III	
Topics to be covered	**No. of Hours**
United Nations Organization and Regional Organisations: UNESCO – UNICEF – WHO	4
European Union	4
Organization of African Unity	4
ASEAN	3
SAARC.	3
Total	18

Unit: IV	
Topics to be covered	**No. of Hours**
Bretton Woods Institutions: World Bank and IMF	5
UNCTAD – North	5
South Dialogue – NIEO	5
GATT – WTO.	3
Total	18

Unit: V	
Topics to be covered	**No. of Hours**
Nuclear Politics: IAEA – NPT – CTBT	4
Concepts – India's Nuclear Policy;	3
International Terrorism: Origin – Types – 9/11 – US War on Terrorism	4
Indian Perspective; Indian Ocean: Cold War Politics– Contending Interests – India's Concerns	4
Environmental Concerns: Rio – Kyoto – Green Peace	3
Total	18

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: II M.A. HISTORY**

Course Code: 23PHIGE42	**Staff Name: Mr. A. Aboobacker Siddiq**

Course Name: Science and Technology in India since 1947 CE

Unit: I	
Topics to be covered	**No. of Hours**
Establishment of Science and Technology Ministry and Scientific Research Institutions: CSIR, BARC, AIIMS, ICAR, IITs	4
Evolution of Government of India's Science and Technology Policy	4
Frameworks since Independence	2
Science and Technology Policy Documents, 1958, 1983, 2003, 2013.	2
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Development of Agricultural Science: Green Revolution	4
M.S. Swaminathan	2
White Revolution	2
Verghese Kurien	2
Blue Revolution	2
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Atomic Energy and Nuclear Power Generation Programme: Homi Bhabha – Atomic Energy Commission of India – Pokhran I&II	4
Nuclear Power Policy of India Space Research: ISRO – Development of INSAT system	2
Remote Sensing Applications– PSLV – Chandrayaan	2
Mangalyaan– Space Applications – DRDO– India's Missile Programmes	2
A.P.J. Abdul Kalam – India's Ballistic Missile Defence System	2
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Ocean Sciences: Indian National Centre for Ocean Information Services – Ocean Forecasts	3
Tsunami warning system – Biotechnology	3
Department of Bio-Technology – Biotechnology Parks and Incubators	3
Biotechnology Industrial Research Assistance Council.	3
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Information Technology Revolution: New thrust on Knowledge Economy, Basic scientific research in frontier areas like Nano and Biotechnology, and Innovation eco-systems	6
Social and Economic Impact of Scientific advancements.	6
Total	12

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: HISTORY	**Programme: II M.A. HISTORY**
Course Code: 23PHISE41	**Staff Name: Mr. A. Aboobacker Siddiq** **Ms. K.C. Raihanath** **Mr. M. Jamal Mohideen** **Mr. F. Mohamed Khan**

Course Name: Cargo and Logistics

Unit: I	
Topics to be covered	**No. of Hours**
Definition of Cargo and Logistics: History and Evolution	4
Objectives	4
Elements.	4
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Ports: Handling of Cargo in Major and Minor – The Cargo Handling Organisations in Ports	4
Types of Cargo in Shipping	2
Handling of Cargo in Airport	2
The Cargo Handling Organisations in Airport	2
Types of Air Cargo - Cargo needing Special Attention.	2
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Logistics Management: Definition	4
Role of Tourism Logistics Management	4
Functions of Logistics Management.	4
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Concept of IATA Cargo Agent: Formation	3
IATA Recognition	2
Agents	2
Duties & Responsibilities	2
Payment Procedures.	3
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Logistic Management Challenges: Customer Service	3
Transportation Cost Control	2
Planning and Risk Management	2
Supplier/Partner Relationship	2
Governmental and Environmental Regulations.	3
Total	12

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 23UECCC21	**Staff Name: Dr.G.RAMANAN**

Course Name: MICROECONOMICS - II

Unit: I	
Topics to be covered	**No. of Hours**
Perfect Competition	3
Features of Perfect Competition	3
Equilibrium of the firmand the industry in the Short Run	3
Long-Run Equilibrium in Perfect Competition	3
Time Element Analysis	2
Total	**14**

Unit: II	
Topics to be covered	**No. of Hours**
Monopoly and Price Discrimination - Definition of Monopoly	3
Demand and Marginal Revenue	3
Equilibrium under Monopoly	2
Dead Weight Loss -Policies to Control Monopoly	2
Price Discrimination	2
First Degree, Second Degree and Third-Degree Price Discrimination	2
Dumping	1
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Monopolistic and Oligopoly Competition - Monopolistic Competition–Features	3
Product Differentiation	1
Market Equilibrium and Short Run and Long Run	2
Barriers to Entry – Group and Industry Equilibrium	2
Excess Capacity -Oligopoly	2
Kinked Demand Curve – Collusion	2
Cartels and Price Leadership	2
Game Theory – Minimax – Maximin – Nash Equilibrium	2
Total	**16**
Unit: IV	
Topics to be covered	**No. of Hours**
Distribution Theory	2
Functional and Personal Distribution	3
MarginalProductivity Theory of Distribution	3
Product Exhaustion Theorem	3
Concepts of VMP and MRP	3
Total	**14**
Unit: V	
Topics to be covered	**No. of Hours**
Welfare Economics and General Equilibrium	3
Welfare Criteria – Adam Smith – Edgeworth – Pareto - Kaldor	4
Market Failure – Externalities	3
Walrasian GeneralEquilibrium	3
Static Properties for Consumption, Production, and Distribution	3
Total	**16**

Signature of the Dean

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Uthamapalayam,Theni-Dt-625533

Signature of the HOD

DR. G. RAMANAN, Ph.D.,
Head Economics,
Hajee Karutha Rowther Howdia College.
Uthamapalayam - 625 533.

Signature of the Staff

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 23UECCC22	**Staff Name: Dr.M.NIZAM MYDEEN**

Course Name: STATISTICS FOR ECONOMICS - II

Unit: I	
Topics to be covered	**No. of Hours**
Index Numbers : Index Numbers – Methods	3
Unweighted and WeightedIndex Numbers	3
Aggregate and Relative Index Numbers	2
Chain and Fixed based Index Numbers	2
Test of Adequacy of Index Numbers	2
Wholesale Price Index – Consumer Price Index – Cost of Living Index	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Time Series Analysis : Definition	3
Components and Measurement	3
Graphic Method	2
Methods of Semi Average, Moving Averages and Method of Least Squares	4
Uses of Time Series Analysis	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Theory of Probability	2
Key Concepts of Probability – Importance	2
Theorems of Probability: Addition, Multiplication and Bayes' Theorem	3
Discrete and Continuous Random Variables	3
Theoretical Distributions - Binomial, Poisson and Normal	3
Properties- Uses and Applications	2
Total	**15**
Unit: IV	
Topics to be covered	**No. of Hours**
Sampling - Census and Sample Method	3
Theoretical Basis of Sampling	3
Methods of sampling – Randomand Non –Random Sampling	3
Size of Sample – Merits and Limitations of Sampling	3
Sampling and Non- Sampling Errors.	3
Total	**15**
Unit: V	
Topics to be covered	**No. of Hours**
Testing of Hypothesis : Hypothesis Testing – Meaning, Types, Sources and Functions of Hypothesis	4
Test: Null and Alternative Hypothesis	4
Type – I and Type – II Errors– 't' Test – Paired 't'-test – Chi –Square test, 'F' test –Analysis of Variance	4
One way and Two-way ANOVA	3
Total	**15**

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Hajee Karutha Rowther Howdia College
Uthamapalayam - 625 533.

M. Nizammy
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 23UECGE23	**Staff Name: Dr.A.ABDUL HAMEED**

Course Name: HISTORY OF ECONOMIC THOUGHT

Unit: I	
Topics to be covered	**No. of Hours**
Pre-Classical Thought	2
Nature and Scope of Economic Thought	2
Mercantilism: Growth of Mercantilism	2
Main Principles – Important Mercantilists-	3
Physiocracy - Main concepts - Important Physiocrats	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Classical Economists and Karl Marx	1
Adam Smith- Division of Labour	2
Theory of Value- Laissez Faire- Canons of Taxation	2
Ricardo: Theory of Rent	1
Comparative Advantage Theory of Trade	2
Malthus-Theory of Population –Theory of Gluts	2
Karl Marx-Theory of Surplus Value -Breakdown of the Capitalist System	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Neo-Classical and Institutionalist Thought	2
The Marginalist Revolution	2
Marshall: Value and Role of Time – Marginal Utility and Consumer's Surplus	2
Distribution – Marshallian Concepts	2
Representative Firm, Economies of Scale, Quasi-Rent- Institutional Economics	2
Veblen – Mitchell –J.R.Commons	2
Total	**12**
Unit: IV	
Topics to be covered	**No. of Hours**
Keynesian Revolution and Modern Thought	2
Keynes – Psychological law of Consumption	2
Effective Demand-Theory of Employment	2
Schumpeter's Theory of Innovation - Hicks theory of Trade Cycle	3
New Keynesian Economics- New classical Economics –Rational Expectation Hypothesis	3
Total	**12**
Unit: V	
Topics to be covered	**No. of Hours**
Nobel Laureates in Economics and Indian Economic Thought	2
Nobel Laureates in Economics	2
Paul A Samuelson – Kuznets – Hicks – Myrdal – Milton Friedman	3
Recent Nobel Laureates (Last Three Years)- Indian Economic Thought – DadabhaiNaoroji-Mahatma Gandhi-B.R. Ambedkar – Amartya Sen – Sen's Capability Approach	3
Poverty and Inequality	2
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 23UECSE22	**Staff Name: Dr.G.RAMANAN**

Course Name: COMPUTER APPLICATION IN ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Computers : Computer and Peripherals: Meaning, Types, Features and Limitations	2
Basic Components – Input and Output Devices – Primary Memory and Secondary Storage	2
Computer Software– Types – Malicious Software –Operating Systems: Functionsand Types.	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
MS Office : Windows Explorer - MS Word: Basic Operations inWord – Editing– Formatting – Text Creation of Tables and Volumes	2
MS Power Point Presentation- Creating, Opening and Saving Slideshow and Animations	2
MS Excel: Work Sheet and Work Book- Opening and Formatting	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Data Processing : Data Processing Techniques using MS Excel:Concept of Data Record and File	2
Types of Data – Data Entry – File Handling and Operations– Opening, Appending and Cascading	2
Closing andAttribute Controls – Data Storage and Retrieval	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Introduction to MS Excel : Calculation Operators: Arithmetic Operators	2
Comparison Operators – Logical Operations	2
Excel Tool Bars- Formatting of Text, Tables and Graphs	2
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Application of MS Excel in Statistics and Economics Descriptive Statistics: Mean, Median, Mode and Standard Deviation Variance	2
Index Numbers andGrowth Rates - Demand Function - Supply Function, Production Function and Consumption Function	2
Demand for and Supply of Money- Correlation – Regression	2
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 23UECSE21	**Staff Name: Ms.S.SAGETHA PARVIN**

Course Name: ECONOMICS FOR INVESTORS

Unit: I	
Topics to be covered	**No. of Hours**
Introduction	1
Saving and Investments – Meaning – Types - Importance	1
Role of Savings and Investment on the development of Individuals	2
Distributional Role of Investment – Income and Wealth – Equitable Distributional Role	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Investment Avenues	1
Traditional Investment – Cash, Deposits, Gold, Silver, Commodities Real states	2
Modern Investment – Direct Investment – Portfolio Investment	2
Insurance –Mutual Funds -Traded Funds	1
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Investment Markets : Capital Market – Share Market	1
Primary and Secondary – Bond Markets	1
Money Market – Metal Market - Commodities Markets	2
Foreign Exchange Market - Hedging - Futures and Options	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Economic fundamentals for Investors	1
Domestic Economic Environment: Economic Growth andDevelopment	1
National Income – Per Capita Income, Unemployment – Taxes, Trade Cycle – Infrastructure – Physical and Economic. Political and Social Environment	3
International Economic Environment: International Economic Growth and Development, Trade, ForeignExchange - Global Recession- Oil Market – War Between Countries	2
Total	**7**

Unit: V	
Topics to be covered	**No. of Hours**
Investment Methods and Strategies.	1
Cash Flow – Capital Gain – Risk Rewarding	2
AssetAccumulation - Risk Distribution – Asset Management	2
Total	**5**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: B.Com**

Course Code: 23UCRSE22	**Staff Name: Dr.P.PONMANI**

Course Name: ADVERTISING THEORY AND PRACTICE

Unit: I	
Topics to be covered	**No. of Hours**
Advertising - Meaning - Definitions - Origin - Growth	2
Development – Objectives - Nature - Scope	2
Functions - Primary and secondary functions - AIDA model	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Advertising - Role	1
Importance - Benefits - Demerits	1
Legal regulations - Limitations - Truth in advertising - Ethics in advertising	2
Role of Advertising standards Council of India	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Media selection	1
Factors influencing media selection	2
Different types of Media - Press - Television - Radio – Social Media Networks	2
Internet - Merits - Demerits	1
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Advertisement copy - Meaning - Essentials of a good advertising copy	3
Types of Advertisement copy - Components of Advertisement copy	2
Advertisement layout	1
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Advertising appeals - Meaning - Definition	1
Functions - Classifications – Principles - Skills tested: Brand awareness - Advertisement slogan awareness	2
Understanding concepts - Creating Advertisement slogans- Evaluating contents of advertisements in different media through AIDA model	2
Knowledge of Creating advertisement copy	1
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: B.Com**

Course Code: 23UECGE22	**Staff Name: Dr.V.PARAMASIVAN**

Course Name: BUSINESS ENVIRONMENT

Unit: I	
Topics to be covered	**No. of Hours**
An Introduction : The Concept of Business Environment	3
Its Nature and Significance –Elements of Environment	3
Brief overview of Political – Cultural – Legal	3
Economic and Social Environments and their Impact on Business and Strategic Decisions.	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Political Environment	3
Government and Business Relationship in India	3
Provisions of Indian Constitution Pertaining to Business	3
Total	**9**

Unit: III	
Topics to be covered	**No. of Hours**
Social and Cultural Environment	3
Impact of Foreign Culture on Business	3
Cultural Heritage - Social Groups - Linguistic and Religious Groups	3
Types of Social Organization – Relationship between Society and Business	3
Social Responsibilities of Business	2
Total	**14**
Unit: IV	
Topics to be covered	**No. of Hours**
Economic Environment – Significance and Elements of Economic Environment	3
Economic Systems and their Impact of Business – Macro Economic Parameters like GDP	4
Growth Rate of Population – Urbanization - Fiscal Deficit	3
Plan Investment – Per Capita Income and their Impact on Business Decisions.	3
Total	**13**
Unit: V	
Topics to be covered	**No. of Hours**
Technological Environment – Concept - Meaning	3
Features of Technology-Sources of Technology Dynamics	3
Transfer of Technology- Impact of Technology on Business	3
Status of Technology in India- Determinants of Technological Environment	3
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 23UECCC41	**Staff Name: Mr.G.PONNAMBALAM**

Course Name: MACROECONOMICS - II

Unit: I	
Topics to be covered	**No. of Hours**
IS-LM Model : Investment and Interest Rate	3
Money Demand, Money Supply and the interest rate	4
Derivation of IS and LM Curve	4
Shifts in IS Curve and Shifts in LM Curve	4
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Business Cycles : Phases of Business Cycles	3
Macroeconomic Variables and Business Cycles	3
Classical Theory and Business Cycles	3
Hawtrey, Von Hayek, Schumpeter Hicks, Kaldor and Samuelson Models	3
Keynesian theory of Business Cycles	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Monetary Policy : Money - Functions of Money	3
Money Supply and Money Demand	4
Classical Dichotomy – Keynesian theory of Money Demand	4
Instruments of Monetary Policy-IS-LM Model and Monetary Policy	4
Total	**15**
Unit: IV	
Topics to be covered	**No. of Hours**
Fiscal Policy : Instruments	3
Classical and Keynesian Theory of Fiscal Policy	3
Fiscal Expansion – IS-LM Model and Fiscal Policy	3
Critique of Fiscal Policy	3
Three Ranges in LM Curve	3
Total	**15**
Unit: V	
Topics to be covered	**No. of Hours**
Supply Side Economics : Rational Expectation Hypothesis	4
New Classical School	4
Contribution of Robert Lucas	4
New Keynesian School	3
Total	**15**

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Hajee Karutha Rowther Howdia College,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 23UECCC42	**Staff Name: Dr.K.ABDUL RAHIM**

Course Name: INDIAN ECONOMY

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Indian Economy	2
Features and Issues of Indian Economy	2
Planned Economic Development in India	2
Achievements and Failures of Planning in India	3
Economic Crisis and Rationale behind Economic Reforms	3
New Economic Policy (LPG) 1991 – NITI Aayog	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
National Income, Poverty and Human Development Index : National Income	3
Sectoral Contributions and Economic Transition in India	3
Poverty and Inequality	2
Definition and Estimates, Gini Coefficient, Sen Index, Poverty Line	2
Income and Regional Inequalities: Causes and Measures, Unemployment: Nature and Extent, Measures	3
HDI – International Comparisons	2
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Sectors of the Indian Economy	2
Indian Agriculture	2
Trends in Production and Productivity	2
Land Reforms – Green Revolution - Agricultural Pricing - Agricultural Marketing – Food Security	3
Industrial Development – Trends and Problems, MSMEs – Industrial Policy 1991 and Recent Developments	3
Overview of Service and Financial Sectors in India	3
Importance – Expansion of Private Banks	3
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Foreign Trade : Importance of Foreign Trade for a Developing Economy	3
Composition and Direction of India's Foreign Trade	3
Role of FDI and Foreign Institutional Investors	3
BOP Crisis - India's Trade Policy	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Fiscal Federalism : Principles of Federal Finance	3
Fiscal Federalism in India	3
Functions and Sources of Revenue	3
Vertical and Horizontal Imbalances	3
Finance Commission – Reports and its Recommendations	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 23UECGE41	**Staff Name: Dr.M.NIZAM MYDEEN**

Course Name: RESEARCH METHODS IN ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Introduction Research: meaning and significance Characteristics of Scientific Research	3
Type of Research: Pure, Applied, Analytical, Exploratory, Descriptive, Surveys, Case-Study	3
Limitations of Social Science Research	3
Role of Computer Technology In Research	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Research Problem and Review of Literature Research Problem: formulation and selection - necessity of defining the problem	3
Review of literature: Primary and Secondary Sources	3
Importance of literature review in defining a problem	3
Identifying gap areas from literature and research database	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Research Design Research Design: Concept and Importance in Research	3
Features of a Good Research Design	2
Exploratory Research Design	2
Descriptive Research Design	2
Experimental Design: Concept of Independent & Dependent variables	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Data and Sampling Methods Data types: Qualitative and Quantitative	3
Sources of Primary and secondary data	3
Census - Sampling Methods: Probability and Non-Probability Sampling Methods	3
Sampling and Non-Sampling Errors	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Hypothesis and Report Writing Hypothesis: Types of Hypothesis	2
Null and Alternative Hypothesis	3
Parameter and Statistic - Type I and Type II Errors	2
Level of Significance and Critical Region	3
Report Writing - Types and Principles of writing the Research Report	2
Total	**12**

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M. Nizamudeen

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 23UECSE42	**Staff Name: Mr.G.PONNAMBALAM**

Course Name: MODERN BANKING AND INSURANCE

Unit: I	
Topics to be covered	**No. of Hours**
Banking: Commercial Banks	1
Functions of Commercial Banks- Private and Public Sector Banks	2
Credit Creation - Commercial Banks's role	1
Payment Banks- functions- Digital Banking-Tools – Methods	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Central Banks	1
Functions of a Central Bank	1
Objectives of Monetary Policy	1
Effects and Limitations	1
Narasimhan Committee Report	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction to Insurance Insurance: Meaning and Types	2
Role of Insurance in Economic Development	1
Saving and Investment Aspects	1
Social Vs Private Insurance: Life Vs Non-Life Insurance. Classification of Life, Health and General Insurance Policies	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Insurance Contract and Risk Management : Meaning of contract	1
Insurable Interest- Utmost good faith- Principle of Indemnity and other Principles	2
Management: Definition and Types	1
Risk - Management of Risk through Identification Analysis and Control	2
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Insurance Business in India	1
Major Insurance Legislation- Growth of Industry	1
Agricultural Insurance- Health Insurance- Reinsurance	2
Entry of Private Insurance Companies	1
Insurance Act. LIC Act, GIC Act. IRDA Act	1
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 23UGEVS41	**Staff Name: Dr.K.ABDUL RAHIM**

Course Name: ENVIRONMENTAL STUDIES

Unit: I	
Topics to be covered	**No. of Hours**
Earth and its Environment: a) Earth- formation and Evolution of Earth over time	2
Structure ofEarth and its components	1
Atmosphere, Lithosphere, Hydrosphere and Biosphere.	1
b) Resources – renewable and nonrenewable resources	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Ecology and ecosystem concepts: a) Ecology – definition	2
Ecosystem: Definition – structure andfunction	1
Energy flow – food chain and Food web – one example for an ecosystem	2
b) Biogeochemical cycles – Nitrogen, carbon, Phosphorous and Water	1
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Biodiversity of India: a) Introduction – definition	1
Values of Biodiversity -Threat to Biodiversity Conservation of Biodiversity	2
b) Biodiversity of India – as a mega diversity nation – bio-geographical distribution	2
Hot spotsof biodiversity – National Biodiversity Conservation Board and its function	1
Total	**6**
Unit: IV	
Topics to be covered	**No. of Hours**
Pollution and Global issues: a) Definition, causes, effects and control measures of Air, Water, Soil, Marine, Noise, Thermal and Nuclear pollution	3
b) Global issues: Global Warming and Ozone Layer Depletion	3
Total	**6**
Unit: V	
Topics to be covered	**No. of Hours**
Development and Disaster Management: a) Sustainable Development – Sustainable Agriculture Organic farming, Irrigation – Water harvesting and Waste recycling – Cyber waste andmanagement	3
b) Disaster Management – Flood and Drought – Earthquake and Tsunami – Landslides andAvalanches – Cyclones and Hurricanes –Precautions,Warnings, Rescue and Rehabilitation	3
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: B.Com**

Course Code: 23UCRGE41	**Staff Name: Dr.A. ABDUL HAMEED**

Course Name: FINANCIAL SERVICES

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Financial System Structure of Financial System	1
Role of Financial System in Economic Development – Financial Markets and Financial Instruments	2
Capital Markets – Money Markets – Primary Market Operations	2
Role of SEBI – Secondary Market Operations – Regulation – Functions of Stock Exchanges – Listing – Formalities	2
Financial Services Sector Problems and Reforms	2
Total	**9**

Unit: II	
Topics to be covered	**No. of Hours**
Introduction to Financial Services Concept, Nature and Scope of Financial Services	2
Regulatory Frame Work of Financial Services – Growth of Financial Services in India	2
Merchant Banking – Meaning-Types – Responsibilities of Merchant Bankers	2
Role of Merchant Bankers in Issue Management – Regulation of Merchant Banking in India.	3
Total	**9**

Unit: III	
Topics to be covered	**No. of Hours**
Venture Capital and Leasing Venture Capital – Growth of Venture Capital in India	3
Financing Pattern under Venture Capital	2
Legal Aspects and Guidelines for Venture Capital, Leasing	2
Types of Leases – Evaluation of Leasing Option Vs. Borrowing	2
Total	**9**
Unit: IV	
Topics to be covered	**No. of Hours**
Credit Rating Credit Rating – Meaning, Functions	3
Debt Rating System of CRISIL, ICRA and CARE. Factoring, Forfeiting and Bill Discounting	3
Types of Factoring Arrangements – Factoring in the Indian Context.	3
Total	**9**
Unit: V	
Topics to be covered	**No. of Hours**
Mutual Funds Mutual Funds – Concept and Objectives, Functions and Portfolio Classification, Organization and Management	3
De-mat Services- Need and Operations	3
Role of NSDL and CSDL	3
Total	**9**

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Dean of Humanities
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DR. G. RAMANAN, Ph.D.,
Head Economics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: B.Com**

Course Code: 23UCRSE42	**Staff Name: Dr.A. ABDUL HAMEED**

Course Name: FIN TECH

Unit: I	
Topics to be covered	**No. of Hours**
Overview of Financial Technology Financial Technology - Emerging Technologies	**2**
India's Fin Tech Ecosystem – Value Creation	**2**
Fin Tech Adaption – Fin Tech Global Scenario	**2**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Internet of Things (IoT) & Application Program Interfaces Introduction to Internet of Things & Application Program Interfaces	3
Financial System Communication - Open Banking	3
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Avenues of FinTech & Strategies of Artificial Intelligence/Machine Learning	2
Equity Crowd Funding - Wealth Management – P2P & Marketplace lending	3
Introduction to Artificial Intelligence / Machine Learning - Difference between Artificial Intelligence	3
Machine Learning – Fin tech Applications / Case Studies	2
Total	**10**
Unit: IV	
Topics to be covered	**No. of Hours**
Fin Tech Regulations Govt. initiatives in India (NPCI, UPI, OCEAN)	3
Security and Privacy in Fin Tech – Data Protection Laws & Regulations	3
Total	**6**
Unit: V	
Topics to be covered	**No. of Hours**
Project	2
Total	**2**

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DR. G. RAMANAN, Ph.D.,
Head Economics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 20UECC61	**Staff Name: Mr.G.PONNAMBALAM**

Course Name: DEVELOPMENTAL ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Planning – Meaning – Definition	3
Features – Need for Planning in Underdeveloped Economies	4
Types of Planning – Physical and Financial	4
Short term and Perspective Planning- Planning in Capitalist, Socialist and Mixed Economies.	4
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Plan Formulation – planning machinery	3
Plan implementation in India – India's Five Year Plans	4
Objectives – Size of Plan	4
Strategies – Resource Mobilization	4
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Growth – Meaning – Definition	3
Characteristics- Indicators – Causes	3
Economic Development - Meaning - Difference between Economic Development and Economic Growth	3
Obstacles to Economic Development Economic and Non – Economic Factors	3
Nature of Dualism	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Rostow's Stages of Economic growth	3
Theories of Economic Growth – Balanced growth – Unbalanced Growth	3
Big – Push Theory – Thesis of Critical Minimum Effort	3
Mahalanobis Thesis in Development	3
Harrod – Domar Models – Marxian Theory of Surplus Value	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Impact of Economic Growth	5
Agriculture sector, Industrial sector, Service sector	5
Economic reforms in India	5
Total	**15**

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Head Economics,
Hajee Karutha Rowther Howdia College,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 20UECC62	**Staff Name: Dr.A.ABDUL HAMEED**

Course Name: AGRICULTURAL ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Agricultural Economics – Meaning – Definition	3
Scope - Characteristics, Importance	4
Role of Agriculture in Economic development	4
Distinction between Agriculture and Industry	4
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Ninefold Land use Classification	3
Cropping Pattern and Factors Affecting Cropping Pattern in India	4
Causes for Low Agricultural Productivity	4
Agricultural Labourers – Meaning - Characteristics	4
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Land Reforms	3
Green Revolution - Meaning	3

Objectives - A Critical Evaluation of Green Revolution	3
IADP - Intensive Agricultural District Programme	3
Mechanization of Indian Agriculture	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Concepts and Features of Agricultural Markets	3
Types of Agricultural Markets - Marketable Surplus	4
Objectives of Agricultural Price Policy and Instruments of Price Policy	4
Buffer Stock – Minimum Support Price	4
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Rural Indebtedness	3
Causes, Consequences, Measures to Remove Rural Indebtedness	4
NABARD, RIDF (Rural Infrastructure Development Fund), National Agricultural Insurance Scheme	4
Kisan Credit Card Scheme	4
Total	**15**

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Head Economics,
Hajee Karutha Rowther Howdia College,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 20UECC63	**Staff Name: Dr.K.ABDUL RAHIM**

Course Name: ENVIRONMENTAL ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
The Environment and Economy: Environment: Meaning – Definition- Importance	4
Environmental Economics: Meaning –Definition- Scope and Significance of Environmental Economics	4
Relationship between Environment and Economics	4
Transformation Curve – Tragedy of Commons	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Market Failure and Theories of Environmental Economics: Market failure: Meaning – Causes	4
Externality: Meaning – Types	3
Perfect Competition and Externality	4
Imperfect Competition and Externality	4
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Resources and its Conservation: Resource – Meaning – Energy – Meaning	4

Types (Renewable and Non-renewable Resources– Conventional and Non-conventional Resources)	3
Conservation of resources – Meaning – Methods of Conservation	4
Material Substitution, Product Life Extension and Re- cycling Methods	4
Total	**15**
Unit: IV	
Topics to be covered	**No. of Hours**
Environmental Pollution: Pollution – Meaning – Sources	4
Impacts of Air, Water, Land and Noise Pollution	4
Pollution Control Measures	3
De- forestation and its impacts on Environment	4
Total	**15**
Unit: V	
Topics to be covered	**No. of Hours**
Environmental Education and Law: Environmental Education – Meaning – Objectives	3
Education Through Environmental Movements	3
CHIPKO Movement – APPIKO Movement	3
Save the Silent Valley Movement – Save Narmada Movement	3
The Environmental Protection Act 1986	3
Total	**15**

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DR. G. RAMANAN, Ph.D.,
Head Economics,
Hajee Karutha Rowther Howdia College,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 20UECC64	**Staff Name: Dr.M.NIZAM MYDEEN**

Course Name: LABOUR ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Introduction: Meaning of Labour	3
Characteristic features of Labour	3
Migration: meaning- Causes and effects of Migration	3
Causes of Absenteeism – Causes of Turn Over	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Wage: Definitions – Money Wage and Real wage	3
Factors affecting Real Wage	3
Theories of wages: Classical, Marginal Productivity Theory and Loanable Fund Theory of wage	3
Wage differentials	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Trade Unionism: Meaning and objectives of Trade Union	3
Trade Union Movement in India	2

Functions of Trade Union	2
Problems and drawbacks of Trade Union	3
Measures to strengthen the Trade Union Movement	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Industrial Disputes: Meaning - Causes and Effects of Industrial Disputes	3
Prevention of industrial disputes: Joint Management Council, Code of Discipline	3
Machinery for settling the industrial disputes in India : Works Committee, Conciliation Officer, Board of Conciliation, Court of Enquiry, Labour Court and Industrial Tribunals	3
Collective Bargaining – Methods of Collective Bargaining	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Labour Welfare: Meaning and Need for Social Security Measures	3
Social Assistance and Social Insurance	3
Second National Commission on Labour, ILO, Establishment of ILO	3
Aims and objectives of ILO, Impact of ILO on India.	3
Total	**12**

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DR. G. RAMANAN, Ph.D.,
Head Economics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

Signature of the Staff
M. Nizamudeen

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 20UECC65	**Staff Name: Dr.N.MOHAMED SAMEEM**

Course Name: MANAGERIAL ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Meaning – Definitions of Managerial Economics	3
Nature and Scope – Economics and Managerial Economics	4
Fundamental Concepts in Managerial Economics	4
Role and Responsibilities of a Managerial Economist	4
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Theory of Firm-Firm and Industry	3
Objectives of a Modern Business Firm	3
Demand forecasting – Meaning – Objectives – Purpose of demand forecasting	3
Methods of Demand Forecasting – Established Products and New Products	3
Features of a Good Demand Forecasting Method	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Cost of Production – Meaning – Types of Cost of Production	3
Cost Control- Pricing - Meaning – Methods of Pricing	4

Full Cost Pricing – Marginal Cost Pricing	4
Going Rate Pricing, Customary Pricing, Peak Load Pricing, Skimming Pricing, Penetrating Pricing – Differential Pricing.	4
Total	**15**
Unit: IV	
Topics to be covered	**No. of Hours**
Production-Meaning – Types of Production.	5
Laws of Returns – Laws of Returns to Scale	5
Industrial Productivity – Factors Influencing Industrial Productivity	5
Total	**15**
Unit: V	
Topics to be covered	**No. of Hours**
Profit – Meaning – Gross Profit – Net Profit	4
Break Even Analysis – Theories of Profit	4
Risk Bearing Theory – Dynamic Theory	4
Innovation Theory	3
Total	**15**

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Head Economics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 20UECE61	**Staff Name: Dr.WASEEMA YASEEN**

Course Name: ECONOMICS FOR COMPETITIVE EXAMINATIONS

Unit: I	
Topics to be covered	**No. of Hours**
Indian Economy and Planning	4
Basic features of Indian Economy	4
Planning – Planning for Progress.	5
Total	**13**

Unit: II	
Topics to be covered	**No. of Hours**
Public Finance: Budget	7
Fiscal Policy	5
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Agriculture and Rural Development: Importance of Agriculture	5
Green Revolution – Agricultural Finance	5

Marketing – Rural Development Programmes	4
Total	**14**
Unit: IV	
Topics to be covered	**No. of Hours**
Currency and Banking: The Indian Currency System	4
The Reserve Bank of India	3
Commercial Banking – Financial Institutions	4
Total	**11**
Unit: V	
Topics to be covered	**No. of Hours**
Foreign Trade: National Income	5
Foreign Trade and Balance of Payment	5
Total	**10**

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Head Economics,
Hajee Karutha Rowther Howdia College,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: BA**

Course Code: 20UECS61	**Staff Name: Dr.G.RAMANAN**

Course Name: FUNDAMENTALS OF COMPUTER - II

Unit: I	
Topics to be covered	**No. of Hours**
Introduction: Introduction to Access	3
Creating a Simple Data Base and Tables –Forms Objects of RDBMS	3
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Application of MS Access: Entering and Editing Data	2
Finding, Sorting and Displaying Data	2
Printing Reports, Forms, Letters and Labels	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
MS Power Point: Basics of Power point – Power point Screen	3
Creating Presentation – Working with Text	3
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
MS Applications of Power Point: Saving and Closing a Presentation	3
Working with Slides, Working with graphics, Multimedia and Hyperlink.	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
E - Mail and Browsing: Introduction to E-Mail Concepts	3
Creating, Editing a Mail and Sending – E-mail – Advantages and Disadvantages	3
Total	**6**

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Dean of Humanities
Hajee Karutha Rowther Howdia College
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Head Economics,
Hajee Karutha Rowther Howdia College,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: MA**

Course Code: 23PECCC21	**Staff Name: Dr.V.PARAMASIVAN**

Course Name: MONETARY ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Classical Theories of Money: Demand for Money Quantity theories of money	4
Fisher and Cambridge- Keynesian monetary theory- James Tobin's portfolio analysis of money demand	5
Don Patinkin`s Integration– Real Balance Effect	4
Milton Friedman's reformulated quantity theory	5
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Supply of Money Supply of Money Types and determinants of money supply	5
Money multiplier	4
Theories of interest rate	4
Classical – Keynes – Hicks – Hansen	5
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Money and Capital Market Money and Capital Market Significance and functions of Money market and capital market	5
Role of financial intermediaries	4
Effects of financial intermediation	4
Non-banking financial institutions – Gurley and Shaw theory.	5
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Banking and its functions Banking Functions of Commercial banks - Credit creation	4
Process and limitations Role of Commercial banks after nationalization – After reforms	5
Role of RBI – Regulation of money supply and credit	3
Narasimham Committee Reports– 1991 and 1998	3
Raguram Rajan Committee Report -2007	3
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
MonetaryPolicies Monetary Policy Objectives and Instruments of Monetary policy	5
Limitationsof monetary policy	4
Monetarism and Keynesianism	4
Comparison - Supply side policies.	5
Total	**18**

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Uthamapalayam,Theni-Dt-625533

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Head Economics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: MA**

Course Code: 23PECCC22	**Staff Name: Ms.S.SAGETHA PARVIN**

Course Name: LABOUR ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Labour Market and Policies: Labour Market	2
Nature and Characteristics, Demand for Labour in relation to size and pattern of investment	6
Choice of technologies and labour policies Supply of Labour, Growth of Labour Force	6
Labour Market Policies, Mobility and Productivity	4
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
EmploymentandWage Determination Employment and Development relationship	2
poverty and unemployment, Unemployment	4
Types, concepts and measurement, Employment Policy Wage Determination	5
Classical, Neo-classical and Bargaining theories; Concepts of minimum wage and efficiency wage; Non-wage component	7
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Trade Union Movement Since Independence and Present Scenario of the Trade Union Movement	2
AITUC – INTUC – HMS – UTUC	4
Association of Indian Trade Unions with International Trade Unions	4
Problems of Trade Unions– Essentials for success of a Trade Union	3
TheTradeUnionAct,1926- RecentpoliciesrelatingtoTrade union act	5
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Industrial Relation Need for Industrial Relation Machinery	2
Preventive and Curative methods	4
Collective Bargaining, Arbitration and Adjudications	5
Industrial Democracy, the concept of Workers participation in management	4
Role of State in Industrial Relations	3
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Social Security and Reforms	2
Concepts and evolution, Social assistance and insurance, Review and Appraisal of State Policies, Special Problems	7
Child labour, discrimination, bonded labour-Labour market Reforms	3
Exit Policy, safety requirements, National Commission on Labour, Globalisation and labour markets, mobility of labour	6
Total	**18**

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Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: MA**

Course Code: 23PECCC23	**Staff Name: Dr.P.PONMANI**

Course Name: MATHEMATICAL ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Linear Algebra	2
Sets-Basic concepts-Ordered sets	3
Relations-Order relations-Metric Spaces- open and closed sets–Convergence	4
Linear Algebra, Vectors, matrices, inverse, simultaneous linear equations, Cramer's rule for solving system of linear equations, input-output model, Hawkins	5
Simon condition, open and closed models , quadratic equation, characteristic (eigen) roots and vectors	4
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Differential Calculus Introduction to Functions, Limits and Continuity, Derivatives	6
Concept of maxima & minima, elasticity and point of inflection. Profit & revenue maximization under perfect competition, under monopoly	6
Maximizing excise tax revenue in monopolistic competitive market, Minimization of cost etc	6
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Optimization Techniques with Constraints	2
Functions of several variables, Partial and total, economic applications, implicit function theorem, higher order derivatives and Young's theorem, properties of linear homogenous functions, Euler's theorem, Cobb	5
Douglas Production Function-Constrained Optimization	3
Lagrangian Multiplier Technique-Vector and Matrix Differentiation	4
Jacobian and Hessian Matrices-Applications-Utility maximization, Profit maximization and Cost minimization	4
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Linear and Non-Linear Programming Optimization with Inequality Constraints	4
Linear Programming–Formulation- Primal and Dual	4
Graphical and Simplex method	4
Duality Theorem-Non-Linear Programming-Kuhn-Tucker Conditions	4
Economic Applications	2
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Economic Dynamics: Differential Equations	2
Basic Ideas-Types-Solution of Differential Equations (Homogenous and Exact)	2
Linear Differential Equations with Constant Coefficients (First and Second Order)	3
Applications- Solow's Model- Harrod- Domar Model-Applications to Market models-Difference Equations	4
Types- Linear Difference Equations with Constant Coefficients (First and Second order) and solutions	4
Applications- Samuelson's Accelerator-Multiplier model-Cobweb model	3
Total	**18**

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Head Economics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: MA**

Course Code: 23PECDE21	**Staff Name: Dr.P.PONMANI & Dr.WASEEMA YASEEN**

Course Name: GENDER ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Introduction: Definition- Objectives of Gender Studies	2
Importance of gender Studies - Women and work: unpaid, underpaid and casual work	3
Women in primary, secondary and tertiary sectors - Classification of work in Indian census and NSSO	2
Main workers, marginal workers, non-workers- Invisibility of women's work, problems in measurement	3
Non-recognition of women's work in national income accounting	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Gender Inequality in Labor Market Segmented Labor Market and Occupational Segregation	2
Gendered jobs and Social Inequality-Sex Segregation at Work Place	3
Globalisation and its impact on gender - Issues of wage discrimination and exploitation in unogranised sector	2
Women's participation in organised sector	3
Gender Discrimination - Gender issues at the work place	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Social Empowerment: Women in Higher Education	3
Gender issues in Health, Environment, Family welfare Measures	3
Indecent representation of Women in media	3
Women in Difficult circumstances; Constitutional	3
Total	**12**
Unit: IV	
Topics to be covered	**No. of Hours**
Economic Empowerment: Introduction - organized sector, unorganized sector	3
Role of Women in Economic Development– Female Poverty and Poverty alleviation programmes	3
Status of Women farmers and land rights-Women Entrepreneurs	3
Impact of Globalization on working women - National Policy for the empowerment of women 2001	3
Total	**12**
Unit: V	
Topics to be covered	**No. of Hours**
Social issues and Women in Indian Planning Issues in the Unorganized sector of Employment	3
Women's work: Status and problems - problems of Dalit women	3
Invisibility of women in official data system-Absence of gender disaggregated data	3
Initiatives towards recognition of women as agents of development from sixth five year plan	3
Total	**12**

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Dr.G.RAMANAN,Ph.D.,
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Hajee Karutha Rowther Howdia College
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DR. G. RAMANAN, Ph.D.,
Head Economics,
Hajee Karutha Rowther Howdia College.
Uthamapalayam - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: MA**
Course Code: 23PECGE21	**Staff Name: Dr.WASEEMA YASEEN**
Course Name: RESOURCE ECONOMICS	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction: Land Resources in India	3
Types of soil-Land resource Classification	3
Forest ,Barren land, Pastures and grazing land, cultural Waste Land, Fallow Land, Agricultural Land	3
Net Sown Area - Land degradation and soil Erosion- Preventive Measures	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Role of Resources in Economic Development	2
Forest Resources-Role of Forests in Economic Development-Forest cover in India	2
Deforestation-Effects of Deforestation-Urban Forestry	2
Objectives of Urban Forestry- Social Forestry-Constraints in Social Forestry	3
Collective Participatory Forest Management – Recent National Forest Policy Act	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Water Resources in India: Surface Water –Ground Water	2
Water Demand and Utilisation - Water Resource Planning	3
Multi –objective Approach-Benefit Cost Ratio-Capital outlay	2
Environmental Impact Assessment(EIA)-Manageability of the project	3
Sustainable Water Management-Recent National Water Policy	2
Total	**12**
Unit: IV	
Topics to be covered	**No. of Hours**
Mineral Resources Metallic Minerals-Non Metallic Minerals	4
Mineral Fuels- Environmental Costs of Extracting Mineral Resources	4
Environmental Impacts of Mineral Resource Extraction and Use-Mineral Conservation and Development Rules (1988)	4
Total	**12**
Unit: V	
Topics to be covered	**No. of Hours**
Conservation and Management of Natural Resources Meaning and objectives of Conservation	4
Conservation of Renewable Resources: Soil conservation- Water conservation-Forests conservation-Fish Conservation-Biodiversity Conservation	4
Conservation of Non Renewable Resources: Energy Conservation-Mineral Conservation	4
Total	**12**

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(Autonomous)
Uthamapalayam,Theni-Dt-625533

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DR. G. RAMANAN,Ph.D.,
Head Economics,
Hajee Karutha Rowther Howdia College.
Uthamapalayam - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: MA**

Course Code: 23PECSE21	**Staff Name: Dr.WASEEMA YASEEN & Ms.S.SAGETHA PARVIN**

Course Name: Social Ethics and Responsibilities– Women Empowerment, Disability, Social Inclusion

Unit: I	
Topics to be covered	**No. of Hours**
Introduction: Social Ethics–Definition	2
Ethical Model: Golden Rule Model and Kantian Model	2
Ethical Decision-making, Ethical Dilemmas in Organization, Corporate Governance-Types of Ethical Issues	3
Theft - Bribery and Corruption	2
Exploitation of Employees – Discipline - Whistle Blowing.	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Workplace and Professional Ethics	2
Ethical Issues in Workplace-Types	3
Accountability- Employee Favoritism	2
Bad Leadership Behavior- Gender Ethics	3
Sexual Harassment and Discrimination	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Social Responsibility of Business	3
Shareholders-Employees - Customers	3
Community and Government	2
Corporate Social Responsibility Initiatives	3
Dimensions-Ethics of Environment Protection & Pollution Control	3
Total	**14**

Unit: IV	
Topics to be covered	**No. of Hours**
Social Inclusion: Meaning of Social Inclusion and Exclusion	2
Dimensions of Social Inclusion	4
Gender Inclusion and Equality	4
Total	**10**

Unit: V	
Topics to be covered	**No. of Hours**
Opportunities for Disabled Main streaming Disability	3
Provision of Employment Opportunities for disabled	3
Indian Government Schemes	3
Ministry of Social Justices and Empowerment	3
Total	**12**

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Hajee Karutha Rowther Howdia College,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: MA**

Course Code: 23PECCC41	**Staff Name: Dr.WASEEMA YASEEN**

Course Name: INTERNATIONAL ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Theories of Trade – I Pure Theory of International Trade Comparative Cost Theory	4
Refinements of Comparative Cost Theory Modern Theory of Factor Endowments	5
Leontief Paradox- Factor price equalization theorem	4
Factors Intensity Reversal: The Stolper-Samuelson Theorem and the Rybezynski Theorem	5
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Theories of Trade - II Recent Theories of International Trade Karvi's Theory of Availability	4
Lindar's Theory of Volume of Trade and demand pattern- Posner's Technological Gap Theory	4
Vernon's Product Cycle Theory - Kenen's Human capital theory- Intra- Industry Trade	4
Theory of Imperfect Competition - Strategic Theory	3
External Economies and International Trade	3
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Balance of Payment : Balance of Payments Policies BOP Disequilibrium	3
Adjustment Mechanism: Elasticity Approach, Absorption approach and Monetary Approach	4
Expenditure changing monetary and fiscal policy	3
Monetary and Fiscal policies for internal and external balance: The Swan Model and Mundallian Model	4
Expenditure Switching Policies and Expenditure Reducing Policies – Foreign Trade Multiplier	4
Total	**18**
Unit: IV	
Topics to be covered	**No. of Hours**
Foreign Aid Foreign Aid and MNCs. Foreign Aid - Types of Foreign aid	3
Advantages and Disadvantages – Factors determining foreign aid	4
Foreign Investment – Foreign Direct investment – Types of FDI- FDI Policy of India	4
Multinational Corporations – Features of Multinational Corporations	4
Advantages and Limitations of MNCs – MNCs and International Trade	3
Total	**18**
Unit: V	
Topics to be covered	**No. of Hours**
Foreign Exchange Managing Foreign Exchange Risk Foreign exchange risk	3
Sources of foreign exchange risk – types of exchange rate risk	4
Transaction risk, Translation risk, Economic risk Measurement of Exchange Rate Risk - value-at-risk (VAR) model. Methods of managing foreign exchange risk	4
Internal and external techniques	3
Forward contracts, Money market hedges, Currency futures, Currency Options, Currency swaps	4
Total	**18**

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Hajee Karutha Rowther Howdia College,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: MA**

Course Code: 23PECCC42	**Staff Name: Dr.V.PARAMASIVAN**

Course Name: DEVELOPMENT ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Introduction Conceptualizing Development Introduction Conceptualizing development: (a) GNP) as development indicator	4
(b) Sen's capabilities approach to development: The Human Development Index- The structural characteristics of developing economies	5
Factors of development : (a) Capital accumulation (b) Labour (c) Natural resources	4
(d) Technological Progress (e) Social institutions cultural values and entrepreneurial ability	5
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Theories of Development and Growth Theories of Development as growth: (a) Harrod-Domar model (b) Rostow's stages of growth	4
theory (c) Lewis theory (d) balanced and unbalanced growth (e) Neo classical growth theory –Solow Model	5
Contemporary theory of development: (a) New growth theory: Romer model (b) Underdevelopment as Co-ordination failure (c) Kremer's O-Ring theory of development	4
Dependency theory-path dependence in development: QWERTY- Geography and development: Krugman's theory	5
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Poverty, Inequality and Human Capital Measurement Poverty, Inequality and Human Capital Measurement of inequality and poverty- -	4
Inverted –U hypothesis - Cause of inequality- Investing in education and health - the human capital approach Education and Development	5
(a) social and private benefits of education- (b) education, inequality and poverty (c) Women's education and development Health system in development	4
(a) health and productivity (b) financing health system in developing economics (c) Gender perspective in health care	5
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Agriculture and Rural Development Agriculture and Rural Development The role of agriculture in development-	3
Agricultural policy: (a) agricultural taxation (b) pricing policy	3
Risk aversion and uncertainty in subsistence farming-sharecropping and interlocking factor markets	4
Rural urban migration –Todaro model –Rural credit markets	4
(a) providers and characteristics (b) theories of informed credit markets: lender's monopoly and default collateral	4
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Policies for Market Development Policies for development Market and the state in development:(a) The Washington consensus components and critical evaluation (b) The role of state in development (c) market failure state failure and development	4
Trade Policy in development : (a) import substitution (b) export promotion	5
Fiscal policy for development: (a) direct Vs indirect taxes (b) pattern and level of taxation.	4
Financial system in development: (a) the role of financial system in development (b) role of central banks (c) financial liberalization	5
Total	**18**

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Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: MA**

Course Code: 23PECGE42	**Staff Name: Dr.P.PONMANI**

Course Name: HUMAN RESOURCE DEVELOPMENT

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Human Resource Management (HRM)	3
Evolution of HRM - Objectives and Function of HRM	3
Role and Responsibilities of HR Manager	3
Relevance of HRM - Systems approach to HRM	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Recruitment and Selection	3
Human Resource Planning: Purpose and Process	3
Recruitment and Selection: Source of Recruitment, Stages in Selection Process	3
Placement, Goals Analysis: Job Description and Job Specification	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Training and Development Training and Development: Training Needs, Training Methods	4
Application of Computers in Training, Developing Effective Training Programmes	4

Concept of HRD	2
Management Development Programmes	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Performance Appraisal Concept and Objectives of Performance Appraisal	2
Process of Performance Appraisal - Criteria for Performance Appraisal	2
Benefits of Performance Appraisal - Limitation and Constraints - 360 Degree Performance Appraisal	2
Promotion-Degree, Transfer Air Separation: Promotion, Purpose, Principles, and Types; Transfer: Reasons	3
Principles and Types; Separation: Lay-Off, Resignation, Dismissal, Retrenchment, Voluntary Retirement Scheme	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Compensation Management Compensation Management, Major Elements of Compensation Management	4
Incentives: Concepts, Types of Incentives; Incentives schemes in Indian Industries; Fringe Benefits	4
Discipline and Employees' Grievance Redressal	2
Emerging Trends in HRM	2
Total	**12**

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(Autonomous)
Uthamapalayam,Theni-Dt-625533

DR. G. RAMANAN Ph.D.,
Head Economics
Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Economics	**Programme: MA**

Course Code: 23PECSE41	**Staff Name: Ms.S.SAGETHA PARVIN**

Course Name: ECONOMICS FOR COMPETITIVE EXAMINATION

Unit: I	
Topics to be covered	**No. of Hours**
Economic Growth and Development The basic concept and definition of economy and economics	2
Its uses and transfer of resources, distributive effects, macro and micro economic policy, micro-macro balance	2
The distributive impact of economic policies, development versus growth, determinant of growth and development	3
Concepts such as HPI / MPI, HDI, PQLI, GEM, GDI / GII, TAI, Green index, sustainable development, India's ranking in the various indices.	5
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Inclusion and Poverty Definition, relevance, types, financial inclusion, recent initiatives	2
Poverty – Definitions, causes, distribution	1
Deprivation, income versus calories, measurement of poverty, the status of poverty, eradication programmes	4
Poverty and resource policy, tribal rights and issues, livelihood mission.	5
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Basic Economic Indicators and Features of Indian Economy National Income – Concepts, Methods of calculation	3
Features of Indian Economy – Economic and Non-economic factors	3
Price Index, Production, Population, Foreign Trade	4
Division of economic activities – Human Development Reports.	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Agriculture and Industry Crops, Seasons, Agricultural Credit Agencies, Kisan Credit Agencies, Land Reforms, Insurance	4
Green, White, Blue, Yellow Revolutions, Irrigation	2
Industrial Policies (1948, 1956, 1991), Small Scale Industries, Industrial Sickness, Disinvestment, PSU Policy, Industrial Finance. – Labour Policies	6
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Public Finance Fiscal Policy – Definition, Components, Receipts, Revenue and Capital Account, Tax Revenue, Expenditure, Budget	6
Finance Commission, Taxation, Deficit Financing, Public Spending and Debt.	3
Monetary Policy – Instruments – Current affairs in Economics	3
Total	**12**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**

Course Code:23PTACC41	**Staff Name : Dr.K.PALANIVELU, A.SUBAITHA HASINA**

Course Name: சங்க இலக்கியம்

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	குநற்தொகை, நற்றிணை களவியல் பாடல்கள்	18
	Total	**18**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	ஒருதிணைப் பாடல்கள் - புறநானூறு – கடையெழு வள்ளல்கள், மகளிர் பாடல்கள்	18
	Total	**18**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	பதிற்றுப்பத்து, பரிபாடல்	**18**
	Total	**18**

	Unit: IV	
	Topicsto becovered	**No.ofHours**
4.1	சிறுபாணாற்றுப்படை	18
	Total	**18**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	குறிஞ்சிப்பாட்டு	18
	Total	**18**

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Hajee Karutha Rowther Howdia College
(Autonomous)
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ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
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உத்தமபாளையம் - 625 533.

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**

Course Code:23PTACC42	**Staff Name : K.JIYAVUDEEN, G.GOWRISANKARI**

Course Name: தொல் - சொல்லதிகாரம்

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	சொல் மரபு அறிதல் - கிளவியாக்கம்	18
	Total	**18**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	வேற்றுமை உருபுகளும் மயக்கமும்	18
2.2	வேற்றுமையியல், வேற்றுமைமயங்கியல்	
	Total	**18**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	சொல் பாகுபாடு – விளிமரபு, பெயரியல்	**18**
	Total	**18**

	Unit: IV	
	Topicsto becovered	**No.ofHours**
4.1	பெயர்கள் விளி ஏற்றல், அசைகள் - வினையியல், இடையியல்	18
	Total	**18**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	சொல்லும் பொருளும் - உரியியல், எச்சவியல்	18
	Total	**18**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**
Course Code:23PTAGE41	**Staff Name : M.SEETHA RAMAN, R.KARTHIK**

Course Name: இலக்கியத் திறனாய்வுக் கொள்கைகள்

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	அடிப்படைக் கூறுகள்	12
	Total	**12**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	இலக்கியக் கொள்கையும் தமிழும்	12
	Total	**12**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	புதுத் திறனாய்வு	**12**
	Total	**12**

	Unit: IV	
	Topicsto becovered	**No.ofHours**
4.1	திறனாய்வு வகைகள்	12
	Total	**12**

	Unit: V

	Topicsto becovered	No.ofHours
5.1	நவீனத் திறனாய்வின் வகைகள்	12
	Total	**12**

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உத்தமபாளையம் - 625 533.

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**

Course Code:23PTASE41	**Staff Name : P.MUTHEESWARI, A.SHAFANA PARVEEN**

Course Name: பணித் தேர்வுத் தமிழ் - 1 (NET/SLET)

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	தமிழ் இலக்கணம்	12
	Total	**12**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	தமிழ் இலக்கியங்கள்	12
	Total	**12**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	பக்தி, சிற்றிலக்கியங்கள்	**12**
	Total	**12**

	Unit: IV	
	Topicsto becovered	**No.ofHours**
4.1	தமிழ் அறிஞர்களும் தமிழ்த் தொண்டும் - 1	12
	Total	**12**

	Unit: V

	Topicsto becovered	No.ofHours
5.1	தமிழ் அறிஞர்களும் தமிழ்த் தொண்டும் - 2	12
	Total	**12**

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உத்தமபாளையம் - 625 533.

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**
Course Code:23PTACC21	**Staff Name: M.SEETHA RAMAN, G.GOWRISANKARI**

Course Name: பக்தி இலக்கியம்

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	காரைக்கால் அம்மையார்	18
1.2	திருநாவுக்கரசர், திருஞானசம்பந்தர்	
	Total	18

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	சுந்தரர்	18
2.2	மாணிக்கவாசகர் - திருவம்மானை	
2.3	மாணிக்கவாசகர்- திருக்கோத்தும்பி	
	Total	**18**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	பெரியாழ்வார்	

3.2	நம்மாழ்வார், குலசேகர ஆழ்வார்	18
3.3	ஆண்டாள்	
	Total	18

	Unit: IV	
	Topicsto becovered	No.ofHours
4.1	அருணகிரி நாதர், தாயுமானவர்	18
4.2	இராமலிங்க அடிகள்	
	Total	18

	Unit: V	
	Topicsto becovered	No.ofHours
5.1	குணங்குடி மஸ்தான் சாகிபு	18
5.2	வேதநாயக சாஸ்திரியார்	
	Total	18

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Signature of the HOD

தலைவர்,
ஹாஜி கருத்த ரௌத்தர் ஹவ்தியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**

Course Code: 23PTACC22	**Staff Name: A.SUBAITHA HASINA, Dr.P.SHANTHI**

Course Name:	காப்பிய இலக்கியம்

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	சிலப்பதிகாரம்	18
	Total	**18**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	மணிமேகலை	18
2.2	சீவகசிந்தாமணி	
	Total	**18**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	கம்பராமாயணம், பெரியபுராணம்	**18**
	Total	**18**

	Unit: IV	
	Topicsto becovered	**No.ofHours**
4.1	இரட்சணிய யாத்திரிகம்	18
	Total	**18**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	சீறாப்புராணம்	18
	Total	**18**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**

Course Code:23PTACC23	**Staff Name : K.JIYAVUDEEN, P.MUTHEESWARI**

Course Name: தொல்காப்பியம் - பொருளதிகாரம் - II

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	மெய்ப்பாட்டியல்	18
	Total	**18**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	உவமையியல்	18
	Total	**18**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	செய்யுளியல்	**18**
	Total	**18**

	Unit: IV	
	Topicsto becovered	**No.ofHours**
4.1	செய்யுளியல்	18
	Total	**18**

	Unit: V

	Topicsto becovered	No.ofHours
5.1	மரபியல்	18
	Total	**18**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**
Course Code:23PTADE21	**Staff Name: G.GOWRISANKARI, P.JEYA SRI**
Course Name: உலக இலக்கியம்	

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	உலகக் காப்பியங்கள்	12
	Total	**12**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	உலக நாடகங்கள்	12
	Total	**12**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	உலகக் கவிதையியல்	**12**
	Total	**12**

	Unit: IV	
	Topicsto becovered	**No.ofHours**
4.1	உலகச் சிறுகதை அமைப்புகள்	12
	Total	**12**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	உலக நாவல் இலக்கியம்	12
	Total	**12**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**

Course Code:23PTAGE21	**Staff Name: Dr.K.PALANIVELU**

Course Name: தொல்லியல்

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	தொல் பொருளியல்	12
1.2	பொருள் - விளக்கம்	
1.3	வகைகள்	
1.4	கடமைகள்	
	Total	**12**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	தொல் பொருளின் வரலாறு	12
2.2	மண்ணியல்	
	Total	**12**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	தொல்லியல் வளர்ச்சி	**12**
3.2	அகழாய்வுக் கொள்கைகள்	

3.3	அகழாய்வு பணியாளர்கள்	
	Total	**12**

	Unit: IV	
	Topicsto becovered	**No.ofHours**
4.1	மட்பாண்டங்கள்	12
4.2	பழம்பொருட்கள் பாதுகாத்தல்	
	Total	**12**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	கல்வெட்டியல்	12
5.2	உருவ அமைதி	
5.3	இந்தியச் சிற்பக்கலை	
	Total	**12**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**
Course Code:23PTASE21	**Staff Name : S.JASMINE SHIFANA, P.LATHA**

Course Name: தகவல் தொடர்பியல் (NME)

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	தகவல் தொடர்பியல் - விளக்கம்	12
	Total	**12**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	ஊடகக் கோட்பாடுகள்	12
	Total	**12**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	கருத்துப் பரவும் விதம்	12
	Total	**12**

	Unit: IV	
	Topicsto becovered	**No.ofHours**
4.1	வானொலி வரலாறு	12
	Total	**12**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	தொலைக்காட்சி வரலாறு, அமைப்பு	12
	Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**

Course Code: 23UTACC21	**Staff Name: P.MUTHEESWARI, A.SHAFANA PARVEEN**

Course Name: அற இலக்கியம்

Unit: I	
Topics to be covered	**No. of Hours**
திருக்குறள்	**18**
நாலடியார்	
பழமொழி	
முதுமொழிக்காஞ்சி	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
இன்னா நாற்பது	**18**
இனியவை நாற்பது	
ஆசாரக் கோவை	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
திரிகடுகம்	**18**

சிறுபஞ்ச மூலம்	
ஏலாதி	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மூதுரை	**18**
நல்வழி, வெற்றி வேற்கை	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
உலக நீதி	**18**
நீதிநெறி விளக்கம்	
அறநெறிச் சாரம்	
Total	**18**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**

Course Code: 23UTACC22	**Staff Name: R.KARTHIK, M.SEETHA RAMAN**

Course Name: தமிழ் இலக்கிய வரலாறு

Unit: I	
Topics to be covered	**No. of Hours**
செவ்வியல் இலக்கியங்கள்	**15**
சங்க காலம்	
சங்கம் மருவிய காலம்	
காப்பிய காலம்	
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
பக்தி இலக்கியம்	**15**
காப்பியம்	
புராணங்கள்	
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியங்கள்	**15**

சைவ தத்துவ நூல்கள்	
உரையாசிரியர்கள்	
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
பிற்கால அருள் நூல்கள்	**15**
இலக்கியங்கள்	
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
சிறுகதை	**15**
நாடகம்	
இலக்கிய ஆய்வு முறைகள்	
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**

Course Code: 23UTAGE21	**Staff Name: S.JASMINE SHIFANA, M.ESWARI**

Course Name: தமிழரின் மேலாண்மைச் சிந்தனைகள்

Unit: I	
Topics to be covered	**No. of Hours**
தமிழரின் உலக நாகரிகத்தின் முன்னோடி	12
பழந்தமிழர் பல்துறை அறிவு	
இலக்கியங்களில் மேலாண்மையும் குடும்ப உறவும்	
தொலைநோக்குச் சிந்தனைகள்	
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
வேளாண் மேலாண்மையும் நெசவுத் தொழில்நுட்பமும்	12
பழந்தமிழர் கட்டடக்கலையும் மேலாண்மையும் உயிரியல் அறிவும் சூழலியலும்	
புழங்கு பொருள்களும் உற்பத்தித் தொழில் நுட்பமும்	
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
பழந்தமிழர் மருத்துவ மேலாண்மை	12

மருத்துவ நுட்பங்களும் உடல்நல மேலாண்மையும்	
நீர் மேலாண்மை, வானியல் அறிவு, கப்பல் மேலாண்மை	
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
பழந்தமிழர் வாழ்வியல், ஆட்சித் திறன், போரியல், வணிகம்	**12**
அணுகுமுறைகள்	
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
தற்கால தமிழ்ச் சமுதாயமும் மேலாண்மையும்	**12**
தலைமைப்பண்பு, நெருக்கடி நிருவாகம், சூழலியல் பாதிப்பு	
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A /B.Sc/ B.Com**

Course Code: 23UTASE21	**Staff Name: P.LATHA**

Course Name: அடிப்படைத் தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
ஆத்திசூடி	6
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
வெற்றி வேற்கை	6
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
திருக்குறள்	6
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
தமிழ் அறிஞர்கள் - அறிமுகம்	6
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
விளையாட்டுகள், விழாக்கள்	**6**
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A /B.Sc/ B.Com**
Course Code: 23UTASE22	**Staff Name: M.BILAL, G.GOWRISANKARI**

Course Name: சிறப்புத் தமிழ் - 2 (தமிழ் மொழி அணைப்பியல்)

Unit: I	
Topics to be covered	**No. of Hours**
உரைநடை இலக்கியம்	6
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
பண்டைத் தமிழ் இலக்கியங்கள், சிலப்பதிகாரம், திருவாசகம்	6
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
திருவாய்மொழி, இரட்சணிய யாத்திரிகம், சீறாப்புராணம், பாரதியார்	6
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
பாடம் தழுவிய இலக்கிய வரலாறு	6
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பெயர்ப்பு ஆங்கிலப் பகுதியை தமிழாக்கம் செய்தல்	6
Total	6

G. Gowri

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தலைவர்
ஹாஜி கருத்தா ராவுத்தர் ஹவ்தியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

Signature of the Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**

Course Code: 23UTASE23	**Staff Name: A.SUBAITHA HASINA**

Course Name: பேச்சுக்கலைத் திறன்

Unit: I	
Topics to be covered	**No. of Hours**
சொற்பொழிவு ஓர் அரிய கலை	6
விளக்கம்	
பேச்சாளர் தகுதிகள்	
முன்னோடிகள்	
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
சொற்பொழிவு வகைகள்	6
சமயம், இலக்கியம், அரசியல்	
பொழுதுபோக்கு, நகைச்சுவை, ஊடகப் பொழிவுகள்	
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**

சொற்பொழிவுத் திறன்கள், அவையறிதல், பொருளறிதல்	6
சொல்தெரிவு, மொழி ஆளுமை	
இலக்கியப்புலமை, வெளிப்பாட்டுத் திறம், தொனி	
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
புகழ்பெற்ற சொற்பொழிவாளர்கள், வ.உ.சி., திரு.வி.க	6
கலைஞர் போன்றோர்	
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
பொழிவுத் தயாரிப்பும் உத்திகளும்	6
Total	**6**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Signature of the HOD
தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

Signature of the Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**
Course Code: 23UTACC41	**Staff Name: R.JANSI RANI, M.ESWARI**

Course Name: பக்தி இலக்கியம்

Unit: I	
Topics to be covered	**No. of Hours**
திருஞானசம்பந்தர் - பக்திநெறி	15
திருநாவுக்கரசர் - பக்திநெறி	
மாணிக்கவாசகர் - பக்திநெறி	
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
ஆண்டாள் - நாச்சியார் திருமொழி	15
குலசேகர ஆழ்வார்	
திருமங்கை ஆழ்வார்	
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
எச்.ஏ. கிருட்டிணப்பிள்ளை	15
குணங்குடி மஸ்தான் சாகிபு	
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**

பிள்ளைப் பெருமாள் ஐயங்கார்	
கம்பர் - சடகோபர் அந்தாதி	
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
வேதநாயகம் பிள்ளை, சீதக்காதி நொண்டி நாடகம்	**15**
Total	**15**

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Dean of Humanities
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HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**
Course Code: 23UTACC42	**Staff Name: K.JIYAVUDEEN, P.MUTHEESWARI**

Course Name: நன்னூல் - எழுத்து

Unit: I	
Topics to be covered	**No. of Hours**
பெயரியல்	**15**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
வினையியல்	**15**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
பொதுவியல்	**15**
Total	**15**

Unit: IV

Topics to be covered	No. of Hours
இடையியல்	15
Total	15

Unit: V	
Topics to be covered	No. of Hours
உரியியல்	15
Total	15

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**

Course Code: 23UTAGE41	**Staff Name: G.GOWRISANKARI**

Course Name: கணினித்தமிழ்

Unit: I	
Topics to be covered	**No. of Hours**
கணினி அடிப்படைகள்	**9**
மென்பொருள் வளர்ச்சி	
Total	**9**

Unit: II	
Topics to be covered	**No. of Hours**
தமிழாய்வில் கணினி பயன்பாடு	**9**
கணினி வழி மொழிபெயர்ப்பு	
Total	**9**

Unit: III	
Topics to be covered	**No. of Hours**
இயற்கை மொழி ஆய்வு	**9**
இயந்திர மொழி இலக்கண வரையறை	
உருபனியல் பகுப்பாய்வு	

Total	**9**

Unit: IV	
Topics to be covered	**No. of Hours**
தமிழ் மென்பொருள் வளர்ச்சி	**9**
சொல்லாளர்கள்	
ஒளியியல் வழி எழுத்துக்களை அடையாளம் காணல்	
பேச்சுருவாக்கம்	
Total	**9**

Unit: V	
Topics to be covered	**No. of Hours**
இணையமும் தமிழும்	**9**
Total	**9**

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தமிழ்த்துறை,
உத்தமபாளையம் - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**
Course Code: 23UTASE41	**Staff Name: P.LATHA, P.JEYASRI**

Course Name: இதழியல்

Unit: I	
Topics to be covered	**No. of Hours**
செய்தித்தாள்களின் தோற்றம்	6
இதழ்களின் பங்கு	
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
பத்திரிக்கை சுதந்திரம்	6
செய்தி நிறுவனங்கள்	
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
இதழியல்	6
மக்கள் தொடர்புச் சாதனங்கள்	
பத்திரிக்கை பொறுப்புகளும், கடமைகளும்	

Total	6

Unit: IV	
Topics to be covered	No. of Hours
கருத்துப் படங்கள்	6
கேலிச் சித்திரங்கள்	
கையெழுத்துப் பத்திரிக்கைகள்	
விளம்பரம் - நிறை குறைகள்	
Total	6

Unit: V	
Topics to be covered	No. of Hours
புலனாய்வு இதழ்கள்	6
Total	6

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ஹாஜி கருத்தராவுத்தர் ஹமீதுஜியா கல்லூரி,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**

Course Code: 23UTASE42	**Staff Name: A.SUBAITHA HASINA**

Course Name: பயன் முறைத் தமிழ்

Unit: I	
Topics to be covered	**No. of Hours**
இக்காலத் தமிழின் இயல்புகள்	6
சந்தி வகைப்பாடுகள்	
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
நிறுத்தற்குறிகள் பயன்பாடு	6
நிறுத்தற்குறிகளும்	
குறிகள் - பயன்பாடு	
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
நடைமுறைசார் மொழித் திறன்கள்	6
தகவல் திறன்கள்	
கடிதம் ஆவணம் எழுதும் முறைகள்	
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
உரையாடல் திறன் தடைகள்	6
சொற்பொழித் திறன்	
வாய்மொழித் தேர்வுத் திறன்களை வளர்க்கும் நெறிகள்	
உரையாடல் உத்திகள்	
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
கட்டுரை வரையறை	6
Total	**6**

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Dean of Humanities
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தலைவர்,
துறைத்தலைவர்,
ஹாஜி கருத் ராவுத்தர் ஹவ்தியா கல்லூரி,
உத்தமபாளையம் - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	Programme: B.A (TAMIL)

Course Code: 23UGEVS41	Staff Name: Dr.P.SHANTHI

Course Name: சுற்றுச்சூழல் கல்வி (EVS)

Unit: I	
Topics to be covered	**No. of Hours**
புவியும் மற்றும் அதன் சுற்றுச் சூழலும்	3
Total	3

Unit: II	
Topics to be covered	**No. of Hours**
சூழ்நிலையியல் மற்றும் சூழ்நிலை மண்டலம்	3
Total	3

Unit: III	
Topics to be covered	**No. of Hours**
இந்தியாவின் உயிரினப் பன்மயம்	3
Total	3

Unit: IV	
Topics to be covered	**No. of Hours**
உலக சுற்றுச்சூழல் பிரச்சனைகள்	3
Total	3

Unit: V	
Topics to be covered	**No. of Hours**
பேரிடர் அல்லது பேரழிவு மேலாண்மை	3
Total	3

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HOD

ஹாஜி கருத்தாவுத்தர் ஹவுத்தியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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Staff

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.COM(COMMERCE)**

Course Code: 23UTALL41	**Staff Name: Dr. K.PALANIVELU, Dr. R.MOHAMED REFEEK**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	**18**
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	**18**
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

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Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
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தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (ECONOMICS)**
Course Code: 23UTALL41	**Staff Name: Dr. M.ABDUL KATHER, R.GOWRI**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	**18**
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	**18**
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	?
இணையத் தமிழ்க் கல்விக்கழகம்	?
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	?
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

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Dean of Humanities
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தலைவர்,
தமிழ்த்துறை.
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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Staff

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc(COMPUTER SCIENCE)**
Course Code: 23UTALL41	**Staff Name: Dr. R.MOHAMED REFEEK, S.JASMINE SHIFANA**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	**18**
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	**18**
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

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தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.COM(BANKING)**

Course Code: 23UTALL41	**Staff Name: P.JEYASRI, R.JANSI RANI**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	**18**
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	**18**
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

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தலைவர்,
தமிழ்த்துறை.
ஹாஜி கருத்தாவுத்தர் ஹவுதியா கல்லூரி,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.B.A**

Course Code: 23UTALL41	**Staff Name: R.JANSI RANI, A.SHAFANA PARVEEN**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	**18**
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	**18**
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	No. of Hours
காப்பியங்களில் அறிவியல்	18
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	18

Unit: IV	
Topics to be covered	No. of Hours
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	18
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	18

Unit: V	
Topics to be covered	No. of Hours
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	18
Total	18

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தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A(TAMIL)**
Course Code: 23UTALL41	**Staff Name: M.ESWARI, P.LATHA**
Course Name: பொதுத்தமிழ் - 4	

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	18
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	18
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

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தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc(BIO CHEMISTRY)**
Course Code: 23UTALL41	**Staff Name: P.LATHA, A.SHAFANA PARVEEN**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	18
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	18
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

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தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	Programme: B.Sc(INFORMATION TECHNOLOGY)
Course Code: 23UTALL41	Staff Name: A.SUBAITHA HASINA, P.JEYASRI
Course Name: பொதுத்தமிழ் - 4	

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	18
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	18
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

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தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc(MICRO BIOLOGY)**
Course Code: 23UTALL41	**Staff Name: A.SHAFANA PARVEEN, S.JASMINE SHIFANA**
Course Name: பொதுத்தமிழ் - 4	

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	18
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	18
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

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Dean of Humanities
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Uthamapalayam,Theni-Dt-625533

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தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தாலுத்தர் ஹவுதியா கல்லூரி,
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உத்தமபாளையம் – 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.COM(CA)**

Course Code: 23UTALL41	**Staff Name: K.JIYAVUDEEN, M.ESWARI**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	18
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	18
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

Forwarded by
Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by
HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

Prepared by
Staff

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc(ZOOLOGY)**
Course Code: 23UTALL41	**Staff Name: S.JASMINE SHIFANA, Dr.P.SHANTHI**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	18
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	18
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

Forwarded by
Dean

Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Jajee Karutha Rowther Howdia College
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Uthamapalayam,Theni-Dt-625533

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HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (HISTORY)**

Course Code: 23UTALL41	**Staff Name: M.BILAL, Dr.K.PALANIVELU**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	**18**
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	**18**
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

Forwarded by
Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
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Uthamapalayam,Theni-Dt-625533

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HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (ENGLISH)**
Course Code: 23UTALL41	**Staff Name: R.GOWRI, M.SEETHA RAMAN**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	18
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	18
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

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Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
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Uthamapalayam,Theni-Dt-625533

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HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc(CHEMISTRY)**

Course Code: 23UTALL41	**Staff Name: R.GOWRI, M.BILAL**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	**18**
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	**18**
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

Forwarded by
Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
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Uthamapalayam,Theni-Dt-625533

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HOD

தலைவர்,
தமிழ்த்துறை.
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc(PHYSICS)**

Course Code: 23UTALL41	**Staff Name: P.MUTHEESWARI, Dr.P.MURUGAN**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	**18**
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	**18**
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

Forwarded by
Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by
HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

Prepared by
Staff

Hajee Karutha Rowther Howdia College (Autonomous)

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc(MATHS)**
Course Code: 23UTALL41	**Staff Name: Dr.P.MURUGAN, Dr.R.MOHAMED RAFEEK**

Course Name: பொதுத்தமிழ் - 4

Unit: I	
Topics to be covered	**No. of Hours**
அறிவியலும் மனித வாழ்வும்	18
ஐந்திணைப் பகுப்பும் சூழலியலும்	
தொழில்நுட்ப மேலாண்மை	
நீர் நில மேலாண்மை	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
நிலவியல்	18
உலோகவியல்	
வானவியல்	
உயிரியல்	
உளவியல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
காப்பியங்களில் அறிவியல்	**18**
சிற்றிலக்கியங்களில் அறிவியல்	
உரைநூல்களில் அறிவியல்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
இணையத் தமிழ் பயன்பாடு – அறிமுகம்	
இணையத் தமிழ்க் கல்விக்கழகம்	
இணைய நூலகம்	**18**
செயற்கை நுண்ணறிவியல், தமிழ்நாட்டு அறிவியல் ஆளுமைகள்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
கடிதம் எழுதுதலும் கட்டுரை எழுதுதலும்	**18**
Total	**18**

Forwarded by
Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by
HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

Prepared by
Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A. TAMIL**

Course Code: 20UTAC61	**Staff Name: Dr.K.PALANIVELU, A.SUBAITHA HASINA**

Course Name: சங்க இலக்கியம்

Unit: I	
Topics to be covered	**No. of Hours**
பத்துப்பாட்டு அறிமுகம்	**18**
முல்லைப்பாட்டு நூல் அறிமுகம்	
அகம்-ஓர் விளக்கம்	
சங்ககால வழக்கங்கள்	
கருத்துக்களை விளக்குதல்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
எட்டுத்தொகை அறிமுகம்	**18**
தினை-விளக்கம்	
அகமாந்தர்கள்	
அறத்தோடு நிற்றல்	
ஐங்குறுநூறு அறிதல்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
அகநானூறு நூல் அறிமுகம்	**18**
அக ஒழுக்கம்	
பகற்குறி, இரவுக்குறி	
களிற்றுயானை நிரை	
மணிமிடைப்பவளம்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
நூல் அறிமுகம் (புறநானூறு)	**18**
புறநானூற்று சிறப்பு செய்தல்	
வீரக்கருத்துக்களை விளக்குதல்	
வரலாற்றுக்குறிப்புகள்	
வாழ்வியல் பற்றி விளக்கம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
அகம் - புறம் வேறுபாடு	**18**
கடவுள் வழிபாடு	
திருமால் சிறப்புகள்	
சேரமன்னர்களின் சிறப்புகள்	
Total	**18**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Signature of the HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

Signature of the Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A. TAMIL**

Course Code: 20UTAC62	**Staff Name: G.GOWRISANKARI, M.SEETHARAMAN**

Course Name: மொழியியல்

Unit: I	
Topics to be covered	**No. of Hours**
மொழியின் தன்மை	15
மொழியியல் பிரிவு	
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
ஒலி வகைகள்	15
உயிரொலி	
மெய்யொலி	
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
ஒலியன்கள் அறிதல்	15
ஒலியன் கணக்கு	
மாற்றொலி அறிதல்	

எழுத்துக்களின் துணைநிலை வழக்கு கண்டறிதல்	
வேற்றுநிலை வழக்கு அறிதல்	
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
உருபியல் அறிதல்	**15**
உருபெண் கண்டறிதல்	
எழுத்துக்களின் உருபு தெளிவுபடுத்துதல்	
மாற்றுருபு அறிதல்	
உருபனைக் கண்டறியும் விதிகள் தெரிதல்	
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
உருபன்களின் வகையும் பயன்பாடும்	**15**
தொடரன்களின் வகை அறிதல்	
அண்மை உறுப்புக் கோட்பாடு	
மூவகைத் தொடரனியல்	
உருபனியல்	
Total	**15**

Signature of the Dean

Dr.G.RAMANAN,Ph.D.,
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Signature of the HOD

தலைவர்,
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(தன்னாட்சி)
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Signature of the Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A. TAMIL**
Course Code: 20UTAC63	**Staff Name: R.KARTHIK, K.JIYAVUDEEN**

Course Name: நாட்டுப்புறவியல்

Unit: I	
Topics to be covered	**No. of Hours**
நாட்டுப்புறவியல் அறிமுகம்	**15**
நாட்டுப்புறவியல் விளக்கம்	
நாட்டுப்புறவியலின் தோற்றம் வளர்ச்சி அறிதல்	
நாட்டுப்புறவியல் பாடல்கள்	
நாட்டுப்புறக் கதைகள்	
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
நாட்டுப்புறப் பாடல்களை விளக்குதல்	**15**
விடுகதையை விளக்குதல்	
விடுகதையின் தோற்றத்தை அறிதல்	
காலத்திற்கு ஏற்ப மாறுபடும் விடுகதைகள்	
நாட்டுப்புற பழமொழிகளை விளக்குதல்	
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
நாட்டுப்புறக் கலைகளை அறிதல்	15
நாட்டுப்புறக் கலைகளின் வகைகளை விளக்குதல்	
கைவினைப் பொருட்களை அறிதல்	
மண்பாண்டக் கலையை விளக்குதல்	
பாய் பின்னுதல்	
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
நாட்டுப்புற நம்பிக்கைகளை அறிதல்	15
பண்டைத் தமிழரின் நம்பிக்கைகளும், சகுனங்களும்	
நம்பிக்கைகளின் வகைகள்	
நாட்டுப்புறத் தெங்வங்களும், திருவிழாக்களும்	
நாட்டுப்புற விளையாட்டுகள்	
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
நாட்டுப்பு மருத்துவத்தை அறிதல்	15
மருத்துவத்தின் தன்மை விளக்குதல்	
நாட்டுப்புற மருத்துவத்தை விளக்குதல்	
வட்டார நாட்டுப்புற மருத்துவம்	
பழங்குடிகளின் நாட்டுப்புற மருத்துவம்	
Total	**15**

Signature of the Dean
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A. TAMIL**

Course Code: 20UTAC64	**Staff Name : M.ESWARI, S.JASMINE SHIFANA**

Course Name: மக்கள் ஊடகத் தொடர்பியல்

Unit: I	
Topics to be covered	**No. of Hours**
ஊடகத் தொடர்பியல் கோட்பாடுகள்- மாயத் தோற்றக் கோட்பாடு – தேர்ந்தெடுத்த செல்வாக்குக் கோட்பாடு	12
தனிமனித – தனிமனித வேறுபாட்டு – கற்றல் கோட்பாடுகள்	
சமூக உறவுகள் - சமூக வேறுபாட்டு – சமூக வயப்படுத்துதல் கோட்பாடுகள்	
சமூக எதிர்பார்ப்பு – சமூக நிறுவன அமைப்புக் கோட்பாடுகள்	
பழக்கப்படுத்துதல் - விவாத நிலை – மொழி உருவாக்கக் கோட்பாடுகள்	
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
வானொலி – வரலாறு , வளர்ச்சி , வகைகள்	12
தொலைக்காட்சி – வரலாறு வளர்ச்சி, விளம்பரதாரர் நிகழ்ச்சிகள்	
செயற்கைக் கோள் தொலைக்காட்சி ஒளிபரப்பு, சிறுவர் நிகழ்ச்சி, நேர்காணல், விவாத நிகழ்ச்சி	
விளையாட்டு,திறன் மேம்பாட்டு நிகழ்ச்சிகள், நாடகங்கள், திரைப்படங்கள்,திரையிசை பாடல்கள்,சந்தை நிலவரங்கள்	
திரைப்படம் -வரலாறு இ வளர்ச்சிஇதணிக்கை,படப்பிடிப்பு	
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
ஊடக மேலாண்மை- நிருவாக அமைப்பு	12
பிரமிடு முறை செயல்பாட்டு முறை	
பணியாளர் நிர்வாக அமைப்பு, தொழிலாளர்	
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
புகைப்படக்கலைகள்	12
விளம்பரக்கலைகள்	
ஆவணப்படுத்துதல்	
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
மின்னிதழ்	12
இணையத்தளம்	
சமூக வலைத்தளம், பயன்பாடும் வளர்ச்சியும்	
Total	**12**

Signature of the Dean
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தலைவர்,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A. TAMIL**

Course Code: 20UTAE61	**Staff Name: P.MUTHEESWARI, Dr.P.SHANTHI**

Course Name: திறன் மேம்பாடும் படைப்பாற்றல் வெளிப்பாடும்

Unit: I	
Topics to be covered	**No. of Hours**
ஏழாவது அறிவு	12
அதீத உள்ளுணர்வு சக்தியாக மாறும்	
ஆறாம் அறிவால் பகுத்து அறியப்படுதல்	
காட்சிபடுத்துகின்ற ஆற்றல்	
சக்தி பெற்ற மனிதர்களின் அசாதாரணமான அனுபவங்கள்	
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
எல்லாவற்றிலும் உள்ள நல்லதையே பகிருங்கள்	12
உண்மையான கல்வி அறிவை பெறுதல்	
அவசியம் செய்ய வேண்டிய காரியங்களை விரும்ப கற்றுக் கொள்ளுங்கள்	
நீண்ட காலத்திட்டங்கள் பற்றியே எப்போதும் சிந்தியுங்கள்	
Total	**12**

Unit: III

Topics to be covered	No. of Hours
நுண்கலைகள்	12
கலைகளின் பண்புகள்	
இலக்கிய வடிவங்கள் குறித்த அறிமுகம்	
சாதனையாளர்கள் மற்றும் சமூகப்பயன்பாட்டை விளக்குதல்	
Total	12

Unit: IV	
Topics to be covered	No. of Hours
வாசிப்புத்திறன் வளர்த்தல்	12
வாசிப்பும் - கலந்துரையாடலும்	
குழு முயற்சியும்	
குழு அறிக்கை தயாரித்து வழங்குதல்	
Total	12

Unit: V	
Topics to be covered	No. of Hours
காட்சிகள்,	12
நிகழ்ச்சிகள்	
கவிதை, சிறுகதை, கட்டுரை எழுத பயிற்சி வழங்குதல்	
படைப்புகளை வாசித்து விமர்சனம் செய்தல்.	
Total	12

Signature of the Dean

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Hajee Karutha Rowther Howdia College (Autonomous)

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A. TAMIL**

Course Code:20UTAS61	**Staff Name: R. JANSI RANI**

Course Name: தமிழ் மொழியும் இலக்கியமும் - II

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம்	6
உரையாசிரியர்கள்	
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
கவிதை இலக்கியம்	6
மரபு, புது	
திரையிசைப்பாடல்கள்	
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
புனைகதை இலக்கியம்	6
சிறுகதை	

புதினம்	
Total	**6**

Unit: IV	
நாடகம்	**No. of Hours**
நாட்டுப்புறப் பாடல்கள்	**6**
கதைகள்	
பழமொழி	
விடுகதை	
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
இலக்கியங்களைத் திறனாய்வு செய்தல்	**6**
Total	**6**

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தலைவர்,
ஹாஜி கருத்த... ...தியா கல்லூரி,
உத்தமபாளையம் - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.COM (CA)**
Course Code: 23UTALL21	**Staff Name: R.JANSI RANI, R.KARTHIK**
Course Name: பொதுத்தமிழ் - 2	

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	**18**
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	**18**
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

Forwarded by
Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
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Verified by
HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்த ராவுத்தர் ஹவுதியா கல்லூரி,
தேனாட்சி]
உத்தமபாளையம் - 625 533.

Prepared by
Staff

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.B.A**

Course Code: 23UTALL21	**Staff Name: R.KARTHIK, B.JEYASRI**

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	**18**
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	**18**
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

Forwarded by
Dean
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Dean of Humanities
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HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத் ராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (ZOOLOGY)**
Course Code: 23UTALL21	**Staff Name: G.GOWRISANKARI, Dr. R.MOHAMED RAFEEK**

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	**18**
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	**18**
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

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தலைவர்,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (COMPUTER SCIENCE)**
Course Code: 23UTALL21	**Staff Name: R.GOWRI, M.BILAL**
Course Name: பொதுத்தமிழ் - 2	

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	18
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	18
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஒளவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (BIO CHEMISTRY)**

Course Code: 23UTALL21	**Staff Name: M.ESWARI, Dr. P.SHANTHI**

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	**18**
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	**18**
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

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தலைவர்,
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ஹாஜி கருத்தாவுத்தர் ஹவுதியா கல்லூரி,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.COM (BANKING)**
Course Code: 23UTALL21	**Staff Name: A.SHAFANA PARVEEN, P.LATHA**

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	18
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	18
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

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தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்த ராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

Prepared by
Staff

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	Programme: B.COM (COMMERCE)

Course Code: 23UTALL21	Staff Name: R.GOWRI, M.BILAL

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	18
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	18
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

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தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (MICRO BIOLOGY)**

Course Code: 23UTALL21	**Staff Name: P.LATHA, A.SHAFANA PARVEEN**

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	18
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	18
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

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Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (CHEMISTRY)**

Course Code: 23UTALL21	**Staff Name: P.MUTHEESWARI, Dr.M.ABDUL KATHER**

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	**18**
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	**18**
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

Forwarded by
Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by
HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

Prepared by
Staff

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**
Course Code: 23UTALL21	**Staff Name: K.JIYAVUDEEN, R.JANSI RANI**

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	18
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	18
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

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Verified by
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தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தா ராவுத்தர் ஹவுதியா கல்லூரி,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (INFORMATION TECHNOLOGY)**

Course Code: 23UTALL21	**Staff Name: P.JEYASRI, M.ESWARI**

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	18
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	18
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

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தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (ECONOMICS)**

Course Code: 23UTALL21	**Staff Name: Dr.M.ABDUL KATHER ,Dr.R.MOHAMED RAFEEK**

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	**18**
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	**18**
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஒளவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

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Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
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Uthamapalayam,Theni-Dt-625533

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தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

Prepared by
Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (HISTORY)**

Course Code: 23UTALL21	**Staff Name: Dr.R.MOHAMED RAFEEK, Dr.M.ABDUL KATHER**

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	**18**
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	**18**
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஒளவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

Forwarded by
Dean

Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by
HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

Prepared by
Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (ENGLISH)**

Course Code: 23UTALL21	**Staff Name:Dr. P. MURUGAN, Dr.M.ABDUL KATHER**

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	**18**
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	**18**
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

Forwarded by
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Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
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Uthamapalayam,Theni-Dt-625533

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HOD

தலைவர்,
தமிழ்த்துறை.
ஹாஜி கருத்தா ரவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

Prepared by
Staff

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	Programme: B.Sc (PHYSICS)
Course Code: 23UTALL21	Staff Name: S.JASMINE SHIFANA, Dr.P.MURUGAN
Course Name: பொதுத்தமிழ் - 2	

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	18
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	18
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

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Verified by
HOD

தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (MATHS)**

Course Code: 23UTALL21	**Staff Name: M.BILAL, Dr.P.MURUGAN**

Course Name: பொதுத்தமிழ் - 2

Unit: I	
Topics to be covered	**No. of Hours**
சிற்றிலக்கியம், தனிப்பாடல்	**18**
இக்கால இலக்கியம், சிறுகதைகள்	
உரைநடை, மாநாட்டு உரைகள்	
நாடகத் தமிழ், இதழியல், முரசொலி கடிதம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
கலிங்கத்துப்பரணி, திருக்குற்றாலக் குறவஞ்சி	**18**
முக்கூடற்பள்ளு, அபிராமி அந்தாதி	
திருவரங்கக் கலம்பகம், தமிழ்விடு தூது	
ஔவையார், ஆமணக்கும் யானைக்கும்	
இம்பர் வானெல்லை, நாராய் நாராய்	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
பாரதி, பாரதிதாசன்	**18**
நாமக்கல் கவிஞர், தமிழ் ஒளி	
ஈரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	**18**
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ARABIC	**Programme: I B.A.History,B.A.English,B.Sc,Maths, B.Sc ,Computer Science.**

Course Code: 23UARLL21	**Staff Name: M.Seyid Abdul Kadher**

Course Name: Grammar

Unit: I	
Topics to be covered	**No .of Hours**
Part of Speech	**6**
Demonstrative Pronouns	**6**
Pronouns & Singular, Dual, Plural.	**6**
Total	**18**

Unit: II	
Topics to be covered	**No .of Hours**
A Complete sentence	**6**
Subject and Predicate	**6**
Verbal sentence & Nominal sentence	**6**
Total	**18**

Unit: III	
Topics to be covered	**No .of Hours**
Prepositions	**6**
Adjective and noun qualified Noun& possessive Construction	**6**
Definite and Indefinite	**6**
Total	**18**

Unit: IV	
Topics to be covered	**No .of Hours**
Kinds of Verbs &Subject of a Verb & Object	**6**
The verb Kana and its sisters	**6**
The Particle Inna and its sisters	**6**
Total	**18**

Unit: V	
Topics to be covered	**No .of Hours**
The Particles which give nasb to the Imperfect verb	**6**
The Particles which give Jazm to the Imperfect verbs& Conditions when an Imperfect verb will be in the Raf'u Nominative Condition	**6**
Numbers	**6**
Total	**18**

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Verified by

M. Sayid

HOD

M.SEYID ABDUL KADHER
M.A., M.Phil.(Arabic), M.A.(English), M.B.A.,
ASSISTANT PROFESSOR & HEAD
DEPARTMENT OF ARABIC
HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
(AUTONOMOUS)
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Prepared by

M. Sayid

Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ARABIC	**Programme: I B.A.Arabic, B.B.A., B.Sc.Micro Biology, B.Sc .Bio Chemistry, B.A.Tamil.**

Course Code: 23UARLL21	**Staff Name: M.Rabiyathul Basariya**

Course Name: Grammar

Unit: I	
Topics to be covered	**No .of Hours**
Part of Speech	**6**
Demonstrative Pronouns	**6**
Pronouns & Singular, Dual, Plural.	**6**
Total	**18**

Unit: II	
Topics to be covered	**No .of Hours**
A Complete sentence	**6**
Subject and Predicate	**6**
Verbal sentence & Nominal sentence	**6**
Total	**18**

Unit: III	
Topics to be covered	**No .of Hours**
Prepositions	**6**
Adjective and noun qualified Noun& possessive Construction	**6**
Definite and Indefinite	**6**
Total	**18**

Unit: IV	
Topics to be covered	**No .of Hours**
Kinds of Verbs &Subject of a Verb & Object	**6**
The verb Kana and its sisters	**6**
The Particle Inna and its sisters	**6**
Total	**18**

Unit: V	
Topics to be covered	**No .of Hours**
The Particles which give nasb to the Imperfect verb	**6**
The Particles which give Jazm to the Imperfect verbs& Conditions when an Imperfect verb will be in the Raf'u Nominative Condition	**6**
Numbers	**6**
Total	**18**

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Dean of Humanities
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

M. Seyid

HOD

M.SEYID ABDUL KADHER
M.A., M.Phil.(Arabic), M.A.(English), M.B.A.,
ASSISTANT PROFESSOR & HEAD
DEPARTMENT OF ARABIC
HAJEE KARUTHA ROWTHER HOWDIA C... ..E
(AUTONOMOUS)

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ARABIC	**Programme: I B.Sc.Chemistry, B.Sc.Zoology, B.Sc.Physics, B.Com.**

Course Code: 23UARLL21	**Staff Name: P. Fahuzathuladhifa**

Course Name: Grammar

Unit: I	
Topics to be covered	**No .of Hours**
Part of Speech	**6**
Demonstrative Pronouns	**6**
Pronouns & Singular, Dual, Plural.	**6**
Total	**18**

Unit: II	
Topics to be covered	**No .of Hours**
A Complete sentence	**6**
Subject and Predicate	**6**
Verbal sentence & Nominal sentence	**6**
Total	**18**

Unit: III	
Topics to be covered	**No .of Hours**
Prepositions	**6**
Adjective and noun qualified Noun& possessive Construction	**6**
Definite and Indefinite	**6**
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Unit: IV	
Topics to be covered	**No .of Hours**
Kinds of Verbs &Subject of a Verb & Object	**6**
The verb Kana and its sisters	**6**
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Unit: V	
Topics to be covered	**No .of Hours**
The Particles which give nasb to the Imperfect verb	**6**
The Particles which give Jazm to the Imperfect verbs& Conditions when an Imperfect verb will be in the Raf'u Nominative Condition	**6**
Numbers	**6**
Total	**18**

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Verified by

HOD

M.SEYID ABDUL KADHER
M.A., M.Phil.(Arabic), M.A.(English), M.B.A.,
ASSISTANT PROFESSOR & HEAD
DEPARTMENT OF ARABIC
HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme : II B.A. Arabic,B.A Tamil, BBA, B.sc Micro biology, B.com Banking ,B.sc IT.**

Course Code: 23UARLL41	**Staff Name: A.Rahumath Nisha**

Course Name: QURAN & HADITH

Unit: I	
Topics to be covered	**No. of Hours**
سورة لقمان من القرآن الكريم Verses 1 to 3	**6**
Verses 4 to 6	**6**
Verses 7 to 10	**6**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Verses 11 to 13	**6**
Verses 14 to 16	**6**
Verses 16 to 20	**6**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Verses 21 to 25	**6**
Verses 25 to 30	**6**
Verses 31 to 34	**6**
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Hadith 1 to 3	**6**
Hadith 4 to 6	**6**
Hadith 7 to 10	**6**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Hadith 11 to 14	**6**
Hadith 15 to 16	**6**
Hadith 17 to 20	**6**
Total	**18**

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M.SEYID ABDUL KADHER
M.A., M.Phil.(Arabic), M.A.(English), M.B.A.,
ASSISTANT PROFESSOR & HEAD
DEPARTMENT OF ARABIC
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme : II B.A. English, II B.A. Economics, II B.A. History, II B.Sc. Mathematics, II B.Sc., Computer Science**

Course Code: 23UARLL41	**Staff Name: Mr. M. Seyid Abdul Kadher**

Course Name: Quran & Hadith

Unit: I	
Topics to be covered	**No. of Hours**
سورة لقمان Verses 1 to 3	**6**
Verses 4 to 6	**6**
Verses 7 to 10	**6**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Verses 11 to 13	**6**
Verses 14 to 16	**6**
Verses 16 to 20	**6**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Verses 21 to 25	**6**
Verses 25 to 30	**6**
Verses 31 to 34	**6**
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
احاديث سهلة Hadith 1 to 3	**6**
Hadith 4 to 6	**6**
Hadith 7 to 10	**6**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Hadith 11 to 14	**6**
Hadith 15 to 16	**6**
Hadith 17 to 20	**6**
Total	**18**

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M.A., M.Phil.(Arabic), M.A.(English), M.B.A.,
ASSISTANT PROFESSOR & HEAD
DEPARTMENT OF ARABIC
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme : II B.Sc. Physics, II B.Sc., Chemistry, II B.Sc., Zoology, II B.Com**

Course Code: 23UARLL41	**Staff Name: Mr. A. Ahamed Faize**

Course Name: Quran & Hadith

Unit: I	
Topics to be covered	**No. of Hours**
سورة لقمان Verses 1 to 3	**6**
Verses 4 to 6	**6**
Verses 7 to 10	**6**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Verses 11 to 13	**6**
Verses 14 to 16	**6**
Verses 16 to 20	**6**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Verses 21 to 25	**6**
Verses 25 to 30	**6**
Verses 31 to 34	**6**
Total	**18**

Unit: IV	
Topics to be covered	No. of Hours
احاديث سهلة Hadith 1 to 3	6
Hadith 4 to 6	6
Hadith 7 to 10	6
Total	18

Unit: V	
Topics to be covered	No. of Hours
Hadith 11 to 14	6
Hadith 15 to 16	6
Hadith 17 to 20	6
Total	18

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme: I B.A. Arabic**

Course Code: 23UARCC21	**Staff Name: K.Bushra**

Course Name: Grammar II

Unit: I	
Topics to be covered	**No. of Hours**
تقسيم الفعل إلى صحيح الآخر ومعتل الآخر وتمرينات عليه المبنى والمعرب وتمرينات عليهما - أنواع البناء وتمرينات عليها	5
أنواع الإعراب وتمرينات عليها - أحوال بناء الفعل الماضي وتمرينات عليها	5
أحوال بناء الأمر وتمرينات عليها - أحوال بناء المضارع وتمرينات عليها	5
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
الإعراب المحلى وتمرينات عليه - الفعل المضارع المعتل الآخر وأحوال إعرابه وتمرينات عليه	5
المنقوص وأحوال إعرابه وتمرينات علي - (٢) المقصور وأحوال إعرابه وتمرينات عليه - (١)	5
نصب المضارع بعد أن المضمرة وتمرينات عليه	5
Total	**15**

Unit: III	
Topics to be covered	No. of Hours
بعد لام التعليل	5
بعد لام الجحود	5
بعد حتى	5
Total	15

Unit: IV	
Topics to be covered	No. of Hours
بعد فاء السببية	5
بعد واو المعية	5
بعد واو المعية	5
Total	15

Unit: V	
Topics to be covered	No. of Hours
جوازم الفعل المضارع	5
الجوازم التي تجرم فعلا واحداً وتمرينات عليها. - الأدوات التي تجزم فعلين وتمرينات عليها	5
تقسيم الاسم إلى مفرد ومثنى وجمع وتمرينات علي	5
Total	15

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Verified by

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M.SEYID ABDUL KADHER
M.A., M.Phil.(Arabic), M.A.(English), M.B.A.,
ASSISTANT PROFESSOR & HEAD
DEPARTMENT OF ARABIC
HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme : I B.A. Arabic**

Course Code: 23UARCC22	**Staff Name: A.Rahumath Nisha**

Course Name: Prose -II

Unit: I	
Topics to be covered	**No. of Hours**
محادثة	5
الخطاب	5
رحلة الى دهلي , منظر الحقول	5
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
البريد , حديث الاطفال	5
دكان البقال	5
الصيدلية	5
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
الزمن	5
الساعة , الساعة (ب)	5
المسرة	5
Total	**15**

Unit: IV	
Topics to be covered	No. of Hours
المطعم	5
ساعى البريد	5
الضيف , المطر	5
Total	15

Unit: V	
Topics to be covered	No. of Hours
التلميذ الناجح	5
نزهة سارة , جسم الانسان	5
الذئب الخائب	5
Total	15

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ASSISTANT PROFESSOR & HEAD
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ARABIC	**Programme :I B.A.ARABIC**

Course Code:23UARGE21	**Staff Name: M . Rabiyathul Basariya**

Course Name: History of Prophets - II

Unit: I	
Topics to be covered	**No .of Hours**
القصة الاولي سفينة نوح – حسد الشيطان	3
حيلة الشيطان - صور الصالحين	3
من الصور الي التماثيل - من التماثيل الي الاصنام	3
غضب الله– الرسول	3
Total	**12**

Unit: II	
Topics to be covered	**No .of Hours**
بشر ام ملك - نوح الرسول - ماذا اجاب القوم	3
بين نوح و قومه - اتبعك الارذلون	3
حجة الاغنياء - دعوة نوح	3
دعاء نوح - السفينة	3
Total	**12**

Unit: III	
Topics to be covered	**No .of Hours**
الطوفان - ابن نوح - ليس من اهلك - بعد الطوفان	3
القصة الثانية العاصفة - بعد نوح - الي الغابة	3
كفران عاد - عدوان عاد	3
قصور عاد - هود الرسول	3
Total	**12**

Unit: IV	
Topics to be covered	No .of Hours
دعوة هود - جواب القوم - حكمة هود	3
ايمان هود - عناد عاد – العذاب	3
القصة الثالثة ناقة الثمود - بعد عاد- كفران عاد	3
عبادة الاصنام - صالح عليه الصلوة و السلام	3
Total	12

Unit: V	
Topics to be covered	No .of Hours
دعوة صالح – دعاية الاغنياء - قد أخطأ طننا	3
بين يعقوب و ابنائه - نصيحة صالح	3
ما اسألكم عليه من اجر - ناقة الله	3
النوبة - طفيان ثمود - العذاب	3
Total	12

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Dean of Humanities
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Verified by

HOD

M.SEYID ABDUL KADHER
M.A., M.Phil.(Arabic), M.A.(English), M.B.A.,
ASSISTANT PROFESSOR & HEAD
DEPARTMENT OF ARABIC
HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
(AUTONOMOUS)
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ARABIC	**Programme: IBCOM, BCOM (Banking) ,B.A. Economics, B.A.History,B.SC,Computer science, B.SC Chemistry**

Course Code: 23UARSE21	**Staff Name: K.Bushra**

Course Name: Foundation course in Arabic II

Unit: I	
Topics to be covered	**No .of Hours**
Lesson No.1	**3**
Lesson No.2	**3**
Total	**6**

Unit: II	
Topics to be covered	**No .of Hours**
Lesson No.3	**3**
Lesson No.4	**3**
Total	**6**

Unit: III	
Topics to be covered	**No .of Hours**
Lesson No.5	**3**
Lesson No.6	**3**
Total	**6**

Unit: IV	
Topics to be covered	No .of Hours
Lesson No.7	3
Lesson No.8	3
Total	6

Unit: V	
Topics to be covered	No .of Hours
Lesson No.8	3
Lesson No.10	3
Total	6

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Dean of Humanities
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Verified by

HOD

M.SEYID ABDUL KADHER
M.A., M.Phil.(Arabic), M.A.(English), M.E.A.,
ASSISTANT PROFESSOR & HEAD
DEPARTMENT OF ARABIC
HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
(AUTONOMOUS)
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ARABIC	**Programme: I B.A. Arabic**

Course Code: 23UARSE22	**Staff Name: K.Bushra**

Course Name: Arabic Phonetics - II

Unit: I	
Topics to be covered	**No .of Hours**
Tafkheem and Tarqeeq	**3**
Rules relating to the Letter Raa	**3**
Total	**6**

Unit: II	
Topics to be covered	**No .of Hours**
Rules of Madd	**3**
Rules of Waqf	**3**
Total	**6**

Unit: III	
Topics to be covered	**No .of Hours**
Attributes of Letters	**3**
Qata (Discontinuation) Saktah, Ha- alkinnayah	**3**
Total	**6**

Unit: IV	
Topics to be covered	**No .of Hours**
Miscellaneous Imaalah	**3**
Sujood at Tilawah	**3**
Total	**6**

Unit: V	
Topics to be covered	**No .of Hours**
Analysis	**3**
Rules of Noon al – Qutni	**3**
Total	**6**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	Programme: II B.A. Arabic

Course Code: 23UARCC41	Staff Name: K.Bushra

Course Name: Grammar IV

Unit: I	
Topics to be covered	**No. of Hours**
المبتدأ و الخبر , وتطابقهما	5
خبرالمبتدأ حين يكون جملة او شبه جملة..... خبرالنواسخ حين يكون جملة او شبه جملة	5
مواضع فتح همزة إنّ , المصدر المؤول من أن والفعل، وتمرينات عليه	5
Total	15

Unit: II	
Topics to be covered	**No. of Hours**
مواضع كسرهمزة إن وتمرينات عليه	5
تفسير الفعل في صحيح، ومعتل، وتمرينات عليه	5
ضمائر الرفع البارزة المتصلة بالأفعال، وتمرينات عليه	5
Total	15

Unit: III	
Topics to be covered	**No. of Hours**
إسناد الأفعال الصحيحة، والمعتلة إلى الضمائر البارزة	5
اسناد المالية والمهموز، والمثال إلى الضمائر، وتعريفات عليه	5
اسناد المضعف والأجوف إلى ضمائر الرفع البارزة، وتمرينات عليه	5
Total	15

Unit: IV	
Topics to be covered	No. of Hours
استاد الماضي الناقص إلى ضمائر الموقع البارزة، وتمرينات علي	5
المجرد والمزيد وتمرينات عليهما مجرد الثلاثي , المجرد الرباعي و مزيد	5
همزتا الوصل ,والقطع , تمرينها	5
Total	15

Unit: V	
Topics to be covered	No. of Hours
الفعل اللازم والفعل المتعدي	5
اقسام المتعدي	5
تعدية الفعل بالهمزة والتضعيف , اسم الفاعل ,اسم المفعول	5
Total	15

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme II B.A. Arabic**
Course Code: 23UARCC42	**Staff Name: Mr. A. Ahamed Faize**
Course Name: Classical Prose - II	

Unit: I	
Topics to be covered	**No. of Hours**
Hadith No. 01 to 10	**5**
Hadith No. 11 to 20	**5**
Hadith No. 21 to 30	**5**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Hadith No. 31 to 40	**5**
Hadith No. 41 to 50	**5**
Hadith No. 51 to 60	**5**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Hadith No. 61 to 70	**5**
Hadith No. 71 to 80	**5**
Hadith No. 81 to 90	**5**
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Hadith No. 91 to 100	**5**
Hadith No. 101 to 110	**5**
Hadith No. 111 to 120	**5**
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Hadith No. 121 to 130	**5**
Hadith No. 131 to 140	**5**
Hadith No. 141 to 150	**5**
Total	**15**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ARABIC	**Programme: II B.A.ARABIC**
Course Code: 23UARGE41	**Staff Name: M.Rabiyathul Basariya**
Course Name: History of Prophets -IV	

Unit: I	
Topics to be covered	**No .of Hours**
Baina Al Haq val Baathil - Wayeed Firawn	3
Safahath Firawn - Muh'min Aala Firawn	3
Naseehathu Ar Rajul	3
Total	9

Unit: II	
Topics to be covered	**No .of Hours**
Zawju Firawn – Mih'nath Bani	3
IsrayeelAl Maja'ath - Khamsa Aaayath	3
Al Khurooj	3
Total	9

Unit: III	
Topics to be covered	**No .of Hours**
Baraqa Firawn - Fil Barriyath	3
Kufraan Bani Israyeel - Inadu Bani Israyeel	3
Al Baqara	3
Total	9

Unit: IV	
Topics to be covered	No .of Hours
As - Shariyath	3
Al - Thourath	3
Al – Ijl , Al – Iqaab	3
Total	9

Unit: V	
Topics to be covered	No .of Hours
Jubnu Bani Israel – Fi sabilil Ilmu	3
Tha'weel	3
Bnu Israel Ba'dha musa	3
Total	9

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme II B.A. Arabic**

Course Code: 23UARSE41	**Staff Name: Mr. A. Ahamed Faize**

Course Name: Translation Skills in Arabic

Unit: I	
Topics to be covered	**No. of Hours**
Model Sentences – Lesson No. 5: 1 to 7	**3**
Model Sentences – Lesson No. 6: 1 to 16	**3**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Model Sentences – Lesson No. 6: 17 to 24	**3**
Model Sentences – Lesson No. 9: 1 to 14	**3**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Model Sentences – Lesson No. 9: 15 to 27	**3**
Model Sentences – Lesson No. 9: 28 to 40	**3**
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Model Sentences – Lesson No. 10: 1 to 9	**3**
Model Sentences – Lesson No. 10: 10 to 18	**3**
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Model Sentences – Lesson No. 11: 1 to 14	**3**
Model Sentences – Lesson No. 12: 1 to 10	**3**
Total	**6**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme: II B.A. Arabic**
Course Code: 23UARSE4P	**Staff Name: P. Fahuzathuladhifa**
Course Name: Arabic Computer Typing	

Unit: I	
Topics to be covered	**No. of Hours**
How to Install Arabic on Your Computer -Do's & Don'ts	**6**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Arabic Alphabet - Different Type of Arabic Alphabet	**3**
Arabic/ English Key Board Layout	**3**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Lesson 1 (Including All Exercises)	**3**
Lesson 2 (Including All Exercises)	**3**
Total	**6**

Unit: IV	
Topics to be covered	No. of Hours
Lesson 3 (Including All Exercises)	3
Lesson 4 (Including All Exercises)	3
Total	6

Unit: V	
Topics to be covered	No. of Hours
Lesson 5 (Including All Exercises)	3
Lesson 6 (Including All Exercises)	3
Total	6

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M.A., M.Phil.(Arabic), M.A.(English), M.B.A.,
ASSISTANT PROFESSOR & HEAD
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HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme: II B.A. Arabic**

Course Code: 23UGEVS41	**Staff Name: P. Fahuzathuladhifa**

Course Name: Environmental Studies

Unit: I	
Topics to be covered	**No. of Hours**
Formation and Evolution of Earth over time	**1**
Structure of Earth	**1**
Components of Earth	**2**
Renewable resources	**1**
renewable resources -Non	**1**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Ecosystem : Definition – structure and function of ecosystem	**1**
food chain –Energy flow	**1**
Food web and Nitrogen cycle	**1**
Carbon cycle	**1**
Phosphorous cycle	**1**
Water cycle	**1**
Total	**6**

Unit: III	
Topics to be covered	No. of Hours
Fundamentals of Biodiversity – Values of Biodiversity	2
Threat to Biodiversity –Conservation of Biodiversity	1
Biodiversity of India	1
Hot spots of biodiversity –geographical distribution -Bio	1
National Biodiversity Conservation Board and Its Functions	1
Total	6

Unit: IV	
Topics to be covered	No. of Hours
Definition, causes, effects and control measures of Air and Water pollution	1
Definition, causes, effects and control measures of Soil pollution	1
Definition, causes, effects and control measures of Marine and Noise pollution	1
Definition, causes, effects and control measures of Thermal and Nuclear pollution	1
Global issues: Global Warming and Ozone layer Depletion	2
Total	6

Unit: V	
Topics to be covered	No. of Hours
–Irrigation ,Organic farming –Sustainable Agriculture –Sustainable Development	1
Water harvesting and Waste recycling – Cyber waste and management	2
Disaster Management – Flood and Drought	1
Landslides and Avalanches –Earthquake and Tsunami	1
Rescue and Rehabilitation ,Warnings ,Precautions–Cyclones and Hurricanes	1
Total	6

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M.A., M.Phil.(Arabic), M.A.(English), M.B.A.,
ASSISTANT PROFESSOR & HEAD
DEPARTMENT OF ARABIC
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TEACHINGPLAN

For the Academic Year 2024-25 (ODD SEMESTER)

Department: ARABIC	**Programme: III B.A.ARABIC**

Course Code: 20UARC61	**Staff Name: M.Rabiyathul Basariya**

Course Name: Life Skills in the Light of Hadith

Unit: I	
Topics to be covered	**No .of Hours**
باب الاخلاص و احضار النية	3
باب التوبة	3
باب الصبر	3
باب الصدق	3
باب المراقبة	3
Total	**15**

Unit: II	
Topics to be covered	**No .of Hours**
باب في التقوي	3
باب في اليقين و التوكل	3
باب في الاستقامة	3
باب في التفكر	3
باب في المبادرة إلى الخيرات	3
Total	**15**

Unit: III	
Topics to be covered	No .of Hours
باب في المجاهدة	3
باب الحث على الازدياد من الخير في أواخر العمر	3
باب في بيان كثرة طرق الخير	3
باب في الاقتصاد في العبادة	3
باب في المحافظة على الأعمال	3
Total	15

Unit: IV	
Topics to be covered	No .of Hours
باب في الأمر بالمحافظة على السنة وآدابها	3
باب في وجوب الانقياد لحكم الله وما يقوله من دعي الدذلك وأمر بمعروف أو نهي عن منكر	3
- باب في النهي عن البدع و محدثات الامور	3
باب في من سن حسنة أو سيئة	3
باب في الدلالة على خير والدعاء الى هدي او ضلالة	3
Total	15

Unit: V	
Topics to be covered	No .of Hours
باب في التعاون على البر والتقوى	3
باب في النصيحة	3
باب في الأمر بالمعروف والنهي عن المنكر	3
باب تغليظ عقوبة من أمر بمعروف أو نهي عن منكر وخالف قوله فعله	3
باب الأمر باداب الامان	3
Total	15

M.SEYID ABDUL KADHER
M.A., M.Phil.(Arabic), M.A.(English), M.B.A.,
ASSISTANT PROFESSOR & HEAD
DEPARTMENT OF ARABIC
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme III B.A. Arabic**

Course Code: 20UARC62	**Staff Name: Mr. A. Ahamed Faize**

Course Name: Modern Poetry

Unit: I	
Topics to be covered	**No. of Hours**
الامة العربية	5
الطفل و الطائر السجين	5
دفاع عن الحرية	5
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
سرنديب	5
لبنان و مصر يتصافحان	5
سوريا و مصر	5
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
المال و العلم و الاخلاق	5
تربية النساء	5
وصف الطائرة	5
Total	**15**

Unit: IV	
Topics to be covered	No. of Hours
عمر المختار	5
عرس المجد	5
الفاخر بالماضي	5
Total	15

Unit: V	
Topics to be covered	No. of Hours
كلنا في الوطن اخوان	5
اخي	5
تحية الثورة	5
Total	15

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme : III B.A. Arabic**
Course Code: 20UARC63	**Staff Name: A.Rahumath Nisha**
Course Name: Women Scholars in Arabic Literature	

Unit: I	
Topics to be covered	**No. of Hours**
The legal conditions for narrating Hadith	**7**
Women as teachers and transmitters Hadith.	**8**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Occasions ,travels, venues for and kinds of hadith learning	**7**
The women's teachers	**8**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
The reading matter	**7**
Women's role in diffusion of the knowledge	**8**
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Women's hadiths and narrations	**7**
Women and Hadith critique	**8**
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Overview by period and region	**7**
Fiqh and Amal	**8**
Total	**15**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme: III B.A. Arabic**

Course Code: 20UARC64	**Staff Name: K.Bushra**

Course Name: Life History of prophet Mohammed (sal)

Unit: I	
Topics to be covered	**No. of Hours**
العصر الجاهلية - بعد نبي الله عيسي بن مريم - الديانات القديمة - الجزيرة العربية - ظهر الفساد في البر و البحر قبل البعثة - مكة و قريش - ظهور الوثنية في مكة وقريش – حادثة الفيل	5
عبد الله و امنة - ولادة الكريمة ونسبها الزكي رضاعته (صلي) - وفاة امنة وعبد المطلب - مع عمه ابي طالب - التربية الالهية - زواجه (صلي) من خديجة - صة بنيان الكعبة ودرء فتنة عظيمة - حلف الفضول - بعد البعث	5
باشير الصبح وطلائع السعادة - في غار حراء - مبعثه (صلي) . في بيت خديجة رضي الله عنها بين يدي ورقة بن نوفل - اسلام خديجة و اخلاقها - اسلام علي بن ابي طالب وزيد بن حارث - اسلم ابي بكر بن ابي قحافة وفضله و الدعوة الي الاسلام	5
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
اسلام اشراف من قريش - الدعوة جهار علي جبل " الصفا" - إظهار قومه العداوة له وحدب أبي طالب عليه بين رسول الله (صلي) وأبي طالب لو وضعوا الشمس في يميني و القمر في يساري- يعذيب قريش للمسلمين - محاربة قريش لرسول الله (صلي) وتفتنتهم في الايذاء	5
ما فعل كفار قريش بأبي بكر - اختيار قريش في وصف رسول الله (صلي) - قوة قريش في ايذاء رسول الله (صلي) و (مبالغتهم في ذلك. اسلام حمزة بن عبد المطلب (صلي)	5
ما دار بين عتبة و بين رسول الله (صلي) - هجرة السلمين الي الحبشة. تعقب قريش المسلمين - تصوير جعفر بن أبي طالب للجاهلية، وتعريفه با سلام خيبة و قد قريش اسلام عمر بن الخطاب (صلي) - مقاطعة قريش لبني هاشم والاضراب عنهم في شعب ابي طالب	5
Total	**15**

Unit: III	
Topics to be covered	No. of Hours
نقض الصحيفة وانتهاء المقاطعة وفاة ابي طالب وخديجة رضي الله عنها - وقع القرآن في القلوب السليمة الخروج الي الطائف و ما لقي فيها من الأذي	5
الاسراء والمعراج وفرض الصلوات - عرض رسول الله (صلي) نفسه على القبائل بدء اسلام الانصار - بيعة العقبة الأولي انتشار الإسلام في المدينة الاذن بالهجرة الى المدينة تامر قريش على رسول الله (صلى)	5
الاخير ، و خيبتهم فيها أرادوا هجرة الرسول الله (صلى) الي المدينةفي غار ثور - لا تحزن ان الله معنا - ركوب سراقة في اثر الرسول(صلي) و ما وقع له - سوار كسرى في يد سراقة رجل مبارك	5
Total	15

Unit: IV	
Topics to be covered	No. of Hours
في المدينة كيف استقبلت المدينة رسول الله (صلى) مسجد في قباء، وأول جمعة في المدينة في بيت أبي أيوب الأنصارى (صلى)	5
بناء المسجد النبوي والمساكن المؤاخات بين المهاجرينو الأنصار كتابه (صلى بين المهاجرين والأنصار ، ومواد عدة يهود	5
شرع الأذان ظهور المنافقين في المدينة - تحويل القبلة سرايا و غزوة أبواء - فرض صوم رمضان.تحرش قريش بالمسلمين بالمدينة الاذن بالقتا	5
Total	15

Unit: V	
Topics to be covered	No. of Hours
معركة بدر الحاسمة - تجاوب الانصار وتفانيهم في الطاعة - تنافس الغلمان في الجهاد والشهادة - التفاوت بين المسلمين والكفار في العدد و العدد	5
استعداد للمعركة - دعاء و تضرع - هذان حصمان اختصموا في ربهم التحام الفريقين و نشوب الحرب	5
اول قتيل - مسابقة الاخوة الأشقاء في قتل اعداء الله ورسول الفتح المبين - وقع معركة بدر, تعليم غلامان المسلمين فداء الاسري	5
Total	15

M.SEYID ABDUL KADHER
M.A., M.Phil.(Arabic), M.A.(English), M.B.A.,
ASSISTANT PROFESSOR & HEAD
DEPARTMENT OF ARABIC
HAJEE KARUTHA ROWTHER HOWDIA COLLEGE
(AUTONOMOUS)
UTHAMAPALAYAM - 625533

Forwarded by

Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Dean

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Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District -625 533.

TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme: III B.A. Arabic**
Course Code: 20UARC65	**Staff Name: P. Fahuzathuladhifa**
Course Name: Contribution of Indians to Arabic Language and Literature	

Unit: I	
Topics to be covered	**No. of Hours**
History of Arabic Literature in India	**4**
Arabic Language During the British rule - Arabic Language in Independent India	**4**
Role of Madrasas in the Promotion of Arabic Language	**4**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Future of in India	**6**
Life and Works of Seyyid Abul Hasan Ali Annadwi	**6**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Life and Works of Anwar Shah Kashmiri	**4**
Life and Works of Sheik Abdul Haq	**4**
Muhaddith Dehlavi	**4**
Total	**12**

Unit: IV	
Topics to be covered	No. of Hours
Life and Works of Sha Waliullah	6
Life and Works of Ashraf Ali Thanawi	6
Total	12

Unit: V	
Topics to be covered	No. of Hours
Arabic Literature in Tamilnadu	3
Life and Works of Shuayb Alim Dr. Tokay Sahib	3
Life and Works of Umar Al Qahiri (Sheik Sadaqathullah Appa)	3
Life and Works of S.S Muhammad Abdul Khader Baqavi	3
Total	12

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme: III B.A. Arabic**
Course Code: 20UARE62	**Staff Name: P. Fahuzathuladhifa**
Course Name: Spoken Arabic	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction in the Street	**4**
Introduction in the University	**4**
Contact on Telephone	**4**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Asking to meet someone	**3**
Invitation	**3**
Health	**3**
Visit to doctor	**3**
Total	**12**

Unit: III	
Topics to be covered	No. of Hours
The Post Office	4
Shopping	4
Travelling	4
Total	12

Unit: IV	
Topics to be covered	No. of Hours
Airport	3
Railway Station	3
Bank	3
Hotel	3
Total	12

Unit: V	
Topics to be covered	No. of Hours
Lost Properties	4
Declaration of car theft	4
Restaurant	4
Total	12

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Arabic	**Programme:III B.A. Arabic**
Course Code: 20UARS61	**Staff Name: A .Rahumath nisha**
Course Name: Translation Skills –II	

Unit: I	
Topics to be covered	**No. of Hours**
Cultural Problems	**3**
Domestication and Foreignization	**3**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Drama	**3**
Poetry	**3**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Economics Texts - Neologism	**3**
Metaphors in economic discourse	**3**
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Terminology: Marketing	**3**
Terminology: Investment	**3**
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Terminology: Banking	**3**
Terminology: Accounting and Audit	**3**
Total	**6**

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(AUTONOMOUS)
UTHAMAPALAYAM - 625533

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TEACHING PLAN
For the Academic Year 2024 – 25 (EVEN SEMESTER)

Department: Physics	**Programme: I - B.Sc. Physics**

Course Code: 23UPHCC21	**Staff Name: Dr. M. Charles Robert/ M. Sangareswari**

Course Name: HEAT, THERMODYNAMICS and STATISTICAL PHYSICS

Unit: I	
Topics to be covered	**No. of Hours**
Specific heat capacity – specific heat capacity of gases C_P and C_V– Meyer's relation	**5**
Joly's method for determination of C_V – Regnault's method for determination of C_P Joule-Kelvin effect – porous plug experiment	**5**
Joule-Thomson effect –Boyle temperature – temperature of inversion – liquefaction of gas by Linde's Process – adiabatic de magnetization.	**5**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Zeroth law and first law of thermodynamics – P-V diagram	**5**
Heat engine –efficiency of heat engine – Carnot's engine	**5**
Construction, working and efficiency of petrol engine and diesel engines – comparison of engines	**5**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Second law of thermodynamics –entropy of an ideal gas – entropy change in reversible and irreversible processes	5
T-S diagram –thermos dynamical scale of temperature – Maxwell's thermodynamical relations –Classius-Clapeyron's equation (first latent heat equation)	5
Third law of thermodynamics – unattainability of absolute zero – heat death	5
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
Modes of heat transfer: conduction, convection and radiation	5
Thermal conductivity – determination of thermal conductivity of a good conductor by Forbe's method - determination of thermal conductivity of a bad conductor by Lee's disc method	5
Black body radiation (Ferry's method) – distribution of energy in black body radiation – Wien's law and Rayleigh Jean's law –Planck's law of radiation – Stefan's law – deduction of Newton's law of cooling from Stefan's law	5
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Definition of phase-space – micro and macro states – ensembles –different types of ensembles – classical and quantum Statistics	5
Maxwell-Boltzmann statistics – expression for distribution function – Bose-Einstein statistics – expression for distribution function	5
Fermi-Dirac statistics –expression for distribution function – comparison of three statistics	5
Total	15

Forwarded by

Dr. K. SHAHUL HAMEED

Dean

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Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

Dr. T.K. THIRUMALAISAMY

HOD

Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

M. Sangareswari.

Dr. M. CHARLES ROBERT
& M. SANGARESWARI
Staff

Hajee Karutha Rowther Howdia College

An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: PHYSICS	**Programme: I - B.Sc., PHYSICS**
Course Code: 23UPHCC2P	**Staff Name: Dr. T. K. THIRUMALAISAMY & Ms. M, SANGARESWARI**
Course Name: MAJOR PRACTICAL - 2	

Topics to be covered	No. of Hours
1. Determination of specific heat by cooling – graphical method. 2. Determination of thermal conductivity of good conductor by Searle's method. 3. Determination of thermal conductivity of bad conductor by Lee's disc method. 4. Determination of thermal conductivity of bad conductor by Charlaton's method. 5. Determination of specific heat capacity of solid. 6. Determination of specific heat of liquid by Joule's electrical heating method (applying radiation correction by Barton's correction/graphical method), 7. Determination of Latent heat of a vaporization of a liquid. 8. Determination of Stefan's constant for Black body radiation. 9. Verification of Stefan's-Boltzmann's law. 10. Determination of thermal conductivity of rubber tube. 11. Helmholtz resonator. 12. Velocity of sound through a wire using Sonometer. 13. Determination of velocity of sound using Kund's tube. 14. Determination of frequency of an electrically maintained tuning fork 15. To verify the laws of transverse vibration using sonometer. 16. To verify the laws of transverse vibration using Melde's apparatus. 17. To compare the mass per unit length of two strings using Melde's apparatus. 18. Frequency of AC by using sonometer.	45
Total	**45**

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Dean

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Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

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HOD

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Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

M. Sangareswari

Dr. T. K. THIRUMALAISAMY & Ms. M, SANGARESWARI

Staff

Hajee Karutha Rowther Howdia College

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: PHYSICS	**Programme: NME - II**
Course Code: 23UPHSE21	**Staff Name: J.HAKKIM**
Course Name: ASTROPHYSICS	

Unit: I (J.HAKKIM)	
Topics to be covered	**No. of Hours**
Optical telescopes – magnifying power, brightness, resolving power and f/a ratio	**2**
Types of reflecting and refracting telescopes	**2**
Detectors and image processing – radio telescopes – Hubble space telescope.	**2**
Total	**6**

Unit: II (J.HAKKIM)	
Topics to be covered	**No. of Hours**
Bode's law of planetary distances	**1**
Meteors, meteorites, comets, asteroids	**2**
Kuiper belt – Oort cloud	**1**
Detection of gravitational waves – recent advances in astrophysics.	**2**
Total	**6**

Unit: III (Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
types of eclipses – solar eclipse – total and partial solar eclipse	**1**
lunar eclipse – total and partial lunar eclipse – transits.	**1**
physical and orbital data – solar atmosphere	**2**

chromosphere – solar corona – prominences – sunspots – 11year solar cycle – solar flares.	2
Total	**6**

Unit: IV (Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
H-R diagram – birth and death of low mass, intermediate mass and massive stars	1
Chandrasekar limit – white dwarfs – neutron stars – pulsars – black holes – supernovae.	1
Pulsars – black holes – supernovae	1
Classification of galaxies – galaxy clusters –interactions of galaxies	1
Dark matter and super clusters – evolving universe.	2
Total	**6**

Unit: V (Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
Basic construction of telescope	2
Develop models to demonstrate planetary motion	2
Night sky observation	2
Total	**6**

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Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
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Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

J. HAKKIM

Staff

Hajee Karutha Rowther Howdia College

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TEACHING PLAN
For the Academic Year 204-25 (EVEN SEMESTER)

Department: PHYSICS	**Programme: I B. Sc., PHYSICS**

Course Code: 23UPHSE22	**Staff Name: Dr. T. K. THIRUMALAISAMY**

Course name: DIGITAL PHOTOGRAPHY

Unit: I	
Topics to be covered	**No. of Hours**
principle –chemical route and digital route	1
light, wavelengths, colors – shadows – light intensity and distance	1
making light form images –pin-hole images	1
practical limitations to pin-hole images	1
lens instead of pin-hole – focal length and image size	1
imaging of closer subjects	1
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
photographic lens	1
focal length and angle of view (*problems*)	1
focusing movement – aperture and f-numbers (*problems*)	1
depth of field– depth of focus	1
image stabilization	1
lenses for digital cameras – lens and camera care	1
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
camera and its essential components	1

utter – aperture	1
light measurement – film housing	1
camera types: view camera	1
view finder camera	1
Reflex camera– single lens reflex (SLR) camera	1
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
principle of digital image capturing	1
comparison of digital and analog picture information – megapixel	1
grain, noise and pixel density – optical and digital zooming – image stabilizer.	1
bit depth – white balance – color modes – file formats (TIFF, RAW and JPEG)	1
storage cards and types – digital cameras: camera phones	1
compact camera – hybrid camera – digital SLR	1
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
hardware: computer and its peripherals – software: saving digital file	1
basic editing: navigating the image – undo/redo/history – crop – rotate – brightness and contrast	1
color balance – hue/saturation – dodge/burn – cloning and retouching	1
removing an element in an image – advanced editing: histogram/levels – curves	1
selection tools: magic wand – printing digital images: inkjet printer	1
laser printer – dye sub printer – lambda/light jet printers	1
Total	**6**

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Uthamapalayam-625533

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Physics	**Programme: I B.Sc. MATHS**
Course Code: 23UPHGE21	**Staff Name: Dr. T. K. THIRUMALAISAMY & Mr. J. HAKKIM**
Course Name: ALLIED PHYSICS-II	

Unit: I (Dr. T.K.THIRUMALAISAMY)	
Topics to be covered	**No. of Hours**
Deviation produced by thin lens	1
Focal length of two thin lenses in and out of contact, Cardinal points	2
Refraction through a thin prism, Dispersion, Dispersive power	2
Combination of thin prisms to produce i) Deviation without dispersion and ii) Dispersion without deviation	2
Direct vision spectroscope	1
Chromatic aberration in lenses and its removal	2
Spherical aberration and its removal	2
Total	**12**

Unit: II (Dr. T.K.THIRUMALAISAMY)	
Topics to be covered	**No. of Hours**
Interference in thin films	2
Air wedge – Newton's rings – Determination of wavelength	3
Jamin's Interferometer – Principle and use	2
Diffraction, Theory of plane transmission grating (normal incidence only)	3
Experiment to determine wavelength	2
Total	**12**

Unit: III (Dr. T.K.THIRUMALAISAMY & Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
Double refraction	1

Nicol prisms, constructions, action and uses	2
QWP and HWP	2
Optical activity, Biot's laws	1
Specific rotator power, Half shade polarimeter	2
Determination of specific rotator power	1
Fiber optics, Light propagation in fibers	2
Fiber optic communication system	1
Total	**12**

Unit: IV (Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
Conduction, Convection and Radiation -Thermal conductivity	1
Lee's disc method for conductivity of Bad conductor	1
Analogy between heat flow and electric current- Wiedemann-Franz law.	1
Convection in atmosphere	1
Lapse rate- Stability of atmosphere	1
Greenhouse effect	1
Stefan's law – determination of Stefan's Constant by filament heating method	1
Solar constant measurement - Water flow Pyrheliometer	1
temperature of the Sun – solar spectrum	1
Energy distribution in black body spectrum	1
Planck's law (no derivation)	1
derivation of Wien's and Rayleigh Jean's laws from Planck's law.	1
Total	**12**

Unit: V (Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
p-n junction	2
forward and reverse biasing -characteristic of diode	2
Zener diode – characteristic of Zener diode	1
Voltage regulator	1
Full wave bridge rectifier– construction and working – advantages (no mathematical treatment)	1
USB cell phone charger	2

introduction to e-vehicles	2
EV charging stations	1
Total	**12**

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Dean

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HOD

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Hajee Karutha Rowther Howdia College,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: PHYSICS	**Programme: I - B.Sc., MATHS**
Course Code: 23UPHGE2P	**Staff Name: Dr. T. K. THIRUMALAISAMY & Mr. J. HAKKIM**
Course Name: Allied Physics Practical – II	

Topics to be covered	No. of Hours
1. Radius of curvature of lens by forming Newton's rings 2. Thickness of a wire using air wedge 3. Wavelength of mercury lines using spectrometer and grating 4. Refractive index of material of the lens by minimum deviation 5. Refractive index of liquid using liquid prism 6. Determination of AC frequency using sonometer 7. Specific resistance of a wire using PO box 8. Thermal conductivity of poor conductor using Lee's disc 9. Determination of figure of merit table galvanometer 10. Determination of Earth's magnetic field using field along the axis of a coil 11. Characterization of Zener diode 12. Construction of Zener – IC regulated power supply 13. Construction of AND, OR, NOT gates using diodes and transistor 14. NOR gate as a universal building block	30
Total	**30**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department : Physics	**Programme : II-Physics**

Course Code : 23UPHCC41	**Staff Name : Dr. M. Fathima Parveen**
Course Name :	**OPTICS AND LASER PHYSICS**

Unit: I

Topics to be covered	No. of Hours
Lens And Prisms: Fermat's principle of least time – postulates of geometrical optics – thick and thin lenses – focal length, critical thickness, power and cardinal points of a thick lens – narrow angled prisms.	3
Lens: Aberrations- spherical aberration, chromatic aberrations, coma, and astigmatism– curvature of the field – distortion – chromatic aberrations methods. Prism: dispersion, deviation, aberrations - applications rainbows and halos, constant deviation spectroscope	3
Eyepieces: Advantage of an eyepiece over a simple lens – Huygen's and Ramsden's eyepieces, construction and working –merits and demerits of the eyepiece	3
Resolving power: Rayleigh's criterion for resolution – limit of resolution for the eye – resolving power of, (i) Prism (ii) grating (iii) telescope	3
Total	**12**

Unit: II

Topics to be covered	No. of Hours
Interference: Division of wave front, Fresnel's biprism – fringes with white light	3
Division of amplitude: Interference in thin films due to, (i) reflected light, (ii) transmitted light	2
Colours of thin films applications – air wedge – Newton's rings	2
Interferometers : Michelson's interferometer – applications, (i) determination of wavelength of a monochromatic source of light	2
Determination of the wavelength and separation D_1 and D_2 lines of sodium light, Determination of a thickness of a mica sheet	3
Total	**12**

Unit: III	
Topics to be covered	No. of Hours
Diffraction: Fresnel's assumptions – zone plate – action of zone plate for an incident spherical wave front	3
Differences between a zone plate and a convex lens –Fresnel type of diffraction – diffraction pattern due to a straight edge	3
Positions of maximum and minimum intensities – diffraction due to a narrow slit – Fraunhofer type of diffraction	3
Fraunhofer diffraction at a single slit – plane diffraction grating– experiment to determine wavelengths – width of principal maxima.	3
Total	12

Unit: IV	
Topics to be covered	No. of Hours
Polarisation: Optical activity – optically active crystals –polarizer and analyser–double refraction – optic axis, principal plane	2
Huygens's explanation of double refraction in uniaxial crystals –polaroids and applications	2
Circularly and elliptically polarized light –quarter wave plate – half wave plate	2
Production and detection of circularly and elliptically polarized lights – Fresnel's explanation	3
Specific rotation – Laurent half shade polarimeter– experiment to determine specific rotatory power.	3
Total	12

Unit: V	
Topics to be covered	No. of Hours
Lasers: general principles of lasers – properties of lasers action	3
spontaneous and stimulated emission – population inversion – optical pumping	3
He-Ne laser (principle and working) – CO_2 laser (principle and working) semiconductor laser	3
laser applications – holography	3
Total	12

Forwarded by

Dr. K. SHAHUL HAMEED
DEAN
Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

Dr. T. K. THIRUMALAI SAMY
HOD
Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

Dr. M. FATHIMA PARVEEN
STAFF

Hajee Karutha Rowther Howdia College

An Autonomous Institution Affiliated to Madurai Kamaraj University
Re- Accredited with 'A++' Grade by NAAC
Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: PHYSICS	**Programme: B. Sc., PHYSICS**
Course Code: 23UPHCC4P	**Staff Name: Dr. M. CHARLES ROBERT & Dr. A. MUJIBER RAHMAN**
Course Name: PHYSICS PRACTICAL - 4	

Topics to be covered	No. of Hours
1. Air wedge – Determination of thickness of wire. 2. Spectrometer – Determination of Cauchy's constants. 3. Spectrometer – Determination of refractive index of a liquid using hallow prism. 4. Newton's rings – Determination of radius of curvature of a given convex lens. 5. Anderson's bridge – Determination of self - inductance of the given coil. 6. Ballistic galvanometer – Determination of figure of merit.	45
Total	**45**

Forwarded by

Dr. K. SHAHUL HAMEED

Dean
Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

Dr. T.K. THIRUMALAISAMY

HOD
Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

Dr. A. MUJIBER RAHMAN
& M. CHARLES ROBERT
Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: PHYSICS	**Programme:** II B. Sc., PHYSICS

Course Code: 23UGEVS41	**Staff Name:** Dr. A. MUJIBER RAHMAN

Course Name: ENVIRONMENTAL STUDIES

Unit: I	
Topics to be covered	**No. of Hours**
Earth- formation and Evolution of Earth over time	**1**
Structure of Earth and its components – Atmosphere, Lithosphere, Hydrosphere and Biosphere	**1**
Resources – renewable and non-renewable resources	**1**
Total	**3**

Unit: II	
Topics to be covered	**No. of Hours**
Ecology – definition - Ecosystem : Definition – structure and function – energy flow	**1**
Food chain and Food web – one example for an ecosystem	**1**
Biogeochemical cycles – Nitrogen, carbon, Phosphorous and Water	**1**
Total	**3**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction – definition – Values of Biodiversity	**1**
Threat to Biodiversity –Conservation of Biodiversity	**1**
Biodiversity of India – as a megadiversity nation – bio-geographical distribution – Hot spots of biodiversity – National Biodiversity conservation Board and its function	**1**
Total	**3**

Unit: IV	
Topics to be covered	**No. of Hours**
Definition , causes, effects and control measures of Air, Water and Soil pollutions	**1**
Marine, Noise, Thermal and Nuclear pollution	**1**
Global issues: Global Warming and Ozone layer Depletion	**1**
Total	**3**

Unit: V	
Topics to be covered	**No. of Hours**
Sustainable Development – Sustainable Agriculture – Organic farming	**1**
Irrigation – Water harvesting and Waste recycling – Cyber waste and management	**1**
Disaster Management – Flood and Drought – Earthquake and Tsunami – Landslides and Avalanches – Cyclones and Hurricanes –Precautions, Warnings, Rescue and Rehabilitation	**1**
Total	**3**

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DEAN
Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

Dr. T. K. THIRUMALAISAMY
HOD
Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

Dr. M. MUJIBER RAHMAN
STAFF

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: PHYSICS	**Programme: B.Sc. PHYSICS**

Course Code: 23UPHSE41	**Staff Name: Dr. A. MUJIBER RAHMAN**

Course Name: MEDICAL INSTRUMENTATION

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to man-instrument system and its components	2
Problems encountered in measuring living systems – transducers– force, motion, pressure transducers - mechanism of hearing – air and bone conduction	2
threshold of hearing – audiometer – masking in audiometry – pure tone and speech audiometer – evoked response audiometry – hearing aids.	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
biomedical signals – sources of bioelectric potentials – resting, action and propagation of bioelectric potentials	2
bio-potential electrodes – skin surface, needle electrodes. - electro-conduction system of heart – electro cardiogram (ECG) – Einthoven's triangle	2
electro encephalogram (EEG) –brain waves – EEG instrumentation – recording of evoked potentials – electro myogram (EMG)–pulse oximeter.	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
radiography – primary radiological image – contrast agents, filters – beam restrictor, grid – image quality	2
linear tomography - computed tomography - helical and multi slice - image quality- radiation dose.	2
radioisotopes – radiopharmaceuticals – technetium generator – gamma camera – positron emission tomography – disposal of radioactive waste.	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
ultrasound transducer – ultrasound imaging– Doppler ultrasound – ultrasound image quality and bio-effects.	2
proton and external magnetic field – precession – radiofrequency and resonance	2
MRI signal - relaxation time - MRI instrumentation - imaging sequences - biosafety	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
PROJECT ASSIGNMENT: clinical practice of *one* of the following: electro cardiogram, electro encephalogram, electro myogram, electro oculogram, computed tomography, positron emission tomography, ultrasound	6
Total	6

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Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

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HOD
Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

Dr. M. MUJIBER RAHMAN
STAFF

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: PHYSICS	**Programme: II-B.Sc. PHYSICS**
Course Code: 23UPHSE42	**Staff Name: Ms. M.SANGARESWARI**
Course Name: MATERIALS SCIENCE	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction – point defects: vacancies(problems), interstitials, impurities, electronic defects	2
Equilibrium concentration of point imperfections (problems)–application of point defects –line defects: edge dislocation(problems), screw dislocation	2
Surface defects: extrinsic defects – intrinsic defects: grain boundaries, tilt and twist boundaries, twin boundaries, stacking faults – volume defects – effect of imperfections.	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Introduction – elastic behavior of materials – atomic model of elastic behavior –modulus as a parameter in design	2
Rubber like elasticity – inelastic behavior of materials - relaxation process	2
Viscoelastic behavior of materials – spring-Dash pot models of viscoelastic behavior of materials.	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Introduction –plastic deformation: tensile stress-strain curve – plastic deformation by slip	2
Creep: mechanism of creep – creep resistant materials	2
Strengthening methods: strain hardening, grain refinement – solid solution strengthening – precipitation strengthening	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Introduction – optical absorption in metals, semiconductors and insulators	2
NLO materials and their applications – display devices and display materials: fluorescence and phosphorescence	2
Light emitting diodes –liquid crystal displays	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Destructive testing: tensile test, compression test, hardness test	2
Nondestructive testing (NDT): radiographic methods, ultrasonic methods	2
Thermal methods of NDT: thermography – equipment used for NDT: metallurgical microscope	2
Total	6

Forwarded by

Dr. K. SHAHUL HAMEED
Dean

Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

Dr. T.K. THIRUMALAISAMY
HOD

Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

Ms. M. SANGARESWARI
Staff

Hajee Karutha Rowther Howdia College

An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai
Re - Accredited with A^{++} grade by NAAC
Uthamapalayam, Theni District. 625 533

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Physics	**Programme: II B.Sc. CHEMISTRY**
Course Code: 23UPHGE41	**Staff Name: Dr. T. K. THIRUMALAISAMY & Mr. J. HAKKIM**
Course Name: ALLIED PHYSICS-II	

Unit: I (Dr. T.K.THIRUMALAISAMY)

Topics to be covered	No. of Hours
Deviation produced by thin lens	1
Focal length of two thin lenses in and out of contact, Cardinal points	2
Refraction through a thin prism, Dispersion, Dispersive power	2
Combination of thin prisms to produce i) Deviation without dispersion and ii) Dispersion without deviation	2
Direct vision spectroscope	1
Chromatic aberration in lenses and its removal	2
Spherical aberration and its removal	2
Total	**12**

Unit: II (Dr. T.K.THIRUMALAISAMY)

Topics to be covered	No. of Hours
Interference in thin films	2
Air wedge – Newton's rings – Determination of wavelength	3
Jamin's Interferometer – Principle and use	2
Diffraction, Theory of plane transmission grating (normal incidence only)	3
Experiment to determine wavelength	2
Total	**12**

Unit: III (Dr. T.K.THIRUMALAISAMY & Mr. J. HAKKIM)

Topics to be covered	No. of Hours
Double refraction	1

Nicol prisms, constructions, action and uses	2
QWP and HWP	2
Optical activity, Biot's laws	1
Specific rotator power, Half shade polarimeter	2
Determination of specific rotator power	1
Fiber optics, Light propagation in fibers	2
Fiber optic communication system	1
Total	**12**

Unit: IV (Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
Conduction, Convection and Radiation -Thermal conductivity	1
Lee's disc method for conductivity of Bad conductor	1
Analogy between heat flow and electric current- Wiedemann-Franz law.	1
Convection in atmosphere	1
Lapse rate- Stability of atmosphere	1
Greenhouse effect	1
Stefan's law – determination of Stefan's Constant by filament heating method	1
Solar constant measurement - Water flow Pyrheliometer	1
temperature of the Sun – solar spectrum	1
Energy distribution in black body spectrum	1
Planck's law (no derivation)	1
derivation of Wien's and Rayleigh Jean's laws from Planck's law.	1
Total	**12**

Unit: V (Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
p-n junction	2
forward and reverse biasing -characteristic of diode	2
Zener diode – characteristic of Zener diode	1
Voltage regulator	1
Full wave bridge rectifier– construction and working – advantages (no mathematical treatment)	1
USB cell phone charger	2

introduction to e-vehicles	2
EV charging stations	1
Total	**12**

Forwarded by

Dr. K. SHAKUL HAMEED

Dean

Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

Dr. T. K. THIRUMALAISAMY

HOD

Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

Dr. T. K. THIRUMALAISAMY
& J. HAKKIM
Staff

Hajee Karutha Rowther Howdia College

An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai
Re - Accredited with A^{++} grade by NAAC
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: PHYSICS	**Programme: II - B.Sc., CHEMISTRY**
Course Code: 23UPHGE4P	**Staff Name: Mr. J. HAKKIM & Ms. M. SANGARESWARI**
Course Name: Allied Physics Practical – II	

Topics to be covered	No. of Hours
1. Radius of curvature of lens by forming Newton's rings 2. Thickness of a wire using air wedge 3. Wavelength of mercury lines using spectrometer and grating 4. Refractive index of material of the lens by minimum deviation 5. Refractive index of liquid using liquid prism 6. Determination of AC frequency using sonometer 7. Specific resistance of a wire using PO box 8. Thermal conductivity of poor conductor using Lee's disc 9. Determination of figure of merit table galvanometer 10. Determination of Earth's magnetic field using field along the axis of a coil 11. Characterization of Zener diode 12. Construction of Zener – IC regulated power supply 13. Construction of AND, OR, NOT gates using diodes and transistor 14. NOR gate as a universal building block	30
Total	**30**

Forwarded by	Verified by	Prepared by
K. Shahul		M. Sangareswari.
Dr. K. SHAHUL HAMEED	**Dr. T. K. THIRUMALAISAMY**	**Mr. J. HAKKIM & Ms. M. SANGARESWARI**
Dean	**HOD**	**Staff**

Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Physics	**Programme: III- BSc Physics**
Course Code: 20UPHC61	**Staff Name: Ms. M.SANGARESWARI**

Course Name: Classical and Statistical Mechanics

Unit: I	
Topics to be covered	**No. of Hours**
Mechanics of a particles – conservation of linear momentum – conservation of angular momentum Conservation of energy.	4
Mechanics of a system of particles – conservation linear momentum	2
Conservation of angular momentum – conservation of energy	2
Work energy theorem – Degrees of freedom	2
Conservative forces - examples	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Constraints – holonomic and non-holonomic constraints - Degrees of freedom under constraints – Forces of constraints	2
Generalized co-ordinates – Generalized velocities – Generalized momentum	2
Principle of virtual work – D'Alembert's principle	2
Lagrangian equation of motion from D'Alembert's principle(Derivation)	3
Simple application (simple pendulum, compound pendulum, Atwood's machine) – Superiority of Lagrangian approach over Newton's approach.	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction – cyclic coordinates	2
Hamiltonian function H - Physical significance	2
Hamilton's equation of motion (derivation)	2
Hamilton's Principle – Lagrangian's equation of motion from Hamilton's principle	2
Simple applications (Linear harmonic oscillator, compound pendulum, Motion of a particle in a central force field)	4
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Microscopic and macroscopic systems - Ensembles – Phase space	2
Probability - Basic postulates of statistical mechanics	2
Definition of mathematical probability – thermodynamic probability	2
Boltzmann's theorem on entropy and probability – statistical equilibrium	2
Maxwell Boltzmann statistics – Maxwell Boltzmann's energy distribution law – Maxwell Boltzmann velocity distribution law.	4
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Bose-Einstein statistics – Bose-Einstein distribution law	3
Photon gas - Plank's law of blackbody radiation (Derivation)	2
Deduction of Wien's and Rayleigh Jean's law of black body radiation	2
Fermi Dirac statistics – Fermi Dirac distribution law – Electron gas	3
Comparison between three statistics	2
Total	**12**

Forwarded by

Dr. K. SHAHUL HAMEED
Dean
Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

Dr. T.K. THIRUMALAISAMY
HOD
Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

M. Sangareswari.

Ms. M. SANGARESWARI
Staff

Hajee Karutha Rowther Howdia College

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Physics	**Programme: III B.Sc Physics**
Course Code: 20UPHC62	**Staff Name: Dr. M. Charles Robert**
Course Name: Electronics - II	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to digital systems - Number system – Binary, decimal, Octal, hexadecimal - Conversion from one another – Binary coded decimals – ASCII code	4
Binary addition, subtraction, multiplication, division – Binary addition and subtraction by 1's and 2's complement	4
Logic gates – OR, AND, NOT, NOR, NAND and EX-OR- Universal gates – Logic families – Diode Resistor logic (DRL) – OR gate, AND gate – RTL NOT gate	4
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Basic laws of Boolean Algebra – Boolean Addition – Properties of Boolean Algebra – De Morgan's theorems - their proof	4
Sum of products(SOP) – Product of Sum (POS) - expression from a truth table	4
Karnaugh map – 2 variables, 3 variables and 4 variables – simplification using K-map – pairs, quads and Octets	4
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Half adder – Full adder – 4-bit binary adder – Half Sub tractor – Full Subtractor – 4 bit parallel subtractor	4
Multiplexer(MUX) – 4 to 1 MUX, D Multiplexer(DMUX) – 1 to 4 DMUX – Encoder - 8 to 3 Encoder – Decimal to BCD Encoder	4
Decoder – 3 to 8 decoder, BCD to Decimal Decoder – BCD to 7 segment Decoder	4
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Timer – IC 555 – Explanation of IC 555 using block diagram – IC 555 monostable multivibrator with derivation of it output pulse	4
IC 555 astable (free running) multi vibrator and expression for period – Bistable multivibrator - Frequency divider using IC 555 -	4
Flip Flops - R-S flip flops – clocked R-S flip flops - J-K flip flop – J-K master Slave flip flop – D flip flop – D flip flop as frequency divider - applications of flip flop.	4
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Counters – Binary counters using J-K Flip flop - 4 bit binary counter – Decade counter – Modulo - n counter	4
Ring counter - Register – Shift register – Classification – Serial in – Serial out (SISO) shift register	4
Interfacing – R-2R resistive ladder network - Digital to Analog converter (D/A) – Analog to Digital converter (A/D).	4
Total	12

Forwarded by

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Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

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HOD
Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

Dr. M. CHARLES ROBERT
Staff

Hajee Karutha Rowther Howdia College

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TEACHING PLAN

For the Academic Year 2024 – 25 (EVEN SEMESTER)

Department : Physics	**Programme : III-B.Sc. Physics**
Course Code : 20UPHC63	**Staff Name : Dr. M. Fathima Parveen**
Course Name :	**Solid State Physics**

Unit: I	
Topics to be covered	**No. of Hours**
Introduction about Crystals and amorphous solids - Fundamental terms of crystallography Fundamental types of lattice-Unit cell-Packing fraction	3
Classifications of crystals 14 types of Bravais lattices	2
Unit cell and Miller indices –Salient features of Miller indices ,relation between d and a	2
Structure of Simple cubic crystals SC, BCC, FCC and Structure of Hexagonal closed packed structure and Zinc blende	3
X ray diffraction-Bragg's law-Determination of crystal structures by Laue method, Rotating crystal method and Powder method	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Classification of bonds in solids - ionic , covalent, Metallic, molecular and hydrogen bonds and its properties Free Electron theory of solids	2
Classification of conducting materials -Drift velocity–mobility - mean free path and relaxation time	3
Expression for electrical and thermal conductivity - Widemann Franz law	2
Super conductivity and its general properties of super conducting materials	3
Types of superconductors – applications	2
Total	**15**

Unit – III	
Topics to be covered	**No. of Hours**
Classification of solids on the basis of energy band theory	3
Classification of semiconductors and its applications	2
Carrier concentration in an intrinsic semiconductor	2
Carrier concentration in an extrinsic semiconductor	3
Hall effect -Determination of Hall coefficient and Applications	2

Total	**12**
Unit: IV	
Topics to be covered	**No. of Hours**
Different types of magnetism –dia – para - ferro - antiferro and ferrimagnetism	1
Langevin's theory of dia magnetism	2
Langevin's theory of para magnetism	2
Concept of domain – Weiss theory of ferromagnetism	2
Magnetic materials - properties and applications of soft and hard magnetic materials	2
Magnetostriction materials - ferrites and hysteresis.	3
Total	**12**
Unit: V	
Topics to be covered	**No. of Hours**
Dielectrics - polar and non-polar dielectrics	1
Types of polarizations – electronic – ionic – orientational and space charge	2
local field(or)internal field	2
Clausius -Mosotti equation	1
Experimental determination of dielectric constant and dielectric loss	3
Sources of dielectric strength and breakdown - properties and applications of dielectrics	3
Total	**12**

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Dr. K. SHAHUL HAMEED
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Hajee Karutha Rowther Howdia College
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Verified by

Dr. T. K. THIRUMALAI SAMY
HOD
Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

Dr. M. FATHIMA PARVEEN
STAFF

Hajee Karutha Rowther Howdia College

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TEACHING PLAN

For the Academic Year 2024-25 (ODD/EVEN SEMESTER)

Department: Physics	**Programme: III BSc Physics**
Course Code: 20UPHC6P	**Staff Name: Dr. A. Mujiber Rahman & Ms. M. Sangareswari**
Course Name: Major Practical- III	

Unit: I	
Topics to be covered	**No. of Hours**
1. Spectrometer- determination of Cauchy's constants. 2. Spectrometer- Hartmann's interpolation formula. 3. Spectrometer – i-i' curve. 4. LCR Series resonance- determination of self-inductance. 5. LCR parallel resonance- determination of self- inductance. 6. BG –High resistance by leakage method. 7. Maxwell's bridge-self-inductance. 8. Spectrometer – Small angled prism. 9. B.G. – Comparison of Mutual Inductance. 10. Anderson's Bridge – Self Inductance. 11. Impedance and power factor – LR circuit. 12. Impedance and power factor – CR circuit. 13. B.G – Determination of mutual inductance. 14. Rayleigh's bridge – Self-inductance. 15. Resolving power of a prism. 16. B.G. – Absolute capacity of a condenser.	**45**
Total Hours	**45**

Forwarded by
Dr. K. SHAHUL HAMEED

Dean
Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by
Dr. T.K. THIRUMALAISAMY

HOD
Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by
Dr. A. MUJIBER RAHMAN
& M. SANGARESWARI
Staff

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TEACHING PLAN

For the Academic Year 2024 – 25 (ODD/EVEN SEMESTER)

Department: PHYSICS	**Programme: III B. Sc., PHYSICS**

Course Code: 20UPHC6Q	**Staff Name: Dr. M. CHARLES ROBERT & Dr. M. FATHIMA PARVEEN**
Course Name: MAJOR PRACTICAL - IV	

Topics to be covered	No. of Hours
1. Bridge rectifier – π filter.	
2. Single stage amplifier – Determination of gain and frequency response.	
3. Hartley oscillator- Determination of self-inductance.	
4. Dual power supply using IC7805 and IC7905.	45
5. Transistor characteristics-CE mode.	
6. Astable multivibrator- Discrete components.	
7. Anderson's bridge – Determination of self - inductance of the given coil.	
8. Resolving power of a prism.	
9. Differentiator and Integrator – Discrete components.	
10. Colpitts's oscillator – Determination of self - inductance of the given coil.	
11. Universal NOR gate – IC.	
12. Ring Counter.	
Total	**45**

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PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
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& Dr. M. FATHIMA PARVEEN
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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: III B.Sc. Physics**
Course Code: 20UPHC6R	**Staff Name: Mr. J. HAKKIM & Dr. M. FATHIMA PARVEEN**
Course Name: Major Practical- V	

Unit: I	
Topics to be covered	**No. of Hours**
1. Logic gates- using IC. 2. Universal gates-NAND gate – IC. 3. Universal gate-NOR gate –IC. 4. Astable multivibrator-IC 555. 5. Astable multivibrator-IC 741. 6. OP-amp - Integrator differentiator. 7. OP-amp - Adder and subtractor. 8. Half and Full Adder using IC. 9. Four bit binary Adder using IC. 10. Four-bit binary counter using IC. 11. BCD counter using IC. 12. Ring counter using IC. 13. BCD to seven segment decoder using IC. 14. Schmitt trigger- IC 555. 15. Modulo- n-counter. 16. 4 Bit binary subtractor. 17. Shift - Register using IC.	45
Total Hours	**45**

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PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

Dr. M. FATHIMA PARVEEN
& Mr. J. HAKKIM
Staff

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: PHYSICS	Programme: B.Sc. PHYSICS

Course Code: 20UPHE62	Staff Name: Dr. A. MUJIBER RAHMAN

Course Name: ASTROPHYSICS – II

Unit: I	
Topics to be covered	**No. of Hours**
Sun - Physical properties – Composition – Photosphere	3
Chromosphere – Corona – Sunspots - Sunspot groups	3
Sunspot cycle –Coronal Mass Ejections (CMEs)	3
Solar Prominences - Solar Flares - Solar Wind	3
Communication disturbances – Auroras.	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Stellar Parallax - Distance units - Stellar motions	4
Star light measurements - luminosity and brightness of Star	4
Colours of Star-Spectra of Stars –Hertzsprung-Russell diagram	4
Luminosity classification – Stellar diameters.	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Nuclear energy for stars – Thermo Nuclear reactions	4
Stellar evolution - birth of Star - Main Sequence stars –Cepheid variables	4
Planetary nebulae - white dwarfs - origin of red giants - Colour Magnitude diagram - Neutron stars - Black holes	3
The Schwarzschild radius - Stellar black holes - Non-Stellar black holes -Physics of a black hole.	4
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Identifying Galaxies - Galaxy nomenclature - Types of Galaxies	3
Spiral-Elliptical - irregular galaxies - Milky Way Galaxy and its structure	3
Properties of Galaxies - Visual binaries- Mass of a binary system	3
Mass luminosity relationship- Star clusters	3
Galactic clusters-Pulsars – Quasars.	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Cosomology – the scale of the universe –	3
the expansion of the universe – Hubble's law - Olber's Paradox	4
Cosmological models – Steady state theory	4
Big bang theory – Origin of the cosmic background radiation.	4
Total	**15**

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Hajee Karutha Rowther Howdia College,
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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: PHYSICS	**Programme: B.Sc Degree**
Course Code: 20UPHS61	**Staff Name: Dr. M. Charles Robert**
Course Name: Basic Instrumentation	

Unit: I	
Topics to be covered	**No. of Hours**
Functional elements of measuring systems	2
Classification of instruments, static performance parameters, Accuracy,	2
Precision, Resolution, Threshold, Static sensitivity, linearity, Hysteresis, Impedance loading and matching	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Analog transducers	2
electro mechanical transducer	2
optoelectrical. Digital transducers	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Relative motion measuring devices, electro mechanical measurements	2
optical, pneumatic, force measurements	2
Balance, Hydraulic load cell - pneumatic load cell	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Moderate pressure measurements	2
High pressure and low pressure measurements	2
measurement of temperature – non electrical, electrical and radiation methods	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Characteristics of sound, sound pressure	2
power levels, loudness, Typical sound measuring systems	2
microphones	2
Total	6

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Prepared by

Dr. M. CHARLES ROBERT
Staff

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TEACHINGPLAN
For the Academic Year 2024 – 25 (EVEN SEMESTER)

Department: PHYSICS	**Programme: III B. Sc., PHYSICS**
Course Code: 20UPHS62	**Staff Name: J. HAKKIM**
Course Name: COMPETITIVE EXAM IN PHYSICS – II	

Unit: I (J.HAKKIM)	
Topics to be covered	**No. of Hours**
Time and Work- Time and distance	**2**
Problems on age – Problems on trains	**2**
Area – Volume and Surface area	**2**
Total	**6**

Unit: II (J.HAKKIM)	
Topics to be covered	**No. of Hours**
Blood relations-Puzzle test	**2**
Assertion and Reason – Analytical reasoning	**2**
Spotting the embedded figures	**2**
Total	**6**

Unit: III (Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
Atomic Physics and Quantum mechanics	**3**
Nuclear and Particle physics	**3**
Total	**6**

Unit: IV (Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
Electronics-I	**3**
Classical and Statistical Mechanics	**3**
Total	**6**

Unit: V (Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
Electronics-II	**3**
Condensed matter Physics	**3**
Total	**6**

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Hajee Karutha Rowther Howdia College
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Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

J. HAKKIM
Staff

Hajee Karutha Rowther Howdia College

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TEACHING PLAN

For the Academic Year 2024 – 25 (EVEN SEMESTER)

Department: PHYSICS	**Programme: I M.Sc., PHYSICS**

Course Code: 23PPHCC21	**Staff Name: R.Yoga**

Course Name: STATISTICAL MECHANICS

Unit: I	
Topics to be covered	**No. of Hours**
Thermodynamic potentials - Phase Equilibrium - Gibb's phase rule	3
Phase transitions and Ehrenfest's classifications	3
Third law of Thermodynamics - Order parameters	4
Landau's theory of phase transition - Critical indices	4
Scale transformations and dimensional analysis.	4
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Foundations of statistical mechanics - Specification of states of a system	4
Micro canonical ensemble	4
Phase space – Entropy - Connection between statistics and thermodynamics	3
Entropy of an ideal gas using the micro canonical ensemble	4
Entropy of mixing and Gibb's paradox	3
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Trajectories and density of states	4
Liouville's theorem and applications	3
Canonical and grand canonical ensembles	4
Partition function - Calculation of statistical quantities	4
Energy and density fluctuations	3
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Density matrix - Statistics of ensembles	3
Statistics of indistinguishable particles - Maxwell-Boltzmann statistics	4
Fermi-Dirac statistics – Ideal Fermi gas – Degeneracy	3
Bose-Einstein statistics - Plank radiation formula	4
Ideal Bose gas - Bose-Einstein condensation.	4
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Cluster expansion for a classical gas - Virial equation of state – Calculation of the first Virial coefficient in the cluster expansion	3
Ising model - Mean-field theories of the Ising model in three, two and one dimensions	4
Exact solutions in one dimension. Correlation of space-time dependent fluctuations	3
Fluctuations and transport phenomena - Brownian motion - Langevin's theory	4
Fluctuation-dissipation theorem - The Fokker-Planck equation.	4
Total	**18**

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PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
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R. YOGA
Staff

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Physics	**Programme: I M.Sc. (Physics)**

Course Code: 23PPHCC22	**Staff Name: Dr. S. Prasanna Subramanian**

Course Name: Quantum Mechanics – I

Unit: I	
Topics to be covered	**No. of Hours**
Interpretation of the wave function	3
Time dependent Schrodinger equation – Time independent Schrodinger equation	3
Stationary states – Ehrenfest's theorem – Linear vector space – Linear operator	4
Eigen functions and Eigen Values – Hermitian Operator – Postulates of Quantum Mechanics	4
Simultaneous measurability of observables – General Uncertainty relation	4
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Square – well potential with rigid walls – Square well potential with finite walls	3
Square potential barrier – Alpha emission	3
Bloch waves in a periodic potential – Kronig-penny square – well periodic potential	4
Linear harmonic oscillator: Operator method – Particle moving in a spherically symmetric potential	4
System of two interacting particles – Hydrogen atom – Rigid rotator	4
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Dirac notation – Equations of motions	3
Schrodinger representation – Heisenberg representation	3
Interaction representation – Coordinate representation	4
Momentum representation – Symmetries and conservation laws	4
Unitary transformation – Parity and time reversal	4
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Time independent perturbation theory for non-degenerate energy levels	3
Degenerate energy levels – Stark effect in Hydrogen atom	3
Ground and excited state – Variation method	4
Helium atom – WKB approximation – Connection formulae (no derivation)	4
WKB quantization – Application to simple harmonic oscillator	4
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Eigenvalue spectrum of general angular momentum	4
Ladder operators and their algebra – Matrix representation	4
Spin angular momentum – Addition of angular momenta	3
CG Coefficients – Symmetry and anti – symmetry of wave functions	4
Construction of wave-functions and Pauli's exclusion principle	3
Total	**18**

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PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
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Dr. S. PRASANNA SUBRAMANIAN
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TEACHING PLAN

For the Academic Year 2024 – 25 (EVEN SEMESTER)

Department: Physics	**Programme: I M.Sc. (Physics)**
Course Code: 23PPHCC2P	**Staff Name: Dr. S. Prasanna Subramanian**
Course Name: Practical-II	

Topics to be covered	No. of Hours
1. Determination of Young's modulus and Poisson's ratio by Elliptical fringes - Cornu's Method 2. Determination of Stefan's constant of radiation from a hot body 3. Measurement of Coefficient of linear expansion- Air wedge Method 4. Measurement of Susceptibility of liquid - Quincke's method 5. B-H curve using CRO 6. Measurement of Magnetic Susceptibility - Guoy's method 7. LG Plate 8. Arc spectrum: Copper 9. Determination of Solar constant 10. Determination of e/m - Millikan's method 11. Miscibility measurements using ultrasonic diffraction method 12. Determination of Thickness of thin film. - Michelson Interferometer 13. GM counter – Feather's analysis: Range of Beta rays 14. Iodine absorption spectra 15. Molecular spectra – CN bands 16. Determination of Refractive index of liquids using diode Laser/ He – Ne Laser 17. Determination of Numerical Apertures and Acceptance angle of optical fibers using Laser Source. 18. Measurement of Dielectricity - Microwave test bench 19. Hall Effect in Semiconductor. Determine the Hall coefficient, carrier concentration and carrier mobility 20. Interpretation of vibrational spectra of a given material 21. Determination of I-V Characteristics and efficiency of solar cell. 22. IC 7490 as scalar and seven segment display using IC7447 23. Solving simultaneous equations – IC 741 / IC LM324	90

24. Op-Amp –Active filters: Low pass, High pass and Band pass filters (Second Order) Batter worth filter 25. Construction of Current to Voltage and Voltage to Current Conversion using IC 741. 26. Construction of second order butter worth multiple feedback narrow band pass filter 27. Realization of analog to digital converter (ADC) using 4-bit DAC and synchronous counter IC74193 28. Construction of square wave generator using IC 555 – Study of VCO 29. Construction of Schmidt trigger circuit using IC555 for a given hysteresis – Application as squarer 30. Construction of pulse generator using the IC 555 – Application as frequency divider 31. BCD to Excess- 3 and Excess 3 to BCD code conversion 32. Study of binary up / down counters - IC 7476 / IC7473 33. Shift register and Ring counter and Johnson counter- IC 7476/IC 7474 34. Study of synchronous parallel 4-bit binary up/down counter using IC 74193 35. Study of asynchronous parallel 4-bit binary up/down counter using IC 7493 36. Study of Modulus Counter 37. Construction of Multiplexer and Demultiplexer using ICs.	
Total	**90**

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Uthamapalayam-625533

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TEACHING PLAN

For the Academic Year 2024 – 25 (EVEN SEMESTER)

Department: Physics	**Programme: I M.Sc. (Physics)**

Course Code: 23PPHDE21	**Staff Name: Ms. K. Roobini**

Course Name: Advanced Optics

Unit: I	
Topics to be covered	**No. of Hours**
Classification of polarization – Transverse character of light waves – Polarizer and analyzer	3
Maul's law – Production of polarized light – Wire grid polarizer and the polaroid	3
Polarization by reflection – Polarization by double refraction – Polarization by scattering	3
The phenomenon of double refraction – Normal and oblique incidence	3
Interference of polarized light: Quarter and half wave plates – Analysis of polarized light – Optical activity	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Basic principles – Spontaneous and stimulated emissions	3
Components of the laser – Resonator and lasing action – Types of lasers and its applications	3
Solid state lasers – Ruby laser – Nd:YAG laser – gas lasers	3
He-Ne laser – CO2 laser – Chemical lasers	3
HCl laser – Semiconductor laser	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction – Total internal reflection – The optical fiber	3
Glass fibers – The coherent bundle – The numerical aperture	3
Attenuation in optical fibers – Single and multi-mode fibers	3
Pulse dispersion in multimode optical fibers – Ray dispersion in multimode step index fibers	3
Parabolic-index fibers – Fiber-optic sensors: precision displacement sensor – Precision vibration sensor	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Basic principles – Harmonic generation	3
Second harmonic generation	3
Phase matching	3
Third harmonic generation – Optical mixing	3
Parametric generation of light – Self-focusing of light	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Magneto-optical effects – Zeeman effect – Inverse Zeeman effect	3
Faraday effect – Voigt effect – Cotton-mouton effect	3
Kerr magneto-optic effect – Electro-optical effects	3
Stark effect – Inverse stark effect – Electric double refraction	3
Kerr electro-optic effect – Pockels electro-optic effect	3
Total	**15**

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K. Roobini
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Physics	**Programme: I M.Sc Physics**

Course Code: 23PPHGE21	**Staff Name: Ms. K.ROOBINI**

Course Name: Solid waste management

Unit: I	
Topics to be covered	**No. of Hours**
Introduction, Definition of solid waste	3
Types, Hazardous waste	3
Resource conservation and renewal act	3
Hazardous municipal solid waste	3
Non-municipal solid waste	3
Total	15

Unit: II	
Topics to be covered	**No. of Hours**
Solid waste characteristics	3
Physical characteristics	3
Chemical characteristics	3
SWM hierarchy	3
Factors affecting SW generation	3
Total	15

Unit: III	
Topics to be covered	**No. of Hours**
Tools and equipment	3
Transportation	3
Disposal technique	3
Composting	3
Land filling technique	3
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
SWM for economic development	3
Environmental protection	3
Linking SWM	3
Climate change	3
Marine litter	3
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
SWM industrial visit	3
Data collection	3
Analysis	3
Evaluation	3
Presentation	3
Total	15

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Hajee Karutha Rowther Howdia College,
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TEACHING PLAN

For the Academic Year 2024 – 25 (EVEN SEMESTER)

Department: Physics	**Programme: NME**

Course Code: 23PPHSE21	**Staff Name: Dr. S. Prasanna Subramanian**

Course Name: Medical Physics

Unit: I	
Topics to be covered	**No. of Hours**
Electromagnetic Spectrum – Production of X-Rays –	2
X-Ray Spectrum –Bremsstrahlung – Characteristic X-Ray	2
X-Ray Tubes – Coolidge Tube – X-Ray Tube Design	1
Thermistors – photo electric transducers – Photo voltaic cells – photo emissive cells – Photoconductive cells– piezoelectric transducer	1
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Introduction - sphygmomanometer	2
Measurement of heart rate - basic principles of electrocardiogram (ECG)	1
Basic principles of electroneurography (ENG)	2
Basic principles of magnetic resonance imaging (MRI)	1
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Absorbed Dose – Rad to Gray – KERMA – Relative Biological Effectiveness	1
Effective Dose – Sievert (Sv) – Inverse Square Law	2
Interaction of radiation with Matter – Linear Attenuation Coefficient	2
Radiation Detectors: Thimble Chamber – Condenser Chambers – Geiger Counter – Scintillation Counter	1
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Radiological Imaging – Radiography	2
Filters – Grids – Cassette – X-Ray Film – Film processing	1
Fluoroscopy – Computed Tomography Scanner – Principal Function – Display – Mammography	2
Ultrasound Imaging – Magnetic Resonance Imaging – Thyroid Uptake System – Gamma Camera (Only Principle, Function and display)	1
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Principles of Radiation Protection – Protective Materials	2
Radiation Effects – Somatic	1
Genetic Stochastic and Deterministic Effect – Personal Monitoring Devices	2
TLD Film Badge – Pocket Dosimeter	1
Total	**6**

Forwarded by

Dr. K. SHAHUL HAMEED
Dean

Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

Dr. T.K. THIRUMALAISAMY
HOD

Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

S. PRASANNA SUBRAMANIAN
Staff

Hajee Karutha Rowther Howdia College

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Physics	**Programme: II M.Sc Physics**

Course Code: 23PPHCC41	**Staff Name: R.Yoga & Dr.S.Prasanna Subramanian**

Course Name: Nuclear and Particle Physics

Unit: I	
Topics to be covered	**No. of Hours**
Liquid drop model – Weizacker mass formula – Isobaric mass parabola	3
Mirror Pair - Bohr Wheeler theory of fission – shell model – spin-orbit coupling	4
Magic numbers – angular momenta and parity of ground states – magnetic moment	4
Schmidt model – electric Quadrapole moment	3
Bohr and Mottelson collective model – rotational and vibrational bands	4
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Nucleon – nucleon interaction – Tensor forces – properties of nuclear forces	4
Ground state of deuteron – Exchange Forces - Meson theory of nuclear forces	3
Yukawa potential – nucleon-nucleon scattering	4
Effective range theory – spin dependence of nuclear forces	4
Charge independence and charge symmetry – isospin formalism.	3
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Kinds of nuclear reactions – Reaction kinematics – Q-value – Partial wave	4
Analysis of scattering and reaction cross section – scattering length	5
Compound nuclear reactions – Reciprocity theorem – Resonances	3
Breit Wigner one level formula – Direct reactions	3
Nuclear Chain reaction – four-factor formula.	3
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Beta decay – Continuous Beta spectrum – Fermi theory of beta decay - Comparative Half-life	5
Fermi Kurie Plot – mass of neutrino – allowed and forbidden decay	3
Neutrino physics – Helicity - Parity violation - Gamma decay – multipole radiations	4
Angular Correlation - internal conversion – nuclear isomerism	4
Angular momentum and parity selection rules.	2
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Classification of Elementary Particles – Types of Interaction and conservation laws –	4
Families of elementary particles - Isospin – Quantum Numbers	3
Strangeness – Hypercharge and Quarks –SU (2) and SU (3) groups-Gell Mann matrices	4
Gell Mann Okuba Mass formula-Quark Model	4
Standard model of particle physics – Higgs boson.	3
Total	**18**

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Dean

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Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

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HOD

Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

Dr. S. PRASANNA SUBRAMANIAN & R. YOGA
Staff

Hajee Karutha Rowther Howdia College
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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Physics	**Programme: II M.Sc Physics**
Course Code: 23PPHCC4P	**Staff Name: Ms. K. Roobini**
Course Name: Practical- IV	

Unit: I	
Topics to be covered	**No. of Hours**
(Minimum of Twelve Experiments from the list) 1. Determination of Thickness of air film. - Solar spectrum – Hartmann's formula. Edser and Butler fringes. 2. Determination of Solar constant 3. Determination of velocity and compressibility of a liquid using Ultrasonics Interferometer 4. Arc spectrum – Iron. 5. Determination of Diffraction pattern of light with circular aperture using Diode/He-Ne laser. 6. Measurement of Magnetic Susceptibility - Guoy's method 7. GM counter – Feather's analysis: Range of Beta rays 8. Study the beam divergence, spot size and intensity profile of Diode/He-Ne laser. 9. Determination of Refractive index of liquids using diode Laser/ He – Ne Laser 10. Molecular spectra – CN bands 11. Determination of Planck Constant – LED Method 12. Construction of Op-Amp- 4 bit Digital to Analog converter (Binary Weighted and R/2R ladder type) 13. Construction of square wave generator using IC 555 – Study of VCO 14. Study of Binary to Gray and Gray to Binary code conversion. 15. Construction of Encoder and Decoder circuits using ICs. 16. Study of synchronous parallel 4-bit binary up/down counter using IC 74193 17. Study of asynchronous parallel 4-bit binary up/down counter using IC 7493 18. Study of Modulus Counter 19. Construction of Multiplexer and Demultiplexer using ICs. 20. 8-bit addition and subtraction, multiplication and division using microprocessor 8085 21. Sum of a set of N data (8-bit number), picking up the smallest and largest number in an array. Sorting in ascending and descending orderusing microprocessor 8085 22. Code conversion (8-bit number): a) Binary to BCD b) BCD to binaryusing microprocessor 8085 23. Addition of multi byte numbers, Factorialusing microprocessor 8085	**60**

24. Clock program- 12/24 hours-Real time application – Six Digits Hexa Decimal and Decimal Counters using microprocessor 8085 25. Interfacing of LED – Binary up/down counter, BCD up/down counter and N/2N up/down counter using microprocessor 8085 26. Interfacing of seven segment display using microprocessor 8085 27. Interfacing of 8-bit R / 2R ladder DAC (IC 741) – Wave form generation – Square, Rectangular, Triangular, Saw tooth and Sine waves using microprocessor 8085 28. Interfacing of DC stepper motor – Clockwise, Anti-clockwise, Angular movement and Wiper action using microprocessor 8085 29. Interfacing of Temperature Controller and Measurementusing microprocessor 8085 30. Interfacing of Traffic light controller using microprocessor 8085	
Total Hours	**60**

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Dean

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Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

Ms. K. ROOBINI

Staff

Hajee Karutha Rowther Howdia College

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TEACHING PLAN

For the Academic Year 2024 – 25 (EVEN SEMESTER)

Department: Physics	**Programme: II M.Sc. (Physics)**
Course Code: 23PPHCC4D	**Staff Name: Dr. S. Prasanna Subramanian**
Course Name: Project	

Topics to be covered	No. of Hours
1. Fiber Optics soliton and its parameters 2. Develop skills on construction and fabrication of IoT devices. 3. Analyze the physical, chemical and biological properties of the materials using various analytical techniques 4. Correlate the theoretical and experimental results of various scientific methods 5. Development of super capacitor dielectric material 6. Discus research methodologies along with literature survey	150
Total	**150**

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Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
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Staff

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Physics	**Programme: II M.Sc Physics**
Course Code: 23PPHDE41	**Staff Name: R.Yoga**
Course Name: SPECTROSCOPY	

Unit: I	
Topics to be covered	**No. of Hours**
Rotational spectra of diatomic molecules - Rigid Rotor (Diatomic Molecules)-	3
Reduced mass – rotational constant - - Effect of isotopic substitution Non rigid rotator	2
Centrifugal distortion constant- Intensity of Spectral Lines- Polyatomic molecules : Linear – symmetric asymmetric top molecules	2
Hyperfine structure and quadrupole moment of linear molecules - Instrumentation techniques and Block diagram	3
Information Derived from Rotational Spectra- Stark effect- Problems.	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Vibrations of simple harmonic oscillator – zero-point energy- Anharmonic oscillator	3
fundamentals, overtones and combinations- Diatomic Vibrating Rotator- PR branch – PQR branch	2
Fundamental modes of vibration of H_2O and CO_2 -Introduction to application of vibrational spectra	2
IR Spectrophotometer Instrumentation (Double Beam Spectrometer) – Fourier Transform Infrared Spectroscopy - Interpretation of vibrational spectra	3
remote analysis of atmospheric gases like N2O using FTIR by National Remote Sensing Centre (NRSC), India– other simple applications	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**

Theory of Raman Scattering - Classical theory – molecular polarizability	3
Polarizability ellipsoid - Quantum theory of Raman effect - rotational Raman spectra of linear molecule	3
Symmetric top molecule – Stokes and anti-stokes line- SR branch -Raman activity of H_2O and CO_2	2
Mutual exclusion principle- determination of N_2O structure -Instrumentation technique and block diagram	2
Structure determination of planar and non-planar molecules using IR and Raman techniques – FT Raman spectroscopy- SERS	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Nuclear and Electron spin-Interaction with magnetic field - Population of Energy levels – Larmor precession- Relaxation times	2
Double resonance- Chemical shift and its measurement - NMR of Hydrogen nuclei - Indirect Spin -Spin Interaction	3
Interpretation of simple organic molecules - Instrumentation techniques of NMR spectroscopy NMR in Chemical industries- MRI Scan	2
Electron Spin Resonance: Basic principle –Total Hamiltonian (Direct Dipole-Dipole interaction and Fermi Contact Interaction) – Hyperfine Structure (Hydrogen atom)	3
ESR Spectra of Free radicals –g-factors – Instrumentation - Medical applications of ESR	2
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Origin of UV spectra - Laws of absorption – Lambert Bouguer law – Lambert Beer law – molar absorptivity	3
Transmittance and absorbance - Color in organic compounds- Absorption by organic Molecule	2
Chromophores -Effect of conjugation on chromophores - Choice of Solvent and Solvent effect	3
Absorption by inorganic systems - Instrumentation	2
Double beam UV-Spectrophotometer -Simple applications	2
Total	**12**

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Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

R. YOGA
Staff

Hajee Karutha Rowther Howdia College

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Physics	**Programme: II M.Sc Physics**
Course Code: 23PPHSE41	**Staff Name: Ms. K. ROOBINI**

Course Name: Characterization of Materials

Unit: I	
Topics to be covered	**No. of Hours**
Introduction, thermogravimetric analysis (TGA)	2
Instrumentation, determination of weight loss and decomposition products	3
Differential thermal analysis (DTA), cooling curves	2
Differential scanning calorimetry (DSC), instrumentation, specific heat capacity measurements, determination of thermomechanical parameters.	3
Specific heat capacity measurements, determination of thermomechanical parameters.	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Optical Microscopy: optical microscopy technique, Bright field optical microscopy	3
Dark field optical microscopy, Dispersion staining microscopy, phase contrast microscopy	3
Differential interference contrast microscopy, fluorescence microscopy	2
Digital holographic microscopy, oil immersion objectives	2
Quantitative metallography, image analyzer.	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
SEM: working principle and Instrumentation, sample preparation, Data collection, processing and analysis	2
EDAX: working principle and Instrumentation, sample preparation, Data collection, processing and analysis	3
EPMA: working principle and Instrumentation, sample preparation, Data collection, processing and analysis	2
TEM: working principle and Instrumentation, sample preparation, Data collection, processing and analysis	2
Scanning tunneling microscopy (STEM), Atomic force microscopy (AFM), Scanning new field optical microscopy.	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Two probe and four probe methods, van der Pauw method	3
Hall probe and measurement, scattering mechanism, C-V characteristics	3
Schottky barrier capacitance, impurity concentration	2
Electrochemical C-V profiling, limitations, Photoluminescence	2
Light – matter interaction, instrumentation, electroluminescence, instrumentation, Applications.	2
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Principles and instrumentation for UV-Vis-IR, FTIR spectroscopy	2
Raman spectroscopy, ESR, NMR, NQR, XPS, AES and SIMS-proton induced X-ray Emission spectroscopy (PIXE)	3
Rutherford Back Scattering (RBS) analysis-application, Powder diffraction	2
Powder diffractometer, interpretation of diffraction pattern, indexing - phase identification	3
Residual stress analysis, Particle size, texture studies, X-ray fluorescence spectroscopy, uses.	2
Total	**12**

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Dean
Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

DR. T. K. THIRUMALAISAMY
HOD
Dr.T.K.THIRUMALAISAMY M.Sc.,M.Phil.,Ph.D.,
Associate Professor & Head
PG and Research Department Of Physics,
Hajee Karutha Rowther Howdia College,
Uthamapalayam-625533

Prepared by

Ms. K. ROOBINI
Staff

Hajee Karutha Rowther Howdia College

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: I B.Sc., Chemistry**

Course Code: 23UCHCC21	**Staff Name: Dr. S. Sivakumar (Unit-1 & 5)** **Ms. A. Mumthaj (Unit-2 & 3)** **Dr. M. P. Kesavan (Unit- 4)**

Course Name: General Chemistry–II

Unit: I	
Topics to be covered	**No. of Hours**
Concepts of Acids and Bases - Arrhenius concept, Bronsted-Lowry concept Lewis concept; Relative strengths of acids, bases and dissociation constant; dissociation of poly basic acids, ionic product of water, pH scale, pH of solutions.	4
Degree of dissociation, common ion effect, factors affecting degree of dissociation; acid base indicators, theory of acid base indicators – action of phenolphthalein and methyl orange, titration curves - use of acid base indicators.	4
Buffer solutions – types, mechanism of buffer action in acid and basic buffer, Henderson-Hasselbalch equation; Salt hydrolysis - salts of weak acids and strong bases, weak bases and strong acids, weak acids and weak bases.	4
Hydrolysis constant, degree of hydrolysis and relation between hydrolysis constant and degree of hydrolysis; Solubility product - determination and applications; numerical problems involving the core concepts.	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Hydrogen: Position of hydrogen in the periodic table. Alkali metals: Comparative study of the elements with respect to oxides, hydroxides, halides, carbonates and bicarbonates.	4
Diagonal relationship of Li with Mg. Preparation, properties and uses of NaOH, Na_2CO_3, KBr, $KClO_3$ alkaline earth metals. Anomalous behaviour of Be.	4
Preparation and structure of diborane and borazine. Chemistry of borax. Extraction of Al and its uses. Alloys of Al.	3
Comparison of carbon with silicon. Carbon-di-sulphide – Preparation, properties, structure and uses. Percarbonates, per monocarbonates and per dicarbonates.	4
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
General characteristics of elements of Group 15; chemistry of H_2N-NH_2, NH_2OH, HN_3 and HNO_3. Chemistry of PH_3, PCl_3, PCl_5, $POCl_3$, P_2O_5 and oxyacids of phosphorous (H_3PO_3 and H_3PO_4).	4
General properties of elements of group16 - Structure and allotropy of elements - chemistry of ozone - Classification and properties of oxides - oxides of sulphur and selenium – Oxy acids of sulphur (Caro's and Marshall's acids).	4
Chemistry of Halogens: General characteristics of halogen with reference to electro-negativity, electron affinity, oxidation states and oxidizing power. Peculiarities of fluorine. Halogen acids (HF, HCl, HBr and HI), oxides and oxy acids ($HClO_4$). Inter-halogen compounds (ICl, ClF_3, BrF_5 and IF_7), pseudo halogens [$(CN)_2$ and $(SCN)_2$] and basic nature of Iodine.	5
Noble gases: Position in the periodic table. Preparation, properties and structure of XeF_2, XeF_4, XeF_6 and $XeOF_4$; uses of noble gases - clathratecompounds.	2
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Petroproducts: Fractional distillation of petroleum; cracking, isomerisation, alkylation, reforming and uses.	1
Alkenes: Nomenclature, general methods of preparation – Mechanism of β-elimination reactions – E1 and E2 mechanism - factors influencing – stereochemistry – orientation – Hofmann and Saytzeff rules. Reactions of alkenes – addition reactions – mechanisms – Markownikoff's rule, Kharasch effect, oxidation reactions – hydroxylation, oxidative degradation, epoxidation, ozonolysis; polymerization.	4
Alkadienes: Nomenclature - classification – isolated, conjugated and cumulated dienes; stability of conjugated dienes; mechanism of electrophilic addition to conjugated dienes - 1, 2 and 1, 4 additions; free radical addition to conjugated dienes– Diels–Alder reactions – polymerisation – polybutadiene, polyisoprene (natural rubber), vulcanisation, polychloroprene.	5
Alkynes: Nomenclature; general methods of preparation, properties and reactions; acidicnature of terminal alkynes and acetylene, polymerisation and isomerisation.	2
Cycloalkanes: Nomenclature, Relative stability of cycloalkanes, Bayer's strain theory and its limitations. Conformational analysis of cyclohexane, mono and di substituted cyclohexanes. Geometrical isomerism in cyclohexanes.	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Benzene: Source, structure of benzene, stability of benzene ring, molecular orbital picture of benzene, aromaticity, Huckel's (4n+2) rule and its applications.	2
Electrophilic substitution reactions - General mechanism of aromatic electrophilic substitution - nitration, sulphonation, halogenation, Friedel-Craft's alkylation and acylation.	4
Mono substituted and disubstituted benzene - Effect of substituent – orientation and reactivity.	2
Polynuclear Aromatic hydrocarbons: Naphthalene – nomenclature, Haworth synthesis; physical properties, reactions – electrophilic substitution reaction, nitration, sulphonation, halogenation, Friedel – Crafts acylation & alkylation, preferential substitution at - position – reduction, oxidation – uses.	4
Anthracene – synthesis by Elbs reaction, Diels – Alder reaction and Haworth synthesis; physical properties; reactions - Diels-Alder reaction, preferential substitution at C-9 and C-10; uses.	3
Total	**15**

Forwarded by

Dean

Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

HOD

Hajee Dr.M.KAMAL NASAR
Head & Associate Professor of Chemistry
HKRH College
Uthamapalayam-625533

Prepared by

Staff

Hajee Karutha Rowther Howdia College

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: I B.Sc. Chemistry**

Course Code: 23UCHCC2P	**Staff Name: Dr. M. Jannathul Firdhouse** **Ms. A. Soniya**

Course Name: Qualitative Organic Analysis and Preparation of Organic Compounds

	List of analysis to be conducted
1.	Safety rules, symbols and first-aid in chemistry laboratory - Basic ideas about Bunsen burner, its operation and parts of the flame. Chemistry laboratory glassware – basis information and uses.
2.	**Qualitative Organic Analysis** Preliminary examination, detection of special elements - nitrogen, sulphur and halogens. Aromatic and aliphatic nature, Test for saturation and unsaturation, identification of functional groups using solubility tests, Confirmation of functional groups. • monocarboxylic acid, dicarboxylic acid • monohydric phenol, polyhydric phenol • aldehyde, ketone, ester • carbohydrate (reducing and non-reducing sugars) • primary, secondary, tertiary amine • monoamide, diamide, thioamide • anilide, nitro compound Preparation of derivatives for functional groups

3.	**Preparation of Organic Compounds** • Nitration - picric acid from Phenol • Halogenation - p-bromo acetanilide from acetanilide • Oxidation - benzoic acid from Benzaldehyde • Microwave assisted reactions in water: • Methyl benzoate to Benzoic acid • Salicylic acid from Methyl Salicylate • Rearrangement - Benzil to Benzilic Acid • Hydrolysis of benzamide to Benzoic Acid **Separation and Purification Techniques** • Purification of organic compounds by crystallization (from water /alcohol) and distillation • Determination of melting and boiling points of organic compounds. • **Steam distillation** - Extraction of essential oil from citrusfruits/eucalyptus leaves. • **Chromatography** Separation of amino acids by Paper Chromatography Thin Layer Chromatography - mixture of sugars / plant pigments / permanganatedichromate. Column Chromatography - extraction of carotene, chlorophyll and xanthophyll from leaves / separation of anthracene - anthracene picrate. • **Electrophoresis** – Separation of amino acids and proteins. • Isolation of casein from milk / Determination of saponification value of oil or fat / Estimation of acetic acid from commercial vinegar.
	Total hours: 45

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Verified by

HOD
Hajee Dr.M.KAMAL NASAR
Head & Associate Professor of Chemistry
HKRH College
Uthamapalayam-625533

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme:** B.Sc. Zoology

Course Code: 23UCHGE21	**Staff Name:** Dr. N.M. Abdul Khader Jailani (Unit II, IIIA & V) Dr. M.P. Kesavan (Unit I, IIIB & IV)

Course Name: Chemistry for Biological Sciences-II

Unit: I	
Topics to be covered	**No. of Hours**
Co-ordination Chemistry: Definition of terms - IUPAC Nomenclature - Werner's theory-EAN rule.	3
Pauling's theory–Postulates-Applications to $[Ni(CO)_4]$,$[Ni(CN)_4]^{2-}$,$[Co(CN)_6]^{3-}$.	3
Chelation Biological role of Hemoglobin and Chlorophyll (elementary idea) - Applications in qualitative and quantitative analysis.	3
Water Technology: Hardness of water, determination of hardness of water using EDTA method, zeolite method-Purification techniques –BOD and COD.	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Carbohydrates: Classification, preparation and properties of glucose and fructose.	3
Discussion of open chain ring structures of glucose and fructose.	3
Glucose-fructose interconversion.	2
Preparation and properties of sucrose, starch and cellulose.	4
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Amino Acids - Classification - preparation and properties of alanine, preparation of dipeptides using Bergmann method.	3
Proteins- classification – structure - Colour reactions – Biological functions.	3
Nucleosides -nucleotides – RNA and DNA – structure.	3
Essentials of trace metals in biological system-Na, Cu, K, Zn, Fe, Mg.	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Electrochemistry - Galvanic cells - Standard hydrogen electrode - calomel electrode - standard electrode potentials -electrochemical series.	3
Strong and weak electrolytes - ionic product of water -pH, pKa, pKb.	3
Conductometric titrations - pH determination by colorimetric method – buffer solutions and its biological applications.	3
electroplating - Nickel and chrome plating – Types of cells -fuel cells-corrosion and its prevention.	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Photochemistry - Grothus - Drapper's law and Stark-Einstein's law of photochemical Equivalence.	3
Quantum yield - Hydrogen-chloride reaction.	3
Phosphorescence, fluorescence, chemiluminescence and photosensitization and photosynthesis (definition with examples).	6
Total	**12**

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HOD
Hajee Dr.M.KAMAL NASAR
Head & Associate Professor of Chemistry
HKRH College
Uthamapalayam-625533

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme:** B.Sc. Zoology

Course Code: 23UCHGE2P	**Staff Name:** Dr. N.M. Abdul Khader Jailani Dr. M.P. Kesavan

Course Name: Chemistry Practical for Physical and Biological Sciences-II

Topics to be covered	No. of Hours
The analysis must be carried out as follows: Functional group tests [phenol, acids (mono & di) aromatic primary amine, amides (mono & di), aldehyde and glucose].	20
Detection of elements (N, S, Halogens).	6
To distinguish between aliphatic and aromatic compounds.	2
To distinguish–Saturated and unsaturated compounds.	2
Total	**30**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: B. Sc. Chemistry**

Course Code: 23UCHSE21	**Staff Name: Ms. A. Soniya (Unit- I to V)**

Course Name: Dairy Chemistry

Unit: I	
Topics to be covered	**No. of Hours**
Composition of Milk: Milk-definition-general composition of milk- constituents of milk - lipids, proteins, carbohydrates, vitamins and minerals.	2
Physical properties of milk - colour, odour, acidity, specific gravity, viscosity and conductivity- Factors affecting the composition of milk.	2
Adulterants, preservatives with neutralizer- examples and their detection- estimation of fat, acidity and total solids in milk.	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Processing of Milk: Microbiology of milk - destruction of micro - organisms in milk, physico – chemical changes taking place in milk due to processing – boiling.	3
Pasteurization – types of pasteurization - Bottle, Batch and HTST (High Temperature Short Time) – Vacuum pasteurization – Ultra High Temperature Pasteurization.	3
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Major Milk Products: Cream - definition - composition - chemistry of creaming process - gravitational and centrifugal methods of separation of cream - estimation of fat in cream.	2
Butter - definition -composition - theory of churning – desi butter - salted butter, estimation of acidity and moisture content in butter.	2
Ghee - major constituents - common adulterants added to ghee and their detection - rancidity - definition - prevention - antioxidants and synergists - natural and synthetic.	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Special Milk: Standardised milk - definition - merits - reconstituted milk - definition - flow diagram of manufacture - Homogenised milk - flavoured milk.	3
Vitaminised milk - toned milk -Imitation milk - Vegetable toned milk - humanized milk - condensed milk - definition, composition and nutritive value.	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Fermented and other Milk Products: Fermented milk products – fermentation of milk - definition, conditions, cultured milk - definition of culture - example, conditions.	2
Cultured cream, butter milk - Bulgarious milk – acidophilous milk – Yoheer, Indigeneous products- khoa and chhena - definition - Ice cream - definition -percentage composition –types -ingredients- manufacture of ice–cream	3
stabilizers –emulsifiers and their role – milk powder- definition- need for making milk powder- drying process -types of drying.	1
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: I B.Sc. Chemistry**

Course Code: 23UCHSE22	**Staff Name: Ms. A. Ismath Raihana (Unit- I, II & V-A) . Ms. A. Soniya (Unit- III, IV & V-B)**

Course Name: Cosmetics and Personal Care Products

Unit: I	
Topics to be covered	**No. of Hours**
Skin care: Nutrition of the skin, skin care and cleansing of the skin; face powder – ingredients; creams and lotions – cleansing, moisturizing all purpose, shaving and sunscreen (formulation only).	4
Gels – formulation and advantages; astringent and skin tonics – key ingredients, skin lightness, depilatories.	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Hair care: Shampoos – types – powder, cream, liquid, gel – ingredients; conditioner - types – ingredients.	3
Dental care: Tooth pastes – ingredients – mouth wash.	3
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Make Up: Base – foundation – types – ingredients.	3
Lipstick, eyeliner, mascara, eyeshadow, concealers, rouge.	3
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Perfumes: Classification - Natural – plant origin – parts of the plant used, chief constituents; animal origin – amber gries from whale, civetone from civet cat, musk from musk deer.	4
Synthetic – classification emphasizing characteristics – esters – alcohols – aldehydes – ketones.	2
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Facials - types – advantages – disadvantages; face masks – types; bleach - types – advantages – disadvantages.	2
Shaping the brows; eyelash tinting; perming - types; hair colouring and dyeing; permanent waving – hair straightening.	3
Wax - types – waxing; pedicure, manicure - advantages – disadvantages.	1
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: II B.Sc., Chemistry**

Course Code: 23UCHCC41	**Staff Name: Dr. K. Shahul Hameed (Unit-1, 2 & 3-A)** **Dr. S. Sivakumar (Unit- 3-B, 4 & 5)**

Course Name: General Chemistry–IV

Unit: I	
Topics to be covered	**No. of Hours**
Terminology – Intensive, extensive variables, state, path functions; isolated, closed and open systems; isothermal, adiabatic, isobaric, isochoric, cyclic, reversible and irreversible processes; First law of thermodynamics – Concept and significance of heat (q), work (w), internal energy (E), enthalpy (H).	4
Calculations of q, w, E and H for reversible, irreversible expansion of ideal and real gases under isothermal and adiabatic conditions; relation between heat capacities (Cp & Cv); Joule Thomson effect- inversion temperature.	3
Thermochemistry - heats of reactions, standard states; types of heats of reactions and their applications; effect of temperature (Kirchhoff's equations) and pressure on enthalpy of reactions.	2
Hess's law and its applications; determination of bond energy; Measurement of heat of reaction – determination of calorific value of food and fuels. Zeroth law of thermodynamics - Absolute Temperature scale.	3
Total	**12**
Unit: II	
Topics to be covered	**No. of Hours**
Second Law of thermodynamics - Limitations of first law, spontaneity and randomness; Carnot's cycle; Concept of entropy, entropy change for reversible and irreversible processes, entropy of mixing, calculation of entropy changes of an ideal gas and a van der Waals gas with changes in temperature, volume and pressure, entropy and disorder.	4
Free energy and work functions - Need for free energy functions, Gibbs free energy, Helmholtz free energy - their variation with temperature, pressure and volume, criteria for spontaneity; Gibbs-Helmholtz equation – derivations and applications; Maxwell relationships, thermodynamic equations of state;	4
Thermodynamics of mixing of ideal gases, Ellingham Diagram-application. Third law of thermodynamics - Nernst heat theorem; Applications of third law - evaluation of absolute entropies from heat capacity measurements, exceptions to third law.	4
Total	**12**
Unit: III	
Topics to be covered	**No. of Hours**
Transition Elements - Electronic configuration - General periodic trend variable valency, oxidation states, stability of oxidation states.	4
Colour, magnetic properties, catalytic properties and tendency to form complexes.	2

Comparative study of transition elements and non-transition elements – comparison of II and III transition series with I transition series.	3
Group study of Titanium, Vanadium, Chromium, Manganese, Iron, Cobalt, Nickel and Zinc groups.	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Nomenclature, isomerism, general methods of preparations, reactions involving cleavage of C-O linkages, alkyl group and ethereal oxygen. Zeisel's method of estimation of methoxy group.	2
Reactions of epoxides with alcohols, ammonia derivatives and $LiAH_4$. Thioethers - nomenclature, structure, preparation, properties and uses.	2
Nomenclature, structure and reactivity of aliphatic and aromatic aldehydes and ketones; general methods of preparation and physical properties.	2
Nucleophilic addition reactions, base catalysed reactions with mechanism- Aldol, Cannizzaro's reaction, Perkin reaction, Benzoin condensation, Haloform reaction, Knoevenagel reaction.	2
Oxidation of aldehydes. Baeyer - Villiger oxidation of ketones. Reduction: Clemmensen reduction, Wolf-Kishner reduction, Meerwein – Pondorf Verley reduction,	2
Reduction with $LiAlH_4$ and $NaBH_4$. Addition reactions of unsaturated carbonyl compounds: Michael addition.	2
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Nomenclature, structure, preparation and reactions ofaliphatic and aromatic monocarboxylic acids. Physical properties, acidic nature, effect of substituent on acidic strength. HVZ reaction, Claisen ester condensation, Bouveault Blanc reduction, decarboxylation, Hunsdiecker reaction. Formic acidreducing property. Reactions of dicarboxylic acids, hydroxy acids and unsaturated acids.	3
Preparations of aliphatic and aromatic acid chlorides, esters, amides and anhydrides. Nucleophilic substitution reaction at the acyl carbon of acyl halide, anhydride, ester, amide. Schottan- Baumann reaction. Claisen condensation, Dieckmann and Reformatsky reactions, Hofmann bromamide degradation and Curtius rearrangement.	3
Keto – enol tautomerism. Preparation and synthetic applications of diethyl malonate and ethyl acetoacetate.	2
Nomenclature; preparation by direct halogenation, iodination from unsaturated acids, alkyl malonic acids.	2
Nomenclature; preparation from halo, amino, aldehydic and ketonic acids, ethylene glycol, aldol acetaldehyde; reactions – action of heat on α, β and γ-hydroxy acids.	2
Total	**12**

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Verified by

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: B.Sc., Chemistry**
Course Code:23UCHCC4P	**Staff Name: Dr. S. Sivakumar** **Ms. A. Mumthaj**
Course Name: PHYSICAL CHEMISTRY PRACTICAL-I	

Topics to be covered

1. Determination of rate constant of acid catalysed hydrolysis of an ester (methyl acetate).
2. Determination of order of reaction between iodide and persulphate(initial rate method).
3. Polarimetry: Determination of rate constant of acid catalysedinversion of cane sugar
4. Determination of heat of neutralisation of a strong acid by a strongbase.
5. Determination of heat of hydration of copper sulphate.
6. Determination of cell constant.
7. Determination of molar conductance of strong electrolyte.
8. Determination of dissociation constant of acetic acid.
9. Determination of concentration of copper sulphate solution.
10. Determination of molecular weight of an organic compound by Rast method using naphthalene or diphenyl as solvent.
11. Construction of Freundlich isotherm for the adsorption of aceticacid on activated charcoal.

Total Hours: 45

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: B.Sc., Physics**

Course Code: 23UCHGE41	**Staff Name: Ms. A. Mumthaj (Unit III, IV & V)** **Ms. A. Ismath Raihana (Unit I,II & V)**

Course Name: CHEMISTRY FOR PHYSICAL SCIENCES -II

Unit: I	
Topics to be covered	**No. of Hours**
Co-ordination Chemistry: Definition of terms-IUPAC Nomenclature-Werner's theory-EAN rule-Pauling's theory–Postulates	3
Applications to $[Ni(CO)_4]$,$[Ni(CN)_4]^{2-}$,$[Co(CN)_6]^{3}$ Chelation Biological role of Hemoglobin and Chlorophyll(elementary idea)	3
Applications in qualitative and quantitative analysis.	2
Water Technology: Hardness of water, determination of hardness of water using EDTA method, zeolite method	2
Purification techniques –BOD and COD.	2
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Carbohydrates: Classification, preparation and properties of glucose, fructose and sucrose	3
Discussion of open chain ring structures of glucose and fructose	3
Glucose–fructose interconversion. Glucose–fructose interconversion	2
Properties of starch and cellulose. Amino acids: Classification-preparation and properties of alanine	2
Preparation of dipeptides using Bergmann method. RNA and DNA (elementary idea only).	2
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Galvanic cells-Standard hydrogen electrode-calomel electrode-standard electrode potentials	3
Electrochemical series. Strong and weak electrolytes- ionic product of water-pH, pKa, pKb	3
Conductometric titrations - pH determination by colorimetric method	2
Buffer solutions and its biological applications-electroplating-Nickel and chrome plating	2
Types of cells-fuel cells-corrosion and its prevention.	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Order and molecularity, Integrated rate expression for I and II (2AProducts) order reactions	3
Pseudo first order reaction, methods of determining order of a reaction	3
Half-life period – Catalysis –homogeneous and heterogeneous	2
Catalyst used in Contact and Haber's processes.	2
Concept of energy of activation and Arrhenius equation.	2
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Grothus-Draper's law and Stark-Einstein's law of photochemical equivalence	3
Quantum yield-Hydrogen-chloride reaction.	3
Phosphorescence, fluorescence	3
Chemiluminescence and photosensitization and photosynthesis (definition with examples).	3
Total	**12**

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K. Shahul

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Prepared by

A. Mumthaj

A. Ismail

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: II B.Sc., Physics**
Course Code: 23UCHGE4P	**Staff Name: Dr. K. Shahul Hameed** **Mr. G. Arivalagan**
Course Name: Chemistry Practical for Physical and Biological Sciences-II	

Systematic Analysis of Organic Compounds
The analysis must be carried out as follows: • Functional group tests [phenol, acids (mono & di) aromatic primary amine, amides (mono & di), aldehydeand glucose]. • Detection of elements (N, S, Halogens). • To distinguish between aliphatic and aromaticcompounds. • To distinguish – Saturated and unsaturated compounds.
Total hours: 30

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: II B.Sc. Chemistry**

Course Code: 23UCHSE41	**Staff Name: Dr. M. Jannathul Firdhouse (Unit – I to V)**

Course Name: Instrumental Methods of Chemical Analysis

Unit: I	
Topics to be covered	**No. of Hours**
S.I Units, Distinction between Mass and Weight. Moles, Millimoles, Milli equivalence, Molality, Molarity, Normality, Percentage by Weight and Volume, ppm, ppb. Density and Specific Gravity of Liquids. Stoichiometry Calculations.	2
Sampling, evaluation of analytical data, Errors – Types of Errors, Accuracy, Precision, Minimization of Errors. Significant Figures.	2
Methods of Expressing Precision: Mean, Median, Average Deviation, Standard Deviation, Coefficient of Variation, Confidence Limits, Q- test, F-test, T-test. The Least Square Method for Deriving Calibration plots.	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Atomic Absorption Spectroscopy: Basic principles of instrumentation (choice of source, monochromator, detector, choice of flame and Burner designs. Techniques of atomization and sample introduction;	2
Method of background correction, sources of chemical interferences and their method of removal.	2
Techniques for the quantitative estimation of trace level of metal ions from water samples.	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Origin of spectra, interaction of radiation with matter, fundamental lawsof spectroscopy and selection rules, validity of Beer-Lambert's law.	2
UV-Visible Spectrometry: Basic principles, instrumentation (choice of source, monochromator and detector) for single and double beam instrument; Basic principles of	2

quantitative analysis: estimation of metal ions from aqueous solution, geometrical isomers, keto-enol tautomers.	
Infrared Spectroscopy: Basic principles of instrumentation (choice of source, monochromator & detector) for single and double beam instrument; sampling techniques.	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
TGA and DTA- Principle, Instrumentation, methods of obtaining Thermograms, factors affecting TGA/DTA	2
Thermal analysis of silver nitrate, calcium oxalate and calcium acetate. DSC- Principle, Instrumentation and applications.	2
Electroanalytical methods: polarography - principle, instrumentation and applications. Derivative polarography- Cyclic Voltammetry - principle.	2
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Classification, principle, Factors affecting - Solvent Extraction – Liquid - Liquid Extraction.	2
Chromatography: Column, TLC, Paper – Principle, Classification, Choice of Adsorbents, Solvents, Preparation of Column, Elution and Mechanism of separation: adsorption, partition & ion exchange. Development of chromatograms and Rf value.	2
Chromatography: Gas, HPLC and Electrophoresis – Principle, Classification, Choice of Adsorbents, Solvents, Preparation of Column, Elution and Mechanism of separation: adsorption, partition & ion exchange. Development of chromatograms and Rf value.	2
Total	**6**

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Department: Chemistry	**Programme: II B.Sc. Chemistry**

Course Code: 23UCHSE42	**Staff Name: Dr. M. Jannathul Firdhouse (Unit – I to V)**

Course Name: Forensic Science

Unit: I	
Topics to be covered	**No. of Hours**
Poisons - types and classification - diagnosis of poisons in the living and the dead -clinical symptoms - postmortem appearances.	**2**
Heavy metal contamination (Hg, Pb, Cd) of sea foods - use of neutron activation analysis in detecting arsenic in human hair.	**2**
Treatment in cases of poisoning – use of antidotes for common poisons.	**2**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Crime Detection -Accidental explosion during manufacture of matches and fireworks (as in Sivakasi).	**2**
Human bombs - possible explosives (gelatin sticks and RDX)	**2**
Metal detector devices and other security measures for VVIP- composition of bullets and detecting powder burns.	**2**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Forgery and Counterfeiting - Documents - different types of forged signatures - simulated and traced forgeries -inherent signs of forgery methods	**2**
writing deliberately modified - uses of ultraviolet rays -comparison of type written letters – checking silver line water mark in currency notes	**2**
alloy analysis using AAS todetect counterfeit coins – detection of gold purity in 22 carat ornaments – detecting gold plated jewels -authenticity of diamond.	**2**
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Tracks and traces - small tracks and police dogs - foot prints - costing of foot prints -residue prints, walking pattern or tyre marks	2
miscellaneous traces and tracks – glass fracture - tool marks - paints - fibres - Analysis of biological substances - blood, semen, saliva, urine and hair -	2
Cranial analysis (head and teeth) DNA Finger printing for tissue identification in dismembered bodies - detecting steroid consumption in athletes and racehorses.	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Aids - causes and prevention - misuse of scheduled drugs - burns and their treatment by plastic surgery. Metabolite analysis using mass spectrum - Gas chromatography.	2
Arson -natural fires and arson - burning characteristics and chemistry of combustible materials -nature of combustion.	2
Ballistics - classification - internal and terminal ballistics - small arms -laboratory examination of barrel washing and detection of powder residue by chemical tests.	2
Total	6

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: B.Sc., Chemistry**

Course Code: 23UGEVS41	**Staff Name : Ms. A. Ismath Raihana (Unit I,II,III IV & V)**

Course Name: ENVIRONMENTAL STUDIES

Unit: I	
Topics to be covered	**No. of Hours**
Earth and its Environment: a) Earth - formation and Evolution of Earth over time - structure of Earth and its components – Atmosphere, Lithosphere, Hydrosphere and Biosphere.	**4**
b) Resources – renewable and nonrenewable resources	**2**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Ecology and ecosystem concepts: a) Ecology - definition - Ecosystem: Definition - structure and function - energy flow -food chain and Food web - one example for an ecosystem	**3**
b) Biogeochemical cycles – Nitrogen, carbon, Phosphorous and Water	**3**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Biodiversity of India: a) Introduction - definition - Values of Biodiversity -Threat to Biodiversity - Conservation of Biodiversity	2
b) Biodiversity of India - as a mega diversity nation – bio - geographical distribution - Hot spots of biodiversity -National Biodiversity Conservation Board and its function	4
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Pollution and Global issues: a) Definition, causes, effects and control measures of Air, Water, Soil, Marine, Noise, Thermal and Nuclear pollution	4
b) Global issues: Global Warming and Ozone Layer Depletion	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Development and Disaster Management: a) Sustainable Development - Sustainable Agriculture - Organic farming, Irrigation - Water harvesting and Waste recycling - Cyber waste and management	3
b) Disaster Management – Flood and Drought – Earthquake and Tsunami – Landslides and Avalanches – Cyclones and Hurricanes –Precautions,Warnings, Rescue and Rehabilitation.	3
Total	6

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: III B.Sc., Chemistry**

Course Code: 20UCHC61	**Staff Name: Hajee. Dr. M. Kamal Nasar (Unit: 5)** **Dr. S. Sivakumar (Unit: 1-A, 2 & 4)** **Mr. G. Arivalagan (Unit: 1-B & 3)**

Course Name: Organic Chemistry-II

Unit: I	
Topics to be covered	**No. of Hours**
General methods of preparation and properties of cycloalkanes – Baeyer's strain theory and its modification.	4
Conformational analysis: Difference between configuration and conformation - Fischer, Sawhorse and Newmann projection formulae	3
Conformational analysis of ethane, n-butane, 1, 2-dichloroethane, cyclohexane and monosubstituted cyclohexane - Civetone and Muscone: Structure only (no Structural elucidation).	5
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Heterocyclic compounds: Synthesis and properties of pyrrole, pyridine, quinoline and isoquinine.	5
Alkaloids: Definition- Occurrence and extraction of alkaloids – general methods for determining the structure of alkaloids – classification of alkaloids	3
Structure and synthesis of following alkaloids – coniine, piperine, nicotine and papavarine.	4
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Intermolecular and Intramolecular Rearrangements-Detailed mechanism of the following: Pinacol-pinacolone, Hofmann, Curtius, benzyl – benzilic acid, Claisen, rearrangements.	7
Benzidine, Beckmann, Fries Wagner – Meerwein - McLafferty, Favorsky, Lossen, Wallach rearrangements.	5
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Definition – examples - Grignard reagents – preparation, general characteristics and synthetic applications.	6
Organolithium compounds - Organolead compound (tetraethyl lead) – preparation, properties and used as an anti-knock.	6
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Classification – synthesis – properties of amino acids – action of heat, dipolar ion, iso-electric point, Zwitter ion and Ruhemann's purple.	4
Definition – classification and biological functions of proteins – color reactions of proteins – primary, Secondary, tertiary and quaternary structure of proteins (An elementary idea only).	5
Definition – nucleosides – nucleotides – RNA and DNA (General structure).	3
Total	**12**

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Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

HOD
Hajee Dr.M.KAMAL NASAR
Head & Associate Professor of Chemistry
HKRH College
Uthamapalayam-625533

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme:** B.Sc. Chemistry

Course Code: 20UCHC62	**Staff Name:** Dr. N.M. Abdul Kader Jailani (Unit I, II & III) Dr. K. Shahul Hameed (Unit IV & V)

Course Name: Physical Chemistry-III

Unit: I	
Topics to be covered	**No. of Hours**
Definition – conductance, specific conductance, equivalent conductance and molar conductance – factors affecting conductance of a solution.	4
Strong and weak electrolytes – variation of equivalent conductance with dilution. Debye-Huckel theory of strong electrolytes –Debye-Huckel Onsager equation.	6
Kohlrausch's law of independent migration of ions and its applications.	2
Transport number – determination of transport number by Hittorf's method and moving boundary method.	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Electrolytic and galvanic cells–Reversible and irreversible cells. Conventional representation of electrochemical cells.	3
Electromotive force of a cell and its measurements – Computation of cell e.m.f.- Calculation of thermodynamic quantities of cell reactions (ΔG, ΔH, ΔS and K) problems.	4
Derivation of Nernst equation, single electrode potential and Applications of Nernst equation standard electrode potentials- Electrochemical series and its significance.	3
Types of reversible electrodes – construction- cell reaction with Nernst equation - Reference electrodes- standard hydrogen electrode and calomel electrode-Western Cadmium cell.	5
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Concentration cells – e.m.f of concentration cells with and without transference and	4

its derivation – liquid junction potential and its derivation.	
Commercial cells - primary and secondary cells – dry cell – lead storage cell – Ni-Cd cell – fuel cell – H_2O_2 cell.	5
Applications of emf measurements - Determination of pH using hydrogen electrode, glass electrode and quinhydrone electrode - Determination of transport number - Potentiometric titrations – acid, base and redox titrations.	6
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Definition of spectrum. Electromagnetic radiation, quantization of different forms of energies in molecules (translational, rotational vibrational and electronic).	3
Microwave spectroscopy: Rotational spectra of diatomic molecules treated as rigid rotator, condition for a molecule to be active in microwave region, rotational constants (B), and selection rules for rotational transition. Frequency of spectral lines, calculation of inter - nuclear distance in diatomic molecules.	6
UV-Visible spectroscopy – types of electronic transitions – Franck Condon principle-pre dissociation spectra and dissociation energy. Applications related to concentration determination.	6
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Infrared spectroscopy – modes of vibration of diatomic, tri-atomic linear (CO2) and non- linear tri-atomic (H2O) molecules.	3
Stretching and bending vibrations - selection rules, expression for vibrational frequency (derivation not needed). Calculation of force constant.	3
Raman spectroscopy-conditions -Rayleigh and Raman scattering, selection rules Classical and quantum theory - Stokes and Antistokes lines. Differences between Raman and IR spectroscopy.	5
Rotational Raman spectra of non-centrosymmetric molecule (HCl only). Mutual exclusion principle (CO_2 and N_2O).	4
Total	**15**

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(Autonomous)
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Verified by

HOD

Hajee Dr.M.KAMAL NASAR
Head & Associate Professor of Chemistry
HKRH College
Uthamapalayam-625533

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: III B.Sc., Chemistry**

Course Code: 20UCHC63	**Staff Name: Hajee. Dr. M. Kamal Nasar (Unit I)** **Dr. M. Jannathul Firdhouse (III, IV & V A)** **Ms. A. Ismath Raihana (II & V B)**

Course Name: Spectroscopy and its Applications

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to spectroscopy: Regions of spectroscopy. UV Spectroscopy: Introduction, Type of electronic transitions	**4**
absorption law – Lamberts-Beer's law – bathochromic shift and hypsochromic shift –hyper chromic and hypochromic effect	**4**
applications of UV to organic compounds – Woodward-Fisher rule – Calculation of λmax for dienes and α, β-unsaturated carbonyl compounds.	**4**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Introduction: Instrumentation – Mode of vibration – Fundamental, Overtone, combination bands, Difference bands and Fermi resonance – finger print region.	**4**
Applications of IR to organic compounds – effect of hydrogen bond, Geometrical isomers.	**4**
Determination of bond length and ring strain - Number of vibrational modes for linear and non-linear molecules.	**4**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
$^{1}H_{1}$ NMR Spectroscopy-I: Introduction – Nuclear spin - Principles of NMR-Spin angular	**4**

momentum	
-Larmour frequency -chemical shift–TMS used as standard - shielding and deshielding effects –	4
factors influencing chemical shift – solvent used – splitting of signals – spin-spin splitting– Pascal's triangle.	4
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
$^1H_1$ NMR Spectroscopy-II: Coupling constants –Vicinal, Geminal and Long-range coupling - factors influencing coupling constants	4
NMR spectra of ethanol and anisole – first and second order spectra – conversion of second order spectra to first order spectra	4
spin decoupling, chemical shift reagents, increasing the field strength, deuterium exchange - Nuclear Overhauser effect.	4
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Mass Spectrometry: Basic principle – theory – determination of molecular formula – general fragmentation modes – simple cleavage – homolytic and heterolytic cleavage	4
presence of sulphur, nitrogen and halogens– mass spectrum of ethanol, n-hexane, methyl salicylate – ortho effect.	4
Simple Problems involving the application of UV, IR, 1H1 NMR spectroscopy and Mass Spectrometry.	4
Total	**12**

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Verified by

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HKRH College
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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: III B.Sc. Chemistry**
Course Code: 20UCHC6P	**Staff Name: Hajee. Dr. M. Kamal Nasar** **Dr. M. Jannathul Firdhouse**
Course Name: Gravimetric Estimation and Organic Preparation	

	List of experiments to be conducted
1.	**I. Gravimetric Analysis** 1. Estimation of lead as lead chromate 2. Estimation of barium as barium chromate
2.	3. Estimation of calcium as calcium oxalate monohydrate 4. Estimation of copper as cuprous thiocyanate 5. Estimation of nickel as NiDMG.
3.	II. **Organic Preparation / Separation** 1. Nitration a) m-dinitrobenzene from nitrobenzene b) Picric acid from phenol 2. Bromination: p-bromoacetanilide from acetanilide 3. Hydrolysis: Aromatic acid from (a) an ester (b) an amide
4.	4. Oxidation: Benzoic acid from benzaldehyde. 5. Benzoylation: (a) Amine (b) phenols 6. Acetylation: (a) Amine (b) phenols
	Total hours: 45

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: III B.Sc., Chemistry**
Course Code: 20UCHC6Q	**Staff Name: Dr. K. Shahul Hameed** **Dr. S. Sivakumar**
Course Name: Organic Analysis and Estimation	

List of analysis to be conducted
I. Organic Analysis Analysis of an organic compound containing one or two functional groups and confirmation by the preparation of a solid derivative - acids, phenols, aldehydes, ketones, esters, nitro compounds, amines (primary, secondary and tertiary). Analysis of an organic compound containing one or two functional groups and confirmation by the preparation of a solid derivative - anilides, aliphatic diamide, side chain and nuclear halogen compounds, aliphatic diamide containing Sulphur and monosaccharides.
II. Organic Estimation a. Estimation of phenol b. Estimation of aniline c. Estimation of glucose
Total hours: 45

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K. Shahul

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Dr.K.SHAHUL HAMEED,Ph.D.,
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Verified by

HOD
Hajee Dr.M.KAMAL NASAR
Head & Associate Professor of Chemistry
HKRH College
Uthamapalayam-625533

Prepared by

1. K. Shahul
2. S. Sivakumar

Staff

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TEACHING PLAN

For the Academic Year 2024–25 (EVEN SEMESTER)

Department: Chemistry	**Programme:** B.Sc. Chemistry

Course Code: 20UCHC6R	**Staff Name:** Dr. N.M. Abdul Khader Jailani Dr. M.P. Kesavan

Course Name: Physical Chemistry Practical

S. No.	List of experiments to be conducted
1.	**Determination of molecular weight by** a. Transition temperature method – sodium thiosulphate pentahydrate, strontium chloride hexahydrate and sodium acetate trihydrate. b. Cryoscopic method – Rast method – camphor and naphthalene.
2.	**Phase diagram involving** a. Simple eutectic and b. Compound formation
3.	**Critical solution temperature** Determination of CST of phenol – water system and effect of impurity on CST - strength of Sodium chloride.
4.	**Thermochemistry** Heat of solution –potassium dichromate, ammonium oxalate and oxalic acid.
5.	**Viscosity** Determination of the composition of an unknown mixture.
6.	**Partition co-efficient experiments** a. Study of the equilibrium constant for the reaction $KI + I_2 \rightarrow KI_3$, By determining the partition co-efficient of iodine between water and carbon tetrachloride. b. Determination of strength of given KI c. Determination of association factor of benzoic acid in benzene.
7.	**Kinetics** Determination of relative strength of acids by a. Acid catalyzed hydrolysis of ester. b. Inversion of cane sugar.
8.	Potentiometric Titration: To determine the strength of KMnO4 solution by potentiometric method using standard FAS solution.
9.	**Electrochemistry** ***a. Conductivity*** i. Determination of cell constant of the cell and equivalent conductance of solution. ii. Conductivity titration between an acid and a base (HCl Vs NaOH)

	b. Potentiometric titrations i. $KMnO_4$ Vs $FeSO_4$ ii. $K_2Cr_2O_7$ Vs $FeSO_4$ iii. HCl Vs NaOH.
Total Hours: 45	

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme:** B.Sc. Chemistry

Course Code: 20UCHE61	**Staff Name:** Ms. A. Mumthaj (Unit I, II & IIIA) Dr. M.P. Kesavan (Unit IIIB, IV & V)

Course Name: Green Chemistry

Unit: I	
Topics to be covered	**No. of Hours**
Definition- need of green chemistry- planning a green synthesis in a chemical laboratory.	3
Solvent-less reaction- Selection of appropriate solvent- Prevention of Waste/ by-products	3
Evolution of the types of green reactions- Atom Economy- calculation of atom economy of the rearrangement	3
Addition, substitution and elimination reactions.	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Twelve basic principles of green chemistry- control keys.	3
Using alternative starting material, reagents, solvents- changing target products- process monitoring- alternating green catalysis.	3
Water as green solvent- reactions in ionic-liquid- solid support organic synthesis.	6
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Heterogeneous catalysis-use of zeolites, silica, alumina, supported catalysis.	3
Bio catalysis: Enzymes, microbes.	3
Homogeneous catalysis- Phase transfer catalysis (micellar/surfactant), hydroformylation, metathesis (Applications only).	6
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Uses of microwaves- Fundamentals of closed-vessel heating - green synthesis of the following compounds: adipic acid, catechol, disodium imino diacetate (alternative Strecker's synthesis).	6
Microwave assisted reaction in water – Hoffmann elimination – oxidation of toluene and alcohols. Microwave assisted reactions in organic solvents: Diels-Alder reactions and decarboxylation reaction.	6
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Uses of sonication - ultrasound assisted reactions – Saponification, Substitution and Addition reactions.	6
Ultrasound assisted reactions - Oxidation, Diels-Alder Reaction and Simmons–Smith reaction.	6
Total	**12**

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Dean of Science
Hajee Karutha Rowther Howdia College
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Verified by

HOD
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Head & Asaociate Professor of Chemistry
HKRH College
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: III B.Sc., Chemistry**

Course Code: 20UCHS61	**Staff Name: Ms. A. Nihath Nazleen (Unit: 1 to 5)**

Course Name: Medical Laboratory Technology and Clinical Biochemistry

Unit: I	
Topics to be covered	**No. of Hours**
Types of microorganism - general characteristics of Bacteria, Fungi and Viruses.	1
Sterilization and disinfection- Types of stains and staining procedures - Collection and preparation of samples.	2
Typhoid test, and Tuberculin test, VDRL, Pregnancy and HIV test.	1
Blood collection, use of anti coagulants - Transportations of blood after collection, Rh and blood grouping.	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Determination of Hemoglobin content, Total RBC, WBC and platelet count.	3
ESR calculation of red blood cell.	1
examination of Malaria parasites - Routine examination of urine.	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Carbohydrates: Properties and General classification.	2
Test for Glucose and other reducing sugar from urine and blood - Interpretation of results.	3
Glucose tolerance test.	1
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Lipids: General properties, Functions and classification of lipids.	3
Determination of total lipids, Triglycerides and cholesterol in blood.	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Analytical Biochemistry: Principles of colorimetry, Flame photometry, Chromatography, Electrophoresis.	3
Basic Immunochemical Techniques - Use of Microscope, Fundamentals of Automation in clinical laboratories.	3
Total	**6**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: III B.Sc., Chemistry**

Course Code: 20UCHS62	**Staff Name: Dr. K. Shahul Hameed (Unit:1, 2 & 3-A)** **Mr. G. Arivalagan (Unit:3-B, 4 & 5)**

Course Name: Competitive Examination Skills in Chemistry–II

Unit: I	
Topics to be covered	**No. of Hours**
Chemistry of natural products: Carbohydrates.	2
Proteins and peptides.	2
Fatty acids, nucleic acids.	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Chemical kinetics: Empirical rate laws and temperature dependence; complex reactions; steady state approximation.	2
Determination of reaction mechanisms; collision and transition state theories of rate constants.	2
Unimolecular reactions; enzyme kinetics; salt effects.	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Concepts of acids and bases, Hard-Soft acid base concept, non-aqueous solvents.	3
Nuclear chemistry: nuclear reactions, fission and fusion and radio-analytical techniques.	3
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Electrochemistry: Nernst equation, redox systems, electrochemical cells; Debye-Huckel theory; electrolytic conductance.	3
Kohlrausch's law and its applications; ionic equilibria; conductometric and potentiometric titrations.	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Structure determination of organic compounds by IR, UV-Vis.	2
Structure determination of organic compounds by ^{1}H & ^{13}C NMR and Mass spectroscopic techniques.	4
Total	**6**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme:** I M.Sc. Chemistry
Course Code: 23PCHCC21	**Staff Name:** Dr. K. Shahul Hameed (Unit: III) Mr. G. Arivalagan (Unit: I) Ms. A. Ismath Raihana (Unit: IV) Ms. A. Soniya (Unit: II & V)

Course Name: Organic Reaction Mechanism-II

Unit: I	
Topics to be covered	**No. of Hours**
Mechanisms: E2, E1, and E1cB mechanisms. Syn- and anti-eliminations. Orientation of the double bond: Hoffmann and Saytzeff rules.	4
Reactivity: Effect of substrate, attacking bases, leaving group and medium. Stereochemistry of eliminations in acyclic and cyclic systems, pyrolytic elimination.	3
Long lived and short-lived radicals – Production of radicals by thermal and photochemical reactions, Detection and stability of radicals, characteristics of free radical reactions and free radical, reactions of radicals; polymerization, addition, halogenations, aromatic substitutions, rearrangements.	5
Reactivity: Reactivity on aliphatic, aromatic substrates, reactivity in the attacking radical, effect of solvent.	3
Total	**15**
Unit: II	
Topics to be covered	**No. of Hours**
Mechanisms: Direct electron transfer, hydride transfer, hydrogen transfer, displacement, addition-elimination, oxidative and reductive coupling reactions.	3
Mechanism of oxidation reactions: Dehydrogenation by quinones, selenium dioxides, ferricyanide, mercuric acetate lead tetraacetate, permanganate, manganese dioxide, osmium tetroxide, oxidation of saturated hydrocarbons, alkyl groups, alcohols, halides and amines.	4
Reactions involving cleavage of C-C bonds - cleavage of double bonds, oxidative decarboxylation, allylic oxidation, oxidation by chromium trioxide-pyridine, DMSO-Oxalyl chloride (Swern oxidation) and Corey-Kim oxidation, dimethyl sulphoxide-dicyclohexyl carbodiimide (DMSO-DCCD).	4
Mechanism of reduction reactions: Wolff-Kishner, Clemmenson, Rosenmund, reduction with Trialkyl and triphenyltin hydrides, McFadyen-Steven's reduction, Homogeneous hydrogenation, Hydroboration with cyclic systems, MPV and Bouveault-Blanc reduction.	4
Total	**15**
Unit: III	
Topics to be covered	**No. of Hours**
Rearrangements to electron deficient carbon: Pinacol-pinacolone and semi-pinacolone rearrangements - applications and stereochemistry, Wagner-Meerwein, Demjanov, Dienone-phenol, Baker-Venkataraman, Benzilic acid and Wolff rearrangements.	4

Rearrangements to electron deficient nitrogen: Hofmann, Curtius, Schmidt, Lossen, Beckmann and abnormal Beckmann rearrangements.	3
Rearrangements to electron deficient oxygen: Baeyer-Villiger oxidation and Dakin rearrangements.	2
Rearrangements to electron rich atom: Favorskii, Quasi-Favorskii, Stevens, [1,2]-Wittig and [2,3]-Wittig rearrangements. Fries and Photo Fries rearrangement.	3
Intramolecular rearrangements – Claisen, abnormal Claisen, Cope, oxy-Cope Benzidine rearrangements.	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Mechanisms: (a) Addition to carbon-carbon multiple bonds- Addition reactions involving electrophiles, nucleophiles, free radicals, carbenes and cyclic mechanisms- Orientation and reactivity, hydrogenation of double and triple bonds, Michael reaction, addition of oxygen and Nitrogen.	5
(b) Addition to carbon-hetero atom multiple bonds: Mannich reaction, acids, esters, nitrites, addition of Grignard reagents, Wittig reaction, Prins reaction. Stereochemical aspects of addition reactions.	4
Addition to Carbon-Hetero atom Multiplebonds: Addition of Grignard reagents, organozinc and organolithium reagents to carbonyl and unsaturated carbonyl compounds.	3
Mechanism of condensation reactions involving enolates –Stobbe reactions. Hydrolysis of esters and amides, ammonolysis of esters.	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Lithium diisopropylamine (LDA), Azobisisobutyronitrile (AIBN), Sodium cyanoborohydride ($NaBH_3CN$), meta-Chloroperbenzoic acid (m-CPBA), Dimethyl aminiopyridine (DMAP), n-Bu_3SnD.	4
Triethylamine (TEA), Diazobicyclo[5.4.0]undec-7-ene (DBU), Diisopropylazodicarboxylate (DIAD), Diethylazodicarboxylate (DEAD), N-bromosuccinimide (NBS), Trifluoroacetic acid (TFA), Tetramethyl piperiridin-1-oxyl (TEMPO), Phenyltrimethylammonium tribromide (PTAB).	5
Diazomethane and Zn-Cu, Diethyl maleate (DEM), Copper diacetylacetonate ($Cu(acac)_2$), $TiCl_3$, $NaIO_4$.	3
Pyridinium chlorochromate (PCC), Pyridinium dichromate (PDC), Meisenheimer complex. Suzuki coupling, Heck reaction, Negishi reaction, Baylis-Hillman reaction.	3
Total	**15**

Forwarded by

K. SHAHUL

Dean
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Verified by

HOD
Hajee Dr.M.KAMAL NASAR
Head & Associate Professor of Chemistry
HKRH College
Uthamapalayam-625533

Prepared by

1. K. SHAHUL
2. G.
3. A. Jamath Ali
4.

Staff

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme:** M.Sc. Chemistry

Course Code: 23PCHCC22	**Staff Name:** Ms. A. Nihath Nazleen (Unit III & V) Dr. M.P. Kesavan (Unit I & IV) Ms. A. Soniya (Unit II)

Course Name: Physical Chemistry-I

Unit: I	
Topics to be covered	**No. of Hours**
Partial molar properties-Chemical potential, Gibb's-Duhem equation-binary and ternary systems. Determination of partial molar quantities.	3
Thermodynamics of real gases - Fugacity- determination of fugacity by graphical and equation of state methods-dependence of temperature, pressure and composition.	4
Thermodynamics of ideal and non-ideal binary mixtures, Duhem - Margulus equation applications of ideal and non-ideal mixtures.	4
Activity and activity coefficients-standard states - determination-vapour pressure, EMF and freezing point methods.	4
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Introduction of statistical thermodynamics concepts of thermodynamic and mathematical probabilities-distribution of distinguishable and non-distinguishable particles.	3
Assemblies, ensembles, canonical particles. Maxwell - Boltzmann, Fermi Dirac & Bose-Einstein Statistics- comparison and applications. Partition functions-evaluation of translational, vibrational and rotational partition functions for monoatomic, diatomic and polyatomic ideal gases.	5
Thermodynamic functions in terms of partition functions-calculation of equilibrium constants. Statistical approach to Thermodynamic properties: pressure, internal energy, entropy, enthalpy, Gibb's function, Helmholtz function residual entropy, equilibrium constants and equipartition principle.	5
Heat capacity of mono and di atomic gases-ortho and para hydrogen. Heat capacity of solids-Einstein and Debye models.	2
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Theories of conservation of mass and energy entropy production in open systems by heat, matter and current flow, force and flux concepts.	5
Onsager theory-validity and verification- Onsager reciprocal relationships.	5
Electro kinetic and thermo mechanical effects-Application of irreversible thermodynamics to biological systems.	5
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Theories of reactions-effect of temperature on reaction rates, collision theory of reaction rates, Unimolecular reactions - Lindeman and Christiansen hypothesis-molecular beams, collision cross sections, effectiveness of collisions, Potential energy surfaces.	5
Transition state theory-evaluation of thermodynamic parameters of activation-applications of ARRT to reactions between atoms and molecules, time and true order-kinetic parameter evaluation.	4
Factors determine the reaction rates in solution - primary salt effect and secondary salt effect.	2
Homogeneous catalysis-acid - base catalysis-mechanism of acid base catalyzed reactions-Bronsted catalysis law, enzyme catalysis-Michelis-Menton catalysis.	4
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Kinetics of complex reactions, reversible reactions, consecutive reactions, parallel reactions, chain reactions.	2
Chain reactions-chain length, kinetics of $H_2 - Cl_2$ & $H_2 - Br_2$ reactions (Thermal and Photochemical reactions) - Rice Herzfeld mechanism.	5
Study of fast reactions-relaxation methods-temperature and pressure jump methods electric and magnetic field jump methods-stopped flow flash photolysis methods and pulse radiolysis.	5
Kinetics of polymerization-free radical, cationic, anionic polymerization - Polycondensation.	3
Total	**15**

Forwarded by

Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam, Theni-Dt-625533

Dean

Verified by

HOD

Hajee Dr.M.KAMAL NASAR
Head & Associate Professor of Chemistry
HKRH College
Uthamapalayam-625533

Prepared by

Staff

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: M.Sc., Chemistry**

Course Code: 23PCHCC2P	**Staff Name: Ms. A. Nihath Nazleen** **Mr. G. Arivalagan** **Ms. A. Mumthaj** **Ms. A. Ismath Raihana** **Ms. A. Soniya**

Course Name: INORGANIC CHEMISTRY PRACTICAL

List of Analysis, preparations and Estimation to be conducted

Unit: I: Analysis of mixture of cations:

Group –I : W, Tl and Pb.

Group - II: Se, Te, Mo, Cu, Bi and Cd.

Group - III: Tl, Ce, Th, Zr, V, Cr, Fe, Ti and U.

Group - IV: Zn, Ni, Co and Mn.

Group - V : Ca, Ba and Sr.

Group - VI: Li and Mg.

Unit: II: Preparation of metal complexes

a) Preparation of tristhioureacopper(I)sulphate
b) Preparation of potassium trioxalate chromate(III)
c) Preparation of tetramminecopper(II) sulphate
d) Preparation of Reineck's salt
e) Preparation of hexathioureacopper(I) chloridedihydrate
f) Preparation of cis-Potassium tri oxalate diaquachromate(III)
g) Preparation of sodium trioxalatoferrate(III)
h) Preparation of hexathiourealead(II) nitrate

Unit: III: Complexometric Titration

a) Estimation of zinc, nickel, magnesium, and calcium.

b) Estimation of mixture of metal ions-pH control, masking and demasking agents.

c) Determination of calcium and lead in a mixture (pH control).

d) Determination of manganese in the presence of iron.

e) Determination of nickel in the presence of iron.

Total hours : 90

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Verified by

HOD

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme:** I M.Sc. Chemistry

Course Code: 23PCHDE21	**Staff Name:** Dr. N.M. Abdul Khader Jailani (Unit: II, IV & V) Ms. A. Nihath Nazleen (Unit I & III)

Course Name: Medicinal Chemistry

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to receptors: Introduction, targets, Agonist, antagonist, partial agonist.	5
Receptors, Receptor types, Theories of Drug – receptor interaction.	5
Drug synergism, Drug resistance, physicochemical factors influencing drug action.	5
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Antibiotics: Introduction, Targets of antibiotics action, classification of antibiotics, enzyme-based mechanism of action.	5
SAR of penicllins and tetracyclins, clinical application of penicillins, cephalosporin.	6
Current trends in antibiotic therapy.	4
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Antihypertensive agents: Classification of cardiovascular agents, introduction to hypertension, etiology.	8
Types, classification of antihypertensive agents.	7
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Classification and mechanism of action of diuretics.	7
Furosemide, Hydrochlorothiazide, Amiloride.	8
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Analgesics, Antipyretics and Anti-inflammatory Drugs: Introduction, Mechanism of inflammation, classification and mechanism of action and paracetamol, Ibuprofen, Diclofenac, naproxen, indomethacin, phenylbutazone and meperidine.	6
Medicinal Chemistry of Antidiabetic Agents Introduction, Types of diabetics, Drugs used for the treatment, chemical classification, Mechanism of action, Treatment of diabetic mellitus.	6
Chemistry of insulin, sulfonyl urea.	3
Total	**15**

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Verified by

HOD
Hajee Dr.M.KAMAL NASAR
Head & Associate Professor of Chemistry
HKRH College
Uthamapalayam-625533

Prepared by

Cr M. Abdulkhader Jailani

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: M.Sc., Chemistry**

Course Code: 23PCHGE21	**Staff Name: Dr. K.Shahul Hameed (Unit I, III)** **Dr. S.Sivakumar (II)** **Ms. A. Ismath Raihana (Unit IV & V)**

Course Name: BIO-INORGANIC CHEMISTRY

Unit: I	
Topics to be covered	**No. of Hours**
Essential trace elements: Selective transport and storage of metal ions: Ferritin, Transferrin and sidorphores; Sodium and potassium transport, Calcium signalling proteins.	**5**
Metalloenzymes: Zinc enzymes–carboxypeptidase and carbonic anhydrase. Iron enzymes–catalase, peroxidase.	**5**
Copper enzymes – superoxide dismutase, Plast ocyanin, Ceruloplasmin, Tyrosinase. Coenzymes -Vitamin-B_{12} coenzymes.	**5**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Transport Proteins: Oxygen carriers - Hemoglobin and myoglobin - Structure and oxygenation Bohr Effect.	**5**
Binding of CO, NO, CN - to Myoglobin and Hemoglobin. Biological redox system: Cytochromes - Classification, cytochrome a, b and c. Cytochrome P - 450.	**5**
Non - heme oxygen carriers - Hemerythrin and hemocyanin. Iron - sulphur proteins - Rubredoxin and Ferredoxin- Structure and classification.	**5**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Nitrogen fixation - Introduction, types of nitrogen fixing microorganisms. Nitrogenase enzyme - Metal clusters in nitrogenase - redox property	5
Dinitrogen complexes transition metal complexes of dinitrogen - nitrogen fixation via nitride formation and reduction of dinitrogen to ammonia.	6
Photosynthesis: photosystem-I and photosystem-II-chlorophylls structure and function.	4
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
Metals in medicine: Metal Toxicity of Hg, Cd, Zn, Pb, As, Sb. Therapeutic Compounds: Vanadium-Based Diabetes Drugs	6
Platinum - Containing Anticancer Agents.Chelation therapy; Cancer treatment.	3
Diagnostic Agents: Technetium Imaging Agents; Gadolinium MRI Imaging Agents. Temperature and critical magnetic field.	6
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Enzymes - Introduction and properties -nomenclature and classification. Enzyme kinetics,	4
Free energy of activation and the effects of catalysis. Michelis - Menton equation	6
Effect of pH, temperature on enzyme reactions. Factors contributing to the efficiency of enzyme.	5
Total	15

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: M. Sc. Chemistry**

Course Code: 23PCHSE21	**Staff Name: Ms. A. Ismath Raihana (Unit- I, II & V-A)** **Ms. A. Soniya (Unit- III, IV & V-B)**

Course Name: Chemistry in Everyday Life

Unit: I	
Topics to be covered	**No. of Hours**
Health: Definition - Food Pyramid – Health – Hygiene.	5
Mal, under and over nutrition, their causes and remedies, sanitation.	7
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Food chemistry: Food - classification and functions - Digestion in mouth, stomach and intestine.	5
Absorption - spoilages, preservation techniques (canning, dehydration, freeze-drying. salting, pickling, pasteurizing, fermenting and carbonating).	7
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Drugs: Types of drugs -depressant, anticonvulsant, narcotics, antipyretics, antibiotics, antiseptics.	6
Analgesics, muscle relaxants and cardiovascular and vasodepressants, steroids (Only Applications).	6
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Antibiotics: Definition - uses of Antibiotics - Ampicillin, streptomycin, tetracyclin, Erythromycin.	6
Vitamins: Classifications of vitamins - vitamins deficiency diseases. (Vitamins A, B_1, B_2, B_3, B_6, B_{12}, C, D, E and K).	6
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Water Chemistry: Characteristics of water, soft water and hard water - removal of hardness - Purification of water by ion exchange and reverse osmosis methods.	6
Water pollution: Sources and effects of water pollution (Domestic, Industrial, Agricultural) - Eutrophication.	6
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme:** M.Sc. Chemistry

Course Code: 23PCHCC41	**Staff Name:** Mr. G. Arivalagan (Unit II) Dr. M.P. Kesavan (Unit I & III) Ms. A. Soniya (Unit IV & V)

Course Name: Coordination Chemistry – II

Unit: I	
Topics to be covered	**No. of Hours**
Chemistry of organometallic compounds: Classification of organometallic compounds based on M-C bond – 18 and 16 electron rule.	3
Bonding in metal – olefin complexes (example: Ziese's salt), metal-acetylene and metal-allyl complexes; Metal-cyclopentadienyl complexes – Examples and MO approach to bonding in metallocenes; fluxional isomerism.	6
Metal – carbonyl complexes: MO diagram of CO; Structure and bonding – bonding modes, MO approach of M-CO bonding, π-acceptor nature of carbonyl group, synergistic effect (stabilization of lower oxidation states of metals).	4
Carbonyl clusters: Low nuclearity and high nuclearity carbonyl clusters – Structures based on polyhedral skeleton electron pair theory or Wade's rule.	5
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Reactions and catalysis of organometallic compounds: Reactions of organometallic compounds: Oxidative addition, reductive elimination (α and β eliminations), migratory insertion reaction and metathesis reaction.	4
Organo-metallic catalysis: Hydrogenation of olefins (Wilkinson's catalyst), hydroformylation of olefins using cobalt or rhodium catalysts (oxo process).	5
Oxidation of olefin (Wacker process), olefin isomerisation, water gas shift reaction.	5
Cyclo-oligomerisation of acetylenes using Reppe's catalysts, Monsonto process.	4
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Inorganic spectroscopy -I: IR spectroscopy: Effect of coordination on the stretching	6

frequency-sulphato, carbonato, sulphito, aqua, nitro, thiocyanato, cyano, thiourea, DMSO complexes.	
IR spectroscopy of carbonyl compounds.	2
NMR spectroscopy- Introduction, applications of ^{1}H, ^{15}N, ^{19}F, ^{31}P-NMR spectroscopy in structural identification of inorganic complexes.	7
Fluxional molecules, quadrupolar nuclei- effect in NMR spectroscopy.	3
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Inorganic spectroscopy-II: Introductory terminologies: g and A parameters- definition, explanation and factors affecting g and A.	2
Applications of ESR to coordination compounds with one and more than one unpaired electrons – hyperfine and secondary hyperfine splitting and Kramer's doublets.	4
ESR spectra of V(II), Mn(II), Fe(II), Co(II), Ni(II), Cu(II) complexes, bis(salicylaldimine)copper(II) and $[(NH_3)_5Co\text{-}O_2\text{-}Co(NH_3)_5]^{5+}$.	5
Mossbauer spectroscopy – Mossbauer effect, Recoil energy, Mossbauer active nuclei, Doppler shift, Isomer shift, quadrupole splitting and magnetic interactions.	4
Applications of Mössbauer spectra to Fe and Sn compounds.	3
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Photo Electron Spectroscopy: Theory, Types, origin of fine structures - shapes of vibrational fine structures – adiabatic and vertical transitions.	3
PES of homonuclear diatomic molecules (N_2, O_2) and heteronuclear diatomic molecules (CO, HCl) and polyatomic molecules (H_2O, CO_2, CH_4, NH_3) – evaluation of vibrational constants of the above molecules.	5
Koopman's theorem- applications and limitations. Optical Rotatory Dispersion – Principle of CD and ORD.	5
Δ and λ isomers in complexes, Assignment of absolute configuration using CD and ORD techniques.	5
Total	**18**

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Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
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Verified by

HOD
Hajee Dr.M.KAMAL NASAR
Head & Associate Professor of Chemistry
HKRH College
Uthamapalayam-625533

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme: M.Sc., Chemistry**

Course Code:23PCHCC42	**Staff Name: Ms. A. Nihath Nazleen (Unit IV)** **Ms. A. Mumthaj (Unit I, II,III & V)**

Course Name: PHYSICAL CHEMISTRY-II

Unit: I	
Topics to be covered	**No. of Hours**
Wave particle duality, Uncertainty principle, Particle wave function and properties of wave function	**3**
Normalized, Orthogonal, orthonormal, Eigen values, Eigen functions, Hermitian properties of operators	**3**
Introduction to quantum mechanics-black body radiation, photoelectric effect, hydrogen spectrum	**4**
Need for quantum mechanics, Postulates of Quantum Mechanics	**4**
Schrodinger wave equation, Time independent and time dependent.	**4**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Particle in a box-1D, two dimensional and three-dimensional box	**3**
Degeneracy, application to linear conjugated molecular system, free particles, ring systems	**3**
Harmonic Oscillator-wave equation and solution, anharmonicity, force constant and its significance	**4**
Rotor-wave equation and solution	**4**
Calculation of rotational constants and bond length of diatomic molecules.	**4**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Hydrogen atom and hydrogen like ions	3
Hamiltonian-wave equation and solutions, radial and angular functions, representation of radial distribution functions	3
Approximation methods –variation methods: trial wave function, variation integral and application to particle in 1D box	4
Perturbation method - first order perturbation. Hartree-Fock self-consistent field (HFSCF) theory	4
Hohenberg-Kohn theorem and Kohn-Sham equation, Helium atom-electron spin, Pauli's exclusion principle and Slater determination.	4
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Groups, sub groups, symmetry elements, operations, classification-axial and non-axial	3
Dihedral point groups- C_n,C_{nh}, D_n, D_{nh}, D_{nd}, T_d and O_h	3
Matrix representation and classes of symmetry operations, reducible irreducible and direct product representation	4
The Great orthogonality theorem – irreducible representation and reduction formula	4
Construction of character table for C_{2v}, C_{2h}, C_{3v} and D_{2h} point groups.	4
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Hydrogen Molecule-Molecular orbital theory and Heitler London (VB) treatment	3
Energy level diagram, Hydrogen molecule ion	3
Use of linear variation function and LCAO methods. Electronic conjugated system: Huckel method to Ethylene, butadiene	4
Cyclopropenyl, Cyclobutadiene and Benzene	4
Applications of group theory to molecular vibrations, electronic spectra of ethylene.	4
Total	**18**

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Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Dean

Verified by

Hajee Dr.M.KAMAL NASAR
Head & Associate Professor of Chemistry
HKRH College
Uthamapalayam-625533

HOD

Prepared by

A. Mumthaj

Staff

Hajee Karutha Rowther Howdia College (Autonomous)
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TEACHINGPLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	Programme: II M.Sc., Chemistry

Course Code: 23PCHDE41	Staff Name: Dr. S. Sivakumar (Unit III) Dr. M. Jannathul Firdhouse (Unit II & IV) Ms. A. Nihath Nazleen (Unit I & V)

Course Name: POLYMER CHEMISTRY

Unit: I	
Topics to be covered	**No. of Hours**
Primary and secondary bond forces in polymers; cohesive energy, molecular structure.	3
Chemical tests, thermal methods, Tg, molecular distribution, stability.	3
Determination of Molecular mass of polymers: Number Average molecular mass (M_n) and Weight average molecular mass (M_w) of polymers.	3
Molecular weight determination of high polymers by physical and methods.	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Chain growth polymerization: Cationic, anionic, free radical polymerization.	4
Stereoregular polymers: Ziegler Natta polymerization.	4
Reaction kinetics- step growth polymerization, Degree of polymerization.	4
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Bulk, Solution, Emulsion, Suspension, solid, interfacial and gas phase polymerization.	3
Types of Polymer Degradation- Thermal degradation, mechanical degradation.	3
Photodegradation, Photo stabilizers.	3
Solid and gas phase polymerization.	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Preparation of fibre forming polymers, elastomeric material. Thermoplastics: Polyethylene, Polypropylene, polystyrene, Polyacrylonitrile, Polyvinylchloride, Polytetrafluoroethylene, nylon and polyester.	3
Thermosetting Plastics: Phenol-formaldehyde and epoxide resin. Elastomers: Natural rubber and synthetic rubber – Buna-N, Buna-S and neoprene.	3
Conducting Polymers: Elementary ideas; examples: polysulphurnitriles, poly phenylene, polypyrrole and polyacetylene.	3
Polymethylmethacrylate, polyimides, polyamides, polyurethanes, polyureas, polyethylene and polypropylene glycols.	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Compounding: Polymer Additives: Fillers, Plasticizers, antioxidants, thermal stabilizers, fire retardants and colourants.	3
Processing Techniques: Calendaring, die casting, compression moulding, injection moulding, blow moulding and reinforcing.	3
Film casting, Thermofoaming, Foaming. Catalysis and catalysts – Polymerization catalysis, catalyst support, clay compounds.	3
Basic catalyst, auto-exhaust catalysis, vanadium, heterogeneous catalysis and active centres.	3
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Chemistry	**Programme:** II M.Sc. Chemistry

Course Code: 23PCHSE41	**Staff Name:** Mr. G. Arivalagan (Unit: I to V)

Course Name: Training for Competitive Examinations

Unit: I	
Topics to be covered	**No. of Hours**
Optical isomerism and Geometrical isomerism - asymmetric synthesis - Walden inversion - cis and trans isomerism - R-S-Notations.	4
Stereogenicity, stereoselectivity, enantioselectivity, diastereoselectivity and asymmetric induction.	2
Functional group interconversion including oxidations and reductions; common catalysts and reagents (organic, inorganic, organometallic and enzymatic).	4
Chemo, regio and stereoselective transformations.	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Generation, stability and reactivity of carbocations, carbanions, free radicals, carbenes, benzynes and nitrenes.	6
Mechanisms of rearrangements proceedings via carbonium ions (Wagner Meerwin pinacol – pinacolone and Demjanov type) and electrophilic heteroatoms (Baeyer Villiger and Curtius type).	6
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Synthesis, bonding and structure in metal carbonyls – stability of organometallic compounds – the sixteen and eighteen electron rule.	6
Use of IR in the structural elucidation of carbonyl compounds – metal nitrosyls.	3
Ferrocene- structure and bonding - Organometallics in homogeneous catalysis.	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Werner's theory - nomenclature and stereo chemistry of co-ordination compounds - stability constants and their determinations.	4
CFT, splitting of d orbitals, CFSE, Jahn Teller effect, charge transfer spectra – spectrochemical series.	4
Term states for dn ions - Orgel and Tanabe – Sugano diagram, calculation of Dq, B and β parameters.	4
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Rate laws - rate constant - order and molecularity of reactions – concept of Arrhenius theory.	2
Collision and transition state theories of rate constants; unimolecular reactions; enzyme kinetics; salt effects; homogeneous catalysis.	3
Symmetry elements and symmetry operations, point groups, reducible and irreducible representations - Direct product representation.	3
Orthogonality theorem and its consequences – construction of Character Tale (C_2V, C_3V and C_2h) – Applications.	4
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: I- B.Sc., Mathematics**

Course Code: 23UMACC21	**Staff Name: Ms. N. Rayshima**

Course Name: ANALYTICAL GEOMETRY (Two & Three Dimensions)

Unit: I	
Topics to be covered	**No. of Hours**
Pole, Polar, conjugate points and conjugate lines	3
Diameters and conjugate diameters of an ellipse	3
Semi diameters	3
Conjugate diameters of hyperbola.	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Polar coordinates: General polar equation of straight line	3
Polar equation of a circle given a diameter	2
Equation of a straight line, circle, conic	2
Equation of chord, tangent, normal.	2
Equations of the asymptotes of a hyperbola.	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
System of Planes	4
Length of the perpendicular	4
Orthogonal projection.	4
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Representation of line	2
Angle between a line and a plane	2
Co – planar lines–shortest distance between two skew lines	3
Length of the perpendicular	2
Intersection of three planes.	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Equation of a sphere-general equation	2
Section of a sphere by a plane	2
Equation of the circle- tangent plane	3
Angle of intersection of two spheres	2
Condition for the orthogonality- radical plane.	3
Total	**12**

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Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Signature of the HOD
Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533.

Signature of the Staff

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: I B.Sc Mathematics**

Course Code: 23UMACC22	**Staff Name: Dr .P. Anitha & N.Rayshima**

Course Name: INTEGRAL CALCULUS

Unit: I	
Topics to be covered	**No. of Hours**
Reduction formulae	**3**
Types, integration of product of powers of algebraic and trigonometric	**3**
Integration of product of powers of algebraic and logarithmic functions	**3**
Bernoulli's formula, Feyman's technique of integration	**3**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Multiple Integrals	**3**
Definition of double integrals	**3**
Evaluation of double integrals	**3**
Double integrals in polar coordinates , Change of order of integration	**3**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Triple integrals ,Applications of multiple integrals	**3**
Volumes of solids of revolution	**3**
Areas of curved surfaces, change of variables	**3**
Jacobian	**3**
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Beta and Gamma functions	**4**
Infinite integral, recurrence formula of Gamma functions	**4**
Properties of Beta and Gamma functions- relation between Beta and Gamma functions Applications	**4**
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Geometric and Physical	**6**
Applications of Integral calculus	**6**
Total	**12**

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M.Sc.,B.Ed.,M.Phil.,Ph.D
Head of the Department
Dept. Of Mathematics
H.K.R.H College
Uthamapalayam-625 533

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: I-NME**

Course Code: 23UMASE21	**Staff Name: Dr. S. Seyadali Fathima & Dr. S. Mohamed Basheer**

Course Name: MATHEMATICS FOR COMPETITIVE EXAMINATIONS-II

Unit: I	
Topics to be covered	**No. of Hours**
Problems on ages	2
Problems	2
Surds and indices	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Percentage	2
Ratio and Proportions	2
Problems	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Time and distance	2
Problems on trains	2
Solved problems	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Calendar	1
short cuts and Solved problems	2
Clock	1
Solved problems	2
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Permutation and combinations	2
Probability	2
Solved problems	2
Total	**6**

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Uthamapalayam,Theni-Dt-625533

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Dr. M. SANTHI
M.Sc..B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept Of Mathematics
H.K.R.H College
Uthamapalayam-625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: I- B.Sc., Mathematics**

Course Code: 23UMASE2P	**Staff Name: Ms. N. Rayshima**

Course Name: LaTeX

Unit: I	
Topics to be covered	**No. of Hours**
Preamble : Motivation, Running LaTeX - Resources	2
Basic LaTeX - Sample Document and Key Concepts, Type Style	2
Environments - Lists - Centering - Tables - Verbatim - Vertical and Horizontal Spacing	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Type setting Mathematics with Examples, Equation Environments	2
Fonts, Hats, and Underlining, Braces, Arrays and Matrices - Customized Commands - Theorem, like Environments	2
Math Miscellany - Math Styles - Bold Math - Symbols for Number Sets - Binomial Coefficient	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Further Essential LaTeX : Document Classes and the OverallStructure, Titles for Documents, Sectioning Commands and Miscellaneous Extras	2
Spacing, Accented Characters, Dashes and Hyphens, Quotation Marks	2
Troubleshooting, Pinpointing the Error, Common Errors and Warning Messages	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Packages and Inputting Files	2
Inputting Pictures, Making a Bibliography	2
Making an Index, Latex through the years	2
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Sample Article and Sample Report	2
Sample presentation	2
Sample Poster, Internet Resources	2
Total	**6**

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Uthamapalayam,Theni-Dt-625533

Signature of the HOD
Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H College
Uthamapalayam-625 533.

Signature of the Staff

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN
For the Academic Year 2024-25 (EVENSEMESTER)

Department: Mathematics	**Programme: I B.Sc.Physics**

Course Code: 23UMAGE21	**Staff Name: Ms.H.Habeeb Rani**

Course Name: Mathematical Statistics(Allied Mathematics)

Unit: I	
Topics to be covered	**No.of Hours**
Collection of Data Techniques: Primary and secondary data - Primary methods of data collection.	**3**
Drafting Questions and questionnaires.	**2**
Sources of secondary data -Editing primary data- Editing secondary data.	**3**
Classification and Tabulation: Introduction, Classification.	**3**
Organizing Quantitative Data, Selecting Class Intervals	**2**
Two way Frequency Distribution, Cumulative Frequencies.	**3**
Types of Tables.	**2**
Total	**18**

Unit: II	
Topics to be covered	**No.of Hours**
Measures of Central Tendency: The arithmetic Mean-Properties.	**3**
Shortcut Method.	**3**
Weighted arithmetic Mean.	**3**
Quartile,Deciles and Percentile.	**3**
Median.	**3**
Mode.	**3**
Total	**18**

Unit: III	
Topics to be covered	**No.of Hours**
Measures of Dispersion: The Range.	3
Quartile Deviation.	3
Mean Deviation.	3
Standard Deviation.	3
Calculation of standard deviation by short cut method.	3
Variance and coefficient of variation.	3
Total	**18**

Unit: IV	
Topics to be covered	**No.of Hours**
Index Numbers: Introduction.	1
Weighted Average of Actual Prices.	2
Price Relative Method.	3
Quantity Index Numbers.	3
Mathematical Test of consistency.	3
Fixed and Chain Base Index Numbers.	3
Consumer Price Index Numbers.	3
Total	**18**

Unit: V	
Topics to be covered	**No.of Hours**
Probability: Introduction .	2
Addition Rule of Probability-Conditional Probability	3
Baye's Theorem.	2
Inverse Probability.	3
Permutations and Combinations.	3
Random Variable.	2
Probability Distribution.	3
Total	**18**

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Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533
Signature of the Dean

Dr. M. SAKTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533
Signature of the HOD

Signature of the Staff

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: I - B.Sc Computer Science**

Course Code:23UCSGE21	**Staff Name: Dr.S.SEYADALI FATHIMA**

Course Name: Numerical Methods

Unit: I	
Topics to be covered	**No. of Hours**
Algebraic and Transcendental Equations	2
Bisection method	2
Fixed point iteration Method	2
Newton Raphson method.	2
Gauss elimination method	2
Gauss Jordan method	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Gauss Jacobi iteration method	2
Gauss seidel iteration methods.	2
Eigen values of a matrix by power method	2
Jacobi's method for symmetric matrices	2
Lagrange's interpolation formulae	2
Newton's divided difference interpolation	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Difference operator and relation	4
Newton's forward interpolation formulae	4
Newton's backward interpolation formulae	4
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Approximation of derivatives using interpolation polynomials	8
Trapezoidal role	2
Simpson's rule	2
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Taylor's series method	4
Euler's method	2
Modified Euler's method	2
Runge Kutta method (one to four orders)	4
Total	**12**

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Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Signature of the HOD
Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.
Head of the Department
Dept Of Mathematics
H.K.R.H College
Uthamapalayam-625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: II B.Sc Computer science**

Course Code: 23UCSSE42	**Staff Name: Dr. S. Seyadali Fathima**

Course Name: Quantitative Aptitude

Unit: I	
Topics to be covered	**No. of Hours**
Numbers-HCF and LCM of numbers	2
Decimal fractions, Simplification	2
Square root and cube roots, Average-problems on Numbers.	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Problems on Ages - Surds and Indices	2
percentage - profits and loss	2
ratio and proportion-partnership-Chain rule.	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Time and work, pipes and cisterns, Time and Distance	2
problems on trains, Boats and streams	2
simple interest - compound interest - Logarithms	1
Area-Volume and surface area -races and Games of skill.	1
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Permutation and combination	**2**
Probability, True Discount	**1**
Bankers Discount, Height and Distances	**2**
Odd man out & Series	**1**
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Calendar,Clocks	**2**
stocks and shares, Data representation	**2**
Tabulation, Bar Graphs	**1**
Pie charts, Line graphs.	**1**
Total	**6**

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: II B.Sc Mathematics**

Course Code: 23UMACC41	**Staff Name: Dr. M. Santhi & Dr .S. Mohamed Basheer**

Course Name: INDUSTRIAL MATHEMATICS

Unit: I	
Topics to be covered	**No. of Hours**
Definition – Even and odd functions	**4**
Expanding f(x) as Fourier series in the range $-\pi < x < \pi$ – half range series –.	**4**
Development of cosine and sine series – Change of interval	**4**
Expanding f(x) as Fourier series	**3**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Piece –Wise or sectional continuity	**3**
functions of exponential order	**3**
function of class A –The transform concept	**3**
Laplace transform – notation	**3**
Some standard results	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Definition – Null Function	**4**
Uniqueness of inverse Laplace transform	**3**
Partial Fractions – Heaviside expansion formula(solved Problems) –	**4**
The complex inversion formula.	**4**
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Differential Equation	**3**
Solving Differential Equations using Laplace Transform method,	**3**
Inversion Theorem of Laplace Transform	**3**
Notation	**3**
Worked Examples	**3**
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Definition-Integral Equation	**4**
Integral Equation of Convolution type	**4**
Integro-Differential Equation – Abel's Integral Equation	**3**
Solved Examples	**4**
Total	**15**

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Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Signature of the HOD
Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H College
Uthamapalayam-625 533.

1. M. Santhi
2.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: II B.Sc Mathematics**

Course Code: 23UMACC42	**Staff Name: Dr .P. Anitha**

Course Name: ELEMENTS OF MATHEMATICAL ANALYSIS

Unit: I	
Topics to be covered	**No. of Hours**
Sets and elements- Operations on sets	**4**
Functions- real valued functions	**4**
Equivalence-countability	**4**
Real numbers- least upper bounds	**3**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Definition of a sequence and subsequence-limit of a sequence	**3**
Convergent sequences	**3**
Divergent sequences	**3**
Bounded sequences	**3**
Monotone sequences	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Operations on convergent sequences.	**4**
Operations on divergent sequences	**3**
Limit superior and limit inferior	**4**
Cauchy sequences	**4**
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Convergence and divergence	**3**
Series with non –negative terms-alternating series	**3**
Conditional convergence and	**3**
Absolute convergence	**3**
Tests for absolute convergence	**3**
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Limit of a function on a real line	**4**
Metric spaces - Limits in metric spaces	**4**
Continuous Functions on Metric Spaces: Function continuous at a point on there a line	**3**
Function continuous on a metric space	**4**
Total	**15**

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H College
Uthamapalayam-625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: II B.Sc Mathematics**

Course Code: 23UMAGE41	**Staff Name: Dr .M.Santhi**

Course Name: TRANSFORMATION TECHNIQUES

Unit: I	
Topics to be covered	**No. of Hours**
Introduction-Fourier Integral Theorem	**3**
The Fourier Sine and Cosine integral-Fourier Transform and its inverse	**3**
Fourier Sine Transform and its inverse, Fourier Cosine Transform, Solved problems	**3**
Total	**9**

Unit: II	
Topics to be covered	**No. of Hours**
Properties of Fourier Transforms-Linear property-Shifting property-Change of Scale	**3**
Modulation Theorem-Derivative Theorem-Convolution Theorem	**2**
Parseval's identity for Fourier Transform- Parseval's identity for Fourier Cosine Transform	**2**
Solved problems	**2**
Total	**9**

Unit: III	
Topics to be covered	**No. of Hours**
Finite Fourier Sine Transform and its inverse	**3**
Finite Fourier Cosine Transform and its inverse-Fourier integral theorem	**3**
Different form of Fourier integral formula, Riemann -Lebesgue Theorem-Problem related to finite Fourier Transform	**3**
Total	**9**

Unit: IV	
Topics to be covered	**No. of Hours**
Definition-Properties of Z-Transform - Linear property-Shifting property	**3**
Derivative of Transform-Factorial polynomial	**3**
Solved problems	**3**
Total	**9**

Unit: V	
Topics to be covered	**No. of Hours**
Partial fraction method-Unit impulse function-Power series method or long division method	**3**
Difference equation-Initial value theorem-Final value theorem	**3**
Convolution theorem, Solved problems	**3**
Total	**9**

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: II- B.Sc., Mathematics**

Course Code: 23UMASE41	**Staff Name: Ms. N. Rayshima**

Course Name: Mathematical Aptitude

Unit: I	
Topics to be covered	**No. of Hours**
Simplifications	2
Averages, concepts	2
Solved examples.	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Problems on numbers	2
Problems on ages, short cuts	2
Concepts and solved examples.	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Profit and Loss	2
Ratio & proportion, short cuts	2
Concepts and solved examples.	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Partnership	2
Time and work, short cuts.	2
Concepts and solved examples.	2
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Time and distance	2
Problem on trains	2
Concepts and solved examples.	2
Total	**6**

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Uthamapalayam,Theni-Dt-625533

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: II - B.Sc Mathematics**
Course Code: 23UMASE4P	**Staff Name: Dr.S.SEYADALI FATHIMA**
Course Name: Web Designing	

Unit: I	
Topics to be covered	**No. of Hours**
Create Simple Web page for Text Formatting	2
Working with colours	2
Create Web Page with Hyper Links	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Create Web Page with Image.	2
Web Page with ordered and unordered Lists.	2
Web Page with unordered Lists.	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Web Page with Definition Lists.	3
Web Page with Table.	3
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
To design a Time Table using HTML.	3
To Design Form.	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
To Design a frame to display different in one web page.	3
College Website Creation.	3
Total	**6**

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Uthamapalayam,Theni-Dt-625533

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533.

Signature of the Staff

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TEACHING PLAN

For the Academic Year 2024-25(EVENSEMESTER)

Department: Mathematics	**Programme: II B.Sc.Mathematics**

Course Code: 23UGEVS41	**Staff Name: Ms.H.Habeeb Rani**

Course Name: Environmental Studies

Unit: I	
Topics to be covered	**No.of Hours**
Earth- formation and Evolution of Earth over time	**2**
Resources – renewable and nonrenewable resources	**1**
Total	**3**

Unit: II	
Topics to be covered	**No.of Hours**
Ecology and ecosystem concepts	**2**
Biogeochemical cycles – Nitrogen, carbon, Phosphorous and Water	**1**
Total	**3**

Unit: III	
Topics to be covered	**No.of Hours**
Biodiversity of India	**1**
Values of Biodiversity	**1**
National Biodiversity Conservation Board and its function	**1**
Total	**3**

Unit: IV	
Topics to be covered	**No.of Hours**
Pollution Definition, causes, effects and control measures	**2**
Global issues: Global Warming and Ozone Layer Depletion	**1**
Total	**3**

Unit: V	
Topics to be covered	**No.of Hours**
Sustainable Development	**1**
Disaster Management	**1**
Cyclones and Hurricanes	**1**
Total	**3**

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M.Sc.,B.Ed.,M.Phil.,Ph.D.
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533.

Signature of the Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: III- B.Sc Mathematics**

Course Code: 20UMAC61	**Staff Name: Dr. S. Seyadali Fathima**

Course Name: LINEAR ALGEBRA

Unit: I	
Topics to be covered	**No. of Hours**
Vector spaces: Definition and examples	4
Subspaces	4
Linear transformation	4
Fundamental theorem of homomorphism	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Span of a set	3
linear independence	3
Basis and Dimension	3
Rank and nullity	3
Matrix of a linear transformation	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Inner product space	4
Definition and examples	4
Orthogonality	4
Orthogonal complement	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Algebra of Matrices and Types of Matrices	3
Inverse of the matrix	3
Elementary transformation	3
Rank of the matrix	3
Simultaneous linear equations.	3
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Characteristic Equation and Cayley's Hamilton's theorem	3
Eigen values and Eigen vectors	3
Bilinear forms	3
Matrix of a bilinear form	2
quadratic forms	2
Reduction of a quadratic form to the diagonal form	2
Total	15

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Dean of Science
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Signature of the HOD
Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept Of Mathematics
H.K.R.H College
Uthamapalayam-625 533.

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: Mathematics	**Programme: III B.Sc., Mathematics**
Course Code: 20UMAC62	**Staff Name: Dr. M. Santhi & Dr. S. Mohamed Basheer**
Course Name: Complex Analysis	

Unit: I	
Topics to be covered	**No. of Hours**
Continuous Function	3
Differentiability	2
Cauchy-Riemann Equations	2
Analytic function	4
harmonic functions	4
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Elementary transformation	4
bilinear transformations – cross ratio – fixed point	4
special bilinear transformation – real axis to real axis	3
unit circle to unit circle and real axis to unit circle.	4
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Cauchy's fundamental theorem	4
Cauchy's integral formula – formula for higher derivatives	3
Morero's Theorem	4
Cauchy's inequality	2
Liouville's theorem – Fundamental Theorem of Algebra.	2
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
Taylor's Theorem	3
Laurent's Theorem	3
singular point – poles	4
Argument principle – Rouche's theorem.	5
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Residues	2
Problems	3
Cauchy's Residue theorem	3
Problems	4
Evaluation of definite integrals.	3
Total	15

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H College
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1.
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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme:** III B.Sc Mathematics

Course Code: : 20UMAC63	**Staff Name:** Dr.P.Anitha

Course Name: Probability Theory and Distribution

Unit: I	
Topics to be covered	No.of hours
Theory of probability	3
Sample space- probability function	3
Laws of addition	3
Boole's inequality-Law of multiplication problems	4
Baye'sTheorem-problems.	2
Total	15

Unit: II	
Topics to be covered	No.of hours
Random variables	3
Distribution function	3
Problems	4
Discrete and continuous random variables	3
Problems	2
Total	15

Unit: III	
Topics to be covered	No.of hours
Moment generating function	3
Cumulative generating function	4

Problems	4
Theoretical distributions – Binomial- Poisson-Normal distributions	4
Total	15

Unit: IV	
Topics to be covered	No.of hours
Tests of significance of Large Samples	3
Sampling –Sampling Disruption	3
Testing of Hypothesis	3
Procedure for testing of hypothesis for large samples	3
Test of significance for large samples	3
Total	15

Unit: V	
Topics to be covered	No.of hours
Tests of significance of small samples	3
T- test, F- test,	3
Problems	3
Chi-square test	3
Problems	3
Total	15

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Dr. M. SANTHI
M.Sc..B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H College
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TEACHING PLAN
For the Academic Year 2024-25 (EVENSEMESTER)

Department: Mathematics	**Programme: III B.Sc.Mathematics**

Course Code:20UMAC64	**Staff Name: Ms.H.Habeeb Rani**

Course Name: Operation Research

Unit: I	
Topics to be covered	**No.of Hours**
Linear Programming: Introduction	2
Mathematical formulation of linear programming problem	3
Graphical solution solved problems	5
General LPP Unbounded solution, Infeasible solution	2
Canonical form &Problems	1
Standard form&Problems	2
Total	15

Unit: II	
Topics to be covered	**No.of Hours**
Simplex Method:Introduction	1
Simplex method	4
Use of Artificial Variables	2
Two Phase Simplex method	1
Problems	3
Big M Method	1
Problems	3
Total	15

Unit: III	
Topics to be covered	**No.of Hours**
Degeneracy in Linear Programming	2
Introduction about Duality	3
Formulating a Dual Problem	2
Fundamental theorem of duality	2
Duality and Simplex Method	3
Dual Simplex Method for Linear Programming problem	3
Total	15

Unit: IV	
Topics to be covered	**No.of Hours**
Introduction of Transportation Problem	1
Definition of Transportation Problem	1
Mathematical formulation of Transportation problem	1
Finding Initial Basic Feasible Solution using North - West Corner Rule	3
Row Minima method- Column Minima method-Matrix Minima Method	2
Vogel's Approximation Method	2
Optimum solution	2
MODI method	3
Total	15

Unit: V	
Topics to be covered	**No.of Hours**
Assignment Problem: Introduction	2
Definition of Assignment problem	2
Mathematical formulation of Assignment Problem	2
Assignment Algorithm	1
Problems solving using assignment algorithm	3
Rule for finding the optimal Assignment – Unbalance Assignment Problem	2
Traveling salesman problem	3
Total	15

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Hajee Karutha Rowther Howdia College
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Head of the Department
Dept. Of Mathematics
H.K.R.H. College

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme:** III B.Sc Mathematics
Course Code: : 20UMAC6P	**Staff Name:** Dr. M. Santhi, Dr. P. Anitha , Dr.S.Seyadali Fathima , N. Rayshima & Dr. S .Mohamed Basheer

Course Name: Linear Programming and Optimization using in Python

Unit: I	
Topics to be covered	**No.of hours**
Program to demonstrate arithmetic operations	6
Python program to LCM and GCD of two numbers	6
Total	12

Unit: II	
Topics to be covered	No.of hours
Program using strings built-in functions	6
Python program to implement the concept lists.	6
Total	12

Unit: III	
Topics to be covered	No.of hours
Python program to illustrate the use of calendar module and time module.	4
Python program. to implement the concept of multi-threading.	2
Python program to send an E-mail	4
Python program to implement the concept of exception handling	2
Total	12

Unit: IV	
Topics to be covered	No.of hours
Python program to implement Tinder module.	6
Python program to illustrate the concept of exception handling	6
Total	12

Unit: V	
Topics to be covered	No.of hours
Python program to solve simplex method.	4
Python program to solve graphical method	2
Python program to solve shortest route problem.	4
Python program to find Network problem	2
Total	12

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.
Head of the Department
Dept Of Mathematics
H.K.R.H College
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: III B.Sc., Mathematics**

Course Code: 20UMAE61	**Staff Name: N.Rayshima**

Course Name: Graph Theory

Unit: I	
Topics to be covered	**No. of Hours**
Introduction and definitions	2
Sub graphs	2
Isomorphism, Ramsey Numbers	2
Independent sets and coverings	2
Intersection Graphs and line graphs	2
Matrices of graphs, operation on graphs	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Walks, trials and paths	2
connectedness and components	4
Blocks	3
connectivity	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Eulerian graphs	4
Hamiltonian graphs	4
Trees, Centre of a tree	4
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Matchings	4
Planar graphs	4
Characterization of planar graphs	4
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Chromatic number	3
Theorems	4
Connector Problem	2
Shortest Path Problem	3
Total	**12**

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.
Head of the Department
Dept Of Mathematics
H.K.R.H College
Uthamapalayam-625 533

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: Mathematics	**Programme: III B.Sc.Mathematics**

Course Code: 23UMAS6P	**Staff Name: Ms.H.Habeeb Rani** **Dr.M.Santhi&Dr.S.Mohamed Basheer**

Course Name: Math in LaTex

Unit: I	
Topics to be covered	**No.of Hours**
Creation of a Document with different Alignments	**3**
Typing a Letter for Applying a job.	**3**
Total	**6**

Unit: II	
Topics to be covered	**No.of Hours**
Creation of Own Bio-Data.	**3**
Creating a Table Structure.	**3**
Total	**6**

Unit: III	
Topics to be covered	**No.of Hours**
Typing a Mathematical Expression involving Differentiation, Integration and Trigonometry.	**3**
Typing a Mathematical Expression using all Expressions	**3**
Total	**6**

Unit: IV	
Topics to be covered	**No.of Hours**
Typing a Mathematical Expression using all Inequalities.	**3**
Inserting Picture in a LaTex	**3**
Total	**6**

Unit: V	
Topics to be covered	**No.of Hours**
Preparing a question paper in LaTex Format	**3**
Creation of an Article using LaTex	**3**
Total	**6**

1. M. Santhi
2. M. Santhi
3. S. Hari

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Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D
Head of the Department
Dept. Of Mathematics
H.K.R.H College
Uthamapalayam-625 533

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: Mathematics	**Programme: III B.Sc., Computer Science**

Course Code: 20UCSGE41	**Staff Name: Dr. S. Mohamed Basheer**

Course Name: Optimization Techniques

Unit: I	
Topics to be covered	**No. of Hours**
Linear Programming :Linear Programming Problem	**3**
Assumptions of Linear Programming Problem	**3**
Three Stages of Linear Programming Problem	**3**
Limitations of Linear Programming	**3**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Problem as Linear Programming Model	**3**
Illustrative examples of LP Model Formulation -General Linear Programming Problem Canonical and Standard forms of LPP	**3**
Terminology for the solution of LPP- Solving Linear Programming Problems:	**3**
Graphical Solution method.	**3**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Insights into the Simplex method	3
The computational procedure –	3
Simplex Algorithm –	3
Use of Artificial variables	3
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Transportation Problem: General Structure of a Transportation Problem –Existence of solution and degeneracy in Transportation Problem	3
Standard transportation table -Solution of a Transportation Problem	3
– Methods for finding Initial Basic feasible solution -Optimality TestStepping Stone method	3
MODI method - UnbalancedTransportation Problem	3
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Assignment Problem: Model formulation of an Assignment Problem	3
Assumptions in Assignment Problem	3
Methods of solving an Assignment Problem	3
The Hungarian Assignment algorithm	3
Total	12

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Signature of the HOD
Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept Of Mathematics
H.K.R.H College
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	Programme: III B.Sc Computer science

Course Code: 20UCSS61	Staff Name: Dr. S. Mohamed Basheer

Course Name: Technical Aptitude

Unit: I	
Topics to be covered	**No. of Hours**
C- Programming	6
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Data Structure & Algorithms	6
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Object Oriented Programming in C ++	6
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Operating System	6
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Computer Graphics & Multimedia	6
Total	6

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Hajee Karutha Rowther Howdia College
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Signature of the HOD

Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	Programme: I- M.Sc

Course Code: **23PMACC21**	Staff Name: Mr. M.Vignesh Babu

Course Name: **ADVANCED ALGEBRA**

Unit: I	
Topics to be covered	No. of Hours
Extension fields	9
Transcendence of e	9
Total	18

Unit: II	
Topics to be covered	No. of Hours
Roots or Polynomials	9
More about roots	9
Total	18

Unit: III	
Topics to be covered	No. of Hours
Elements of Galois theory	6
Fixed fields	6
Finite extension - Normal extension	6
Total	18

Unit: IV	
Topics to be covered	No. of Hours
Finite fields	9
Wedderburn's theorem on finite divisionrings	9
Total	18

Unit: V	
Topics to be covered	No. of Hours
Solvability by radicals	5
A theorem of Frobenius	5
IntegralQuaternions	4
Four - Square theorem.	4
Total	18

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H College
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme: I-M.Sc**

Course Code:: 23PMACC22	**Staff Name:Dr. M.VIJAYA SANKARI**

Course Name: REAL ANALYSIS II

Unit: I	
Topicsto becovered	**No.ofHours**
Measure on the Real line	**3**
Lebesgue Outer Measure	**3**
Measurable sets	**3**
Regularity	**3**
Measurable Functions	**3**
Borel and Lebesgue Measurability	**3**
Total	**18**

Unit: II	
Topicsto becovered	**No.ofHours**
Integration of Functions of a Real variable	**4**
Integration of Non- negative functions	**5**
The General Integral	**5**
Riemann and Lebesgue Integrals	**4**
Total	**18**

Unit: III	
Topicsto becovered	**No.ofHours**
Fourier Series and Fourier Integrals - Introduction - Orthogonal system of functions	3
The theorem on best approximation - The Fourier series of a function relative to an orthonormal system	2
Properties of Fourier Coefficients - The Riesz-Fischer Thorem	3
The convergence and representation problems in for trigonometric series	2
The Riemann - Lebesgue Lemma - The Dirichlet Integrals	2
An integral representation for the partial sums of Fourier series	3
Riemann's localization theorem.	3
Total	**18**

Unit: IV	
Topicsto becovered	**No.ofHours**
Multivariable Differential Calculus - Introduction - The Directional derivative - Directional derivative and continuity	4
The total derivative - The total derivative expressed in terms of partial derivatives	4
The matrix of linear function - The Jacobian matrix	4
The chain rule - Matrix form of chain rule - The mean - value theorem for differentiable functions	3
A sufficient condition for differentiability	3
Total	**18**

Unit: V	
Topicsto becovered	**No.ofHours**
Implicit Functions and Extremum Problems : Functions with non-zero Jacobian determinants	5
The inverse function theorem-The Implicit function theorem	5
Extrema of real valued functions of severable variables	4
Extremum problems with side conditions.	4
Total	**18**

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M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533.

M. Vijayasankari
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme:** I- M.Sc

Course Code: 23PMACC23	**Staff Name:** D.Gowsalya

Course Name: PARTIAL DIFFERENTIALEQUATIONS

Unit: I	
Topics to be covered	**No. of Hours**
Classical equations	2
Vibrating string	2
Vibrating membrane	2
Waves in elastic medium	2
Conduction of heat in solids	2
Gravitational potential	2
Second order equations in two independent variables – canonical forms	3
Equations with constant coefficients – general solution	3
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
The Cauchy problem	1
Cauchy-Kowalewsky theorem	1
Homogeneous wave equation	2
Initial Boundary value problem	2
Non-homogeneous boundary conditions	2
Finite string with fixed ends	2
Non-homogeneous wave equation	2
Riemann method – Goursat problem	2
Spherical wave equation	2

Cylindrical wave equation	2
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Separation of variable	3
Vibrating string problem	3
Existence and uniqueness of solution of vibrating string problem	3
Heat conduction problem	3
Existence and uniqueness of solution of heat conduction problem	3
Laplace and beam equations	3
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Boundary value problems	2
Maximum and minimum principles	2
Uniqueness and continuity theorem	2
Dirichlet Problem for a circle , a circular annulus, a rectangle	4
Dirichlet problem involving Poisson equation	4
Neumann problem for a circle and a rectangle	4
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
The Delta function	2
Green's function	3
Methodof Green's function	3
Dirichlet Problem for the Laplace and Helmholtz operators	3
Method of images and eigen functions	3
Higher dimensional problem	2
Neumann Problem	2
Total	**18**

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Hajee Karutha Rowther Howdia College
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Uthamapalayam Theni Dt 625533
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Dr. M. SANTHI
M.Sc..B.Ed.,M.Phil.,Ph.D.,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	Programme: I- M.Sc
Course Code: **23PMADE21**	Staff Name: Mr. M. Vignesh Babu , Dr. M. Vijayasankari , Dr. A. Benazir

Course Name: **Statistical Data Analysis using R-Programming**

Unit: I	
Topics to be covered	No. of Hours
Getting Started - Installing R- Running R	2
The Comprehensive R Archive Network - Manuals - Contributed documentation	2
Gettinghelp in R -Worked examples of functions - Demonstrations of R functions	2
Packages in R - Contents of packages - Installing packages	2
Command line versus scripts- Data editor - Changing the look of the R screen	2
Good housekeeping - Linking to other computer languages	2
Total	12

Unit: II	
Topics to be covered	No. of Hours
Essentials of the R Language - Calculations - Complex numbers in R	3
Rounding - Arithmetic -Modulo and integer quotients	3
Variablenames and assignment - Operators - Integers - Factors	2
Writing R functions- Arithmetic mean of a single sample - Median of a single sample	2
Geometric mean - Harmonic mean - Variance - Degrees of freedom - Variance ratio test	2
Total	12

Unit: III	
Topics to be covered	No. of Hours
Graphics Plots with two variables - Plotting with two continuous explanatory variables:	3
Scatterplots - Adding other shapes to a plot- Drawing mathematical functions	3

Shape and size of the graphics window - Plotting with a categorical explanatory variable	3
Plots forsingle samples - Plots with multiple variables- Special plots	3
Total	12

Unit: IV	
Topics to be covered	No. of Hours
Probability functions - Continuous probability distributions - Normal distribution	2
The central limit theorem - Maximum likelihood with the normal distribution	2
Generating random numbers with exact mean and standard deviation - Comparing data with a normal distribution	2
Other distributions used in hypothesis testing - The chi-squared distribution - Fisher's F distribution -Student's t distribution	2
The gamma distribution - The exponential distribution -The beta distribution - The Cauchy distribution - The lognormal distribution - The logistic distribution	2
The log-logistic distribution - The Weibull distribution - Multivariate normal distribution - The uniform distribution - Plotting empirical cumulative distribution functions	2
Total	12

Unit: V	
Topics to be covered	No. of Hours
Discrete probability distributions - The Bernoulli distribution - The binomial distribution	3
The geometric distribution - The hyper geometric distribution - The multinomial distribution	3
The Poisson distribution - The negative binomial distribution	3
The Wilcoxon rank-sum statistic- Analysis of Variance- ANOVA (one - way)	3
Total	12

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M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533.

M. Vijayasankar
M. V. Ganesh Babu.
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme:** I M.Sc Mathematics

Course Code: : **23PMAGE21**	**Staff Name:** Dr .A.Benazir

Course Name: CALCULUS OF VARIATIONS

Unit: I	
Topics to be covered	No.of hours
The method of variations in problems with fixed boundaries	4
Variations and its properties	4
Euler's equation	4
Total	12

Unit: II	
Topics to be covered	No.of hours
Functions of the forms Functionals involving Derivatives of Higher order	4
Functional depending on the functions of several independent variables	4
Parametric representations of variational problems	4
Total	12

Unit: III	
Topics to be covered	No.of hours
Variational Problems with Moving Boundaries	2
Certain other Problems: Simple problems with movable Boundaries	2
Problem with Movable boundaries for Functional of the form $\int_{x_0}^{x_1} F(x, y, z, y', z')dx$	3

Extremals with corners	3
One sided variations	2
Total	12

Unit: IV	
Topics to be covered	No.of hours
Sufficient conditions for an Extremum	2
Field of Extremals	3
The Function $E(x.y, p, y')$	2
Transforming the Euler Equations to the canonical form	3
Problems	2
Total	12

Unit: V	
Topics to be covered	No.of hours
Variational Problems involving a conditional Extremum	3
Constraints of the form $\varphi(x.y_1, y_2, \ldots . y_n) = 0$	3
Constraints of the form $\varphi(x.y_1, y_2, \ldots . y_n, y_1', y_2', \ldots . . y_n') = 0$	3
Isoperimetric Problems	3
	12

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Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Signature of the HOD
M. SANTHI
M.Sc..B.Ed.,M.Phil.,Ph.D..
Head of the Department
Dept. Of Mathematics
H.K.R.H College
Uthamapalayam-625 533.

Signature of the Staff

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme:** I M.Sc Mathematics

Course Code: : **23PMASE2P**	**Staff Name:** Dr.A.Benazir, Dr.M.Vijayasankari Mr.M.Vignesh Babu, Ms.D.Gowsalya

Course Name: MATHEMATICAL DOCUMENTATION USING LATEX

Unit: I	
Topics to be covered	No. of hours
Constructing Arrays & Table Using LATEX	4
Construct a document with different Alignments (Left, Right, Center, Justify)	4
Typing mathematical Expression Using All Expressions	4
Total	12

Unit: II	
Topics to be covered	No. of hours
Typing mathematical Expression Using inequalities	4
Insert Picture in a LATEX	4
Typing mathematical Expression involving Differentiation, Integration, and Trignometry	4
Total	12

Unit: III	
Topics to be covered	No. of hours
Typing a letter for Applying a job	4
Creation of an Article Using LATEX	4
Latex Code to form display 4×4 matrix using Array	4
Total	12

Unit: IV	
Topics to be covered	No. of hours
Latex Code to form a equation using Union, intersection and summation.	4
Latex Code to form display 3×3 Matrix using Nested Array	4
Latex Code to display text with bullets	4
Total	12

Unit: V	
Topics to be covered	No. of hours
Latex Code to display the Ph.D thesis format	4
Latex Code to display the Bibliography	4
Latex Code to display Logical and Visual design	4
	12

M. Vijayasankar

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Dean of Science
Hajee Karutha Rowther Howdia College
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Signature of the HOD
Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533

M.V. Joseph Babu

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	**Programme:** II M.Sc Mathematics

Course Code: : 23PMACC41	**Staff Name:** Dr.A.Benazir

Course Name: Functional Analysis

Unit: I	
Topics to be covered	No.of hours
Banach spaces: Definition and examples	3
Continuous Linear transformations	3
The Hahn Banach theorem.	3
The Natural Imbedding of N in N**	3
The open mapping theorem	3
The Conjugate of an operator.	3
Total	18

Unit: II	
Topics to be covered	No.of hours
Hilbert Spaces:The definition and some simple properties	2
Orthogonal complements	2
Ortho normal sets	2
The conjugate space H*	3
The adjoint of an operator	2
Self adjoint operators	2
Normal and Unitary operators	2
Projections	3
Total	18

Unit: III	
Topics to be covered	No.of hours
Finite Dimensional Spectral Theory	5
Matrices	5
Determinants and the spectrum of an operator	5
The spectral theorem	3
Total	18

Unit: IV	
Topics to be covered	No.of hours
General Preliminaries on Banach Algebras:The Definition and some examples	3
Regular and Singular elements	3
Topological divisors of zero	3
The Spectrum	3
The formula for the spectral radius	3
The radical and semi-simpilicity	3
Total	18

Unit: V	
Topics to be covered	No.of hours
The Structure of Commutative Banach Algebras	3
The Gelfand mapping	4
Application of the formula $r(x) = \lim \|x^n\|^{1/n}$	4
Involutions in Banach algebras	4
The Gelfand-Neumark theorem	3
Total	18

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Signature of the HOD
Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	Programme: II- M.Sc

Course Code: : 23PMACC42	Staff Name: Ms. D. Gowsalya

Course Name: Differential Geometry

Unit: I	
Topics to be covered	**No. of Hours**
Definition of space curves- Arc length	1
Tangent, normal and binormal	2
Curvature and Torsion	2
The curvature and torsion of a curve as the intersection of two surfaces	3
Contact between curves and surfaces	2
Tangent surface	2
involutes and evolutes	2
Intrinsic equations of space curves	1
Fundamental existence theorem for space curves	1
Helices	2
Total	18

Unit: II	
Topics to be covered	**No. of Hours**
Definition of a surface	2
Curves on surfaces	2
Surfaces of revolution	3
Helicoids	2
Metric	2

Direction Coefficients	2
Families of curves	3
Isometric correspondence	2
Total	18

Unit: III	
Topics to be covered	No. of Hours
Intrinsic properties	1
Geodesics	1
Canonical geodesic equations	2
Normal property of Geodesics	2
Existence theorem	2
Geodesic parallels	2
Geodesic curvature	2
Gauss-Bonnet theorem.	3
Gaussian curvature	1
Surfaces of constant curvature	2
Total	18

Unit: IV	
Topics to be covered	No. of Hours
The Second Fundamental Form	2
Principal curvature	2
Lines of curvature	2
Developables	2
Developables associated with space curves	3
Developables associated with curves on surfaces	3
Minimal surfaces	2
Ruled surfaces	2
Total	18

Unit: V	
Topics to be covered	**No. of Hours**
Introduction	2
Compact surface whose points are umbilics	3
Hilbert's lemma	2
Compact surfaces of constant Gaussian or mean curvature	3
Complete surfaces	2
Characterization of complete surface	2
Hilbert's theorem	2
Conjugate points on geodesics	2
Total	**18**

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H College
Uthamapalayam-625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Mathematics	Programme: II- M.Sc

Course Code: **23PMADE41**	Staff Name: Mr. M.Vignesh Babu

Course Name: **Resource Management Techniques**

Unit: I	
Topics to be covered	No. of Hours
Network Models	3
Minimal spanning tree algorithm	3
Shortest route algorithms	2
Critical path calculation	2
Free and total floats	2
Total	12

Unit: II	
Topics to be covered	No. of Hours
Advanced Linear Programming	4
Simplex method using the restricted basis	4
Revised simplex method	4
Total	12

Unit: III	
Topics to be covered	No. of Hours
Game Theory	3
Optimal solution of two-person zero sum games	3
Solution of mixed strategy games	3
Linear programming solution of games	3
Total	12

Unit: IV	
Topics to be covered	No. of Hours
Classical Optimization Theory	3
Jacobian method	3
Lagrangian method	3
The Newton Raphson method	3
Total	12

Unit: V	
Topics to be covered	No. of Hours
Nonlinear Programming Algorithms	4
Separable programming	4
Quadratic programming	4
Total	12

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Uthamapalayam,Theni-Dt-625533

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.,
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533

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TEACHINGPLAN

For the Academic Year 2024-25 (EVENSEMESTER)

Department: Mathematics	**Programme: II-M.Sc**

Course Code: 23PMASE41	**Staff Name:Dr. M.VIJAYA SANKARI**

Course Name: Training for Competitive Examination

Unit: I	
Topicsto becovered	**No.of Hours**
Algebra: Groups–Sub Groups-Quotients groups	**2**
Homomorphisms - Cyclic groups	**2**
Permutations-Combinations-Matrices	**3**
Rank and Determinant of matrices	**2**
Linear equations-Eigen values and Eigen vectors.	**3**
Total	**12**

Unit: II	
Topicsto becovered	**No.ofHours**
Analysis: Elementary set theory-Countable and Uncountable sets	**2**
Sequences and Series-Convergence-Continuity and Differentiability	**3**
Uniform Convergence-Algebra of complex Numbers	**3**
Polynomials-Power Series-Analytic functions	**2**
Cauchy Riemann Equations-Calculus of Residues-Singular points.	**2**
Total	**12**

Unit: III	
Topicsto becovered	**No.ofHours**
Differential Equations:Existence and Uniqueness of solutions of IVP	**2**
General Theory of Homogeneous and non-homogeneous linear ODE's	**3**
Lagrange and Charpit Methods for solving first order PDE's	**3**
Method of Separation of variables for Laplace, Heat and Wave Equations.	**4**
Total	**12**

Unit: IV	
Topicsto becovered	**No.ofHours**
Percentage	**4**
profit and loss	**3**
proportion	**2**
partnership	**3**
Total	**12**

Unit: V	
Topicsto becovered	**No.ofHours**
Simple Interest	**6**
Compound interest	**6**
Total	**12**

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Dr. M. SANTHI
M.Sc.,B.Ed.,M.Phil.,Ph.D.
Head of the Department
Dept. Of Mathematics
H.K.R.H. College
Uthamapalayam-625 533.

Signature oftheStaff

Hajee Karutha Rowther Howdia College (Autonomous)

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: BOTANY	**Programme : I B.Sc CHEMISTRY**
Course Code: 23UBYGE2P	**Staff Name: Dr A Maajitha Begam & Mrs. A M Rashida Banu**
Course Name: Allied Botany Practical	

Unit: I	
Topics to be covered	**No. of Hours**
To prepare a temporary slide of *Anabaena*	**1**
To prepare a temporary slide of *Sargassum* Stem, leaf	**1**
To prepare a temporary slide of *Pencillium*	**1**
To prepare a temporary slide of *Agaricus* gills	**1**
To observe a Permanent slide of *Funaria* capsule	**1**
To prepare a temporary slide of *Lycopodium*	**1**
To prepare a temporary slide of *Cycas*	**1**
Total	**7**

Unit: II	
Topics to be covered	**No. of Hours**
Morphology of leaf	**1**
Phyllotaxy	**1**
Inflorescence and its types – Racemose and Cymose	**2**
Dissection and taxonomic description of plants belonging to families - Rutaceae, Caesalpiniaceae, Asclepiadaceae, Euphorbiaceae and Cannaceae	**7**
Total	**11**

Unit: III	
Topics to be covered	**No. of Hours**
T.S of Dicot stem, root, leaf and Monocot stem, root, leaf	**5**
To observe permanent slides of different types of cells	**1**
T.S of Anther, L.S of Ovule	**1**
Total	**7**

Unit: IV	
Topics to be covered	**No. of Hours**
Monohybrid cross, Dihybrid cross	**1**
Incomplete dominance cross	**1**
Tools of Plant Tissue Culture	**1**
Total	**3**

Unit: V	
Topics to be covered	**No. of Hours**
Ganong's Respiroscope experiment	**1**
Ganong's Light Screen experiment	**1**
Total	**2**

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Uthamapalayam,Theni-Dt-625533

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Department of Botany
Hajee Karutha Rowther Howdia College,
Uthamapalayam (Post),
Theni (District) - 625 533.

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Uthamapalayam, Theni District - 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: BOTANY	**Programme: II B. Sc. Zoology**

Course Code: 23UBYGE41	**Staff Name: Dr. A. Maajitha Begam & A. M. Rashida Banu**

Course Name: ALLIED BOTANY II

Unit: I	
Topics to be covered	**No.of Hours**
Introduction – Plant and its parts - Root, Structure and function	2
Stem- Structure and function	2
Leaf and its parts. Types – Simple and Compound.	2
Phyllotaxy – and Types.	2
Inflorescence - Racemose, Cymose and Special types	2
Terminology with reference to flower description.	2
Total	**12**

Unit: II	
Topics to be covered	**No.of Hours**
Rutaceae	3
Euphorbiaceae	2
Asclepiadaceae	3
Caesalpiniaceae	2
Cannaceae	2
Total	**12**

Unit: III	
Topics to be covered	**No.of Hours**
Simple and Permanent tissues: Parenchyma, Collenchyma, Sclerenchyma.	2
Complex permanent tissues: Xylem	2

Phloem	2
Primary anatomical structure of Dicot Stem	1
Primary anatomical structure of Dicot Root and Monocot Root	2
Comparison of Primary anatomical structure of monocot stem with Dicot Stem	2
Primary anatomical structure of Dicot Leaf	1
Total	**12**

Unit: IV	
Topics to be covered	**No.of Hours**
Structure of mature Anther and Ovule	2
Types of Ovules	2
Structure of Embryo Sac	2
Pollination	2
Double Fertilization	2
Structure of Dicotyledonous and Monocotyledonous Seeds.	2
Total	**12**

Unit: V	
Topics to be covered	**No.of Hours**
Absorption of water	2
Photosynthesis-light reaction-Calvin cycle	3
Respiration-Glycolysis-Krebs cycle.	2
Electron Transport System	1
Growth hormones - Auxins and their applications.	2
Cytokinins and their applications	2
Total	**12**

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Dr.K.SHAHUL HAMEED,Ph.D.,
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Uthamapalayam,Theni-Dt-625533

Signature of the HOD
Department of Botany
Hajee Karutha Rowther Howdia College,
Uthamapalayam (Post),
Theni (District) - 625 533.

Signature of the Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: BOTANY	**Programme : II B.Sc Zoology**

Course Code: 23UBYGE4P	**Staff Name: Dr A Maajitha Begam & Mrs. A M Rashida Banu**

Course Name: Allied Botany Practical

Unit: I	
Topics to be covered	**No. of Hours**
To prepare a temporary slide of *Anabaena*	**1**
To prepare a temporary slide of *Sargassum* Stem, leaf	**1**
To prepare a temporary slide of *Pencillium*	**1**
To prepare a temporary slide of *Agaricus* gills	**1**
To observe a Permanent slide of *Funaria* capsule	**1**
To prepare a temporary slide of *Lycopodium*	**1**
To prepare a temporary slide of *Cycas*	**1**
Total	**7**

Unit: II	
Topics to be covered	**No. of Hours**
Morphology of leaf	**1**
Phyllotaxy	**1**
Inflorescence and its types – Racemose and Cymose	**2**
Dissection and taxonomic description of plants belonging to families - Rutaceae, Caesalpiniaceae, Asclepiadaceae, Euphorbiaceae and Cannaceae	**7**
Total	**11**

Unit: III	
Topics to be covered	**No. of Hours**
T.S of Dicot stem, root, leaf and Monocot stem, root, leaf	**5**
To observe permanent slides of different types of cells	**1**
T.S of Anther, L.S of Ovule	**1**
Total	**7**

Unit: IV	
Topics to be covered	**No. of Hours**
Monohybrid cross, Dihybrid cross	**1**
Incomplete dominance cross	**1**
Tools of Plant Tissue Culture	**1**
Total	**3**

Unit: V	
Topics to be covered	**No. of Hours**
Ganong's Respiroscope experiment	**1**
Ganong's Light Screen experiment	**1**
Total	**2**

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(Autonomous)
Uthamapalayam,Theni-Dt-625533

Signature of the HOD
Department of Botany
Hajee Karutha Rowther Howdia College,
Uthamapalayam (Post),
Theni (District) - 625 533.

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: BOTANY	**Programme: I B. Sc. CHEMISTRY**
Course Code: 23UBYGE21	**Staff Name: Dr. A. MAAJITHA BEGAM and A. M. RASHIDA BANU**
Course Name: ALLIED BOTANY II	

Unit: I	
Topics to be covered	**No.of Hours**
Introduction – Plant and its parts - Root, Structure and function	2
Stem, Structure and function	2
Leaf and its parts. Types – Simple and Compound.	2
Phyllotaxy – and Types.	2
Inflorescence - Racemose, Cymose and Special types	2
Terminology with reference to flower description.	2
Total	**12**

Unit: II	
Topics to be covered	**No.of Hours**
Rutaceae	3
Euphorbiaceae	2
Asclepiadaceae	3
Caesalpiniaceae	2
Cannaceae	2
Total	**12**

Unit: III	
Topics to be covered	**No.of Hours**
Simple and Permanent tissues: Parenchyma, Collenchyma, Sclerenchyma.	2
Complex permanent tissues: Xylem	2
Phloem	2

Primary anatomical structure of Dicot Stem	1
Primary anatomical structure of Dicot Root and Monocot Root	2
Comparison of Primary anatomical structure of Monocot Stem with Dicot Stem	2
Primary anatomical structure of Dicot Leaf	1
Total	**12**

Unit: IV	
Topics to be covered	**No.of Hours**
Structure of mature Anther and Ovule	2
Types of Ovules	2
Structure of Embryo Sac	2
Pollination	2
Double Fertilization	2
Structure of Dicotyledonous and Monocotyledonous Seeds.	2
Total	**12**

Unit: V	
Topics to be covered	**No.of Hours**
Absorption of water	2
Photosynthesis-Light Reaction-Calvin cycle	3
Respiration-Glycolysis-Krebs cycle.	2
Electron Transport System	1
Growth hormones - Auxins and their applications.	2
Cytokinins and their applications	2
Total	**12**

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Uthamapalayam,Theni-Dt-625533

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Department of Botany
Hajee Karutha Rowther Howdia College,
Uthamapalayam (Post),
Theni (District) - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: BOTANY	**Programme: I B.Sc/B.A/B.Com**

Course Code: 23UBYSE21	**Staff Name: Dr A Maajitha Begam & Mrs. A M Rashida Banu**

Course Name: MUSHROOM CULTIVATION

Unit: I	
Topics to be covered	**No. of Hours**
Introduction: Morphology, Types of Mushroom	**1**
Identification of edible and poisonous mushroom, Nutritive values	**2**
life cycle of common edible mushrooms	**2**
Total	**5**

Unit: II	
Topics to be covered	**No. of Hours**
Mushroom cultivation	**3**
prospects and scope of Mushroom cultivation in small scale Industry	**4**
Total	**7**

Unit: III	
Topics to be covered	**No. of Hours**
Life cycle of Pleurotus spp.	**3**
Life cycle of Agaricus spp.	**3**
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Spawn production, growth media, spawn running	**3**

Harvesting of mushrooms and marketing.	3
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Diseases and post harvest technology	2
Insect pests, nematodes, mites, viruses	2
Fungal competitors and other important diseases	2
Total	6

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(Autonomous)
Uthamapalayam,Theni-Dt-625533

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Hajee Karutha Rowther Howdia College,
Uthamapalayam (Post),
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: II B.Sc., Zoology**
Course Code: 23UGEVS41	**Staff Name: Dr. M. Ashiq Ur Rahman (Units- 1,2,3,4 & 5)**
Course Name: Environmental Studies	

Unit: I	
Topics to be covered	**No. of Hours**
Earth and its Environment: a) Earth-formation and Evolution of Earth over time structure of Earth and its components -	2
Atmosphere, Lithosphere, Hydrosphere and Biosphere.	2
b) Resources renewable and nonrenewable resources	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Ecology and ecosystem concepts: a) Ecology definition Ecosystem: Definition- structure and function energy flow	1
food chain and Food web one example for an ecosystem	1
b) Biogeochemical cycles - Nitrogen, carbon, Phosphorous and Water	4
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Biodiversity of India: a) Introduction - definition - Values of Biodiversity -	1
Threat to Biodiversity - Conservation of Biodiversity	1
b) Biodiversity of India as a mega diversity nation bio-geographical distribution	2
Hot spots of biodiversity - National Biodiversity Conservation Board and its function	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Pollution and Global issues: a) Definition, causes, effects and control measures of Air, Water, Soil, Marine, Noise, 'Thermal and Nuclear pollution	4
b) Global issues: Global Warming and Ozone Layer Depletion	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Development and Disaster Management: a) Sustainable Development - Sustainable Agriculture - Organic farming, Irrigation Water harvesting and Waste recycling Cyber waste and management	2
b) Disaster Management Flood and Drought Earthquake and Tsunami Avalanches - Cyclones and Hurricanes -Precautions, Warnings, Rescue and Rehabilitation.	2
Landslides and Avalanches-Cyclones and Hurricanes-Precautions, Warnings, Rescue & Rehabilitation.	2
Total	6

Forwarded by

Dean
Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Verified by

HOD
Department of Zoology,
H K R H College,
Uthamapalayam.

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Staff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: B.Sc.,Zoology**

Course Code: 23UZYCC21	**Staff Name: Dr. M. Ashiq Ur Rahman (Units- 1,2)** **Dr.M. Mohiadeen Batcha (Unit- 3&4)** **Dr.M. Mohamed Meeran (Units-4&5)**

Course Name: Chordata

Unit: I	
Topics to be covered	**No. of Hours**
Taxonomy & Phylum Chordata - Chordates Characteristics -	2
Outline classification up to class level with examples.	2
Cephalochordate- Amphioxus External Morphology-	3
Digestive system- Excretory System only.	2
Urochordata- Tadpole Larva and Retrogressive metamorphosis in Ascidian	3
Hemichordate- Balanoglossus external Morphology	3
Affinities of Hemichordate	3
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
PISCES & AMPHIBIANS- General Characters and classification of Fishes and Amphibians up to order level with examples.	2
Pisces- Shark: External Morphology and Digestive system only	2
Migration of Fishes- Agnatha-Petromyzon	3
External Morphology –Amphibia- General Characters and classification	2
Ranahexadactyla- External Morphology	3
Respiratory system Only	3
Parental Care in Amphibians.	3
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**

REPTILES- General Characters and classification of Reptiles up to orders with examples.	2
Calotes: External Morphology- Heart	2
Arterial and Venous system only.	3
Snakes of India-Poisonous and non-poisonous snakes	2
Identification	3
Biting mechanism	3
Origin, Dominance and Decline of Mesozoic reptiles.	3
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
AVES: General Characters and classification of Aves up to orders with examples.	3
***Columba livia*- Pigeon:** External Morphology	3
Respiratory System	4
Synsacrum	2
Pectoral and Pelvic girdles only	4
Flightless Birds	2
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
MAMMALS: General Characters and classification of Mammals up to orders with examples	3
General Characters of Prototherians	2
General Characters of Metatherians	2
General Characters of Eutherians with examples	2
Rabbit: External Morphology	2
Excretory system and	2
Reproductive System only	3
Dentition in Mammals, Adaptations of Aquatic Mammals	2
Total	**18**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: I B.Sc., ZOOLOGY**

Course Code: 23UZYCC2P	**Staff Name: Dr. M. Mohiadeen Batcha (Units-1,2&3)** **Dr. K. Arifa Banu (Units-1,3&4)** **Dr. M. Ashiq Ur Rahman (Units-1,4&5)**

Course Name: CHORDATA LAB COURSE

Unit: I	
Topics to be covered	**No. of Hours**
Dissections:Frog, Fish:External Features,Digestive System,	2
Arterial System,Venous System, Vthcranial Nerve,IXthand X Thcranial Nerves	2
Male And Female Urinogenital System	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Fish: Placoid Scales, Ctenoid Scales	2
Frog: Hyoid Apparatus	2
Frog: Brain	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Frog: Skull And Lower Jaw	1
Vertebral Column, Pectoral Girdle, Pelvic girdle ,Forelimb, Hind limb	2
Chelonia-Anapsid Skull	1
Pigeon - Skull And Lower Jaw, Synsacrum	2
Total	6

Unit: IV

Topics to be covered	No. of Hours
(I) Hemichordata: Balanoglossus, Tornaria Larva (ii). protochordata: amphioxus, amphioxus t.s. through pharynx	1
(iii). Cyclostomata: Petromyzon, Myxine, Ammocoetus larva (iv). Pisces: Sphyrna Pristis, Torpedo, Channa, Pleuronectes, Hippocampus, Exocoetus, Echieneis, Labeo, Catla, Clarius, Auguilla, Protopterus, Scales: Placoid, Cycloid, Ctenoid	2
(v). Amphibia: Ichthyophis, Amblystoma, Siren, Hyla, Rachophous,Bufo,Rana, Axolotallarva (vi). Reptilia : Draco, Chemaeleon, Gecko, Uromastix, Vipera russelli, Naja, Bungarus, Enhydrina, Typhlops, Testudo, Trionyx, Crocodilus, Ptyas	1
(vii). Aves: Archaeopteryx, Passer, Psittacula, Bubo, Alcedo, Columba, Corvus, Pavo; Collection and study of different types of feathers: Quill, Contour, Filoplume, Down (viii). Mammalia: Ornithorhynchus, Tachyglossus, Pteropus, Funambulus, Manis, Loris, Hedgehog	2
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Stages in the development of Amphioxus,	1
Stages in the development of Frog.	2
Stages in the development of Chick	2
Placenta in shark and mammals.	1
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: Ist BSc Chemistry**

Course Code:23UZYGE21	**Staff Name:Dr.M.Mohiadeen Batcha (Unit 3,4,5)** **Dr.M.Mohamed Meeran (Unit 1,2,3)**

Course Name: Allied Zoology -II

Unit: I	
Topics to be covered	**No. of Hours**
Cell Biology, Animal cell structure and function of Cell membrane	**3**
Mitochondria and Endoplasmic reticulum	**2**
Microbiology: structure of prokaryotic cell, *E.coli*	**3**
T4 phage, morphology of bacteria, *coccus, bacillus*	**2**
Spirochetes and comma shaped bacteria	**2**
Total	**12 hours**

Unit: II	
Topics to be covered	**No. of Hours**
Developmental biology-structure of sperm and ovum in frog, fertilization	**3**
Cleavage and placentation in mammals	**2**
Classification and function-test tube baby	**3**
Biotechnology- transgenic animals	**2**
DNA finger printing and application	**2**
Total	**12 hours**

Unit: III	
Topics to be covered	**No. of Hours**
Genetics-Mendel's law, mono and di hybrid crosses	3
Linkage and crossing over, sex determination in humans	2
Molecular biology: structure and functions of DNA	3
t-RNA structure and function, DNA replication	2
Protein synthesis	2
Total	**12 hours**

Unit: IV	
Topics to be covered	**No. of Hours**
Biochemistry and animal physiology: classification of carbohydrates, proteins	3
Classification of lipids with examples, mechanism of respiration	2
Transport of gases, structure of nephron	3
Structure of neuron, ecosystem components, food chain and its types	2
Food web, ecological pyramids.	2
Total	**12 hours**

Unit: V	
Topics to be covered	**No. of Hours**
Immunology: types of immunity (innate and acquired immunity),lymphoid organs(primary)	3
Secondary lymphoid organs, immunoglobulin structure and its types	2
Antigen and antibody reactions.	3
Evolution: Lamarckism and Darwin's theory	2
Human evolution	2
Total	**12 hours**

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2 hours

TEACHINGPLAN

For the Academic Year 2024-25 (EVENSEMESTER)

Department: ZOOLOGY	**Programme: B.Sc. Chemistry**

Course Code: 23UZYGE2P	**Staff Name: Dr.M. Mohamed Meeran (Units- 1-5)**

Course Name: Allied- Zoology Practical

Unit: I	
Topics to be covered	**No. of Hours**
Earthworm Nervous system	**2**
Cockroach Digestive system	**2**
Cockroach Nervous system	**2**
Pila Digestive system	**2**
Frog- Arterial &Venous system	**4**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Earthworm-Body setae	**2**
Honey Bee-Mouth Parts. Spotters-Protozoa- Paramecium, Entamoeba, Porifera- Sponges-Gemmules-Spicules-Obelia colony	**2**
Sea Anemone- Helminthes-Liver fluke-Ascaris (Male, female),	**2**
Annelids: Earthworm-Leech-Prawn-Peripatus-Star fish, Sea cucumber	**2**
	4
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Prochordates: Amphioxus, Balanoglossus, Ascidian. Agnatha- Petromyzon.	**2**
Pisces-Hippocampus, Tilapia Amphibian- Bufo, Salamander	**2**
Reptiles- Poisonous snakes-Cobra, Krait, Viper.	**2**

Non-Poisonous snakes- Dryophis, Ptyas, Lizard, Chaemeleon, Draco	2
Aves- Pectoral & Pelvic girdle of pigeon	2
Archaeopteryx, Mammals- Bat, Loris.	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Charts-Mitochondria, Endoplasmic reticulum. Identification DNA Model,	4
Stages of Frog- Egg, Sperm,	4
Blastula, Gastrula	2
Sheep placenta	1
Mitotic stages, tRNA model	1
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Simple staining of nonpathogenic bacteria and morphological structure.	1
Preparation of Onion root tip and observation of mitotic stages	2
Mounting squamous epithelial cells	2
Test for Ammonia, Urea, Uric acid	2
Qualitative test for Carbohydrates, Proteins, Lipids.	2
Study of Mendelian traits in man	2
Human Blood grouping	1
Total	**12**

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3 hours

TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: III B.Sc Zoology**
Course Code: 20UZYC6R	**Staff Name: Dr. K. ArifaBanu& Dr. A. MaajithaBegam**
Course Name: Part -III – Practical-V Physiology, Biotechnology & Evolution	

Unit: I	
Topicstobecovered	**No.ofHours**
Amylase activity in human saliva in relation to pH	**6**
Amylase activity in human saliva in relation to Temperature.	**6**
Estimation of oxygen consumption in fish.	**6**
Total	**18**

Unit: II	
Topicsto becovered	**No.ofHours**
Blood pressure demonstration under normal condition and stress.	**6**
Estimation of haemoglobin by haemoglobinometer.	**6**
Enumeration of nitrogenous waste products in fish tank water, bird excreta & mammalian urine for detection of ammonia, Urea & Uric Acid	**6**
Total	**18**

Unit: III	
Topicsto becovered	**No.ofHours**
Enumeration of blood cells by haemocytometer.	**6**
Demonstration of P.C.R technique	**6**
Southern blot (Demo through CD)	**6**
Total	**18**

Unit: IV	
Topicsto becovered	**No.ofHours**
Homologous and Analogous organs.	**6**
Vestigial organs.	**6**
Fossils.	**6**
Total	**18**

Unit: V	
Topicsto becovered	**No.ofHours**
Examples of evolutionary importance – Peripatus and Limulus.	**6**
Animals with adaptive colouration – Leaf insect, Stick insect and Chaemeleon.	**6**
Variation – Finger prints.	**6**
Total	**18**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: I.B.A., B.Sc., B.Com.,**

Course Code: 23UZYSE21	**Staff Name: Dr.M. Mohamed Meeran(Units- 1-5)**

Course Name: Medical Laboratory Techniques(Non Major Elective)

Unit: I	
Topics to be covered	**No. of Hours**
Laboratory Safety and Human Health-Laboratory Safety- Toxic chemicals and biohazards waste- biosafety level-good laboratory practice- hygiene and health issue-	2
Physiology effect of alcohol, tobacco, smoking & junk food & its treatment	2
Biochemical waste management	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Haemotology- Composition of blood and their functions-collection of blood & lab procedure-haemopoiesis-types of anaemia-	2
Mechanism of blood coagulation-bleeding time-clotting time-determination of haemoglobin- ESR-packed cell volume-	2
Total count of RBC &WBC-Differential count WBC-Blood grouping and typing-haemostasis-bleeding disorder of man- Haemolytic disease of newborn-platelet count, reticulocytes count-Absolute Eosinophil count.	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Medical Microbiology and Instrumentation Techniques- Definition and scope of microbiology-structure and functions of cells-parasites-	2
Entamoeba-Plasmodium, leishmania and Trypnosome-	2
Computer tomography (CT Scan)-Magnetic resonance imaging-flow cytometry-tread mill test-PET.	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Medical Physiology-Cardiovascular system-Blood pressure-Pulse-	2
Regulation of heart beat-cardiac shock-Heart sounds-Electrocardiogram(ECG)-Significance	2

Ultrasonography-Electroencephalography(EEG)	2
Total	6
Unit: V	
Topics to be covered	**No. of Hours**
Diagnostic Pathology-Handling and labelling of histology specimens-Tissue Processing-Processing of histological tissues for paraffin embedding, block preparation-Microtomes.	2
Types of microtome-sectioning-staining- and its methods-vital staining-mounting.	2
Problems encountered during section cutting and remedies-frozen section techniques- freezing microtome.	2
Total	6

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: I B.Sc Zoology**
Course Code: 23UZYSE22	**Staff Name: Dr M. Ashiq Ur Rahman & Ms. A. M. Rashida Banu**
Course Name: Food, Nutrition and Health	

Unit: I Nutrition and Dietary Nutrients	
Topics to be covered	**No. of Hours**
Basic concepts of Food: Components and Nutrients, Concept of Balanced diet,	1
Nutrient requirements and Dietary pattern for different groups viz., adults, pregnant and nursing mothers	2
Nutrient requirements Dietary pattern for different groups viz., Infants, School children	1
Nutrient requirements Dietary pattern for different groups viz., Adolescents and Elderly people	2
Total	6

Unit: II Macronutrients and Micronutrients	
Topics to be covered	**No. of Hours**
Macronutrients – Carbohydrates, Lipids, Proteins – Definition, their Dietary source and Role	1
Micronutrients- Definition, their Dietary source and Role	1
Vitamins- water soluble and fat soluble vitamins their sources and importance	1
Important minerals viz., Iron, Calcium, Phosphorus their Biological Functions	2
Iodine, Selenium and Zinc their Biological Functions	1
Total	6

Unit: III Malnutrition Deficiency Disease	
Topics to be covered	**No. of Hours**
Definition and concept of health: Common nutritional deficiency diseases – Protein Malnutrition (eg. Kwashiorkor and Marasmus)	2
Vitamin A deficiency, Iron deficiency disorder their symptoms, treatment, prevention and government initiatives	2

Iodine deficiency disorder their symptoms, treatment, prevention and government initiatives	2
Total	**6**

Unit: IV Life style Dependent Diseases	
Topics to be covered	**No. of Hours**
Life style dependent diseases- Hypertension, Diabetes mellitus and Obesity their causes and prevention	2
Social health problems- Smoking, Alcoholism, Narcotics.	2
Acquired Immune Deficiency Syndrome (AIDS) – causes, treatment and prevention.	2
Total	**6**

Unit: V Diseases caused by Microorganisms	
Topics to be covered	**No. of Hours**
Food Hygiene: Potable water- sources and methods of purification at domestic level.	2
Food and Water borne infections: Bacterial disease : Typhoid fever, Viral Diseases: Poliomyelitis	2
Protozoan Diseases: Giardiasis , Parasitic diseases : Taeniasis and their transmission, causative agent, sources of infection, symptoms and prevention	2
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: II B.Sc., Zoology**

Course Code: 23UZYCC41	**Staff Name: Dr. M. Ashiq Ur Rahman (Units- 1,2 & 3)** **Dr. M. Mohamed meeran (Units- 3,4 & 5)**

Course Name: Developmental Biology

Unit: I	
Topics to be covered	**No. of Hours**
Gametogenesis & Fertilization Basic concepts of developmental biology.	**3**
Structure& types of Spermatozoa, Mammalian egg - Egg membranes. types of egg -	**3**
Spermatogenesis – Oogenesis. Fertilization – mechanism, theories and significance	**4**
Parthenogenesis	**2**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Blastulation& Gastrulation Cleavage - Planes and Patterns, Factors controlling cleavage -	**4**
Fate map and its construction. Blastulation –types of blastula.	**4**
Morphogenetic movements - Gastrulation of frog & chick.	**4**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Organogenesis Development of Brain, Eye and Heart in frog.	**6**
Development of Nervous system in chick. Foetal membranes in chick.	**2**
Development of Pro, Meso Meta nephric kidneys.	**2**
Placentation in Mammals.	**2**
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Applied Embryology Organizer concept –Structure – mechanism of induction and competence.	3
Nuclear transplantation - teratogenesis –	2
Regeneration: types - events and factors. Embryonic stem cells & significance.	4
Methods to culture embryo	3
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Human embryology Reproductive organs, Menstrual cycle and menopause - Pregnancy – trimesters – development.	4
Erythroblastosis foetalis -Twins – types.	4
Infertility – causes - Test tube baby and Assisted Reproductive Technology – Embryo transfer – Amniocentesis.	4
Total	12

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: II B.Sc., ZOOLOGY**

Course Code: 23UZYCC4P	**Staff Name: Dr. K. Arifa Banu** **Dr. M. Mohideen Batcha** **Dr. M. Ashiq Ur Rahman**

Course Name: Cytogenetics Lab Course

Unit: I	
Topics to be covered	**No. of Hours**
Preparation and identification of slides of mitotic divisions with onion root tips.	**3**
Preparation and identification of different stages of meiosis in grasshopper testes.	**2**
Identification and study of different stages of mitosis and meiosis	**2**
Buccal epithelium (Barr body) preparation.	**2**
Total	**9**

Unit: II	
Topics to be covered	**No. of Hours**
Staining and observation of polytene chromosomes in salivary glands of chironomous larva.	**3**
Karyotyping (with the help of photographs)	**1**
Normal male and female karyotypes and study of karyotypes of different genetic syndromes.	**3**
Verification of the mendelian laws of inheritance using coloured beads. Observation of genetic traits	**2**
Total	**9**

Unit: III	
Topics to be covered	**No. of Hours**
Histochemistry and micro techniques, fixation and fixative, types of fixatives, chemistry of fixation.	**2**
Choice of fixatives tissue processing, dehydration, clearing and embedding microtomy.	**2**
Types of microtomes, sectioning of paraffin blocks, staining of paraffin sections.	**3**
Principle and methods of staining, Histological stains. Haematoxylin and Eosin.	**2**

Total	**9**

Unit: IV	
Topics to be covered	**No. of Hours**
Culturing and handling *Drosophila*, Media preparation, cleaning and sterilization of bottles.	2
Handling of *Drosophil*a, Morphology and sexual Dimorphism, Study of atleast five types Drosophila.	2
Body colour,mutant, Ebony body and yellow body, wing mutant, curly wing and vestigial wing.	3
Eye colour mutant, Bar eye, white eye, sepia eye. Mounting of sex comb of *Drosophila melanogaster*	2
Total	**9**

Unit: V	
Topics to be covered	**No. of Hours**
Study of flower colour in *Antirrhinum mirabilis*, coat colour in mice, comb pattern in poultry. Blood typing.	2
Biometrical computation of mean, median and mode. variance, standard deviation. Problems on Student T test and chi square test.	3
Genetic problems of multiple alleles, gene interactions (complementary, supplementary, Dominant epistasis gene interaction.	2
Genetic problem on linkage and crossing over 03 Prs, a) Drosophila, b) Maize. c) Human (sex linkage)	2
Total	**9**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: II B.Sc., Zoology**

Course Code: 23UZYSE41	**Staff Name: Dr. M. Ashiq Ur Rahman (Units- 1,2,3,4 & 5)**

Course Name: Agricultural Entomology

Unit: I	
Topics to be covered	**No. of Hours**
Outline classification of insects	**2**
Causes for insect assuming pest status	**2**
Methods of collection, mounting and preservation of insect pests.	**2**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Insect vectors of plant diseases Insect pests of stored grains their preventive and curative methods, most common insect pests of the following plants and their control measures: Paddy,	**2**
Sugarcane, Groundnut, Coconut and Cotton	**2**
Locust and its control. Insect pollinators & scavenger.	**2**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Apiculture Introduction, types of honey bees, hive, apiary, selection of bees for apiary,	1
Newton's bee hive, enemies and diseases of honey bees.	2
Sericulture: Introduction, types of silk worms, silk worm races, life history of mulberry silk worm, features of sericulture industry, pests and diseases of silk worm.	2
Lac Culture.	1
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Applied Entomology - IPM,	2
physical, mechanical, chemical and biological control methods,	2
Pesticide application equipment.	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Introduction and steps towards IPM - Pheromones,	2
antifeedents, repellents and	2
biopesticide.	2
Total	6

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: B.Sc**

Course Code:23UZYSE42	**Staff Name: Dr.P.Raja (1,2,3,4,5 Units)**

Course Name: Biocomposting For Entrepreneurship

Unit: I	
Topics to be covered	**No. of Hours**
Biocomposting: definition, Types and ecological importance.	**6**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Types of Biocomposting technology: field pits/ ground heaps.	**3**
Tank/ large scale/batch and continuous methods.	**3**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Preparation of Biocompost: Pit and bed using different amendments.	**6**
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Applications of Biocompost: Biocomostin soil fertility maintenance, promotion of plant growth	**4**
Value added products, waste reduction, etc.	**2**
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Economics of establishment of a small biocompost unit: Project report proposal for self help group (income and employment generation).	**6**
Total	**6**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: III B.Sc Zoology**
Course Code: 20UZYC61	**Staff Name: Dr. A. Maajitha Begam & Mrs. A. M. Rashida Banu**
Course Name: Part -III – Biotechnology	

Unit: I	
Topics to be covered	**No. of Hours**
Conventional Vs Modern biotechnology;Multi-disciplinary tree	2
Tools for Genetic engineering	2
Recombinant DNA (rDNA) Technology	2
Gene Cloning and its tools	2
Host, Vectors, Enzymes, Cosmids.	4
Major Steps involved in cloning of Humaninsulin Gene.	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Gene cloning strategies: Selection of desired DNA fragments, linkers andadapters,	3
Transformation (heatshock, electroporation, microinjection), transfection.	2
Direct gene transfer throughTi plasmid.	2
Screening of recombinants: colony hybridization, antibiotic based, blue whitescreening, Imuno based.	3
Construction of genomic, cDNA libraries& Gene therapy	5
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Cloning of Animals- methods and its uses;	2
Application of transgenic Animals- in ; rDNA Protein production – Interferon, Interleukin,	

Urokinase application in Fish & Sheep; Transgenic Animals- Fish & Sheep	4
Transgenic Animals- Fish & Sheep. rDNA vaccines (types only)	3
Hybridoma Technology- Production and application of Monoclonal Antibodies MCA/ Mabs;	2
Polymerase chain reaction (PCR), Blotting techniques- Southern& Northern blots	2
DNA finger printing and its uses	2
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Plant cell and tissue culture (PTC), culture media,	3
Types of plant tissue cultures (Callus, suspension, meristem culture	3
Anther & ovule cultures	2
Protoplast culture	2
Micropropagation and somatic embryogenesis.	3
Applications of PTC	2
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Biodegradation – Definition- Xenobiotics-	3
Biodegrading agents- treatment of toxic pollutants and its advantages	4
Psedomonasputida- Super Bug	4
Rural biotechnology: Red, White, Blue & Green biotechnology.	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: III B.Sc., ZOOLOGY**

Course Code: 20UZYC62	**Staff Name: Dr. M. Mohiadeen Batcha (Units 1,2 & 3,4,5)**

Course Name: Animal Physiology

Unit: I	
Topics to be covered	**No. of Hours**
Digestion: Physicochemical process of digestion and absorption of Carbohydrate-Proteins and Lipids.	3
Respiration: Kinds of respiration-Respiratory organs and mode of respiration found among animals	4
Role of mitochondria in respiration-respiratory pigments – transport of oxygen and carbon dioxide	4
Respiratory Quotient –Mechanism of pulmonary respiration	4
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Excretion: Structure of nephron-Kidney-principle excretory organ- Formation of Urine	3
Circulation: Structure and composition ofblood- Functions of the circulatory system	4
Mechanism of Heart beat- Pace makers-ECG- Blood pressure and Blood coagulation	4
Thermoregulation: Poikilotherms and Homeotherms	4
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Muscle physiology: Ultra structure of muscle-Mechanism of muscle contraction and relaxation	4
Nerve physiology: Ultra structure of neuron –physiology of nerve coordination	3
Nerve impulse and conduction of nerveimpulse-Reflex Action: definition of vision	4
hearing in man- Autonomic nerve system	4
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Sense organ-Classification of sense organs	**4**
Mechano receptors-primary sense cells:pressure, pain &touch receptors- Equilibrium receptors	**3**
Thermo receptors-chemoreceptors- photoreceptors	**4**
Chronobiology: characteristics of Circadian rhythm – examples	**4**
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Endocrine & Neuro endocrine system inCrustaceans & Vertebrates	**3**
Hormonal function: Pituitary- Thyroid	**4**
Parathyroid-adrenal- Islets of Langerhans	**4**
Testes and Ovary	**4**
Total	**15**

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TEACHING PLAN

For the Academic Year 2021-22 (ODD / EVEN SEMESTER)

Department: Zoology	**Programme: B.Sc. Zoology**

Course Code:20UZYC63	**Staff Name: Dr. K. Arifa banu**

Course Name: Economic Entomology & Sericulture Technology

Unit: I	
Topics to be covered	**No. of Hours**
Introductory Entomology: Introduction -	**1**
Salient features of Insects - Dominance of insects among animals -	**2**
Insect classification up to order level with examples (List only)-	**5**
Economic classification of insects with examples (List only).	**2**
Insect development and metamorphosis- Egg, larval and pupal types.	**2**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Beekeeping: Systematic position of honeybee,	**1**
Kinds of honeybees	**2**
Habits and habitat,	**3**
Population, Castes,	**3**
Biology, production and uses.	**3**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Sericulture: Importance,	1
Sericulture industry in India, Central Silk Board,	2
Systematic position of *Bombyxmori*, Voltinism	2
Moriculture in general,	3
Biology of silkworm	4
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Sericulture Technology	1
Overview of Cocoon quality	2
cocoon sorting and marketing -	3
Cocoon stifling, Boiling and Brushing -	3
Silk Reeling - Silk processing - Uses of silk	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Medical Entomology: House hold insect pests and their control measures.	2
Disease causing vectors – Housefly,	2
Mosquito Life cycle, disease transmitted and their control measures.	3
Lice Life cycle, disease transmitted and their control measures	3
Tsetse fly –Life cycle, disease transmitted and their control measures.	2
Total	**12**

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3 hours

TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: III B.Sc Zoology**

Course Code: 20UZYC6Q	**Staff Name: Dr M. Mohamed Meeran & Ms. A. M. Rashida Banu**

Course Name: Genetics, Biostatistics, Immunology and Aquaculture

Unit: I	
Topics to be covered	**No. of Hours**
Simple Mendelian traits in man	**6**
Blood Grouping- A, B, AB, O & Rh	**6**
Study of Drosophila Culture and isolation of Virgin flies	**6**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Mounting of Barr body	**6**
Pedigree Analysis-Charts	**4**
Conjugation-Charts	**6**
Transformation and Transduction-Charts	**2**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Calculation of Mean, Median, Mode, Standard deviation, Standard error & Variance using Neem leaves	**6**
Calculation of Mean, Median, Mode, Standard deviation, Standard error & Variance using Height & weight of class students	**6**
Study of Probability with two coin tossing experiment	**6**
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Demonstration of lymphoid organs through dig frog software	**6**
Demonstration of ELISA. Demonstration Immuno electrophoresis.	**6**
Studies on any 3 Autoimmuno Diseases through You tube channel.	**6**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Studies of 3 Indian major carps by its external characters	**6**
Extraction of fish glue from locally available fish. Extraction of Isinglass from locally available fish	**6**
Extraction of Isinglass from locally available fish.	**6**
Total	**18**

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3 hours

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: III B.Sc., ZOOLOGY**
Course Code: 20UZYC6P	**Staff Name: Dr. M. Mohiadeen Batcha** **Dr.A.Maajitha Begum**

Course Name: Biochemistry & Ecology Practical

Unit: I	
Topics to be covered	**No. of Hours**
Qualitative analysis of carbohydrate.	**4**
Qualitative analysis of Anthrone method.	**4**
Qualitative analysis of protein by Lowry et al., method.	**5**
Analysis for saponification number in lipid.	**5**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Qualitative analysis of urine sugar, albumin	**4**
Qualitative analysis of bile salts and bile pigments	**4**
Qualitative analysis of ketone bodies.	**5**
Verification beers, Lamberts law. pH measurement of various samples using pH meter	**5**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Separation of amino acids by paper chromatography.	**4**
Demonstration electrophoresis.	**4**
Demonstration of centrifuge.	**5**
Demonstration and estimation of dissolved oxygen in water samples.	**5**
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Plankton mounting, fresh water and marine water planktons	**4**
Sampling of animal population by quadrate method	**4**
Sampling of line transect method in terrestrial habitat	**5**
Example of illustrating animal association.	**5**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Study of food chain and food web in pond ecosystem, Measurement of water transparency using sechi disc.	**4**
Parasitic adaptation (*Ascaris, Taenia solium,sacculina*, Flight adaption, Birds and bat,Aquatic adaption, Model or proper cutting.	**4**
Burrowing adaption, Rat Pangolin	**5**
Study tour, to a minimum of three days exposing the student to various ecological habitat, Farm visit,Zoos, Botanical gardens,, Pollution area and submit a report.	**5**
Total	**18**

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TEACHINGPLAN
For the Academic Year 2024-25 (EVENSEMESTER)

Department: ZOOLOGY	**Programme: B.Sc.,Zoology**
Course Code:20UZYE63	**Staff Name:Dr. M. Mohamed Meeran (Units- 1-5)**
Course Name:Biochemistry	

Unit: I	
Topicsto becovered	**No. of Hours**
Biomolecules- Interaction and bonding. Water	**2**
Molecular structure and properties(Thermal, Solvent, Colligative)	**2**
Dissociation & Ionization of water, pH and Buffers(Bicarbonate, Phosphate and acetate)	**3**
Henderson- Hasslbach equation, pKa.	**2**
Total	**9**

Unit: II	
Topicsto becovered	**No.of Hours**
Carbohydrates: Classification- Monosaccharides-Glucose, Fructose & Galactose	**3**
Structure and isomerism-Biological importance	**2**
Disaccharides- Structure and Biological importance of Maltose, Sucrose and Lactose	**2**
Polysaccharides-Homopolysacccharides- Starch and Glycogen	**1**
Heteropolysaccharides- Structural characteristics and functions of peptidoglycan and agar	**1**
Total	**9**

Unit: III	
Topicsto becovered	**No. of Hours**
Aminoacids: Structure and classification of aminoacids based on polarity	**2**
Properties and chemical reactions- Zwitter ion-Isoelectric PI.	**2**
Proteins-Classification,Primary,Secondary-Ramachandran Plot	**2**
Tertiary & Quaternary structure	**3**
Total	**9**

Unit: IV	
Topics to becovered	**No .of Hours**
Lipids: Classification-Biological importance-Beta oxidation.	**2**
Enzymes:Classification and mechanism of action (lock and key and induced fit theories	**2**
Enzyme Kinetics- Michael's Menden equation.	**2**
Enzyme inhibition- Competitive, Non- competitive and allosteric	**3**
Total	**9**

Unit: V	
Topicsto becovered	**No.of Hours**
Nucleic Acids: Nucleoproteins, Nucleosides, Nucleotides	**3**
Chemical structure of DNA, Synthesis of nucleic acids	**2**
Salvage and De-novo pathways	**1**
Fat and water soluble vitamins- source significance and deficiency	**3**
Total	**9**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme:B.Sc**
Course Code: 20UZYS62	**Staff Name: Ms.P.Vinnoli (1,2,3,4, 5 Units)**
Course Name: Zoology for Competitive Examination Paper – II	

Unit: I	
Topics to be covered	**No. of Hours**
TEACHING APTITUDE: Teaching: Nature, objectives, characteristics and basic requirements;	**2**
Learner's characteristics; Factors affecting teaching;	**2**
Methods of teaching; Teaching aids; Evaluation systems	**2**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
RESEARCH APTITUDE: Research: Meaning, characteristics and types; Steps of research, Methods of research;	**3**
Research Ethics; Paper, article, workshop, seminar, conference and symposium. Thesis writing: its characteristics and format	**3**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
READING COMPREHENSION AND COMMUNICATION: A passage to be set with questions to be answered.	**3**
Communication Nature, characteristics, types, barriers and effective classroom communication.	**3**
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
REASONING: Number series; letter series; codes; Relationships; classification.	**2**

Logical Reasoning-Understanding the structure of arguments; Evaluating and distinguishing deductive and inductive reasoning;	1
Verbal analogies: Word analogy — Applied analogy; Verbal classification;	1
Reasoning Logical Diagrams: Simple diagrammatic relationship, multi-diagrammatic relationship; Venn diagram; Analytical Reasoning	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
DATA INTERPRETATION: Sources, acquisition and interpretation of data;	3
Quantitative and qualitative data; Graphical representation and mapping of data.	3
Total	6

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: III B.Sc., Zoology**
Course Code: 20UZYS61	**Staff Name: Dr. M. Ashiq Ur Rahman (Units- 1,2,3,4 & 5)**
Course Name: Poultry Science	

Unit: I	
Topics to be covered	**No. of Hours**
Poultry industry in India: scope and objectives-	1
Choosing commercial layers and Broilers.	2
Types of poultry housing – litter system, 1:3 system, cage rearing-	2
Poultry equipments.	1
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Practical aspects of Chick rearing -	2
Management of layers - Management of Broilers.	2
Marketing of poultry product-Poultry manure.	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Lighting programmes-	2
Summer and winter management-	3
Debeaking.	1
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Non - Nutritive feed additives.	**2**
Feed stuff for poultry.	**2**
Feed formulation. Nutrition deficiency symptoms -	**1**
Quality control.	**1**
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Viral, Bacterial and Fungal diseases-Ranikhet, Fowl typhoid,	**2**
Aspergillosis-Parasitic diseases Coccidiosis-	**2**
Vaccination programme.	**2**
Total	**6**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc**

Course Code:23PZYCC21	**Staff Name: Ms.P.Vinnoli (1,2,3Units)** **Mr.S.Basil Mohamed(3,4,5 Units)**

Course Name: Cellular and Molecular Biology

Unit: I	
Topics to be covered	**No. of Hours**
General features of the cell: Basic structure of prokaryotic and eukaryotic cells	6
Protoplasm and deutroplasm - cell organelles;	5
cell theory; Diversity of cell size and shapes.	7
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Cellular organization: Membrane structure and functions - Structure of model membrane, lipid bilayer and membrane proteins diffusion.	4
Osmosis, ion channels, active transport, ion pumps, mechanism and regulation of intracellular transport, electrical properties of membranes.	3
Structure and functions of Intracellular organelles: Nucleus, mitochondria.	4
Golgi bodies, lysosomes, endoplasmic reticulum.	3
Peroxisomes, plastids, vacuoles and chloroplasts.	4
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Cell division and Cell cycle: Mitosis and meiosis, their regulation, steps in cell cycle and control of cell cycle.	5
Molecular biology of cell: Structure of DNA and RNA;	5
Process of DNA replication, transcription and translation in proand eukaryotic cells;	4
Genetic maps.	4

Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Cell communication and cell signaling: Membrane- associated receptors for peptide and steroid hormones	**6**
Signaling through G-protein coupled receptors, signal transduction pathways.	**7**
General principles of cell communication: extracellular space and matrix, interaction of cells with other cells and noncellular structures.	**5**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Cancer cells: Characteristic features of normal and cancer cells;	**6**
Carcinogens: types and cancer induction;	**7**
Metastasis; Oncogenes and tumor suppressor genes, apoptosis; therapeutic interventions of uncontrolled cell growth	**5**
Total	**18**

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc**

Course Code:23PZYCC22	**Staff Name: Dr.P.Raja(1,2,3Units)** **Ms.P.Vinnoli (3,4,5 Units)**

Course Name: Developmental Biology

Unit: I	
Topics to be covered	**No. of Hours**
Pattern of animal development: Chief events in animal development; History of thoughts and conceptual developments.	**7**
Gametogenesis: Origin of germ cells, permatogenesis - Sperm morphology in relation to the type of fertilization, Oogenesis - Oogenesis in insects and amphibians;	**5**
Composition and synthesis of yolk in invertebrates (insects and crustaceans) and vertebrates;	**6**
Genetic control of vitellogenin synthesis in amphibians	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Fertilization: Sperm aggregation, Sperm activation, Chemotaxis, Sperm maturation and capacitaion in mammals, Acrosome reaction.	**6**
Sperm – egg interaction. Sperm entry into the egg - Egg activation - Intracellular calcium release - Cortical reaction.	**6**
Physiological polyspermy - Fusion of male and female pronuclei - Post fertilization metabolic activation – Parthenogenesis.	**6**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Cleavage and gastrulation: Pattern of embryonic cleavage, mechanisms of cleavage, mid blastula transition.	**7**
Determinate and regulatory embryos, Factors affecting gastrulation, mechanisms and types of gastrulation in respective animal embryos (Sea urchin, Amphioxus, Amphibians, Aves, Mammals);	**5**
Fate maps - (Amphibian and Chick), Epigenesis and preformation – Formation of primary germ layers.	**6**
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Embryonic Development; Embryonic development of fish and birds, formation of extra embryonic membranes in mammalian.	**5**
Organogenesis - Development of endodermal, mesodermal and ectodermal derivatives.	**3**
Embryonic Induction and neurulation; Formation and migration of neural crest cells - types of neural crest cells and their patterning - primary and secondary neurulation.	**3**
Gene and development; Anterior- posterior axis in determination in drosophila, Maternal effect genes - Bicoid and Nanos proteins;	**3**
Generation of dorsal - ventral polarity- Genetic control of segmentation – Gap genes; pair rule genes; Homeotic genes	**4**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Post embryonic development metamorphosis: Endocrine control of metamorphosis in insect and amphibian.	**3**
Endocrine control of moulting and growth in crustaceans and insects - Neoteny and pedogenesis.	**4**
Regeneration: Formation of ectodermal cap and regeneration blastema – Types of regeneration in planaria, Regenerative ability in different animal groups, Factors stimulating regeneration – Biochemical changes assosciated with regeneration.	**3**
Aging and senescences: Biology of senescences- cause of agingmechanism involved in apoptosis.	**3**
Experimental Embryology: Mammalian reproduction: Mammalian reproductive cycle, Hormonal regulation, Endocrine changes associated with normal pregnancy, Induced ovulation in humans.	**3**
Cryopreservation of gametes/embryos - Ethical issues in cryopreservation.	**2**
Total	**18**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc**

Course Code:23PZYCC2P	**Staff Name: Dr.M.Mohiadeen Batcha** **Dr.P.Raja** **Ms.P.Vinnoli** **S.Basil Mohamed** **Ms.A. Indumathi**

Course Name: Lab Course in Cell Biology and Developmental Biology

Unit: I	
Topics to be covered	**No. of Hours**
1. Determination of cell size using micrometer	4
2. Mitosis in root meristematic cells of plants	4
3. Identification of various stages of meiosis in the testes of grasshopper	4
4. Detection of polytene chromosome in salivary gland cells of the larvae of the Chironomus	4
5. Detection of sex chromatin	2
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
6. Identification of blood cells in the haemolymph of the of the cockroach	4
7. Isolation of genomic DNA from eukaryotic tissue	4
8. Isolation of total RNA from bacterial cells/tissues	4
9. Agarose gel electrophoresis of DNA	4
10. SDS-Polyacrylamide gel electrophoresis	2
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Gametogenesis - Observation of gametes from gonadal tissue sections i. Oogenesis: Section through ovary of shrimp, fish, frog and mammals	4

ii Spermatogenesis: Section through testis of shrimp, fish, calotes and mammals	4
Fertilization - iii Induced spawning in polycheate worm Hydroids elegans	4
iv In vitro fertilization and development in a polycheate worm Hydroids elegans	4
v Observation of egg developmental stages in Emerita emeritus	2
Total	18

Unit: IV	
Topics to be covered	**No. of Hours**
Embryogenesis - vi Observation and whole mount preparation of the chick blastoderm - 18 hours of development	4
vii Chick embryonic stage - 24 hours of development	4
viii Chick embryonic stage - 48 hours of development	5
ix Chick embryonic stage - 72 hours of development	5
Total	18

Unit: V	
Topics to be covered	**No. of Hours**
x Chick embryonic stage - 96 hours of development	6
xi. Histological observation: Section through various developmental stages in chick embryo – TS through Head region, Heart & Kidney	6
xii. Frog – Study of developmental stages in the egg xiii. Frog – Blastoderm mounting	6
Total	18

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Uthamapalayam, Theni District 625 533.

TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc**

Course Code:23PZYDE21	**Staff Name: Dr.P.Raja (1,2,3 Units)** **Ms.A.Indumathi (3,4,5 Units)**

Course Name: Economic Entomology

Unit: I	
Topics to be covered	**No. of Hours**
Overview of insects and insect taxonomy.	**4**
Insects and their biological success - Man and insects;	**4**
Basic concepts in Insect Taxonomy and classification.	**4**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Beneficial insects: Silkworms - types, life history, disease management and rearing methods .	**4**
Types of honey bees, life history, social organization (colonies and caste System), honey bee care and management of bee hive.	**4**
Lac insects-life history, lac cultivation; Pollinators, predators, parasitoids, scavengers, weed killers, soil builders.	**4**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Destructive insects: Insect pests - definition - Categories of pests.	**3**
Types of damage to plants by insects - Causes of pest outbreak - Economic threshold level.	**3**
Biology of the insect pests - Pests of paddy, cotton, sugarcane, vegetables, coconut and stored grains cereals.	**6**

Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Pest management/Control strategies: Methods and principles of pest control - Natural control, Artificial control, Merits and demerits or limitations of these methods in pest control.	**4**
Development and uses of pest resistant plant varieties.	**4**
Integrated pest management - Concepts and practice.	**4**
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Vector biology: Vectors of veterinary and public health importance.	**6**
Mosquitoes as potential vectors of human diseases-control measures	**6**
Total	**12**

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Dean of Science
Hajee Karutha Rowther Howdia College
(Autonomous)
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Verified by

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Department of Zoology
H K R H College
Uthamapalayam

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc**

Course Code:23PZYGE21	**Staff Name: Dr.K.Arifa banu (1 Unit)** **Ms.A. Indumathi (2,3 Units)** **S.Basil Mohamed(4,5 Units)**

Course Name: Research Methodology

Unit: I	
Topics to be covered	**No.of Hours**
Good laboratory practice (GLP) - pH	**3**
Electrodes and pH meter	**3**
Colorimeter	**3**
Spectrophotometry	**3**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Histology, Histochemistry	**4**
Bioinformatics	**4**
Electron microscopy.	**4**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Light Microscopy, Bright field.	**3**
Phase contrast microscopy.	**3**
DIC & Fluorescence microscopy.	**3**

Wide field and Confocal microscopy.	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Centrifuges	3
Chromatography	3
Electrophoresis	3
ELISA and blotting.	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Principles and Applications of tracer techniques in biology	6
Animal cell culture techniques.	6
Total	**12**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc**

Course Code:23PZYSE21	**Staff Name: Ms.A.Indumathi (1,2,3 Units)** **S.Basil Mohamed(3,4,5 Units)**

Course Name: Poultry Farming

Unit: I	
Topics to be covered	**No. of Hours**
General introduction to poultry farming - Definition of Poultry - Past and present scenario of poultry industry in India.	**6**
Principles of poultry housing - Poultry houses - Systems of poultry farming	**6**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Management of chicks - growers and layers - Management of Broilers.	**6**
Preparation of project report for banking and insurance.	**6**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Poultry feed management-Principles of feeding.	**4**
Nutrient requirements for different stages of layers and broilers .	**4**
Feed formulation and Methods of feeding.	**4**
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Poultry diseases-viral, bacterial, fungal and parasitic (two each); symptoms, control and management;	**6**
Vaccination programme.	**6**

Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Selection, care and handling of hatching eggs - Egg testing.	**4**
Methods of hatching.- Brooding and rearing -. Sexing of chicks. - Farm and Water Hygiene .	**4**
Recycling of poultry waste.	**4**
Total	**12**

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TEACHING PLAN

For the Academic Year 2024- 25(EVEN SEMESTER)

Department: ZOOLOGY	**Programme: M.Sc**

Course Code: 23PZYCC41	**Staff Name: Ms. Indumathi A (1,2,3 Unit)** **Mr.S.Basil Mohamed (3,4,5 Unit)**

Course Name: Immunology

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Immunology:An overview; Scope of immunology, recognition of self and non-self as a basic functional feature of immune system; Concepts of external and internal defense systems; External (first line / innate) defense system: components, distribution, salient functions.	**6**
Internal (second line / acquired) immune system: cellular and humoral immune components-distribution, salient functions-primary and secondary immune responses.	**6**
Immune tissues / organs: types, anatomical location, structure and development; lymphocyte traffic during development.	**3**
Types of immunity: innate and acquired - types, functional features; concept of adaptive immunity.	**3**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Antigens:Definition, characteristic features and classification.	**6**
Antigenicity versus immunogenicity.	**6**
Adjuvants: definition, types and applications.	**6**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Major effector components of cellular immune system:Lymphocytes - types, morphology, clones; sub-populations, distribution.	**5**
B and T cell receptors, B and T cell epitopes, Toll-like receptors.	**4**
Antigen presenting cells: antigen processing and presentation.	**5**

MHC molecules and their immunologic significance.	4
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Major effector components of humoral immune system: Antibodies - Primary structure, classification, variants and antigen-antibody interactions.	4
Structural and functional characteristics of various antibody classes.	3
Generation of diversity; Monoclonal antibodies: definition, production and applications; Antibody engineering and its applications.	4
Complement system - Components, three major activation pathways, and immune functions including anaphylaxis and inflammation.	4
Cytokines -Definition and salient functional features; Interleukins: definition, types (lymphokines and monokines), and functions. Interferons - Origin, types and functions.	3
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Diseases and immune responses:Hypersensitivity: definition, Types I to IV and immune manifestations.	6
Auto-immune diseases: onset, spectrum of diseases, and major immune responses.	4
Immunodeficiency diseases: types including SCID and consequences; Viral (HIV), bacterial (tuberculosis) and parasitic (malaria) diseases: etiology, host immune responses and evasion by pathogens.	5
Vaccines: types, preparations, efficacies and recent developments.	3
Total	**18**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc**

Course Code:23PZYCC4P	**Staff Name: Dr.M.Mohiadeen Batcha** **Dr.P.Raja** **Ms.P.Vinnoli** **Mr.S.Basil Mohamed** **Ms.A.Indumathi**

Course Name: Lab Course in Immunology

Unit: I	
Topics to be covered	**No. of Hours**
1.Identification of various immune tissues and organs in rat	**8**
2. Identification of various types of immune cells in peripheral blood smear	**7**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
3.Separation of RBC as intact cellular antigen for immunization	**6**
4. Antigenic challenge of mammalian hosts through different routes, and comparative evaluation of their merits and demerits	**9**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
5.Methods of blood sampling	**7**
6. Preparation and storage of antiserum	**6**
7. Agglutination reaction: Qualitative analysis of antigen-antibody reaction using human blood group system	**2**
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
8. Agglutination reactions: Determination of hemagglutination titer of IgM antibodies using human RBC	**10**
9. Detection of IgG by precipitation ring test	**5**
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
10. Detection of IgG by Ouchterlony double immuno-diffusion test	**9**
11. Detection of reactivity of IgG with fractionated antigens by immune - electrophoresis	**2**
12. Separation of lymphocytes from peripheral blood and identification of T and B cells	**4**
Total	**15**

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TEACHING PLAN

For the Academic Year 2024- 25(EVEN SEMESTER)

Department: ZOOLOGY	**Programme: M.Sc**

Course Code: 23PZYDE41	**Staff Name: Ms. Indumathi A (1,2,3 Unit)** **Mr.P.Raja (3,4,5 Unit)**

Course Name: Ecology

Unit: I	
Topics to be covered	**No. of Hours**
The Environment: Physical environment; biotic environment; biotic and abiotic interactions.	**4**
Habitat and niche:Concept of habitat and niche.	**3**
Niche width and overlap; fundamental and realized niche.	**4**
Resource partitioning; character displacement.	**4**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Population ecology:Characteristics of a population; population growth curves; population regulation.	**5**
Life history strategies (*r* and *K* selection)	**5**
Concept of metapopulation-demes and dispersal, interdemic extinctions, age structured populations -action taken to control population explosion.	**5**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Species interactions:Types of interactions, interspecific competition, herbivory, carnivory, pollination, symbiosis.	**5**
Community ecology:Nature of communities; community structure and attributes; levels of species diversity and its measurement; edges and ecotones.	**5**
Ecological succession:Types; mechanisms; changes involved in succession; concept of climax.	**5**
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Ecosystem:Structure and function; energy flow and mineral cycling (CNP); primary production and decomposition.	**5**
Structure and function of some Indian ecosystems: terrestrial (forest, grassland) and aquatic (fresh water, marine, eustarine).	**5**
Biogeography: Major terrestrial biomes; theory of island biogeography; biogeographical zones of India.	**5**
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Applied ecology:Environmental pollution; global environmental change; biodiversity-status, monitoring and documentation.	**6**
major drivers of biodiversity change.	**3**
biodiversity management approaches - Waste management.	**3**
Conservation biology:Principles of conservation, major approaches to management, Indian case studies on conservation/management strategy (Project Tiger, Biosphere reserves).	**3**
Total	**15**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc**

Course Code:23PZYSE41	**Staff Name: Ms.P.Vinnoli (1,2,3,4, Units)** **S.Basil Mohamed(5 Unit)**

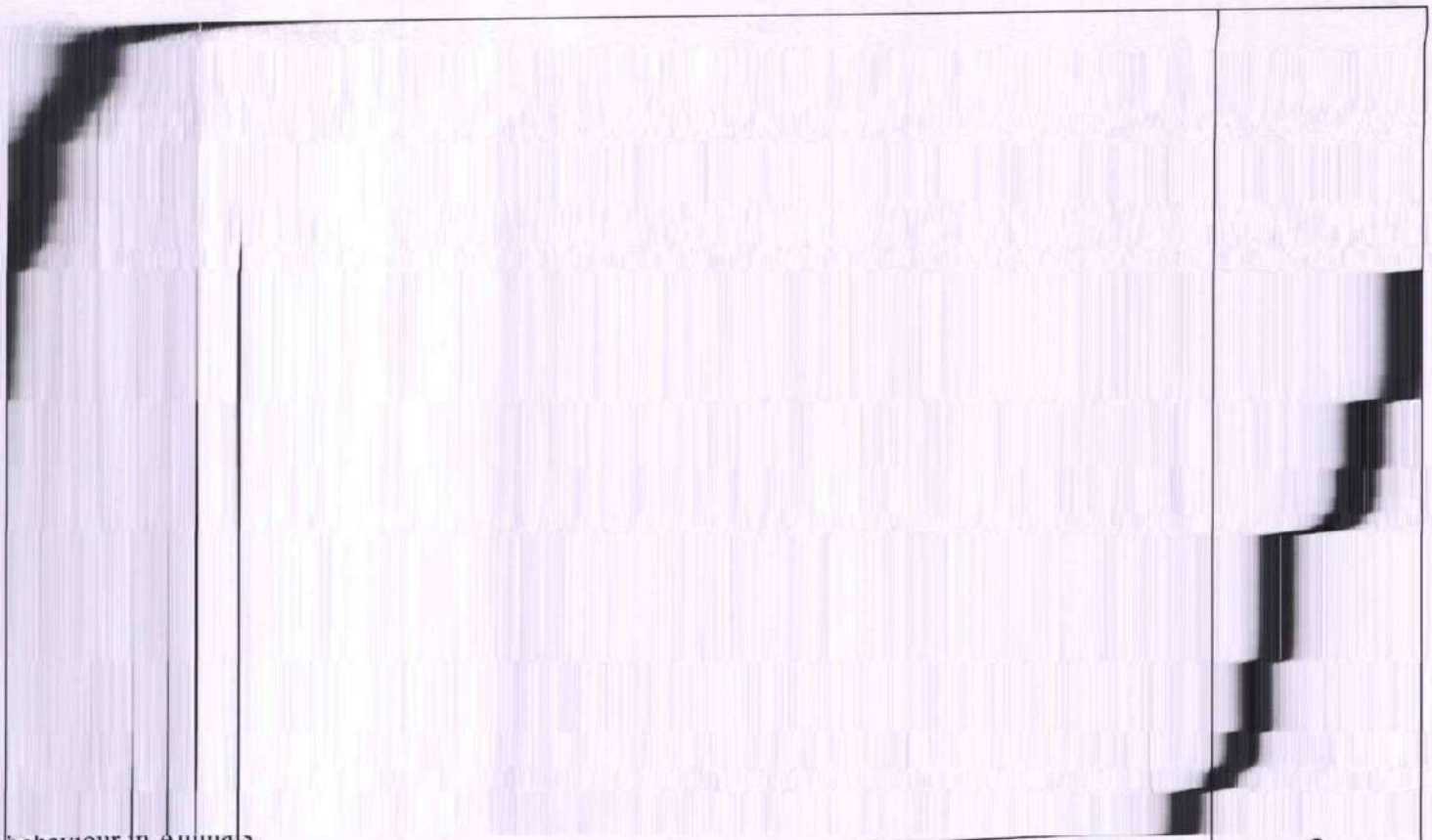
Course Name: Animal behaviour

Unit: I	
Topics to be covered	**No. of Hours**
Genetic material, Genes and chromosomes, Genetic variation.	**4**
Single and Polygenic inheritance of behavior. Heritability of behavior. Natural selection and behavior.	**4**
Frequency distribution of phenotypes, Darwinian fitness, Evolution of adaptive strategies.	**4**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Sexual selection, Altruism, Sexual strategy and social organization.	**4**
Animal perception, Neural control of behaviour, Sensory processes and perception.	**4**
Visual adaptations to unfavourable environments.	**4**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Coordination and Orientation, Homeostasis and Behaviour, Physiology and Behaviour in 40 changing environments.	**6**
Animal Learning, Conditioning and Learning, Biological aspects of learning, Cognitive aspects of learning.	**6**
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Instinct and learning, Displacement activities, Ritualization and Communication, Decision making	**3**



Behaviour in Animals.	
Complex behaviour of hobey bees, Evolutionary optimality, Mechanism of Decision making.	3
The mentality of Animals: Languages and mental representation, non-verbal communication in human, mental images.	3
Intelligence, tool use and culture, Animal awareness and Emotion.	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Organization of circadian system in multicellularanimals; Concept of central and peripheral clock system;	3
Circadian pacemaker system in invertebrates with particular reference to Drosophila;	3
Photoreception and photo- transduction; Molecular bases of seasonality;	2
The relevance of biological clocks for human welfare - Clock function (dysfunction);	2
Human health and diseases - Chronopharmacology, chronomedicine, chronotherapy.	2
Total	**12**

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K. Shahul

Dean
Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College

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HOD
Department of Zoology,
H K R H College,

Prepared by

Vinoth
S. Basil

Staff

Hajee Karutha Rowther Howdia College (Autonomous)

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**

Course Code: 23UCSCC21	**Staff Name: Dr.M.Mohamed Meeran**

Course Name: Data Structures and Algorithms

Unit: I	
Topics to be covered	**No. of Hours**
Abstract Data Types (ADTs)- List ADT	3
array-based implementation- linked list implementation singly linked lists	4
circular linked lists-doubly- linked lists	4
applications of lists-Polynomial Manipulation- All operations-Insertion-Deletion-Merge-Traversal	4
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Stack ADT-Operations	3
Applications- Evaluating arithmetic expressions	4
Conversion of infix to postfix expression	4
Queue ADT-Operations-Circular Queue- Priority Queue-de Queue applications of queue	4
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Tree ADT-tree traversals	3
Binary Tree ADT-expression trees	4
applications of trees-binary search tree ADT	4
Threaded Binary Trees- AVL Trees- B-Tree- B+ Tree – Heap-Applications of heap	4
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Definition- Representation of Graph	4
Types of graph-Breadth first traversal	3
Depth first traversal-Topological sort	4
Bi-connectivity – Cut vertex- Euler circuits-Applications of graphs	4
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Searching- Linear search	3
Binary search-Sorting-Bubble sort	3
Selection sort-Insertion sort - Shell sort-Radix sort-Hashing	3
Hash functions-Separate chaining- Open Addressing	3
Rehashing Extendible Hashing	3
Total	**15**

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Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
Hajee Karutha Rowther Howdia College
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Uthamapalayam,Theni-Dt-625533

Signature of the HOD
Dr.S.SIRAJUDEEN.,M.Sc.,PGDCA.,M.S.,Ph.D.,
Associate Professor & Head
Department of Computer Science
Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**
Course Code: 23UCSCC2P	**Staff Name: Dr.M.Mohamed Meeran**
Course Name: Data Structures and Algorithms Lab	

Data structures and Algorithms Lab

1. Write a program to implement the List ADT using arrays and linked lists.
2. Write a programs to implement the following using a singly linked list.
   - Stack ADT
   - Queue ADT
3. Write a program that reads an infix expression, converts the expression to postfix form and then evaluates the postfix expression (use stack ADT).
4. Write a program to implement priority queue ADT.
5. Write a program to perform the following operations:
   - Insert an element into a binary search tree.
   - Delete an element from a binary search tree.
   - Search for a key element in a binary search tree.
6. Write a program to perform the following operations
   - Insertion into an AVL-tree
   - Deletion from an AVL-tree
7. Write a programs for the implementation of BFS and DFS for a given graph.
8. Write a programs for implementing the following searching methods:
   - Linear search
   - Binary search.
9. Write a programs for implementing the following sorting methods: • Bubble sort • Selection sort • Insertion sort • Radix sort

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Associate Professor & Head
Department of Computer Science
Hajee Karutha Rowther Howdia College.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**
Course Code: 23UCSSE2P	**Staff Name: Ms.S.Sophia Rani**
Course Name: Advanced Excel Lab	

List of Practicals

1. Working with Functions
2. Conditional expressions
3. logical functions
4. lookup and reference functions
5. Nested VlookUP with Exact Match-
6. VlookUP with Tables,
7. Data Validations
8. Working with Templates & Designing the structure of a template
9. Sorting and Filtering Data
10. multiple-level sorting
11. custom sorting Filtering data for selected view
12. Creating Pivot tables Formatting and customizing Pivot tables
13. Date and time functions
14. Text functions
15. Database functions
16. Power Functions
17. Formatting Using auto formatting option for worksheets
18. Charts - Formatting Charts
19. Sharing Charts with PowerPoint / MS Word

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Associate Professor & Head
Department of Computer Science
Hajee Karutha Rowther Howdia College.
Uthamapalayam - 625 533.

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**

Course Code: 23UCSSE21	**Staff Name: Ms.S.Sophia Rani**

Course Name: OFFICE AUTOMATION

Unit: I	
Topics to be covered	**No. of Hours**
Introductory concepts: Memory unit– CPU	1
Input Devices: Key board, Mouse and Scanner.	1
Output devices ,Monitor, Printer, Introduction to Operating systems &its features	2
DOS– UNIX–Windows. Introduction to Programming Languages	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Word Processing: Open, Save and close word document	1
Editing text – tools, formatting, bullets; Spell Checker	1
Document formatting – Paragraph alignment, indentation, headers and footers	2
numbering; printing–Preview, options, merge	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Spread sheets: Excel– opening, entering text and data	1
formatting, navigating; Formulas– entering, handling and copying	2
Charts–creating, formatting and printing, analysis tables	2
preparation of financial statements ,introduction to data analytics.	1
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Database Concepts: The concept of data base management system; Data field, records, and files, Sorting and indexing data;	2
Searching records. Designing queries, and reports; Linking of data files; Understanding Programming environment in DBMS	2
Developing menu drive applications in query language(MS– Access).	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Power point: Introduction to Power point - Features – Understanding slide type casting &viewing slides	2
creating slide shows , Applying special object	2
including Slide transition–Animation effects, audio inclusion, timers. objects & pictures	2
Total	6

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Associate Professor & Head
Department of Computer Science
Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc.**

Course Code: 23UCSCC41	**Staff Name: Dr.S.Peer Mohaideen Mudalali**

Course Name: Java Programming

Unit: I	
Topics to be covered	**No. of Hours**
Introduction: ReviewofObjectOrientedconcepts - HistoryofJava - Javabuzzwords - JVMarchitecture - controlstatements -	3
Datatypes - Variables - Scope and life timeofvariables - arrays - operators -	3
type conversion and casting - simple java program - constructors - methods - Static block	3
Static Data - StaticMethodStringandStringBufferClasses.	3
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Inheritance: Basic concepts - Types of inheritance - Member access rules - Usage of this and Super key word - Method Overloading - Method overriding - Abstract classes - Dynamic method dispatch - Usage of final keyword.	4
Packages: Definition – Access Protection -ImportingPackages.	4
Interfaces: Definition – Implementation –Extending Interfaces.	4
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Multithreaded Programming: Thread Class - Runnable interface –Synchronization–.	3
Using synchronizedmethods– Using synchronized statement- InterthreadCommunication –	3
I/O Streams: Concepts of streams - Stream classes- Byte and Character stream	3
Reading console Input and Writing Console output - File Handling..	3
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
AWT Controls: The AWT class hierarchy - user interface components- Labels - Button - Text Components - Check Box - Check Box Group - Choice -	3
List Box - Panels – Scroll Pane - Menu - Scroll Bar. Working with Frame class - Colour - Fonts and layout managers.	3
Event Handling: Events - Event sources - Event Listeners - Event Delegation Model (EDM) -	3
Handling Mouse and Keyboard Events - Adapter classes - Inner classes	3
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Swing: Introduction to Swing - Hierarchy of swing components. Containers - Top level containers - JFrame -	4
JWindow - JDialog - JPanel - JButton - JToggleButton - JCheckBox - JRadioButton	4
JLabel,JTextField - JTextArea - JList - JComboBox - JScrollPane.	4
Total	12

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Uthamapalayam,Theni-Dt-625533

Signature of the HOD
Dr.S.SIRAJUDEEN.,M.Sc.,PGDCA..,M S ,Ph.D.,
Associate Professor & Head
Department of Computer Science
Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

Signature of the Staff

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**
Course Code: 23UCSCC4P	**Staff Name: Dr.S.Peer Mohaideen Mudalali**

Course Name: Java Programming Lab

List of Practicals

Write a Java program that prompts the user for an integer and then prints out all the prime numbers up to that Integer
Write a Java program to multiply two given matrices.
Write a Java program that displays the number of characters, lines and words in a text
Generate random numbers between two given limits using Random class and print messages according to the range of the value generated.
Write a program to do String Manipulation using CharacterArray and perform the following string operations: a. String length b. Finding a character at a particular position c. Concatenating two strings
Write a program to perform the following string operations using String class: a. String Concatenation b. Search a substring c. To extract substring from given string
Write a program to perform string operations using String Buffer class: a. Length of a string b. Reverse a string c. Delete a substring from the given string
Write a java program that implements a multi-thread application that has three threads. First thread generates random integer every 1 second and if the value is even, second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of cube of the number.
Write a threading program which uses the same method asynchronously to print the numbers 1to10 using Thread1 and to print 90 to100 using Thread2.

Write a program to demonstrate the use of following exceptions. a. Arithmetic Exception b. Number Format Exception c. ArrayIndexOutofBoundException d. NegativeArraySizeException	60	
Write a Java program that reads on file name from the user, then displays information about whether the file exists, whether the file is readable, whether the file is writable, the type of file and the length of the file in bytes		
Write a program to accept a text and change its size and font. Include bold italic options. Use frames and controls.		
Write a Java program that handles all mouse events and shows the event name at the center of the window when a mouse event is fired. (Use adapter classes).		
Write a Java program that works as a simple calculator. Use a grid layout to arrange buttons for the digits and for the +, -,*, % operations. Add a text field to display the result. Handle any possible exceptions like divide by zero.		
Write a Java program that simulates a traffic light. The program lets the user select one of three lights: red, yellow, or green with radio buttons. On selecting a button, an appropriate message with "stop" or "ready" or "go" should appear above the buttons in a selected color. Initially there is no message shown.		
Total	**60**	

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Department of Computer Science.
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**

Course Code: 23UCSSE41	**Staff Name: Dr.M. SULTHAN IBRAHIM**

Course Name: WEB DESIGNING

Unit: I	
Topics to be covered	**No. of Hours**
HTML: HTML-Introduction-tag basics- page structure-	1
adding comments working with texts,	1
paragraphs and line break. Emphasizing test- heading and horizontal rules	1
-list-font size, face and color-alignment links	1
tables-frames.	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Forms & Images Using Html: Graphics: Introduction-How to work efficiently with images in web pages	1
image maps, GIF animation, adding multimedia	2
data collection with html forms textbox, password	2
list box, combo box, text area, tools for building web page front page.	1
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
XML & DHTML: Cascading style sheet (CSS)-what is CSS- -	2
Why we use CSS-adding CSS to your web pages	2
Grouping styles-extensible markup language (XML).	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Dynamic HTML: Document object model (DCOM)-Accessing HTML & CSS through DCOM Dynamic content styles & positioning-Event bubbling-data binding.	2
JavaScript: Client-side scripting, What is JavaScript, How to develop JavaScript, simple JavaScript	2
variables, functions, conditions, loops and repetition	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Advance script, JavaScript and objects	2
JavaScript own objects, the DOM and web browser environments	2
forms and validations.	2
Total	6

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**

Course Code: 23UGEVS41	**Staff Name: Dr.S.Peer Mohaideen Mudalali**

Course Name: Environmental Studies

Unit: I	
Topics to be covered	**No. of Hours**
Earth and its Environment: a) Earth- formation and Evolution of Earth over time - structure of Earth and its components	2
Atmosphere, Lithosphere, Hydrosphere and Biosphere.	2
b) Resources – renewable and nonrenewable resources	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Ecology and ecosystem concepts: a) Ecology – definition - Ecosystem: Definition – structure and function – energy flow	2
food chain and Food web – one example for an ecosystem	2
b) Biogeochemical cycles – Nitrogen, carbon, Phosphorous and Water	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Biodiversity of India: a) Introduction – definition – Values of Biodiversity -Threat to Biodiversity – Conservation of Biodiversity	2
b) Biodiversity of India – as a mega diversity nation – bio-geographical distribution	2
Hot spots of biodiversity – National Biodiversity Conservation Board and its function	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Pollution and Global issues: a) Definition, causes, effects and control measures of Air, Water, Soil,	3

Marine, Noise, Thermal and Nuclear pollution	
b) Global issues: Global Warming and Ozone Layer Depletion	3
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Development and Disaster Management: a) Sustainable Development – Sustainable Agriculture – Organic farming, Irrigation – Water harvesting and Waste recycling – Cyber waste and management	3
b) Disaster Management – Flood and Drought – Earthquake and Tsunami – Landslides and Avalanches – Cyclones and Hurricanes –Precautions,Warnings, Rescue and Rehabilitation.	3
Total	6

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Hajee Karutha Rowther Howdia College,
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**

Course Code: 20UCSC61	**Staff Name: Dr. S.Sirajudeen**

Course Name: Computer Graphics

Unit: I	
Topics to be covered	**No. of Hours**
Introduction, Computer Aided Design	1
Presentation Graphics – Computer Art	2
Entertainment – Education and Training, Visualization	2
Image Processing – Graphical User Interfaces	2
Video Display Devices	1
Random Scan Systems – Raster Scan Systems	2
Input Devices - Hard Copy Devices.	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Points and Lines	1
Line Drawing Algorithms	6
Circle Generating Algorithms	4
Filled Area primitives	1
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Line Attributes, Curve Attributes	2
Color and Gray Scale Levels	2
Area Fill Attributes, Character Attributes, Bundled Attributes	4
Inquiry Functions	3

Antialiasing	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Basic Transformations	4
Matrix Representations	2
Composite Transformations	2
Other Transformations	2
Transformations between Coordinate Systems.	2
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
The Viewing Pipeline	1
Viewing Coordinate Reference Frame	1
Window –to- Viewport	1
Coordinate Transformation	1
Two-Dimensional Viewing Functions	1
Clipping Operations – Point Clipping	1
Line Clipping	2
Polygon Clipping	1
Curve Clipping	1
Text Clipping	1
Exterior Clipping	1
Total	**12**

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Dr.S.SIRAJUDEEN.,M.Sc.,PGDCA..,M S ,Ph.D.,
Associate Professor & Head.
Department of Computer Science
Hajee Karutha Rowther Howdia College,
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc.**

Course Code: 20UCSC62	**Staff Name: Ms.S. Sophia Rani**

Course Name: Software Engineering

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Software Engineering: Size factors	2
Quality and Productivity Factors, Managerial Issues	2
Planning a Software Project: Defining the Problem – Developing a Solution Strategy	2
Planning the Development Process	2
Planning an Organizational Structure	2
Other Planning Activities	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Software Cost Factors	3
Software Cost Estimation Techniques	3
Staffing Level Estimation	3
Estimating Software Maintenance Costs	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
The Software Requirements Specification	4
State orientated notations	4
Languages and Processors for Requirements specifications	4
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Software Design: Fundamental Design Concepts	1
Modules and Modularization Criteria	1
Functional independence	2
Design Notations	4
Design Techniques	4
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Quality Assurance	2
Testing Strategies	2
Unit Testing/Program Testing	2
Integration Testing	2
Source Code Metrics	1
Halstead's Effort Equation -McCabe's Cyclomatic Complexity	3
Total	12

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Dr.S.SIRAJUDEEN.,M.Sc.,PGDCA.,M S .Ph.D.,
Associate Professor & Head
Department of Computer Science.
Hajee Karutha Rowther Howdia College,
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**

Course Code: 20UCSE61	**Staff Name: Dr.M.SULTHAN IBRAHIM**

Course Name: Web Programming

Unit: I	
Topics to be covered	**No. of Hours**
Introduction-Document background color and image	3
Text Structuring –Character Formatting	2
Lists – Ordered – Unordered – Definition Lists	2
Links to a web page – Tables – Borders and Rules – Rows and Cells – Formatting with Tables	3
Form handling-Building Forms-HTML5 Features	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Incorporating PHP within HTML	3
The Structure of PHP	3
Expressions and Control Flow in PHP	3
Operators-Conditionals	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction to CSS- Importing a Style Sheet –CSS Rules-Style Types-CSS Selectors	2
The CSS Cascade – Measurements - Fonts and Typography -Managing Text Styles	3
CSS Colors - Positioning Elements –Pseudo-classes	2
The Box Model and Layout -Advanced CSS with CSS3- Attribute Selectors	3

CSS3 Backgrounds - CSS3 Borders –Text Effects – Transformations	2
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Exploring JavaScript-Using Comments-Semicolons-Variables-Operators-Variable Typing	3
Functions - Global Variables Local Variables-The Document Object Model-Expressions and Control Flow in JavaScript-Expressions-Literals and Variables- Operators	3
with Statement -Using try ... catch -Conditionals -Looping - JavaScript Arrays	2
JavaScript and PHP Validation and Error Handling-Validating User Input with JavaScript	2
Regular Expressions -Redisplaying a Form After PHP Validation	2
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Accessing MySQL Using PHP- Querying a MySQL Database with PHP	3
A Practical Example -Practical MySQL	3
Performing Additional Queries-Preventing SQL Injection	3
HTML Injection -Using Ajax- Using XML Http Request	3
Total	12

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Dr.S.SIRAJUDEEN.,M.Sc.,PGDCA.,,M S ,Ph.D.,
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Hajee Karutha Rowther Howdia College,
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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**

Course Code: 20UCSC6P	**Staff Name: Ms.S. Sophia Rani**

Course Name: Project Work

Unit: I	
Topics to be covered	**No. of Hours**
Software Development Phase - I	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Software Development Phase - II	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Software Development Phase - III	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Software Development Phase - IV	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Software Development Phase - V	**12**

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Dr.S.SIRAJUDEEN.,M.Sc.,PGDCA.,M S .Ph.D.,
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Department of Computer Science,
Hajee Karutha Rowther Howdia College,
Uthamapalayam - 625 533.

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**
Course Code: 20UCSC6Q	**Staff Name: Dr.M.SULTHAN IBRAHIM**
Course Name: Web Programming Lab	

List of Practicals

1. Write a JavaScript to design a simple calculator to perform the following operations: sum, product, difference and quotient
2.

2. Write a JavaScript that calculates the squares and cubes of the numbers from 0 to 10 and outputs HTML text that displays the resulting values in an HTML table format.

3. Write a JavaScript code that displays text "TEXT-GROWING" with increasing font size in the interval of 100ms in RED COLOR, when the font size reaches 50pt it displays "TEXT-SHRINKING" in BLUE color. Then the font size decreases to 5pt.

4. Develop and demonstrate a HTML5 file that includes JavaScript that uses functions for the following problems:

a. Parameter: A string

a. Output: The position in the string of the left-most vowel

b. Parameter: A number

b. Output: The number with its digits in the reverse order

5. Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, and Name of the College, Branch, Year of Joining, and email id. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.

6. Write a PHP program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper headings.

7. Write a PHP program to display a digital clock which displays the current time of the server.

8. Write the PHP programs to do the following:

a. Implement simple calculator operations.

b. Find the transpose of a matrix.

c. Multiplication of two matrices.

d. Addition of two matrices.

9. Write a PHP program that declares variable states with value "HKRH College UPM".

10. Write a PHP program that does the following:

a. Search for a word in variable states that ends in RH. Store this word in element 0 of a list named states List.

b. Search for a word in states that begins with U and ends in M. Perform a case insensitive comparison. [Note: Passing re.I as a second parameter to method compile performs a case-insensitive comparison.] Store this word in element1 of states List.

c. Search for a word in states that begins with M and ends in s. Store this word in element 2 of the list.

d. Search for a word in states that ends in a. Store this word in element 3 of the list.

11. Write a PHP program to store and print the student records using MySQL database.

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Department of Computer Science
Hajee Karutha Rowther Howdia College,
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**

Course Code: 20UCSC6R	**Staff Name: Ms.S. S.Sophia Rani**

Course Name: .Net Programming Using C# Lab

List of Practical

1. Basic c# programs
2. Classes and objects
3. Inheritance
4. Operator overloading
5. Threading
6. Events and delegates
7. Working with windows forms controls
8. Validating data
9. Creating custom dialog box and Designing an MDI application with menu
10. Retrieving Data from Database & Working with Disconnected Environment

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Associate Professor & Head.
Department of Computer Science.
Hajee Karutha Rowther Howdia College,
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: I.B.COM**
Course Code: 23UCRCC21	**Staff Name: Dr. K.SHARIFA NIZARA** **Dr. M.ABDUL JABBAR** **Mr. S.MOHAMED ISTHRISKHAN**

Course Name: FINANCIAL ACCOUNTING-II

Unit: I	
Topics to be covered	**No. of Hours**
Hire Purchase and Instalment System Hire Purchase System – Accounting Treatment – Calculation of Interest	4
Default and Repossession	6
Hire Purchase Trading Account - Installment System - Calculation of Profit	5
Total	15

Unit: II	
Topics to be covered	**No. of Hours**
Branch and Departmental Accounts Branch – Dependent Branches: Accounting Aspects - Debtors system -Stock and Debtors system	6
Distinction between Wholesale Profit and Retail Profit – Independent Branches (Foreign Branches excluded)	3
Departmental Accounts: Basis of Allocation of Expenses – Inter- Departmental Transfer at Cost or Selling Price.	6
Total	15

Unit: III	
Topics to be covered	**No. of Hours**
Partnership Accounts - I Partnership Accounts: –Admission of a Partner – Treatment of Goodwill - Calculation of Hidden Goodwill	7
Retirement of a Partner	4
Death of a Partner.	4
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
Partnership Accounts - II Dissolution of Partnership - Methods – Settlement of Accounts Regarding Losses and Assets – Realization account	5
Treatment of Goodwill – Preparation of Balance Sheet - One or more Partners insolvent – All Partners insolvent	5
Application of Garner Vs Murray Theory – Accounting Treatment - Piecemeal Distribution – Surplus Capital Method – Maximum Loss Method.	5
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Accounting Standards for financial reporting (Theory only) Objectives and Uses of Financial Statements for Users-Role of Accounting Standards	4
Development of Accounting Standards in India Role of IFRS - IFRS	5
Adoption vs Convergence Implementation Plan in India- Ind AS- An Introduction - Difference between Ind AS and IFRS	6
Total	15

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Hajee Karutha Rowther Howdia College
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Uthamapalayam,Theni-Dt-625533

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Head of the Director
Post Graduate & Research
Department Of Commerce
Hajee Karutha Rowther Howdia College
Uthamapalayam - 625533
Theni District
Tamil nadu

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: I.B.Com**
Course Code: 23UCRCC22	**Staff Name: Dr. K. RASOOL MYDEEN** **Dr. M. MOHAMED ILYAS**
Course Name: BUSINESS LAW	

Unit: I	
Topics to be covered	**No. of Hours**
Definition of Contract, Essentials of Valid Contract, Classification of Contract, Offer and Acceptance – Consideration	7
Capacity to Contract – FreeConsent - Legality of Object – Contingent Contracts – Void Contract	8
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Meaning of Performance, offer to Perform, Devolution of Joint liabilities & Rights, Time and Place of Performance, Reciprocal Promises, Assignment of Contracts	8
Remedies for Breach of contract - Termination and Discharge of Contract - Quasi Contract	7
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Contract of Indemnity and Contract of Guarantee - Extent of Surety's Liability,	8
Kinds of Guarantee, Rights of Surety, Discharge of Surety	7
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Bailment and Pledge – Bailment – Concept – Essentials - Classification of Bailments, Duties and Rights of Bailor and Bailee	**8**
Law of Pledge – Meaning – Essentials of Valid Pledge, Pledge and Lien, Rights of Pawner and Pawnee	**7**
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Definition of Contract of Sale – Formation - Essentials ofContract of Sale - Conditions and Warranties - Transfer of Property	**8**
Contracts involving Sea Routes - Sale by Non- owners - Rights and duties of buyer - Rights of an Unpaid Seller	**7**
Total	**15**

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Signature of the HOD

Head & Associate Professor
Post Graduate & Research
Department Of Commerce
Hajee Karutha Rowther Howdia College
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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: I B.Com**
Course Code: 23UCRSE21	**Staff Name: Dr. A. SULTHAN MOHIDEEN**
Course Name: RETAIL MARKETING (NME)	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction – Retailing as an activity –	3
Retail Marketing – Consumer behave o rand retails operations.	3
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Management of service and quality in retailing – -	3
Retailmarketing mix and product – Merchandise Management	3
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Retail pricing – Retail promotion	3
Retail logistics and distribution	3
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Methods and approaches to retail marketing planning	3
Retail location strategies and decisions – Management of a retail brand and its applications	3
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Consumerism and ethics in retailing	3
International retailing – Future of Retailing	3
Total	6

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Head & Associate Professor
Post Graduate & Research
Department Of Commerce
Hajee Karutha Rowther Howdia College
Uthamapalayam - 625533
Theni District
Tamil nadu

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme:II.B.COM**
Course Code: 23UCRCC41	**Staff Name: Dr. K. MOHAMED IRSHAD** **Mr. S. MOHAMED ISTHRISKHAN**
Course Name: CORPORATE ACCOUNTING-II	

Unit: I	
Topics to be covered	**No. of Hours**
"Amalgamation, Internal & External Reconstruction" "Amalgamation – Meaning - Purchase Consideration - Lump sum Method, Net Assets Method, Net Payment Method, Intrinsic Value Method -	5
Types of Methods of Accounting for Amalgamation -The Pooling of Interest Method - The Purchase Method (Excluding Inter-Company Holdings)."	5
Internal & External Reconstruction Internal Reconstruction – Conversion of Stock – Increase and Decrease of Capital – Reserve Liability	3
Accounting Treatment of External Reconstruction	2
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Accounting of Banking Companies Final Statements of Banking Companies (As Per New Provisions) - Non-Performing Assets - Rebate on Bills Discounted	5
Profit and Loss a/c - Balance Sheet as Per Banking Regulation Act 1949.	10
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Insurance Company Accounts Meaning of Insurance – Principles – Types – Preparation of Final Accounts of Insurance Companies –	8
Accounts of Life Insurance Business – Accounts of General Insurance Companies -New Format.	7
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Consolidated Financial Statements Introduction-Holding & Subsidiary Company-Legal Requirements Relating to Preparation of Accounts	8
Preparation of Consolidated Balance Sheet (Excluding Inter-Company Holdings).	7
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Liquidation of Companies Meaning-Modes of Winding Up – Preparation of Statement of Affairs and Statement of Deficiency or Surplus (List H)	8
Order of Payment – Liquidators Remuneration- Liquidator's Final Statement of Accounts.	7
Total	**15**

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Post Graduate & Research
Department Of Commerce
Hajee Karutha Rowther Howdia College
Uthamapalayam - 625533
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: II.B.COM**
Course Code: 23UCRCC42	**Staff Name: Dr. S.HASAN BANU** **Dr. A. SULTHAN MOHIDEEN** **Dr. M. ABDUL JABBAR**

Course Name: PRINCIPLES OF MARKETING

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Marketing Meaning–Definition and Functions of Marketing– Evolution of Marketing.	7
Concepts–Innovations in Modern Marketing. Role and Importance of Marketing - Classification of Markets - Niche Marketing	8
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Market Segmentation – 15 Hours "Meaning and definition - Benefits – Criteria for segmentation– Types of segmentation–	5
Geographic–Demographic–Psychographic–Behavioural–Targeting, Positioning & Repositioning - Introduction to Consumer Behaviour–	5
Consumer Buying Decision Process and Post Purchase Behaviour — Motives. Freud's Theory of Motivation."	5
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Product & Price Marketing Mix—an overview of 4P's of Marketing Mix–Product–Introduction to Stages of New Product Development–	8
Product Life Cycle—Pricing–Policies-Objectives–Factors Influencing Pricing–Kinds of Pricing.	7
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Promotions and Distributions Elements of promotion–Advertising–0bjectives -Kinds of Advertising Media-Traditional vs Digital Media -.	5
types of sales promotion–Personal Selling–Qualities needed for a personal seller-Channels of Distribution for Consumer Goods-	5
Sales Promotion –Channel Members – Channels of Distribution for Industrial Goods	5
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Competitive Analysis and Strategies Global Market Environment–Social Responsibility and Marketing Ethics – Recent Trends in Marketing –.	8
A Basic Understanding of E–Marketing & M–Marketing–E-Tailing–CRM–Market Research–MIS and Marketing Regulation	7
Total	**15**

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Department Of Commerce
Hajee Karutha Rowther Howdia College
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: II.B.COM**
Course Code: 23UCRSE41	**Staff Name: Dr. M. MOHAMED ILYAS**

Course Name: INNOVATION MANAGEMENT

Unit: I	
Topics to be covered	**No. of Hours**
Innovation and Competitive Advantage -Introduction, meaning, definition, concepts, nature, importance,	4
Principles of Innovation-process of Innovation	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Innovation and Creativity– Creativity-Meaning, definition	4
Hurdles to creativity	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Innovation Theories -	2
Major Contemporary theories	4
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
nnovation Process - New product development	3
Benchmarking TQM (Total Quality Management)	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Success and Innovation- Transformation of Business	3
Intellectual property rights	3
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: II.B.COM**
Course Code: 23UGEVS41	**Staff Name: Dr. M. ABDUL JABBAR**
Course Name: ENVIRONMENTAL STUDIES	

Unit: I	
Topics to be covered	**No. of Hours**
Earth and its Environment: a) Earth- formation and Evolution of Earth over time - structure of Earth and its components –	3
Atmosphere, Lithosphere, Hydrosphere and Biosphere: b) Resources – renewable and nonrenewable resources	3
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Ecology and ecosystem concepts: a) Ecology – definition - Ecosystem: Definition – structure and	3
function – energy flow – food chain and Food web – one example for an ecosystem b) Biogeochemical cycles – Nitrogen, carbon, Phosphorous and Water	3
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Biodiversity of India: a) Introduction – definition – Values of Biodiversity -Threat to Biodiversity– Conservation of Biodiversity	3
b) Biodiversity of India – as a mega diversity nation – bio-geographical distribution – Hot spots of biodiversity – National Biodiversity Conservation Board and its function	3
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Biodiversity of India: a) Introduction – definition – Values of Biodiversity -Threat to Biodiversity- Conservation of Biodiversity	3
b) Biodiversity of India – as a mega diversity nation – bio-geographical distribution – Hot spots of biodiversity – National Biodiversity Conservation Board and its function	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Biodiversity of India: a) Introduction – definition – Values of Biodiversity -Threat to Biodiversity– Conservation of Biodiversity	3
b) Biodiversity of India – as a mega diversity nation – bio-geographical distribution – Hot spots of biodiversity – National Biodiversity Conservation Board and its function	3
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: ECONOMICS	**Programme: II.B.A ECONOMICS**
Course Code: 23UECSE41	**Staff Name: Dr. S. FAIZ AHAMED**
Course Name: BASIC ACCOUNTANCY	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Accounting Definition – Objectives – Functions- Advantages and Disadvantages-	3
Single Entry Book Keeping and Double - Entry Book Keeping.	3
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Accounting -Books and Records Journal – Ledger- Subsidiary Book- Cash Book- Trial Balance – Meaning- Methods of Preparation –	3
Errors- Classification of Errors- Rectification of Errors.	3
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Final Accounts Final Accounts- Preparation of Trading- Profit and Loss Account-	3
Balance Sheet (Simple Adjustments).	3
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Bank Reconciliation Statement Bank Reconciliation Statement – Need - Meaning-	3
Method of Preparation of Bank Reconciliation Statement	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Tally Software Introduction to Accounting Package – Tally- Meaning, Features, Advantages, Data Entry, Formatting Data ,	3
Functional Keys and Simple Calculation- Tally: **(Theory for Exam)**	3
Total	**6**

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Department Of Commerce
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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: III.B.Com**
Course Code: 20UCRC61	**Staff Name : Dr. K. MOHAMED IRSHAD** **Mr. S. MOHAMED ISTHRISKHAN**

Course Name: CORPORATE ACCOUNTING-II

Unit: I	
Topics to be covered	**No. of Hours**
Accounting of Holding Companies: Hours Definition – Holding company – subsidiary company- calculation – of pre-acquisition and post –acquisition profits-	**8**
Cost of control or capital reserve – minority interest – revaluation of assets – treatment of unrealized inter-company profits	**5**
Preparation of consolidated balance sheet – simple problems only.	**5**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Accounts of Banking companies: meaning – legal requirements towards the preparation of final accounts	**8**
preparations of various schedules for preparing of Profit and Loss Account and Balance sheet (Forms A to Third schedule) as per the revised guidelines of Reserve Bank of India	**8**
Total	**16**

Unit: III	
Topics to be covered	**No. of Hours**
Accounts of Insurance Companies: principles of insurance – Accounts of life insurance business – accounts of general insurance business	**7**
preparation of various schedules for preparing of Revenue account, Profit and Loss account and balance sheet of Life Insurance and General Insurance Business	**6**
Ascertainment of profit under life insurance business	**5**
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Double Accounts system including Accounts of Electricity Companies: Meaning – Special features - Difference between single account system and double account system	12
Preparation of Revenue account, Net Revenue account, Capital account and General balance sheet- Replacement of an asset.	8
Total	**20**

Unit: V	
Topics to be covered	**No. of Hours**
Accounting for Price level Changes – Accounting Treatment	10
Current Purchasing Power (CPP) Method – Current Cost Accounting (CCA) Method	8
Total	**18**

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Department Of Commerce
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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: III B.Com**
Course Code: 20UCRC62	**Staff Name: Dr. M.MOHAMED ISHAQ** **Dr. A. SULTHAN MOHIDEEN**
Course Name: FINANCIAL MANAGEMENT	

Unit: I	
Topics to be covered	**No. of Hours**
Financial Management Definition and functions Scope Objectives	5
Key activities of Financial Management	5
Organisation of finance section Role and Functions of financial manager.	5
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Capital Budgeting Principles and Techniques Ranking of investments	2
Traditional method – Pay back method	2
Average rate of return method	2
Discounted Cash Flow (DCF)	2
Method – Techniques Net Present Value (NPV) method	2
Internal Rate of Return (IRR) method –	2
Technical Value method	2
Profitability Index method	1
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Capital Structure planning factors affecting capital structure	3
Determining debt and equity proportion theories of capital structure leverage concept	3
NI Approach NOI Approach MM approach Traditional Approach EPS Analysis Indifference point.	3
Cost of equity cost of preference capital cost of debt cost of retained earnings	3
Computation of weighted average or composite cost of capital	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Working capital – components of working capital - working capital operating cycle	4
Factors influencing working capital requirements determining or forecasting of working capital requirements	4
Management of components of working capital cash, receivables	4
Inventory management preparation of cash budget receivable management credit policy collection policy inventory	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Dividend and Dividend policy meaning classification and sources of dividend	5
Factors influencing dividend policies Theories of dividend decision	5
Irrelevance and Relevance Theories various dividend models (Walter's, Gordon's M.M hypothesis	5
Total	**15**

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Commerce	**Programme:III.B.COM**
Course Code: 20UCRC63	**Staff Name: Dr. K. SHARIFA NIZARA**
Course Name: INCOME TAX LAW AND PRACTICE II	

Unit: I	
Topics to be covered	**No. of Hours**
Clubbing of Income, Set-off and carry forward of losses	**8**
Deductions from gross total income u/s 80C to 80 U.	**7**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Assessment of individual	**8**
Hindu Undivided Family Computation of Taxable Income and Tax Liability	**7**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Assessment of Partnership Firm	**6**
Association of Persons	**2**
Joint Stock Companies Computation of Taxable Income and Tax Liability	**7**
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Return of Income, Submission of return of income, Return of Loss	3
Belated Return , Revised return	2
Procedure for assessment, Self-assessment, Reassessment, Best judgment assessment, Ex-Party assessment	8
Rectification of mistakes, Reopening of assessment.	2
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Collection of Tax , Introduction, Deduction of Tax at Source from Income under Five Heads	3
Advance of Payment of Tax, Advance payment, Tax refunds, Income Payable under 'Net of Tax' , Consequences of failure to deduct or pay tax	5
Tax credit certificate, Tax clearance certificate, Penalties, Procedure, Time Limit, Offences and Prosecution.	7
Total	15

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Head & Associate Professor
Post Graduate & Research
Department Of Commerce
Hajee Karutha Rowther Howdia College
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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: III.B. Com**
Course Code:20UCRC64	**Staff Name: Dr.A.ABDUL JABBAR**
Course Name: INDIRECT TAXES AND GST	

Unit: I	
Topics to be covered	**No. of Hours**
Overview of Indirect Tax Law Meaning, Concept, Features	3
Direct Taxes Vs Indirect Taxes Advantages Disadvantages	3
Constitutional Validity Administration and relevant Procedures	4
Total	**10**

Unit: II	
Topics to be covered	**No. of Hours**
Central Excise Laws Meaning Background Definitions Concepts	2
Excise Duty Vs Custom Duty Excise Duty Vs Sales Tax	2
Goods Meaning Concept Manufacture Manufacturer Classification Valuation	3
Levy and Collection of Excise Duty Registration and Excise Control Code -	3
Procedures in Central Excise Code Procedures in Central Excise	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
GST concept Meaning Historical Background Definition Objectives Advantages	3
Centre and State Financial Relations, GST Law, Features, Impact and Types of GST	3
GST Council Constitution, Structure, Action plan, Functions	3
Supply Meaning, Scope Time and Taxable Value of Supply Tax Invoice Credit and Debit Notes	3
Returns Furnishing details outward and Inward Supply Return First Return Annual Return- Final Return	2
Total	**14**

Unit: IV	
Topics to be covered	**No. of Hours**
Computation of tax and tax liability supply	4
Computation of its taxable value and tax liability Tax calculation for interstate supply value of supply	4
Taxable value of supply computation of Input Tax Credit (ITC) meaning, purpose, concept, conditions to avail the benefit of ITC and its appropriation under GST.	4
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Assessment Self and Provisional Assessment Scrutiny of Accounts	4
Assessment of Non-filers of Returns Assessment of Unregistered Persons	4
Demands and Recovery of Tax Inspection, Search, Seizure Offences Penalties, Prosecution Appeals	4
Total	12

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: III.B.Com**
Course Code: 20UCRC65	**Staff Name: Dr. M. MOHAMED ILYAS** **Dr. S. FAIZ AHAMED**
Course Name: BUSINESS ENVIRONMENT	

Unit: I	
Topics to be covered	**No. of Hours**
Meaning and Importance of the Study of business Environment	**3**
External Factors Affecting Business - Economic, Political, Legal, Social, Competitive, Ecological and Technological Factors	**6**
SWOT Analysis and Environmental Scanning	**3**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Industry: Introduction, Industrial Development under the Plans, Importance of Industries in Economic Development of India	**4**
Trends in Industrial Production in India, Present Status of Industrial Production	**4**
Problems of Industrial Development in India, Industrial policy, New policy, The Industrial Act and licensing system	**4**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Industrial Sickness: Definition and Causes	4
Sick Industrial Companies (Special Provisions)Act,1985	4
BIFR: Reference to BIFR, Inquiries and Schemes	4
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Business and economic system Public sector, private sector, joint sector, co – operative sector objectives, achievements And failures	6
Small Scale Sector: Definition, Problems of Small Scale Industries and Incentives to Small Scale Sector	4
Industrial Sickness in Small Scale Sector.	2
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Consumer Protection Act,2019, Consumer Rights	4
Social Responsibility of business	2
Dimensions of Social Responsibility, Arguments for and Against Social Responsibility of Business and Social Audit.	6
Total	12

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Hajee Karutha Rowther Howdia College
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Uthamapalayam,Theni-Dt-625533

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Department Of Commerce
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: III.B.Com**
Course Code: 20UCRE62	**Staff Name: Dr. K. RASOOL MYDEEN**

Course Name: LOGISTICS & SUPPLY CHAIN MANAGEMENT

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Logistics - Fundamentals of Logistics- Definition and Activities-Aims and importance	6
Progress in Logistics and Current Trends-Organization and Achieving Integration.	6
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Planning the supply chain - Logistics Strategy-Implementing the Strategy	6
Locating Facilities-Planning Resources-Controlling Material Flow	6
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Measuring and improving performance of supply chain- Procurement-Inventory Management	6
Warehousing and Material Handling Transport-Global Logistics	6
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Supply chain management - Basic Concepts of supply Chain Management-Planning and Sourcing	6
Making and Delivering-Returns-It and Supply Chain Management.	6
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Financial supply chain management - Financial Supply Chain- Elements of Financial Supply Chain Management	6
The Evolution of e-Financial Supply Chain-E-Financial supply chain- E-Financial supply chain banks Perspective-Legal Aspects of EFinancial Supply Chain.	6
Total	**12**

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: III.B.Com**
Course Code:20UCRS6P	**Staff Name: Dr. K.RASOOL MYDEEN** **Dr. A.SULTHAN MOHIDEEN** **Dr. S. FAIZ AHAMED**

Course Name: ACCOUNTING PACKAGE - PRACTICAL'S

Unit: I	
Topics to be covered	**No. of Hours**
Fundamentals of Computerized Accounting – Manual Accounting Vs Computerized Accounting	3
Architecture and Customization of Tally, Features of Tally	3
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Configuration of Tally - Tally screens and menus	2
Creation of Company Creation of Groups, Editing and deleting groups.	4
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Creation of Ledgers Editing, Altering and deleting ledgers.	3
Single Ledger and Multiple Ledgers.	3
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Introduction to Vouchers	2
Voucher entry, Payment voucher, Receipt voucher	4
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Sales vouchers, Purchase vouchers	2
Contra vouchers, Journal vouchers	2
Editing and deleting vouchers	2
Total	6

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: I.M. Com**

Course Code: 23PCRCC21	**Staff Name: Dr. A.SULTHAN MOHIDEEN** **Dr. M. MOHAMED ILYAS**

Course Name: STRATEGIC COST MANAGEMENT

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Strategic Cost Management (SCM) – Need for SCM – Differences between SCM and Traditional Cost Management - Value Chain Analysis	**6**
Meaning and steps - Quality Cost Management: Meaning of Quality and Quality Management – Cost of Quality –Indian Cost Accounting Standard 21 on Quality Control	**6**
Introduction to Lean System – Benefits of Lean System – Just in Time (JIT) – Kaizen Costing.	**6**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Cost Management Techniques: Cost Control: Meaning and Prerequisites - Cost Reduction: Meaning and Scope	**6**
Differences between Cost control and cost reduction - Pareto Analysis: Meaning, importance and applications	**6**
Target Costing Meaning, steps and Principles – Life Cycle Costing: Meaning, Strategiesfor each stage of product life cycle, Benefits Learning Curve: Meaning, Learning curve ratio and applications.	**6**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Activity Based Cost Management: Concept, Purpose, Stages	9
Benefits, Relevancein Decision making and its Application in Budgeting – Practical problems.	9
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Transfer Pricing: Meaning, Benefits, Methods: Pricing based on cost, Market price on transfer price,	9
Negotiated pricing and Pricing based on opportunity costs – Practical Problems.	9
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Agriculture Sector: Features, Cost Structure, Cost Management, Tools to measurethe performance,	6
Minimum Support Price and International Perspective – Information Technology Sector	6
Features, Cost Structure, Cost Management and International Perspective.	6
Total	**18**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625533

Signature of the HOD
Head & Associate Professor
Post Graduate & Research
Department Of Commerce
Hajee Karutha Rowther Howdia College
Uthamapalayam - 625533
Theni District
Tamil nadu

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: I.M. Com**
Course Code: 23PCRCC22	**Staff Name: Dr. S. FAIZ AHAMED**
Course Name: CORPORATE ACCOUNTING	

Unit: I	
Topics to be covered	**No. of Hours**
Issue of Shares: ESOPs - ESPS - Sweat Equity Shares - Book Building- Buy-back of Shares - Conversion of debentures into shares	**9**
Final accounts of Companies as per Schedule III of the Companies Act, 2013– Managerial remuneration.	**9**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Insurance Company Accounts: Types of Insurance - Final accounts of life assurance Companies	**6**
Ascertainment of profit-Valuation Balance Sheet	**6**
Final accounts of Fire, Marine and miscellaneous Insurance Companies.	**6**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
ConsolidatedfinancialstatementsasperAS21:ConsolidatedProfitandLossAccount	**6**
Minority interest–Cost of control–Capital reserve–Inter-company holdings	**6**
Preparation of consolidated Balance Sheet.	**6**
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Accounting for price level changes–Social responsibility accounting	**9**
Human resource accounting- Forensic Accounting.	**9**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Financial reporting: Meaning, Objectives, Characteristics Indian Accounting Standards (AS5,AS10,AS19,AS20)	**6**
CorporateSocialResponsibility:Meaning,KeyprovisionsofCompaniesAct,2013,	**6**
Accounting for CSR expenditure, Reporting of CSR, Presentation and disclosure in the financial statements.	**6**
Total	**18**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: I.M.COM**
Course Code: 23PCRCC23	**Staff Name: Dr. M. MOHAMED ISHAQ** **Dr. K. MOHAMED IRSHAD** **Mr. S. MOHAMED ISTHRISKHAN**
Course Name	**SETTING UP OF BUSINESS ENTITIES**

Unit: I	
Topics to be covered	**No. of Hours**
Types of business organizations –Factors governing selection of an Organisation - Startups – Evolution – Definition of a Startup – Startup landscape in India – Startup India policy	4
Funding support and incentives – Indian states with Startup policies – Exemptions for startups – Life cycle of a Startup – Important points for Startups – Financing options available for Startups – Equity financing – Debt financing –	8
Venture capital financing – IPO – Crowd funding – Incubators - Mudra banks – Successful Startups in India	6
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Formation and registration of NGOs – Section 8 Company – Definition – Features – Exemptions – Requirements of Section 8 Company	6
Application for incorporation – Trust: Objectives of a trust – Persons who can create a trust – Differences between a public and private trust – Exemptions available to trusts Formation of a trust - Trust deed	8
Society – Advantages – Disadvantages – Formation of a society – Tax exemption to NGOs.	4
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Limited Liability Partnership: Definition – Nature and characteristics – Advantages and disadvantages – Procedure for incorporation	6
– LLP agreement – Annual compliances of LLP-Business collaboration: Definition – Types –Joint venture: Advantages and disadvantages – Types	8
Joint venture agreement - Successful joint ventures in India– Special Purpose Vehicle – Meaning – Benefits – Formation.	4
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Registration and Licenses: Introduction – Business entity registration – Mandatory registration – PAN – Significance – Application and registration of PAN – Linking of PAN with Aadhar	6
TAN – Persons liable to apply for TAN – Relevance of TAN – Procedure to apply for TAN –GST: Procedure for registration – Registration under Shops and Establishment Act	6
MSME registration – Clearance from Pollution Control Board – FSSAI registration and license – Trade mark, Patent and Design registration.	6
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Geographical Indication of Goods (Registration and Protection) Act, 1999: Objectives, Salient Features - The Environmental Protection Act, 1986: Prevention, control and abatement of environmental pollution	6
The Water (Prevention And Control of Pollution) Act, 1974: The Central and State Boards for Prevention and Control of Water Pollution - Powers and Functions of Boards	6
Penalties and Procedure- The Air (Prevention and Control of Pollution) Act, 1981: Central and State Boards for The Prevention and Control of Air Pollution - Powers And Functions - Prevention and Control of Air Pollution - Penalties and Procedure.	6
Total	**18**

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Post Graduate & Research
Department Of Commerce
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Tamil nadu

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Commerce	**Programme: I M. Com**
Course Code: 23PCRDE21	**Staff Name: Dr. K. RASOOL MYDEEN** **Dr. K.SHARIFA NIZARA**

Course Name: BUSINESS ETHICS AND CORPORATE SUSTAINABILITY

Unit: I	
Topics to be covered	**No. of Hours**
Business Ethics- Meaning and Definition of Business Ethics - Nature of Business Ethics	**6**
Role and importance of Business Ethics and values in Business - Causes of unethical behaviour - Ethical issues.	**6**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Ethical Decision Making -Decision Making (Normal Dilemmas and problems) - Application of Ethical Theories in Business - Traditional Ethical Theories - Utilitarianism, - Ethical Egoism - Ethics of Duties	**6**
Normative Theories of Business Ethics - Stakeholder Theory - Stockholder Theory - Lawrence Kohlberg's Theory Model Development.	**6**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Moral Issues in Business - Importance of moral issues and reasoning - Whistle Blowing- Kinds of Whistle Blowing - Ethical issues in functional areas of business Marketing and Advertising - Truth in Advertising- Manipulation – Coercion-Trade Secrets- Corporate disclosure-Insider trading. Finance -Fairness' and efficiency in Financial Market – Greenmail-Golden Parachute	6
HR: Workers Rights and Duties - Work place Safety - Sexual Harassment-Equal Employment Opportunity- Preferential hiring. Environmental Protection - Safety and acceptable risk- Environmental Harm, Pollution and its Control– Product Safety and Corporate Liability.	6
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Corporate Sustainability - Concepts of sustainability - Social, Environmental and Economic dimensions -Sustainability in a business context. Principles of Sustainable Development: History and emergence of the concept of Sustainable Development	6
Definitions, Environmental issues and crisis, Resource degradation, Greenhouse gases, Desertification, Social insecurity, Industrialization, Globalization and Environment	6
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Sustainability Reporting Sustainability Reporting - Investors, customers, government and media- Disclosing sustainability information – report and website - Transparency and Accountability - One Report movement	6
Financial and non-financial together - Triple bottom line concept for Sustainable Business - Sustainability Reporting: Flavour of GRI, BRR, BRSR.	6
Total	**12**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: I.M.Com**
Course Code: 23PCRGE21	**Staff Name: Dr. S. HASAN BANU** **Dr. M. ABDUL JABBAR**

Course Name: RURAL AND AGRICULTURAL MARKETING

Unit: I	
Topics to be covered	**No. of Hours**
Rural marketing – Meaning – Definition – Concept and nature of rural marketing – Taxonomy of rural markets	**6**
Urban vs. Rural marketing–Rural marketing environment– Becoming a successful rural marketer	**6**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Rural buyer behaviour–Aspects of rural buyer behaviour–Rural consumer decision making process–Environmental factors affecting rural consumers	**6**
Buyer characteristics and innovation adoption–Rural STP approach–Guidelines	**3**
For effective segmentation and emerging rural market segments.	**3**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Rural product strategy–Rural product classification and decisions–Product innovation strategies – Customer value strategies – Rural branding and packaging strategies – Role of Agricultural Price Commission in India(APC)	**6**
Introduction to APC - Basic objectives of the Commission - Determination of Minimum Support Price(MSP)-Non price measures-	**3**
Minimum support price of selected commodities - Benefit to the farmers - Rationale of support pricing - Limitations of MSP.	**3**
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Food processing industry infrastructure in India-Meaning of processing-Advantages of food processing -Processing of agricultural commodities (Wheat, Paddy, Pulses and Oil seeds)–Importance of cold chains	4
Rural distribution strategy–Rural distribution and logistics–Direct vs Indirect marketing–Organised rural retailing	3
Types of retail outlets – Rural malls – e-tailing and training for rural retailers – Rural supply chain management	2
ITC e-choupal –Rural promote on mix– Marketing communication challenge in rural markets	3
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Cooperative marketing: Meaning - Role of cooperatives - Structure of cooperative marketing societies - Types of Co-operative marketing societies	6
Membership –Functioning – Agri export zones – Small Farmers Agri Business Consortium –e NAM–Tamil Nadu State Agricultural Marketing Board.	6
Total	12

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Post Graduate & Research
Department Of Commerce
Hajee Karutha Rowther Howdia College
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: I M.A. History**
Course Code: 23PCRSE21	**Staff Name: Mr. S. MOHAMED ISTHRISKHAN**
Course Name: ACCOUNTING FOR MANAGERS – I (NME)	

Unit: I	
Topics to be covered	**No. of Hours**
Meaning and scope of Accounting	3
Basic Accounting concepts and conventions	4
Objectives of Accounting – Accounting transactions	3
Total	**10**

Unit: II	
Topics to be covered	**No. of Hours**
Double Entry Book Keeping	2
Journal	5
Ledger	4
Preparation of Trial Balance.	3
Total	**14**

Unit: III	
Topics to be covered	**No. of Hours**
Subsidiary book	2
Preparation of cashbook – Single column, double column and triple columns cashbook.	8
Total	**10**

Unit: IV	
Topics to be covered	**No. of Hours**
Bank reconciliation statement	4
Errors – Types– Errors disclosed and not disclosed by trial balance -	4
Rectification of errors – Suspense account	4
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Preparation of Final Accounts	4
Adjustments–Closing stock, Outstanding, Prepaid and accrued, depreciation, bad and doubtful debts	6
Provision and discount on debtors and creditors.	4
Total	**14**

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Post Graduate & Research
Department Of Commerce
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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: II. M.COM**

Course Code: 23PCRCC41	**Staff Name: Dr. K.SHARIFA NIZARA** **Dr. M.ABDUL JABBAR** **Mr. S.MOHAMED ISTHRISKHAN**

Course Name: Corporate and Economic Laws

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Foreign Exchange Management Act, 1999 Foreign Exchange Management Act, 1999: Introduction – Definitions – Current Account transactions	6
Capital Account transactions – Realisation, repatriation and surrender of foreign currency – Remittance of assets	6
Possession and retention of foreign currency or foreign coins – Authorised person – Adjudication and Appeal.	6
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Competition Act, 2002 and Consumer Protection Act, 2019 Competition Act, 2002: Objective – Prohibition of Agreements, Prohibition of Abuse of Dominant Position - Regulation of combinations -	6
Competition Commission of India: Duties, Powers and Functions of Commission - Appellate Tribunal.	6
The Consumer Protection Act, 2019: Objects; Rights of consumers –Consumer Dispute Redressal Commissions	3
Consumer protection councils – Procedure for admission to complaints – Appeal against orders.	3
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Law relating to intellectual property rights Law relating to intellectual property rights: Introduction - The Copyright Act, 1957:Works in which copyright subsist - Ownership of copyright and the rights of the owner	5
Assignment of copyright - Disputes with respect to assignment of copyright- Term of copyright - Registration of copyright - Infringement of copyright.	5
The Patents Act, 1970: Inventions not patentable - Applications for patents - Publication and examination of applications - Grant of patents and rights conferred	4
Register of patents. Trademarks Act, 1999: Conditions for registration - Procedure for and duration of registration - Effect of registration - Collective marks.	4
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Prevention of Money Laundering Act, 2002 Prevention of Money Laundering Act, 2002: Offence of money laundering –Punishment for money laundering –Attachment, adjudication and confiscation -	9
Obligations of Banking Companies, Financial Institutions and Intermediaries – Summons, Search and Seizure– Appellate Tribunal.	9
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Real Estate (Regulation and Development) Act, 2016 Real Estate (Regulation and Development) Act, 2016: Introduction - Salient features of the Act - Registration of Real Estate Project – Registration of Real Estate agents	9
Functions and duties of promoter – Rights and duties of Allottees – Offences, penalties and adjudication – Specimen agreement for sale to be executed between the promoter and the allottee.	9
Total	**18**

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Post Graduate & Research
Department Of Commerce
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Tamil nadu

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: II.M.Com**
Course Code: 23PCRCC42	**Staff Name: Dr. M. MOHAMED ISHAQ** **Dr. K. RASOOL MYDEEN**
Course Name: HUMAN RESOURCE ANALYTICS	

Unit: I	
Topics to be covered	**No. of Hours**
Human Resource Analytics: Introduction -Concept - Evolution - Importance -Benefits Challenges	**9**
Types of HR Analytics - HR Analytics Framework and Models.	**9**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Business Process and HR Analytics: Introduction - Data Driven Decision Making in HR - Data Issues - Data Validity - Data Reliability	**9**
HR Research tools and techniques -Statistics and Statistics Modelling for HR Research.	**9**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
HR Metrics: Introduction - Historical Evolution of HR metrics- Importance - Types of HR Metrics - Types of data	**9**
HR Metrics Design Principles --HR Scorecard -HR Dashboards.	**9**
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
HR Analytics and Data: Introduction - HR Data Collection - Data quality - Big data for Human Resources - Process of data collection for HR Analytics	**9**
HR Reporting - Data Visualization - Root cause analysis.	**9**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
HR Analytics and Predictive Modelling: Introduction - HR Predictive Modelling - Different phases - Predictive analytic tools and techniques - Information for Predictive analysis	**9**
Software solutions -Predictive Analytic Models for Quantitative Data - Steps involved in predictive analytics.	**9**
Total	**18**

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Signature of the HOD
Head & Associate Professor
Post Graduate & Research
Department Of Commerce
Hajee Karutha Rowther Howdia College
Uthamapalayam - 625533
Theni District
Tamil nadu

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme:II.M.COM**

Course Code: 23PCRGE41	**Staff Name: Dr. S .HASAN BANU** **Dr. A. SULTHAN MOHIDEEN** **Dr. M. MOHAMED ILYAS**

Course Name: ORGANISATIONAL BEHAVIOUR

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Organizational Behaviour and Learning Introduction to Organizational Behaviour – OB Models - Challenges facing management –Personality – Perception- Attitudes – Values.	6
Organisational Learning: Meaning, Theories(Chris Argyris and Donald Schon: Espoused theory, Theory-in-use, Three levels of learning) Introduction to learning organisation	6
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Motivation and Job Satisfaction Motivation Theories – Content theories (Maslow, Herzberg, ERG),	6
Process Theories (Vroom, Porter and Lawler)– Job Satisfaction-Organizational commitment.	6
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Organisational structure and Communication Organisational structure- Factors, Forms. Importance of virtual organisations - Organisationalcommunication- Importance, Forms,	6
Functions. Organisational climate and culture. Business communication: Harnessing Business Emails and Corporate Communication tools	6
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Transactional Analysis and Organizational Conflicts Transactional analysis: Meaning, Benefits, Levels of self-awareness, Analysis of transactions. Organizational Conflicts – Process, Levels, Conflict management.	6
Negotiation – Types and Process -Introduction to Workplace Spirituality.	6
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Contemporary practices in Organisational Change and Development International Organisational Behaviour Practices - Organizational Change and Change Management..	6
Organisational Development–Meaning, Models and Interventions	6
Total	**12**

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Department Of Commerce
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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: COMMERCE	**Programme: II.M.COM**

Course Code: 23PCRSE4P	**Staff Name: Dr. K.RASOOL MYDEEN** **Dr. A.SULTHAN MOHIDEEN** **Dr. K. MOHAMED IRSHAD** **Dr. M.MOHAMED ILYAS**

Course Name: ADVANCED MS-EXCEL

Unit: I	
Topics to be covered	**No. of Hours**
Features of MS-Excel, work sheet and work book: Labeling and Naming Worksheets and Workbooks, Adding, Deleting and Saving Worksheets and Workbooks, Reposition Worksheets, Inserting, Deleting, and	6
Renaming Worksheets, Copy Worksheets, printing a Workbook, formatting a Worksheet, Adding Elements to a Workbook, Protecting Worksheet and Workbook.	6
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Import external data and creating table: Import external data, creating a Table, Sorting Data into a Table, Data Validation, and Consolidation. Defining Names in MS Excel, Macros: View Macros, Record Macros,	6
Formulas and Functions: Creating a formula, Formula Auditing, Meaning and advantages of functions, Insert functions, Use relative References, Mathematical Functions, Statistical Advantages Functions, Date of functions, & Time Functions	6
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Creating charts: Charts: Chart elements: Titles, legend, data labels, creating a New Chart, Formatting the Chart, Types charts, Using Chart Templates.	6
PivotTables: PivotTables, creating a Pivot Table, Filtering and Sorting a PivotTable, Using Slicers to manipulate Pivot Tables, Creating a Pivot Chart	6
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Filtering Data: Creating a Custom AutoFilter, Using an Advanced Filter, Data sorting. Data outline: Group, Ungroup and Subtotals.	6
What if Analysis: Scenario manager, Goal seek, Data table.	6
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Preparation and presentation of Financial statement: Introduction to Financial Modeling, Representation of Financial Statement: Profit & Loss Account, Balance sheet, Cash Flow Statement. Ratio Analysis	6
: Short Term, Long Term, Activity Ratios, Profitability Ratios. Financial Statement Analysis: Comparative, Common size statements and trend Analysis.	6
Total	**12**

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Head & Associate Professor
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Department Of Commerce
Hajee Karutha Rowther Howdia College
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TEACHING PLAN

For the Academic Year 2024-25([redacted] / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	Programme: BBA
Course Code:23UBACC21	Staff Name:Dr.P.KAVIMANI /L.SARAVANA PRIYA

Course Name: MARKETING MANAGEMENT

Unit: I	
Topics covered	**No. of Hours**
Fundamentals of Marketing – Role ofMarketing	4
Relationship of Marketing With Other Functional Areas	4
Concept of Marketing Mix – Marketing Approaches	4
Various Environmental Factors Affecting the Marketing Functions.	3
Total	15 hrs

Unit: II	
Topics covered	**No. of Hours**
Segmentation – Need And Basis of Segmentation	3
Targeting – Positioning	3
Product – Characteristics – Benefits – Classifications	3
Consumer Goods – Industrial Goods- Product Mix- New Product Development Process	3
Product Life Cycle. Branding – Packaging.	3
Total	15 hrs

Unit: III	
Topics covered	No. of Hours
Pricing – Factors Influencing Pricing Decisions	4
Pricing Objectives - Market Physical Distribution	3
Importance – Various Kinds of Marketing Channels	4
Distribution Problems.	4
Total	15 hrs

Unit: IV	
Topics covered	No. of Hours
A Brief Overview of Communication Mix- Types of Media & its Characteristics- Sales Promotion tools -	4
Print - Electronic - Outdoor – Internet	3
A tool to customer loyalty.	3
IMC (Integrated marketing communication) - Definition, Process	3
Need & Significance -CRM – Importance.	2
Total	15 hrs

Unit: V	
Topics to be covered	No. of Hours
Sales Force Management	4
Personal Selling Process	3
Motivation, Compensation and Control of Sales Force	4
Digital Marketing: Introduction- Applications & Benefits -	4
Total	15 hrs

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(Autonomous)
Uthamapalayam, Theni Dt-625533

Signature of the HOD

HEAD
Department of Business Administration
H.K.R.H. College (Autonomous)
Uthamapalayam - 625 533, Theni Dt

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TEACHING PLAN

For the Academic Year 2024-25 (ODD / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	Programme: BUSINESS ADMINISTRATION

Course Code: 23UBACC22	Staff Name: A. ABDUL HAKEEM /Dr.P.KAVIMANI

Course Name: ACCOUNTING FOR MANAGERS -II

Unit: I	
Topics covered	**No. of Hours**
Cost accounting – Meaning, nature, scope	3
Cost accounting functions	3
Need importance and limitations	3
Cost concepts and classification	3
Cost sheets – Tenders & Quotation	3
Total	15

Unit: II	
Topics covered	**No. of Hours**
Management accounting – Meaning, nature, scope and functions	3
Need, importance and limitations	3
Management Accounting vs. Cost Accounting. Management Accounting vs. Financial Accounting	3
Analysis and Interpretation of financial statements – Nature, objectives, essentials and tools	3
Comparative Statements, Common Size statement and Trend analysis.	3
Total	15

Unit: III	
Topics to be covered	**No. of Hours**
Ratio Analysis – Interpretation	3
Benefits and limitations	3
Classification of ratios	3
Liquidity, Profitability, turnover	3
Cash flow and Funds flow statement	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Budgets and budgetary control – Meaning, objectives	5
Merits and demerits Budgets	5
Sales, Production, flexible budgetsand cash budget	5
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Marginal Costing	5
CVP analysis	5
Break even analysis	5
Total	**15**

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TEACHING PLAN

For the Academic Year 2024 - 25([redacted] / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**

Course Code: 23UBAGE21	**Staff Name: Dr.R.SANKARANARAYANAN**

Course Name: INTERNATIONAL BUSINESS

Unit: I	
Topics covered	**No. of Hours**
Introduction to International Business: nature and scope of international business and their involvement in International Business	3
Internationalization processand Approaches	3
Modes of entry, Multinational Corporations Importance	3
Advantage and problems of MNCs.	3
Total	**12**

Unit: II	
Topics covered	**No. of Hours**
Introduction of Trade theories, Mercantilism	3
Absolute Advantage, Comparative Advantage	3
Heckscher-OhlinTheory, The New Trade Theory	3
Porter's Diamond, Competitive Advantage Theory.	3
Total	**12**

Unit: III	
Topics covered	**No. of Hours**
Foreign Investments-Pattern, Foreign exchange rates and their impact on trade and investment flows	3
Functions of Foreign Exchange Market- Foreign Direct Investments	3
Factors influencing FDI , Modes of FDI entry	3
Horizontal and Vertical Foreign Direct Investment, Advantages of Host and Home Countries	3
Total	12

Unit: IV	
Topics covered	**No. of Hours**
Drivers in Globalisation - Globalisation of Markets	3
Production, investments and Technology	3
World trade in goods and services, Major trends and developments	3
World trade and protectionism — Tariff and non-tariff barriers	3
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Regional Economic Groupings in Practice, Levels of Regional Economic Integration Regionalism vs. Multilateralism	3
Important Regional Economic Groupings in the World	3
Contemporary Issues in International Business	3
Institutional support to international business like BREXIT, IMF, World Bank, ILO and WTO.	12
Total	

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TEACHING PLAN

For the Academic Year 2024 -25 ([redacted]/ EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	Programme: BUSINESS ADMINISTRATION
Course Code:23UBASE21	Staff Name: Dr. S.ASHA BANU

Course Name: [redacted] MANAGERIAL SKILL DEVELOPMENT

Unit: I	
Topics covered	No. of Hours
Self: Core Competency, Understanding of Self,Components of Self	2
Self-identity, Self-concept, Self -confidence and Self-image	2
Skill Analysis and finding the right fit	1
Self-learning styles, attitude towards change and applications of skills	1
Total	6

Unit: II	
Topics covered	No. of Hours
Self Esteem: Meaning & Importance,	2
Components of self-esteem, High and low self-esteem,	2
measuring our self-esteem and its effectiveness,	1
Personality mapping tests, Appreciative Intelligence.	1
Total	6

Unit: III	
Topics covered	No. of Hours
Building Emotional Competence: EmotionalIntelligence	2
Meaning, Components, Importance and Relevance,	2
Positive and Negative Emotions., Healthy and Unhealthy expression of Emotions, The six-phase	1

Model of Creative Thinking: ICEDIP model.	1
Total	6

Unit: IV	
Topics covered	No. of Hours
Thinking skills: The Mind/Brain/Behaviour, thinking skills, Critical Thinking and Learning	2
Making Predictions and Reasoning, Memory and Critical Thinking, Emotions and Critical Thinking.	2
Creativity: Definition and meaning of creativity, The nature of creative thinking, Convergent and Divergent thinking,	1
Idea generation and evaluation (Brain Storming), Image generation and evaluation	1
Total	6

Unit: V	
Topics to be covered	No. of Hours
Communication related to course: How to make oral presentations, conducting meetings, reporting of projects, reporting of case analysis,	2
answering in Viva Voce, Assignment writing Debates, presentations,	2
role plays and group discussions	2
Total	6

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TEACHINGPLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	Programme: BUSINESS ADMINISTRATION
Course Code: 23UBACC41	Staff Name: Dr. P. KAVIMANI / Dr.S. ASHA BANU

Course Name: BUSINESS ENVIRONMENT

Unit: I	
Topics covered	**No. of Hours**
The concept of Business Environment: its nature and significance.	5
A brief overview of political, cultural, legal, economic, and social environments.	5
Their impact on business and strategic decisions.	5
Total	15

Unit: II	
Topics covered	**No. of Hours**
Political Environment: Functions of state	5
Economic roles of government	5
Government and legal environment	3
The constitutional environment, rationale and extent of state intervention	2
Total	15

Unit: III	
Topics to be covered	**No. of Hours**
Economic Environment: Business Cycles (Inflation, Deflation).	4
Macroeconomic Parameters Like GDP, Growth Rate, Population, Urbanization, National Income, and Per Capita Income, and Their Impact on Business Decisions.	4
Five-year planning; establishment of NITI Aayog (National Institution for Transforming India).	4
1991 New Economic Policy; business liberalization, privatization, and globalization.	3
Total	15

Unit: IV	
Topics to be covered	No. of Hours
Social environment; cultural heritage	3
social attitudes; castes and communities	4
Joint family systems; linguistic	4
religious groups; types of social organisation	4
Total	15

Unit: V	
Topics to be covered	No. of Hours
Technology environment – Industry 4.0-Meaning	3
Features- basic Applications and Uses	4
Blockchain, AI, AR, Cloud,	4
IOT, IIOT, Big Data and Analytics	4
Total	15

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	Programme: BUSINESS ADMINISTRATION
Course Code: 23UBACC42	Staff Name: L.SARAVANA PRIYA

Course Name: **BUSINESS REGULATORY FRAME WORK**

Unit: I	
Topics covered	No. of Hours
Brief outline of Indian Contracts Act	7
Special contracts Act	8
Total	15

Unit: II	
Topics covered	No. of Hours
Brief outline of Indian Companies Act 1956.	3
kinds-formation	4
MOA-AOA- Prospectus	4
Appointment of Directors- Duties-Meeting- Resolutions-Winding up	4
Total	15

Unit: III	
Topics to be covered	No. of Hours
Consumer Protection Act	7
RTI	8
Total	15

Unit: IV	
Topics to be covered	No. of Hours
Brief outline of Cyber laws	7
IT Act 2000 & 2008	8
Total	15

Unit: V	
Topics to be covered	No. of Hours
Brief outline of Cyber laws	8
IT Act 2000 & 2008	7
Total	15

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TEACHINGPLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**

Course Code: 23UBAGE41	**Staff Name: Dr.S. ASHA BANU**

Course Name: OPERATION RESEARCH

Unit: I	
Topics covered	**No. of Hours**
Linear Programming problem -Concept and scope of OR.	3
General mathematical model of LPP, steps of L.P model formulation.	3
Graphical method of the solution of LPP- simple problems.	3
Total	9

Unit: II	
Topics covered	**No. of Hours**
Transportation problem- Basic definitions.	2
Formulation of transportation problem as LPP, finding an initial basic feasible solution.	2
North -west corner rule, row minima method, column minima method, least cost entry method.	2
Vogel's approximation method to find the optimal solution.	3
Total	9

Unit: III	
Topics to be covered	**No. of Hours**
Assignment problem-Hungarian method	3
Minimization and Maximization case, unbalanced assignment problem	2
Sequencing Problem-Processing n jobs on 2 machines.	2
Processing n jobs on 3 machines, processing n jobs on m machines.	2
Total	9

Unit: IV	
Topics to be covered	**No. of Hours**
Network models	**2**
PERT and CPM — difference between PERT and CPM	**2**
Constructing network- critical path	**3**
Various floats, three-time estimates for PERT	**2**
Total	**9**

Unit: V	
Topics to be covered	**No. of Hours**
Game Theory- Maximin-Minmax criterion	**2**
Saddle point, Dominance property	**3**
Graphical method for solving 2xn and mx2 game	**2**
Decision Theory –statement of Baye's theorem application - decision trees.	**2**
Total	**9**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	Programme: BUSINESS ADMINISTRATION
Course Code: 23UBASE4P	Staff Name: Dr. P. KAVIMANI/ Dr.S. ASHA BANU
Course Name: TALLY	

Unit: I	
Topics covered	No. of Hours
Basic of Accounting & Fundamentals of Tally.	2
ERP 9: Accounting Principles or Concepts, Rules for Accounting.	2
Creation/ Setting up of Company in Tally ERP 9 and Configuration.	2
Total	6

Unit: II	
Topics covered	No. of Hours
Accounting Master in Tally.	2
ERP 9: Groups & Ledgers Creation Inventory Master in Tally.	2
ERP 9: Creation of Stock Groups and Categories and Units of Measure.	2
Total	6

Unit: III	
Topics to be covered	No. of Hours
Vouchers Entries & Advance Accounting in Tally.	2
ERP 9: Types of Vouchers, Invoicing, Bill Wise Details	2
Cost Centers and Bank Reconciliation and Scenarios Management.	2
Total	6

Unit: IV	
Topics to be covered	No. of Hours
Advance Inventory & Taxes in Tally.	2
ERP 9: Order processing, Batch Wise Details, POS, TDS	2
TDS Returns Filing, TCS, GST Returns, EPF, ESIC & Professional Tax.	2
	2
Total	6

Unit: V	
Topics to be covered	No. of Hours
Technological Advantages.	2
Payroll, Report Generations.	2
Short Keys in Tally, ERP 9.	2
	2
Total	6

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**
Course Code: 23UBASE42	**Staff Name: L. SARAVANA PRIYA / S.ASHA BANU**

Course Name: Intellectual Property Rights

Unit: I	
Topics covered	**No. of Hours**
IPR Introduction: and the need for intellectual property right – IPR in India	**1**
Different Classifications –Important Principles of IP Management	**2**
Commercialization of Intellectual Property Rights By Licensing–Intellectual Property Rights in the Cyber World.	**3**
Total	**6**

Unit: II	
Topics covered	**No. of Hours**
Introduction–Classification.	**2**
Importance–Types of Patent Applications in India	**2**
Patentable Invention– Inventions Not Patentable.	**2**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction–Fundamentals –Concept–Purpose–Functions–Characteristics.	**2**
Guidelines - For Registration of Trade Mark – Kinds of TM.	**2**
Protection – Non-Registrable Trademarks-Industrial Designs –Need for Protection of Industrial Designs.	**2**
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Introduction to Copyright– Conceptual Basis.	**2**
Copy Right and Related Rights–Author & Ownership of Copyright.	**2**
Rights Conferred by Copy Right Registration – Transfer –Infringement– CopyrightpertainingtoSoftware/InternetandotherDigitalmedia.	**2**
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
GEOGRAPHICAL INDICATIONS, Concept.	**3**
Protection & Significance.	**3**
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 ([redacted]/ EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**
Course Code: 23UBASE22	**Staff Name: Dr. R. Sankaranarayanan**

Course Name:BUSINESS ETIQUTIESS AND CORPORATE GOMMINGS

Unit: I	
Topics covered	**No. of Hours**
Introduction to Business Etiquette: Introduction- ABCs of etiquette- meeting and greeting scenarios-	2
Principles of exceptional work behavior-	2
Role of good manners in business - professional conduct - and personal spacing.	2
Total	6

Unit: II	
Topics covered	**No. of Hours**
Workplace Courtesy and Business Ethics:Workplace Courtesy--Etiquette at formal gatherings	1
Professional qualities expected from anemployer's perspective - Hierarchy and Protocol.	2
Ethical issues -preventing sexual harassment	1
Conflict resolution strategies- Choosing appropriate gift in the business environment.	1
Real life work place scenarios -company policy forbusiness etiquette	1
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Telephone Etiquette,email etiquette and DisabilityEtiquette	2
Mastering the telephone courtesy, handling rude orimpatient clients	1
Internet usage in the work place	1

E- mail etiquette, online chat etiquette guidelines	1
Basic disability - Etiquette practices.	1
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Diversity and Cultural Awareness at Workplace	2
Impact of diversity -Cultural Sensitivity	2
Taboos and Practices -Inter- Cultural Communication	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Business Attire and Professionalism Business style and professional image	2
Dress code- guidelines for appropriate	2
Business attire - grooming for success.	2
Total	6

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TEACHINGPLAN

For the Academic Year 2024 -25 (7 EVEN SEMESTER)

Department: BUSNESS ADMINISTRATION	Programme: BBA
Course Code:20UBAC61	Staff Name: L.SARAVANAPRIYA

Course Name: MANAGEMENT INFORMATION SYSTEM

Unit: I	
Topics covered	No.of Hours
MIS - Introduction	4
MIS -Definition, Concept	4
Role of the Management Information system	4
MIS and the User , Management Information System and Computer	3
Total	15hrs

Unit: II	
Topics covered	No.of Hours
Strategic Management	3
Concept of Strategic Management	4
Types of Strategies	4
Overall Company Growth, Product and Market.	4
Total	15hrs

Unit: III	
Topics covered	No.of Hours
Decision making	3
Rational Decision Making	3
Problems in making rational decisions	3
Herbert Simon's Decision Model	3
Methods for decision alternatives.	3
Total	15hrs

Unit: IV	
Topics covered	No.of Hours
Project planning and control models	3
Mathematical programming and linear programming.	3
Inventory control models; ABC Analyses, MRP system.	3
Artificial Intelligence System	3
Knowledge Based Expert System – Components.	3
Total	15hrs

Unit: V	
Topics to be covered	No.of Hours
Database Management system: Meaning of Database	3
DBMS- Contents of DBMS	3
Database Models; Hierarchical, Network and Relational	3
Security in the Database Environment	3
RDBMS – Meaning – Twelve Rules.	3
Total	15 hrs

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	Programme: BUSINESS ADMINISTRATION
Course Code: 23UGEVS41	Staff Name: L.SARAVANA PRIYA
Course Name: EVS	

Unit: I	
Topics covered	No. of Hours
Earth and its Environment: a) Earth- formation and Evolution of Earth over time - structure of Earth and its components – Atmosphere, Lithosphere, Hydrosphere and Biosphere.	3
b) Resources – renewable and nonrenewable resources	3
Total	6

Unit: II	
Topics covered	No. of Hours
Ecology and ecosystem concepts: a) Ecology – definition - Ecosystem: Definition –	2
structure and function – energy flow – food chain and Food web – one example for an ecosystem	2
b) Biogeochemical cycles – Nitrogen, carbon, Phosphorous and Water	2
Total	6

Unit: III	
Topics to be covered	No. of Hours
Biodiversity of India: a) Introduction – definition – Values of Biodiversity -Threat to Biodiversity – Conservation of Biodiversity	3
b) Biodiversity of India – as a mega diversity nation – bio-geographical distribution – Hot spots of biodiversity – National Biodiversity Conservation Board and its function	3
Total	6

Unit: IV	
Topics to be covered	No. of Hours
Pollution and Global issues: a) Definition, causes, effects and control measures of Air, Water, Soil, Marine, Noise, Thermal and Nuclear pollution	3
b) Global issues: Global Warming and Ozone Layer Depletion	3
Total	6

Unit: V	
Topics to be covered	No. of Hours
Development and Disaster Management: a) Sustainable Development – Sustainable Agriculture – Organic farming, Irrigation – Water harvesting and Waste recycling – Cyber waste and management	3
b) Disaster Management – Flood and Drought – Earthquake and Tsunami – Landslides and Avalanches – Cyclones and Hurricanes –Precautions, Warnings, Rescue and Rehabilitation	3
Total	6

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TEACHINGPLAN

For the Academic Year 2024 -25 ([redacted]/ EVEN SEMESTER)

Department: BUSNESS ADMINISTRATION	Programme: BBA
Course Code:20UBAC62	Staff Name: A.ABDUL HAKEEM
Course Name: FINANCIAL MANAGEMENT	

Unit: I	
Topics covered	No.of Hours
Financial Management – Definition and functions	4
Scope – Objectives – Key activities of Financial Management	4
Organisation of finance section	4
Role and Functions of financial manager.	3
Total	15hrs

Unit: II	
Topics covered	No.of Hours
Capital Budgeting – Principles and Techniques – Ranking of investments	4
Traditional method – Pay back method – Average rate of return method – Discounted Cash Flow (DCF) Method – Techniques	3
Net Present Value (NPV) method – Internal Rate of Return (IRR) method – Technical Value method– Profitability Index method	4
Analysis of Risk and Uncertainty – Definition – Sensitivity analysis – Risk Evaluation Approach – Risk Adjusted Discount Approach – Probability Distribution Approach – Decision Tree Approach.	4
Total	15hrs

Unit: III	
Topics covered	No.of Hours
Capital Structure – Theories - Planning – NI Approach - NOI Approach	3

MM approach – Traditional Approach – EPS Analysis – Indifference point	3
Analysis of Leverages – Types of Leverages – Financial leverage and Operating leverage	3
Cost of capital – Definition – Importance - assumptions – Explicit and implicit cost – cost of debt	3
cost of preference shares - cost of equity – cost of retained earnings – computation of overall cost of capital.	3
Total	15hrs

Unit: IV	
Topics covered	No.of Hours
Working capital, cash and receivables management – working capital management – meaning, Concept, classification of working capital	3
Factors determining working capital requirements - Computation of working capital under operating cycle method	3
Cash Management – cash inflows and out flows – Tools of Cash Management	3
Planning of Cash under cash Budget method – Receivables management	3
Various aspects of receivable management – Credit policy – Credit teams – Credit standards and collection policy	3
Total	15hrs

Unit: V	
Topics to be covered	No.of Hours
Dividend and Dividend policy – meaning	3
classification and sources of dividend –	3
factors influencing dividend policies	3
Theories of dividend decision	3
irrelevance and relevance theories.	3
Total	15hrs

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TEACHING PLAN

For the Academic Year 2024 -25 ([redacted] / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**
Course Code: 20UBAC63	**Staff Name:Dr.P.KAVIMANI**

Course Name: Consumer Behaviour

Unit: I	
Topics covered	**No. of Hours**
Introduction - Consumer Behaviour definition	4
Scope of consumer behaviour – Discipline of consumer behaviour	4
Customer Value Satisfaction – Retention Marketing ethics	4
Total	12

Unit: II	
Topics covered	**No. of Hours**
Consumer research – Paradigms – The process of consumer research	4
Consumer motivation – dynamics – types	4
Measurement of motives – consumer perception	4
Total	12

Unit: III	
Topics covered	**No. of Hours**
Consumer Learning Behavioral learning theories	4
Measures of consumer learning Consumer attitude	4
Formation – Strategies for attitude change	4
Total	12

Unit: IV	
Topics covered	**No. of Hours**

Social Class and Consumer Behaviour – Life style Profiles of consumer classes Strategies	6
Cross Cultural Customers Behaviour	6
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Consumer Decision Making – Opinion Leadership – Dynamics	4
Types of consumer Decision making	4
A Model of Consumer Decision Making	4
Total	12

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TEACHING PLAN

For the Academic Year 2024 -25 ([redacted] / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	Programme: BUSINESS ADMINISTRATION

Course Code: 20UBAC64	Staff Name: Dr. S.ASHA BANU

Course Name: FINANCIAL SERVICES

Unit: I	
Topics covered	**No. of Hours**
Merchant banking - function - modes of rising capital from domestic and foreign markets	3
Raising short term funds - recent developments in the capital markets	3
SEBI Guidelines on merchant in India	3
NBFCs in India	3
Total	**12 Hrs**

Unit: II	
Topics covered	**No. of Hours**
Hire purchase - concept - evaluation of Hire purchase proposals	3
Leasing - overview - tax aspects - lease accounting	3
Types of leases	3
Evaluation of leasing proposals	3
Total	**12 Hrs**

Unit: III	
Topics covered	**No. of Hours**
Mutual funds - operational performances	6
Regulation - SEBI guidelines for mutual funds	6
Total	**12 Hrs**

Unit: IV	
Topics covered	No. of Hours
Other financial services - venture capital - bill discounting	4
Factoring - credit rating	4
Asset secularization - depositories	4
Total	12 Hrs

Unit: V	
Topics to be covered	No. of Hours
Mergers and Acquisitions - SEBI code on takeovers	4
Business failures and reorganizations	4
Case analysis review of relevant articles	4
Total	12 Hrs

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TEACHING PLAN

For the Academic Year 2024 -25 ([redacted] / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**
Course Code: 20UBAE63 (20UBAE63)	**Staff Name: Dr. S.ASHA BANU**

Course Name: PRESENTATION SKILLS

Unit: I	
Topics covered	**No. of Hours**
Presentation – meaning – importance	4
Preparing your presentation. Guidelines for effective presentation	4
Steps in making successful presentation	4
Total	**12 Hrs**

Unit: II	
Topics covered	**No. of Hours**
Presentation skills - introduction	3
Planning a presentation	3
Factors affecting presentation skills	3
Strategies to overcome	3
Total	**12 Hrs**

Unit: III	
Topics covered	**No. of Hours**
Presentation material	3
Need and importance	3

Advantages and disadvantages of material, articles	3
Precautions in the use of presentation materials	3
Total	**12 Hrs**

Unit: IV	
Topics to be covered	**No. of Hours**
Knowing your audience	4
Role of audience in presentation	4
Presentation skills – meaning- presentation skills to meet the need of the audience	4
Total	**12 Hrs**

Unit: V	
Topics to be covered	**No. of Hours**
Power point presentation	3
Role and significance	3
Creating a presentation	3
Do and don'ts in your power point presentation	3
Total	**12 Hrs**

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TEACHING PLAN

For the Academic Year 2024 -25 ([redacted] / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	Programme: BUSINESS ADMINISTRATION

Course Code: 20UBAC61	Staff Name: L.SARAVANAPRIYA

Course Name: Advertising and Sales Management

Unit: I	
Topics covered	**No. of Hours**
Advertising - Advertising on Element of Marketing Mix	2
Objectives – Advertising and Salesmanship	2
Role and Important – Planning for Advertisement	1
Communication Process – Formal and Informal	1
Total	6
Unit: II	
Topics covered	**No. of Hours**
Advertising Copy – Kinds - Appeals	2
Advertising Mix	2
Advertising Budget and Relevant Decisions	2
Total	6

Unit: III	
Topics covered	**No. of Hours**
Advertising and their Role - Types of Advertising	2
Measuring the effectiveness of Advertisement	2
Advertising Agency – Online Advertising and Mobile Advertising	2
Total	6

Unit: IV	
Topics covered	**No. of Hours**
Kinds of Salesman – Sales Force for Services - Qualities of Successful Salesman	**2**
Training – Promotion – Remuneration to Sales Force	**2**
Motivation of Sales Force - Methods of Motivation	**2**
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Sales Promotion - Objectives – Advantages	**2**
Tool and their effectiveness – Aggressive Selling – Personal Selling.	**2**
Measuring the effectiveness of Sales	**2**
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Commerce(Banking)	**Programme: B.Com (Banking)**
Course Code:23UCBCC21	**Staff Name: Dr. N. Thahira and Dr.S.Thowfeek Khan**

Course Name: Financial Accounting.II

Unit: I	
Topics to be covered	**No. of Hours**
Meaning Hire Purchase System	**2**
Definition of Hire Purchase System	**1**
Problems in Calculation of Interest	**4**
Problems in Calculation of Installment System	**4**
Difference between Hire Purchase and Trading Account	**4**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Meaning of Branch Account	**2**
Meaning of Department Account	**4**
Types of Branch Account	**1**
Problems in Debtor System Account	**4**
Problem in Calculating Department Account	**4**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Admission of Partner	2
Retirement of Partner	1
Death of a Partner	4
Calculation of Goodwill Method	4
Calculation of Fixed and Fluctuating Capital Method	4
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Dissolution of Partnership	2
Settlement of Account	1
Problems in Treatment of Goodwill	4
Problems in Garner Vs Murray Rule	4
Problems in Piece Meal Distribution Method	4
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Meaning of Accounting Standard	2
Definition of Accounting Standard	4
Advantage and Disadvantage of Accounting Standards	4
Role of IFRS	1
Difference between AS and IFRS	4
Total	**15**

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TEACHINGPLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: B.Com Banking	**Programme: B.Com Banking**

Course Code:23UCBCC22	**Staff Name: Dr. M.Kaja Mohideen**

Course Name: BANKING LAW AND PRACTICE

Unit: I	
Topics to be covered	**No. of Hours**
History of banking	**3**
Provision of banking regulation act 1949	**3**
Indian banking system	**3**
Banking structure in India	**3**
Public sector bank ,private sector bank	**3**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Central banking and commercial banking	**3**
Function of central bank, commercial bank	**3**
Personal bank, corporate bank	**3**
Digital banking,core banking system	**3**
Role of bank in economic development	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Types of accounts	3
Account statement vs pass book	3
Special types of customers	3
Loans& advances	3
Repo rate &Reverse pepo rate	3
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
Negotiable instrument –meaning & definition	3
Crossing of cheque- concept – objectives of crossing	4
Cheque, endorsement ,kinds of endorsement	4
Paying banker, payment of cheque, duties of collecting banker	4
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Digital banking meaning &definition	3
E-banking and financial services	4
Mobile banking ,electronic money	4
Safety and security in digital banking	4
Total	15

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: B.Com, Banking	**Programme: UG**
Course Code: 23UCBGE21	**Staff Name: Dr. R. SANKARANARAYANAN**
Course Name: BUSINESS ENVIRONMENT	

Unit: I	
Topics to be covered	**No. of Hours**
The concept of business environment	2
Its nature and significance	2
Elements of environment	2
Brief overview of Political, cultural, legal,	3
Economic and Social Environments and their impact on Business and Strategic decisions	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Political Environment	4
Government and business relationship in India	4
Provision of Indian constitution pertaining to business	4
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Social and Cultural Environment, Impact of foreign culture on Business	3
Cultural Heritage, Social Group	2
Linguistic and Religious Groups, Types of social organization	3
Relationship between society and business	2
Social responsibilities of business	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Economic Environment, Significance and elements of economic environment	3
Economic systems and their impact of business, macroeconomic parameters like GDP	3
Growth rate of population, Urbanization	2
Fiscal Deficit, Plan Investment	2
Percapita income and their impact on business decisions	2
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Technological environment, concept, meaning, features of technology	3
Sources of technology dynamics, transfer of technology	3
Impact of technology on business	2
Status of technology in India	2
Determinants of technological environment	2
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-2025 (EVEN SEMESTER)

Department: B.Com Banking	Programme: B.Com Banking

Course Code: **23UCBSE21**	Staff Name: Dr. N. Thahira / Dr. S. Thowfeek Khan

Course Name: Banking Practices (NME)

Unit: I	
Topics to be covered	No. of Hours
Meaning and definition of banker and customer	2
General relationship between banker and customer	2
Special relationship between banker and customer	2
Total	6

Unit: II	
Topics to be covered	No. of Hours
Types of deposits	2
Pass book and negotiable instruments explanation	1
Definition, Features of cheque and types of crossing	3
Total	6

Unit: III	
Topics to be covered	No. of Hours
Meaning of Bills of Exchange	1

Difference between Cheque and Bills of Exchange	1
Types of Endorsement and Marking	4
Total	6

Unit: IV	
Topics to be covered	No. of Hours
Collecting Banker explanation	1
Collection of Cheque	2
Protection to collecting banker	3
Total	6

Unit: V	
Topics to be covered	No. of Hours
Explanation of Loans and Advances	1
Loans and advances against primary securities	1
Loans and advances against collateral securities	2
Recent development in Banking	2
Total	6

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: B.Com Banking	Programme: B.Com Banking
Course Code: **23UCBSE22**	Staff Name: Dr.S.Thowfeek Khan
Course Name: MS OFFICE	

Unit: I	
Topics to be covered	No. of Hours
Introduction about Computer	2
Components of MS Word	2
Features of MS Word	2
Total	6

Unit: II	
Topics to be covered	No. of Hours
How to Add and Delete Row and Column in MS Word	2
How to Open, Close and Save the Document in MS Word	1
How to Cut, Copy and Paste in MS Word	3
Total Total	6

Unit: III	
Topics to be covered	No. of Hours
Spell Check (or) Grammer Check in MS Word	1
Bullets and Numbering in MS Word	1
Mail Merge and How to Create Templates in MS Word	4
Total	6

Unit: IV	
Topics to be covered	No. of Hours
Introduction about MS Excel	1
Components of MS Excel	2
Types of Charts	3
Total	6

Unit: V	
Topics to be covered	No. of Hours
Introduction About PowerPoint	1
Components of MS PowerPoint	1
How to Insert Picture and Images in MS PowerPoint	2
How to Add and Delete the Images in MS Power Point	2
Total	6

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TEACHING PLAN

For the Academic Year 2021-22 (ODD / EVEN SEMESTER)

Department: Commerce (Banking)	Programme: B.Com (Banking)
Course Code: 23UCBCC41	Staff Name: Dr. M. Kaja Mohideen

Course Name: CORPORATE ACCOUNTIG-II

Unit: I	
Topics to be covered	No. of Hours
Amalgamation – meaning, purchase consideration	3
Lump sum method, net assets method, net payment method	3
Types of method of accounting for amalgamation	3
Internal and external method	3
Increase and decrease of capital	3
Total	15

Unit: II	
Topics to be covered	No. of Hours
Accounting of banking companies meaning	3
Final statement of banking companies (as per new provision)	3
Rebate on bills discounted	3
Profit and loss a/c	3
Balance sheet asper banking regulation	3
Total	15

Unit: III

Topics to be covered	No. of Hours
Insurance company accounts meaning of insurance	3
Principles of insurance company, types	3
Preparation of Final accounts of insurance companies	3
Accounts of life insurance business	3
General insurance companies	3
Total	15

Unit: IV	
Topics to be covered	No. of Hours
Consolidated final statements	3
Introduction of holding companies and subsidiary companies	4
Legal requirement relating to preparation of accounts	4
Excluding intercompany holdings	4
Total	15

Unit: V	
Topics to be covered	No. of Hours
Liquidation of companies meaning	3
Modes of winding up of company	3
Preparation of statement of affairs and statement of deficiency or surplus, order of payment	3
Liquidators remuneration	3
Liquidators final statement of accounts	3
Total	15

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: B.Com, Banking	**Programme: UG**
Course Code: 23UCBCC42	**Staff Name: Dr.R.SANKARANARAYANAN**
Course Name: Company Law	

Unit: I	
Topics to be covered	**No. of Hours**
Companies Act 2013, Definition of a company, Characteristics of company	**4**
Lifting the corporate veil, Company distinguished from partnership and limited liabilities partnerships	**4**
Classification of companies, based on incorporation, liability,	**4**
Number of members, control	**3**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Formation of a Company, Promoter, Incorporation Documents e-filing,	**4**
Memorandum of Association, content, alteration, legal effects	**4**
Articles of Association, Certificate of Incorporation, Prospectus, contents, Kinds,	**4**
Liabilities, Share capital, Kinds, Issue, Alteration, Dividend, Debentures	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Meeting, meeting and resolution, Types, Requisites	4
Voting & Poll, Quorum, Proxy Resolution,	4
Ordinary & Special, Audit & Auditors, Qualification, Disqualification	4
Appointment and Removal of an Auditor	3
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
Management & Administration, Directors, legal Position, Board of Directors,	3
Appointment and removal, Disqualification, Director Identification Number, Directorship	3
Powers, Duties, board committees, Related Party Transactions, contract by one person company.	3
Insider trading, managing director, manager, secretarial audit, administrative aspects and winding up	3
National Company Law Tribunal, National Company Law Appellate Tribunal, Special Courts	3
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Winding up meaning, Modes, Compulsory winding up	4
Voluntary winding up, consequences of winding up order	4
Power of Tribunal, Petition for winding up	4
Company Liquidator	3
Total	15

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Commerce(Banking) Programme: UG

Course Code:23UCBGE42 Staff Name: Dr. H. Anis Fathima / Dr. N. Thahira

Course Name: Rural Banking

Unit: I	
Topics to be covered	No. of Hours
Concept of rural banking, Need for rural banking	3
Priority sector lending	3
Terms and conditions	3
Total	9

Unit: II	
Topics to be covered	No. of Hours
PMEGP	2
Start UP India	2
Stand UP India	2
PM Mudra Yojana and Digital India Mission	3
Total	9

Unit: III	
Topics to be covered	No. of Hours
Institutional Sources of finance in rural areas: Co-operative Banks	3
Commercial Banks, Regional rural banks	2
Structure, Policy, Functions, Clientele, Progress	4
Total	9

Unit: IV	
Topics to be covered	No. of Hours
Credit Planning at the gross root level	3
Lead Bank Scheme	3
District credit plans and service area approach their bank features	3
Total	9

Unit: V	
Topics to be covered	No. of Hours
Institutions supporting rural development: RBI	2
NABARD, DIC	2
KVIC, Voluntary Organization	2
Role of Voluntary organization	3
Total	9

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Commerce(Banking) **Programme: UG**

Course Code:23UCBSE41 **Staff Name: Dr. H. Anis Fathima**

Course Name: Goods and Services Tax

Unit: I	
Topics to be covered	**No. of Hours**
GST, Concept, Meaning, Definition and objectives of GST	2
Advantages, GST and Centre	2
State Financial Relation	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Main Features of GST Law – Impact of GST	2
Subsuming of taxes	2
Types of GST, CGST, SGST, IGST and UNGST	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
GST Council, Constitution	1
Structure and Action Plan	2
Quorum and decision making of meeting and its functions	3
Total	6

Unit: IV	
Topics to be covered	No. of Hours
Registration, Registration under GST	2
Procedure, Persons liable for registration	2
Persons not liable for registration	1
Compulsory registration	1
Total	6

Unit: V	
Topics to be covered	No. of Hours
Computation of taxable value and tax liability	1
Comparative calculations with previous tax laws	1
Tax calculation for interstate sales, Value of supply	2
Value of taxable supply and Input tax credit	2
Total	*6*

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: B.Com Banking	**Programme: B.Com Banking**
Course Code: 23UCBSE42	**Staff Name:Dr.S.Thowfeek Khan**

Course Name: Export - Import Procedure and Documentation

Unit: I	
Topics to be covered	**No. of Hours**
Meaning of Export	**1**
Meaning of Import	**1**
Highlights of Exim Policy 2002-2007	**2**
Objectives of Exim Policy	**1**
Features of Exim Policy	**1**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Meaning of Export Procedure	**1**
Meaning of Shipping Order	**1**
Advantage and Disadvantage of Shipping Order	**1**
Features of Export Procedure	**1**
Meaning of Customs Formalities	**2**
Total	**6**

Unit: III

Unit: III	
Topics to be covered	**No. of Hours**
Meaning of Export Documentation	1
Features of Export Documentation	1
Meaning of Letter of Credit	1
Types of Letter of Credit	2
Meaning of Bill of Lading	1
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Meaning of Import Procedure	1
Types of Import procedure	1
Meaning of Indent House	1
Types of Indent house	1
Import Documentation	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Terms used in Mentioning Prices	2
Meaning of Insurance Document	1
Customs Formalities	1
Port and Customs Clearance	1
Insurance Documents	1
Total	6

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: B.COM (BANKING)	Programme: BANKING

Course Code: 23UGEVS41	Staff Name: Dr.S.THOWFEEK KHAN

Course Name: EVS

Unit: I	
Topics covered	No. of Hours
Earth and its Environment: a) Earth- formation and Evolution of Earth over time - structure of Earth and its components – Atmosphere, Lithosphere, Hydrosphere and Biosphere.	3
b) Resources – renewable and nonrenewable resources	3
Total	6

Unit: II	
Topics covered	No. of Hours
Ecology and ecosystem concepts: a) Ecology – definition - Ecosystem: Definition –	2
structure and function – energy flow – food chain and Food web – one example for an ecosystem	2
b) Biogeochemical cycles – Nitrogen, carbon, Phosphorous and Water	2
Total	6

Unit: III	
Topics to be covered	No. of Hours
Biodiversity of India: a) Introduction – definition – Values of Biodiversity -Threat to Biodiversity – Conservation of Biodiversity	3
b) Biodiversity of India – as a mega diversity nation – bio-geographical distribution – Hot spots of biodiversity – National Biodiversity Conservation Board and its function	3
Total	6

Unit: IV	
Topics to be covered	No. of Hours
Pollution and Global issues: a) Definition, causes, effects and control measures of Air, Water, Soil, Marine, Noise, Thermal and Nuclear pollution	3
b) Global issues: Global Warming and Ozone Layer Depletion	3
Total	6

Unit: V	
Topics to be covered	No. of Hours
Development and Disaster Management: a) Sustainable Development – Sustainable Agriculture – Organic farming, Irrigation – Water harvesting and Waste recycling – Cyber waste and management	3
b) Disaster Management – Flood and Drought – Earthquake and Tsunami – Landslides and Avalanches – Cyclones and Hurricanes –Precautions, Warnings, Rescue and Rehabilitation	3
Total	6

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Commerce(Banking) **Programme: UG**

Course Code:20UCBC61 **Staff Name: Dr. H. Anis Fathima**

Course Name: Income Tax Law and Practice II

Unit: I	
Topics to be covered	**No. of Hours**
Clubbing of Income	6
Set-off and carry forward of losses	6
Deductions from gross total income u/s 80C to 80U	6
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Assessment of Individual	6
Assessment of Hindu Undivided Family	5
Computation of Taxable Income	4
Computation of Taxable Liability	3
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Assessment of Partnership Firm	6
Association of Persons	2
Assessment of Joint Stock Companies	6

Computation of Taxable Income	2
Computation of Tax Liability	2
Total	18

Unit: IV	
Topics to be covered	No. of Hours
Return of Income and Submission	4
Return of Loss, Belated return & Procedure for assessment	4
Self assessment, Reassessment, Best Judgment assessment	4
Ex-Party Assessment, Rectification of mistakes	4
Reopening of assessment	2
Total	18

Unit: V	
Topics to be covered	No. of Hours
Collection of Tax, Introduction, Deduction of Tax at Source from Income under Five Heads	4
Advance of Payment of Tax, Advance Payment, Tax Refunds	3
Income Payable under 'Net of Tax'	2
Consequences of failure to deduct or pay tax, Tax Credit Certificate	3
Tax Clearance Certificate, Penalties, Procedure, Time Limit, Offences and Prosecution	6
Total	18

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: B.Com Banking	Programme: B.Com Banking
Course Code: **20UCBC62**	Staff Name: Dr.S.Thowfeek Khan
Course Name: RETAIL MARKETING	

Unit: I	
Topics to be covered	No. of Hours
Meaning of Retailing	3
Types of Retailing	4
Functions of Retailing	5
Total	12

Unit: II	
Topics to be covered	No. of Hours
Retail Marketing Mix and Product	6
Merchandise Management	4
Services and Quality in Retailing	2
Total	12

Unit: III	
Topics to be covered	No. of Hours
Difference between Wholesale Vs Retailer	7
Retail Pricing and Promotions	3
Retail Logistics	2
Total	12

Unit: IV	
Topics to be covered	No. of Hours
Methods and Approaches of Retail Marketing Planning	6
Retail Locations Strategies	3
Advantage and Disadvantage of Retail Marketing	3
Total	12

Unit: V	
Topics to be covered	No. of Hours
Meaning of Consumerism	4
Ethics in Retailing	4
International Retailing	3
Features of Retailing	1
Total	12

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: B.Com Banking	Programme: B.Com Banking

Course Code: **20UCBC63**	Staff Name: Dr. M. KAJA MOHIDEEN

Course Name: **FINANCIAL MANAGEMENT**

Unit: I	
Topics to be covered	No. of Hours
Financial management - functions	**2**
Scope and objectives	**2**
Key activities of financial management	**2**
Organization of finance section	**3**
Role and functions of financial manager	**3**
total	**12**

unit: II	
topics to be covered	**no. of hours**
Capital budgeting – principles and techniques	**2**
Ranking of investments – traditional method – pay back method	**3**
Average rate of return method	**2**
Discounted cash flow method – techniques	**2**
Net present value (NPV) method – internal rate of return (IRR) method	**3**
total	**12**

unit: III	
topics to be covered	no. of hours
Capital structure – theories – planning	2
NI approach – NOI approach – MM approach	3
Traditional approach – analysis of leverages – types of leverages	2
Financial leverage and operating leverage – cost of capital - definition – importance	3
Assumptions –cost of debt – cost of preference shares – cost of equity – cost of retained earnings – computation of overall cost of capital	2
total	12

unit: IV	
topics to be covered	no. of hours
Working capital, cash and receivables management	3
Working capital management – meaning, concept	2
Classification of working capital	3
Factors determining working capital requirements	2
Computation of working capital under operating cycle method	2
total	12

unit: V	
topics to be covered	no. of hours
Dividend and dividend policy – meaning	2
Classification and sources of dividend	2
Factors influencing dividend policies	2
Theories of dividend decision	4
Irrelevance and relevance theories	2
total	12

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Commerce(Banking) **Programme: UG**

Course Code:20UCBC64 **Staff Name: Dr. N. Thahira**

Course Name: Auditing

Unit: I	
Topics to be covered	**No. of Hours**
Audit, Advantages	3
Types of Audit	3
Auditing Vs Investigation, Auditing Vs Accountancy	3
Qualification, Appointment	3
Rights and duties and removal of company auditor.	3
Total	15

Unit: II	
Topics to be covered	**No. of Hours**
Audit Report, Audit Programme	3
Audit Notes	3
Audit Files	3
Working Papers	3
Procedure for Audit	3
Total	15

Unit: III	
Internal Control – Internal Check	3

Auditor's Duty as regards Internal Check	3
Vouching –Meaning – Definition	3
Importance	3
Vouching of Cash Transactions and Trading Transactions.	3
Total	15

Unit: IV	
Topics to be covered	No. of Hours
Verification	5
Valuation of Assets and Liabilities	5
Auditor's Duty	5
Total	15

Unit: V	
Topics to be covered	No. of Hours
Liabilities of Auditor – Liabilities for Negligence	3
Liabilities of Auditor – Liabilities for Negligence	3
Liability to Third Party	3
Legal Positions	3
Auditor's duty as to Dividend	3
Total	15

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Commerce (Banking) **Programme: UG**

Course Code: 20UCBE62 **Staff Name: Dr. H. Anis Fathima**

Course Name: Group Discussion

Unit: I	
Topics to be covered	No. of Hours
Self-Assessment	1
Preparing Bio-Data	2
Curriculum Vitae	2
Resumes	2
Functional and Chronological	2
Total	9

Unit: II	
Topics to be covered	*No. of Hours*
Meaning of Group Discussion	3
Uses of Group Discussion	3
Objectives of Group Discussion	3
Total	9

Unit: III	
Topics to be covered	No. of Hours
Preparing for Discussion	5
Leading the Discussion	4
Total	9

Unit: IV	
Topics to be covered	No. of Hours
Answering question	3
Accepting other views	3
Summarizing	3
Total	9

Unit: V	
Topics to be covered	No. of Hours
Post Discussion Behavior	3
Evaluation of Merits	3
Pitfalls in Discussion	3
Total	9

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: B.Com Banking	Programme: B.Com Banking
Course Code: **20USBS61**	Staff Name: Dr.S.Thowfeek Khan
Course Name: ENTREPRENEURIAL DEVELOPMENT	

Unit: I	
Topics to be covered	No. of Hours
Meaning of Entrepreneur	2
Role of Entrepreneur in Economic Development	2
Types and Functions of an Entrepreneur	2
Total	6

Unit: II	
Topics to be covered	No. of Hours
Factors Affecting Entrepreneurial Growth	2
Theories of Achievement	1
Types of theory of Achievement	3
Total	6

Unit: III	
Topics to be covered	No. of Hours
Meaning of DIC	1
Meaning of SEZ	1
Institutional Support to Entrepreneur	4
Total	6

Unit: IV	
Topics to be covered	No. of Hours
Meaning of Starting a New Venture	1
Search for Business Idea	2
Sources of Business Idea	3
Total	6

Unit: V	
Topics to be covered	No. of Hours
Meaning of Project Report	1
Types of Project Report	1
Content of Project Report	2
Preparation of Project Report	2
Total	6

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TEACHING PLAN

For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 23UCACC21	**Staff Name: Mr. M. GULAM RIYAZ**
Course Name: Financial Accounting II	

Unit: I	
Topics to be covered	**No. of Hours**
Hire Purchase System – Accounting Treatment – Calculation of Interest	**8**
Default and Repossession - Hire Purchase Trading Account - Instalment System - Calculation of Profit	**7**
Total	**15**
Unit: II	
Topics to be covered	**No. of Hours**
Branch – Dependent Branches: Accounting Aspects - Debtors system -Stock and Debtors system – Distinction between Wholesale Profit and Retail Profit	**10**
Independent Branches (Foreign Branches excluded) - Departmental Accounts: Basis of Allocation of Expenses – Inter- Departmental Transfer at Cost or Selling Price.	**10**
Total	**20**
Unit: III	
Topics to be covered	**No. of Hours**
Partnership Accounts: –Admission of a Partner – Treatment of Goodwill -	**10**
Calculation of Hidden Goodwill –Retirement of a Partner – Death of a Partner.	**10**
Total	**20**
Unit: IV	
Topics to be covered	**No. of Hours**
Dissolution of Partnership - Methods – Settlement of Accounts Regarding Losses and Assets – Realization account – Treatment of Goodwill – Preparation of Balance Sheet - One or more	**10**
Partners insolvent – All Partners insolvent – Application of Garner Vs Murray Theory – Accounting Treatment - Piecemeal Distribution – Surplus Capital Method – Maximum Loss Method.	**10**
Total	**20**
Unit: V	
Topics to be covered	**No. of Hours**
Accounting Standards for financial reporting (Theory only) Objectives and Uses of Financial Statements for Users-Role of Accounting Standards - Development of Accounting Standards in India	**7**
Role of IFRS- IFRS Adoption vs Convergence Implementation Plan in India- Ind AS- An Introduction - Difference between IND AS and IFRS.	**8**
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 23UCACC22	**Staff Name: Dr. K. MOHAMMED ABDUL KADER**
Course Name: BUSINESS LAW	

Unit: I	
Topics to be covered	**No. of Hours**
Elements of Contract Indian Contract Act 1872: Definition of Contract, Essentials of Valid Contract, Classification of Contract, Offer and Acceptance – Consideration –	5
Capacity to Contract – Free Consent - Legality of Object – Contingent Contracts – Void Contract	5
Total	10
Unit: II	
Topics to be covered	**No. of Hours**
Performance of Contract Meaning of Performance, Offer to Perform, Devolution of Joint liabilities & Rights, Time and Place of Performance	5
Reciprocal Promises, Assignment of Contracts - Remedies for Breach of contract - Termination and Discharge of Contract - Quasi Contract	5
Total	10
Unit: III	
Topics to be covered	**No. of Hours**
Contract of Indemnity and Guarantee Contract of Indemnity and Contract of Guarantee	5
Extent of Surety's Liability, Kinds of Guarantee, Rights of Surety, Discharge of Surety	5
Total	10
Unit: IV	
Topics to be covered	**No. of Hours**
Bailment and Pledge Bailment and Pledge – Bailment – Concept – Essentials - Classification of Bailments, Duties and Rights of Bailor and Bailee	8
Law of Pledge – Meaning – Essentials of Valid Pledge, Pledge and Lien, Rights of Pawner and Pawnee.	7
Total	15
Unit: V	
Topics to be covered	**No. of Hours**
Sale of Goods Act 1930: Definition of Contract of Sale – Formation - Essentials of Contract of Sale - Conditions and Warranties - Transfer of Property	8
Contracts involving Sea Routes - Sale by Non-owners - Rights and duties of buyer - Rights of an Unpaid Seller	7
Total	15

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For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 23UCAGE2P	**Staff Name: Mr. M. ABBAS MANTHIRI**
Course Name: PYTHON PROGRAMMING - LAB	

Unit: I	
Topics to be covered	**No. of Hours**
Program to convert the given temperature from Fahrenheit to Celsius and vice versa depending upon user's choice.	6
Write a Python program using a nested loop	6
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Program to calculate total marks, percentage and grade of a student. Marks obtained in each of the five subjects are to be input by user. Assign grades according to the following criteria: Grade A: Percentage >=80 Grade B: Percentage >=70 and 80 Grade C: Percentage >=60 and <70 Grade D: Percentage >=40 and <60 Grade E: Percentage < 40	6
Program, to find the area of rectangle, square, circle and triangle by accepting suitable input parameters from user.	6
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Write a Python script that prints prime numbers less than 20.	6
Program to find factorial of the given number using recursive function.	6
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Write a Python program to count the number of even and odd numbers from array of N numbers.	6
Write a Python class to reverse a string word by word.	6
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Read a file content and copy only the contents at odd lines into a new file.	6
Create a python Dictionaries program using any two of its method.	6
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 23UCASE21	**Staff Name: Mr. A. JAVITH RAJA**
Course Name: ADVERTISING AND SALESMANSHIP- NME	

Unit: I	
Topics to be covered	**No. of Hours**
Meaning of advertising – Characteristic Features of Advertising – Nature and Scope of Advertising – Benefits or Advantages of Advertising	3
Criticisms of Advertising – Is Advertising Economic Waste – Difference between Advertising and Salesmanship.	3
Total	6
Unit: II	
Topics to be covered	**No. of Hours**
Advertising Media – Indoor and Outdoor Advertising	3
Advertising agency – Role – Importance.	3
Total	6
Unit: III	
Topics to be covered	**No. of Hours**
Personal Selling – Definition – Salesmanship	3
Definition Features – Objectives – Benefits – Criticisms against Salesmanship.	3
Total	6
Unit: IV	
Topics to be covered	**No. of Hours**
Qualities of a successful salesman; Physical, Mental, Social and,	3
Moral Qualities – Other Requisites of a Salesman.	3
Total	6
Unit: V	
Topics to be covered	**No. of Hours**
Recruitment of Salesman – Sources	3
Remuneration of Salesman; Methods.	3
Total	6

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For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 23UCASE2P	**Staff Name: Mr. T.H. ZAHEER AHAMED**
Course Name: COMMERCE PRACTICAL	

Unit: I	
Topics to be covered	**No. of Hours**
Preparation of Invoice Preparation of invoice, receipts, vouchers, delivery challan, entry pass, gate pass-debit and credit notes.	6
Preparation of Application for shares and allotment - letter of shares Allotment - transfer forms.	6
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Preparation of Cheque Drawing, endorsing and crossing of cheques- filling up of pay in slips demand draft application and preparation of demand drafts .	6
Making entries in the passbook and filling up of account opening forms for SB account, current account and FDR's.. Drawing and endorsing of bills of exchange and promissory notes.	6
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Co operative Society Filling up of application forms for admission in cooperative societies. .Filling up of loan application forms and deposit challan. .	6
Filling up of Jewel loan application form, Procedure for releasing of jewelry in jewel loans and repayment	6
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Preparation of Agenda and Minutes of Meeting Preparation of agenda and minutes of meetings-both general body and board of directors.	6
(students are asked to write agenda and minutes of their own and should not use printed format) .Using Bin card and inventories. .Using Cost Sheets.	6
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Application to LIC Policy Filling up of an application form for L1C policy, filling up of the premium form- filling up the challan for remittance of premium. .Preparation of an advertisement copy, collection of advertisement in dailies and journals,	6
critically evaluating the advertisement copy. .Filling up income -tax returns and application for permanent account number.	6
Total	12

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For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme : B.Com (CA)**
Course Code: 23UCACC41	**Staff Name: Mr. A. JAVITH RAJA**
Course Name: CORPORATE ACCOUNTING - II	

Unit: I

Topics to be covered	No. of Hours
Amalgamation – Meaning - Purchase Consideration - Lump sum Method, Net Assets Method, Net Payment Method, Intrinsic Value Method - Types of Methods of Accounting for Amalgamation -The Pooling of Interest Method	7
The Purchase Method(Excluding Inter-Company Holdings). Internal & External Reconstruction: Internal Reconstruction – Conversion of Stock – Increase and Decrease of Capital – Reserve Liability - Accounting Treatment of External Reconstruction	8
Total	15

Unit: II

Topics to be covered	No. of Hours
Final Statements of Banking Companies (As Per New Provisions) - Non-Performing Assets	8
Rebate on Bills Discounted- Profit and Loss a/c - Balance Sheet as Per Banking Regulation Act 1949.	7
Total	15

Unit: III

Topics to be covered	No. of Hours
Meaning of Insurance – Principles – Types – Preparation of Final Accounts of Insurance Companies	8
Accounts of Life Insurance Business – Accounts of General Insurance Companies - New Format.	7
Total	15

Unit: IV

Topics to be covered	No. of Hours
Introduction-Holding & Subsidiary Company-Legal Requirements Relating to Preparationof Accounts	8
Preparation of Consolidated Balance Sheet (Excluding Inter-Company Holdings).	7
Total	15

Unit: V

Topics to be covered	No. of Hours
Meaning-Modes of Winding Up – Preparation of Statement of Affairs and Statement of Deficiency or Surplus (List H) Order of Payment	8
Liquidators Remuneration- Liquidator's Final Statement of Accounts.	7
Total	15

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For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme : B.Com (CA)**
Course Code: 23UCACC42	**Staff Name: Dr. K. MOHAMMED ABDUL KADER**
Course Name: COMPANY LAW	

Unit: I

Topics to be covered	No. of Hours
Companies Act 2013 – Definition of a Company, Characteristics of Company – Lifting or Piercing the Corporate Veil	7
Company Distinguished from Partnership and Limited Liabilities Partnerships – Classification of Companies – Based on Incorporation, Liability, Number of Members, Control.	8
Total	15

Unit: II

Topics to be covered	No. of Hours
Formation of a Company – Promoter –Incorporation Documents e-filing – Memorandum of Association – Contents – Alteration – Legal Effects – Articles of Association	8
Certificate of Incorporation – Prospectus – Contents - Kinds – Liabilities – Share Capital – Kinds – Issue – Alteration – Dividend – Debentures.	7
Total	15

Unit: III

Topics to be covered	No. of Hours
Meeting and Resolution – Types – Requisites – Voting & Poll – Quorum – Proxy - Resolution – Ordinary & Special	8
Audit & Auditors – Qualification, Disqualification, Appointment and Removal of an Auditor	7
Total	15

Unit: IV

Topics to be covered	No. of Hours
Management & Administration – Directors – Legal Position – Board of Directors – Appointment/ Removal – Disqualification – Director Identification Number – Directorships – Powers – Duties – Board Committees – Related Party Transactions	8
Contract by One Person Company – Insider Trading- Managing Director – Manager – Secretarial Audit – Administrative Aspects and Winding Up – National Company Law Tribunal (NCLT) – National Company Law Appellate Tribunal (NCLAT) – Special Courts.	7
Total	15

Unit: V

Topics to be covered	No. of Hours
Meaning – Modes – Compulsory Winding Up – Voluntary Winding Up – Consequences of Winding Up Order	8
Powers of Tribunal – Petition for Winding Up – Company Liquidator.	7
Total	15

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TEACHING PLAN

For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme : B.Com (CA)**
Course Code: 23UCAGE4P	**Staff Name: Mr. M. ABBAS MANTHIRI**
Course Name: RELATIONAL DATABASE MANAGEMENT SYSTEM LAB	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to DBMS– Data and Information - Database – Database Management System – Objectives	7
Advantages – Components - Architecture. ER Model: Building blocks of ER Diagram	8
Total	15

Unit: II	
Topics to be covered	**No. of Hours**
Relationship Degree – Classification – ER diagram to Tables – ISA relationship – Constraints –Aggregation and Composition – Advantages	8
Structure of Relational Database. Introduction to Relational Database Design - Objectives – Tools –Redundancy and Data Anomaly	7
Total	15

Unit: III	
Topics to be covered	**No. of Hours**
Functional Dependency - Normalization – 1NF	8
2NF – 3NF –BCNF. Transaction Processing – Database Security.	7
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
Introduction to SQL: Data Definition Commands – Data Manipulation Commands – SELECT Queries – Additional Data Definition Commands – Additional SELECT Query Keywords	8
Joining Database Tables.Advanced SQL:Relational SET Operators: UNION – UNION ALL – INTERSECT - MINUS.	7
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
SQL Join Operators: Cross Join – Natural Join – Join USING Clause – JOIN ON Clause – Outer Join.Sub Queries and Correlated Queries: WHERE – IN – HAVING – ANY and ALL – FROM.	8
SQL Functions: Date and Time Function – Numeric Function – String Function – Conversion Function	7
Total	15

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For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme : B.Com (CA)**
Course Code: 23UCASE41	**Staff Name: Mr. T.H. ZAHEER AHAMED**
Course Name: PERSONALITY ENRICHMENT - II	

Unit: I	
Topics to be covered	**No. of Hours**
Anger: The nature of anger guidelines for managing anger constructively dealing with an angry person.	6
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Maintaining Trust: Developing and maintaining trust - being trusting and trustworthy - building interpersonal trust - trust and friendship.	6
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Resolving Interpersonal Conflicts: Understanding conflicts of Interests-conflict strategies - steps for effective problem solving negotiating.	6
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Emotional Intelligence: Applying Emotional Intelligence Emotional Intelligence and emotional competence components of emotional intelligence.	6
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Enhancing self-esteem: Characteristics of fully functioning individual's manifestations of low and high self-esteem techniques for enhancing self-esteem – nurturance techniques.	6
Total	6

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For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme : B.Com (CA)**
Course Code: 23UCASE42	**Staff Name: Mr. R. ABIRAMAKRISHNAN**
Course Name: INTRODUCTION TO HTML	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction: Web Basics: What is Internet – Web browsers – What is Web page – HTML Basics :Understanding tags.	6
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Tags for Document structure (HTML, Head, Body Tag). Block level text elements: Headings paragraph(<p> tag) – Font style elements: (bold,italic, font, small, strong, strike, big tags)	6
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Lists: Types of lists: Ordered, Unordered – Nesting Lists – Other tags: Marquee, HR, BR- Using Images – Creating Hyperlinks.	6
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Tables: Creating basic Table, Table elements, Caption – Table and cell alignment – Row span, Colspan –Cell padding.	6
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Frames: Frameset -Link – Forms : Input, Text area, Select, Option,Submit ,Reset button.	6
Total	6

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For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE CA	**Programme: M.Com (CA)**
Course Code: 23UGEVS41	**Staff Name: Mr. M. GULAM RIYAZ**
Course Name: ENVIRONMENTAL STUDIES	

Unit-I	
Topics to be covered	No. of Hours
Earth and its Environment: a) Earth- formation and Evolution of Earth over time - structure of Earth and its componeble atmosphere, Lithosphere, Hydrosphere and Biosphere.	3
b) Resources - renewable nonrenewable resources	3
Total	6

Unit-II	
Topics to be covered	No. of Hours
Ecology and ecosystem concepts: a) Ecology - definition - Ecosystem: Definition - structure and function-energy flow-food chain and Food web - one example for an ecosystem	3
b) Biogeochemical cycles - Nitrogen, carbon, Phosphorous and Water	3
Total	6

Unit–III	
Topics to be covered	No. of Hours
Biodiversity of India: a) Introduction - definition - Values of Biodiversity -Threat to Biodiversity -Conservation of Biodiversity	3
b) Biodiversity of India - as a mega diversity nation - bio-geographical distribution - Hot spots of biodiversity - National Biodiversity Conservation Board and its function	3
Total	6

Unit-IV	
Topics to be covered	No. of Hours
Pollution and Global issues: a) Definition, causes, effects and control measures of Air, Water, Soil, Marine, Noise, Thermal and Nuclear pollution	3
b) Global issues: Global Warming and Ozone Layer Depletion	3
Total	6

Unit-V	
Topics to be covered	No. of Hours
Development and Disaster Management: a) Sustainable Development - Sustainable Agriculture	3
Organic farming, Irrigation Water harvesting and Waste recycling Cyber waste and	3
Total	6

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For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 20UCAC61	**Staff Name: Mr. P. SEENIVASAN**
Course Name: INCOME TAX LAW AND PRACTICE - II	

Unit: I	
Topics to be covered	**No. of Hours**
Clubbing of Income – Set-off and carry forward of losses	5
Deductions from gross total income u/s 80C to 80 U.	5
Total	**10**
Unit: II	
Topics to be covered	**No. of Hours**
Assessment of individual and Hindu Undivided Family.	8
Computation of Taxable Income and Tax Liability.	7
Total	**15**
Unit: III	
Topics to be covered	**No. of Hours**
Assessment of Partnership Firm, Association of Persons and Joint Stock Companies.	8
Computation of Taxable Income and Tax Liability.	7
Total	**15**
Unit: IV	
Topics to be covered	**No. of Hours**
Return of Income – Submission of return of income – Return of Loss – Belated Return – Revised return.	8
Procedure for assessment – Self assessment – Reassessment – Best judgement assessment – Ex- Party assessment	7
Rectification ofmistakes – Reopening of assessment	5
Total	**15**
Unit: V	
Topics to be covered	**No. of Hours**
Collection of Tax – Introduction - Deduction of Tax at Source from Income under Five Heads – Advance of Payment of Tax – Advance payment – Tax refunds	10
Income Payable under "Net of Tax" – Consequences of failure to deduct or pay tax – Tax credit certificate – Tax clearance certificate – Penalties – Procedure, TimeLimit, Offences and Prosecution.	10
Total	**20**

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For the Academic Year 2024-25 (ODD / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 20UCAC62	**Staff Name:** **Mr. R. ABIRAMAKRISHNAN** **Mr. M. ABBAS MANTHIRI**
Course Name: COMPUTER NETWORK	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction – Uses - Network Hardware – LAN – MAN – WAN - Wireless Networks- Merits-Limitations	5
Network to Topologies - Tree, Peer – to - peer, bus, ring etc.- Comparisons.	5
	10

Unit: II	
Topics to be covered	**No. of Hours**
Inter Networks - Network Software - Protocol Hierarchies - Design Issues For The Layers -Interface & Service	7
Service Primitives - Reference Models – OSI - TCP/IP.	8
Total	15

Unit: III	
Topics to be covered	**No. of Hours**
Physical layer - Design Issues - ATM Networks- ATM- Switches – Data link layer Design Issues	5
Error & Error detection & correction – Flow control.	5
Total	10

Unit: IV	
Topics to be covered	**No. of Hours**
Network layer – Packet switching – Circuit Switching – Routing Shortest Path Routing – Flooding	7
Flow based routing – Firewalls.	8
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Application layer – Methods and protocols –SMTP, POP- Network security.	5
Cryptography – Secret and Public Key Algorithms – DNS – Electronic mail.	5
Total	10

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Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code:: 20UCAC63	**Staff Name: Dr. K. DEEPALAKSHMI, Mr. M. GULAM RIYAZ**
Course Name: CORPORATE ACCOUNTING - II	

Unit: I	
Topics to be covered	**No. of Hours**
Accounting of Holding Companies: Definition – Holding Company – Subsidiary Company- Calculation – of Pre-Acquisition And Post –Acquisition Profits- Cost of Control or Capital Reserve	8
Minority Interest – Revaluation of Assets – Treatment of Unrealized Inter-Company Profits – Preparation of Consolidated Balance Sheet – Simple Problems Only.	7
Total	15
Unit: II	
Topics to be covered	**No. of Hours**
Accounts of Banking Companies: Meaning – Classification of Bank Advances – Provisions Required.	8
Preparations of Various Schedules For Preparing of Profit And Loss Account And Balance Sheet (Forms A To Third Schedule) As Per The Revised Guidelines of Reserve Bank of India.	7
Total	15
Unit: III	
Topics to be covered	**No. of Hours**
Accounts of Insurance Companies: Meaning – Types of Insurance – Life- General – Accounts of Life And General Insurance Business – Preparation of Various Schedules For Preparing of Revenue Account.	8
Profit And Loss Account And Balance Sheet of Life Insurance And General Insurance Business – Ascertainment of Profit Under Life Insurance Business.	7
Total	15
Unit: IV	
Topics to be covered	**No. of Hours**
Double Accounts System Including Accounts of Electricity Companies: Meaning – Special Features- Difference Between Single Account System And Double Account System.	8
Preparation of Revenue Account, Net Revenue Account, Capital Account And General Balance Sheet – Replacement of An Asset.	7
Total	15
Unit: V	
Topics to be covered	**No. of Hours**
Human Resource Accounting – Meaning - Need – Objective.	8
Benefits and Limitations of Human Resource Accounting – Historical Development of Human Resource Accounting.	7
Total	15

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For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 20UCAA61	**Staff Name: Mr. A. JAVITH RAJA**
Course Name: BUSINESS LAW – II	

Unit: I	
Topics to be covered	**No. of Hours**
Essential Commodities Act, 1955: Definitions – Objectives.	8
Power to Control Production, Supply and Distribution- Penalties for Violation.	7
Total	**15**
Unit: II	
Topics to be covered	**No. of Hours**
The Sale of Goods Act, 1930 : Contract of Sale – Conditions and Warranties – Transfer of Property and Title to Goods.	7
Rights and Duties of Seller and Buyer - Rights of Unpaid Seller.	8
Total	**15**
Unit: III	
Topics to be covered	**No. of Hours**
The Carriage of Goods Act : Carriage of Goods by Land.	7
Carriage of Goods by Sea – Carriage of Goods by Air.	8
Total	**15**
Unit: IV	
Topics to be covered	**No. of Hours**
The Consumer Protection Act, 1986 : Definitions – Aims – Objectives – Consumer Protection Councils – Consumer Disputes .	7
Redressal – Reasons for Slow Growth of Consumer Movement in India – Suggestions for Strengthening.	8
Total	**15**
Unit: V	
Topics to be covered	**No. of Hours**
Negotiable Instruments Act 1881 : Negotiable Instruments - Meaning – Characteristics – Types – Promissory Notes, Bills of Exchange.	7
Cheques and Hundies – Parties to Negotiable Instruments – Liabilities of Parties – Discharge of Parties from Liabilities – Dishonor of Negotiable Instrument.	8
Total	**15**

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For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme:** B.Com (CA)
Course Code: 20UCAE61	**Staff Name:** Mrs. M. PAPATHI
Course Name: CUSTOMER RELATIONSHIP MANAGEMENT	

Unit: I	
Topics to be covered	**No. of Hours**
Meaning of Customer – Importance of Customer – Difference between Customer and Consumer – Customer Satisfaction-Customer Loyalty.	5
Customer Life Cycle. Introduction to CRM -Definition – Objectives of CRM – Complementary Layers of CRM- Difference between CRM and E-CRM.	5
	10
Unit: II	
Topics to be covered	**No. of Hours**
Customer Learning Relationship – Stages of CRM –Forces during CRM.	8
Benefits of CRM – Growth of CRM Market in India –Key Principles of CRM.	7
Total	15
Unit: III	
Topics to be covered	**No. of Hours**
CRM Program –Ground Work for Effective use of CRM.	5
Information Required for an Effective use of CRM – Components of CRM – Types of CRM.	5
Total	10
Unit: IV	
Topics to be covered	**No. of Hours**
CRM Process Frame Work – Governance Process.	5
Performance Evaluation –Impact of CRM on Marketing Channels.	5
Total	10
Unit: V	
Topics to be covered	**No. of Hours**
Use of Technology in CRM – Call Center Process – CRM Technology Tools – Implementation.	8
Requirement Analysis Selection of CRM Package – Reasons for Failure of CRM	7
Total	15

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For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE CA	**Programme : B.COM CA**
Course Code: 20UCAS61	**Staff Name: Mr. M. ABBAS MANTHRI**
Course Name: MULTIMEDIA- LAB	

Module No	Topic to be Covered	No. of Hours
	FLASH EXERCISES	
1.1	Text Animation	2
1.2	Motion along a Path	2
1.3	Morphing Technique	2
1.4	Masking Technique	3
1.5	Tweening Technique	3
1.6	Spot Light Mask	3
	Topic to be Covered	
	PHOTOSHOP EXERCISES	
2.1	Design Greeting Cards for Various Occasions	2
2.2	Color a Given Black and White Image	2
2.3	Apply Different Filters to the Imaged(Any 10 filters)	2
2.4	Create Image Cloning	3
2.5	Design Product Wrappers	3
2.6	Design Monthly Calendar	3
	Total	30

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For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: M.Com (CA)**
Course Code: 23PCACC21	**Staff Name: Dr. K. DEEPALAKSHMI**
Course Name: STRATEGIC COST MANAGEMENT	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Strategic Cost Management Introduction to Strategic Cost Management (SCM) – Need for SCM – Differences between SCM and Traditional Cost Management - Value Chain Analysis: Meaning and steps	9
Quality Cost Management: Meaning of Quality and Quality Management – Cost of Quality – Indian Cost Accounting Standard 21 on Quality Control - Introduction to Lean System – Benefits of Lean System – Just in Time (JIT) – Kaizen Costing.	9
Total	**18**
Unit: II	
Topics to be covered	**No. of Hours**
Cost Control and Reduction Cost Management Techniques: Cost Control: Meaning and Prerequisites - Cost Reduction: Meaning and Scope – Differences between Cost control and cost reduction	9
Pareto Analysis: Meaning, importance and applications - Target Costing: Meaning, steps and Principles – Life Cycle Costing: Meaning, Strategies for each stage of product life cycle, Benefits – Learning Curve: Meaning, Learning curve ratio and applications.	9
Total	**18**
Unit: III	
Topics to be covered	**No. of Hours**
Activity Based Cost Management Activity Based Cost Management: Concept, Purpose, Stages, Benefits	9
Relevance in Decision making and its Application in Budgeting – Practical problems.	9
Total	**18**
Unit: IV	
Topics to be covered	**No. of Hours**
Transfer Pricing Transfer Pricing: Meaning, Benefits, Methods: Pricing based on cost, Market price on transfer price	9
Negotiated pricing and Pricing based on opportunity costs – Practical Problems.	9
Total	**18**
Unit: V	
Topics to be covered	**No. of Hours**
Cost Management in Agriculture and IT sector Agriculture Sector: Features, Cost Structure, Cost Management, Tools to measure the performance,	9
Minimum Support Price and International Perspective –Information Technology Sector: Features, Cost Structure, Cost Management and International Perspective.	9
Total	**18**

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Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: M.Com (CA)**
Course Code: 23PCACC22	**Staff Name:** **Mr. A. JAVITH RAJA,** **Mr. M. GULAM RIYAZ**
Course Name: CORPORATE ACCOUNTING	

Unit: I	
Topics to be covered	**No. of Hours**
Issue of Shares and Final Accounts of Companies Issue of Shares: ESOPs - ESPS - Sweat Equity Shares - Book Building- Buy-back of Shares	**9**
Conversion of debentures into shares - Final accounts of Companies as per Schedule III of the Companies Act, 2013 – Managerial remuneration.	**9**
Total	**18**
Unit: II	
Topics to be covered	**No. of Hours**
Insurance Company Accounts Insurance Company Accounts: Types of Insurance - Final accounts of life assurance Companies	**9**
Ascertainment of profit- Valuation Balance Sheet-Final accounts of Fire, Marine and miscellaneous Insurance Companies.	**9**
Total	**18**
Unit: III	
Topics to be covered	**No. of Hours**
Consolidated financial statements Consolidated financial statements as per AS 21: Consolidated Profit and Loss Account	**9**
Minority interest – Cost of control – Capital reserve – Inter-company holdings –Preparation of consolidated Balance Sheet.	**9**
Total	**18**
Unit: IV	
Topics to be covered	**No. of Hours**
Contemporary Accounting Methods Accounting for price level changes	**9**
Social responsibility accounting – Human resource accounting - Forensic Accounting.	**9**
Total	**18**
Unit: V	
Topics to be covered	**No. of Hours**
Financial reporting Financial reporting: Meaning, Objectives, Characteristics – Indian Accounting Standards (AS 5, AS 10, AS 19, AS 20) –	**9**
Corporate Social Responsibility: Meaning, Key provisions of Companies Act, 2013, Accounting for CSR expenditure, Reporting of CSR, Presentation and disclosure in the financial statements.	**9**
Total	**18**

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Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: M.Com (CA)**
Course Code: 23PCACC23	**Staff Name: Mrs. M. PAPATHI**
Course Name: SETTING UP OF BUSINESS ENTITIES	

Unit: I	
Topics to be covered	**No. of Hours**
Startups in India Types of business organisations –Factors governing selection of an organisation - Startups – Evolution – Definition of a Start-up – Start-up landscape in India – Start-up India policy – Funding support and incentives	9
Indian states with Start-up policies – Exemptions for startups – Life cycle of a Start-up – Important points for Startups – Financing options available for Startups – Equity financing – Debt financing – Venture capital financing – IPO – Crowd funding – Incubators - Mudra banks –Successful Startups in India.	9
Total	**18**
Unit: II	
Topics to be covered	**No. of Hours**
Not-for-Profit Organisations Formation and registration of NGOs – Section 8 Company – Definition – Features – Exemptions – Requirements of Section 8 Company – Application for incorporation – Trust: Objectives of a trust	9
Persons who can create a trust – Differences between a public and private trust – Exemptions available to trusts – Formation of a trust - Trust deed –Society – Advantages – Disadvantages – Formation of a society – Tax exemption to NGOs.	9
Total	**18**
Unit: III	
Topics to be covered	**No. of Hours**
Limited Liability Partnership and Joint Venture Limited Liability Partnership: Definition – Nature and characteristics – Advantages and disadvantages – Procedure for incorporation – LLP agreement – Annual compliances of LLP	9
Business collaboration: Definition – Types –Joint venture: Advantages and disadvantages – Types – Joint venture agreement - Successful joint ventures in India– Special Purpose Vehicle – Meaning – Benefits – Formation.	9
Total	**18**
Unit: IV	
Topics to be covered	**No. of Hours**
Registration and Licenses Registration and Licenses: Introduction – Business entity registration – Mandatory registration – PAN – Significance – Application and registration of PAN – Linking of PAN with Aadhar –TAN	9
Persons liable to apply for TAN – Relevance of TAN – Procedure to apply for TAN –GST: Procedure for registration – Registration under Shops and Establishment Act –MSME registration – Clearance from Pollution Control Board – FSSAI registration and license – Trade mark, Patent and Design registration.	9
Total	**18**
Unit: V	
Topics to be covered	**No. of Hours**
Environmental Legislations in India Geographical Indication of Goods (Registration and Protection) Act, 1999: Objectives, Salient Features - The Environmental Protection Act, 1986: Prevention, control and abatement of environmental pollution - The Water (Prevention and Control of Pollution) Act, 1974: The Central and State Boards for Prevention and Control of Water Pollution	9
Powers and Functions of Boards - Prevention and Control of Water Pollution - Penalties and Procedure- The Air (Prevention and Control of Pollution) Act, 1981: Central and State Boards for The Prevention and Control of Air Pollution - Powers And Functions - Prevention and Control of Air Pollution - Penalties and Procedure.	9
Total	**18**

Signature of the Dean
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Dean of Humanities
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TEACHING PLAN

For the Academic Year 2024-25 (ODD / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: M.Com (CA)**
Course Code: 23PCADE21	**Staff Name: Mr. T.H. ZAHEER AHAMED**
Course Name: TECHNOLOGY IN BANKING	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Core Banking Computerization Essentials of Bank Computerization–Stand Alone and Multi-User System – Local Area Network and	6
Wide Area Network: Features, Advantages and Limitations – Core Banking: Essential Requirements and Benefits.	6
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Electronic Payment System and Banking Facilities ElectronicPaymentSystems–ATM:Features–Advantages–Disadvantages–BrownLabe landWhite Label ATM, PIN, Electro Magnetic Cards, Credit Cards, Debit Cards andSmart Cards: Features, Benefits and Limitations– Multiple Pinin Smart Card – Electronic Purse	6
Electronic Cheque –Electronic Cash – Electronic Banking – Home Banking(Corporate and Personal) – Update Facilities – Internet Banking – Mobile Banking: Features, Advantages and Limitations – Signature Storage and Retrieval System – Cheque Truncation – MICR and OCR: Characteristics– Advantages and Limitations.	6
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Electronic Fund Transfer and Its Transitions Electronic Fund Transfer System – Electronic Credit and Debit Clearing – NEFT, RTGS,VSAT,	6
SFMS, SWIFT: Features, Advantages and Limitations– Digital Signature Unified Payments Interface (UPI): Concept, Mechanism and Services Covered– Digital Wallets (E-Wallets):Features, Benefits and Types.	6
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Trends in Banking Technology Recent Developments in Banking Technology: Digital Account Opening – Application Programming Interface – Video Collaboration – Person-to-Person Payments – Cloud Computing – NUUP (National Unified USSD Platform), AePS (Aadhaar enabled Payment System) –APBS (Aadhaar Payments Bridge System)	6
Role of IDBRT (Institute of Development and Research in Banking) in banking technology development - Status of E-banking in India - Process of E-Banking - Benefits of E-banking - Emerging challenges in banking industry - Scope of IT to tackle the key challenges	6
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Information Security System Information security - Software based security systems - Hardware based security systems (smart card, M chip) – Hackers: Techniques used by the hackers, Phishing, Pharming, Key loggers, Screen loggers, Phishing - Trojans transaction poisoning - Card related fraud - Site cloning – False merchant site	6
Authentication methodologies and security measures (Password protection - Smart cards - Biometric characteristics) - Encryption and security - Customer confidentiality - Regulatory environment of internet banking - Legal Framework for Electronic Transactions – Cyber security as per Information Technology Act, 2000 – RBI Guidelines on Internet Banking.	6
Total	12

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TEACHING PLAN

For the Academic Year 2024-25 (ODD / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: M.Com (CA)**
Course Code: 23PCAGE2P	**Staff Name: Mr. R. ABIRAMAKRISHNAN**
Course Name: INTERNET PROGRAMMING -LAB	

Unit: I	
Topics to be covered	**No. of Hours**
Write HTML code to design a page containing a Text in a paragraph give suitable heading style.	6
Write HTML code to create a Web Pages that contains an Image as web link. Create a web page, when user clicks on the link it should go to the bottom of the page.	6
Total	12
Unit: II	
Topics to be covered	**No. of Hours**
Write a HTML code to create a web page of pink color and display moving message in red color.	6
Create a web page, showing an ordered list of names of your five friends Create a web page, showing Mark Statement using Tables	6
Total	12
Unit: III	
Topics to be covered	**No. of Hours**
Create a simple form accepting – Name, Register No. and Submit Button. Design a form using all input Types.	6
Create a web page having Three frames.	6
Total	12
Unit: IV	
Topics to be covered	**No. of Hours**
Write a program CSS Attributes for Inline.	6
Write Program CSS Selectors Elements. Write a Program CSS Tag for Padding and Margin	6
Total	12
Unit: V	
Topics to be covered	**No. of Hours**
Create a XML file to store Students Information's Like Roll No, Name,Mobile No, E-Mail Id. Writer an Internal Document Type definition to validate XML for customer details.	6
Write an XML for person information and access the data using XSL.	6
Total	12

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TEACHING PLAN

For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: M.Com (CA)**
Course Code: 23PCASE21	**Staff Name: Mr. P. SEENIVASAN, Dr. K. DEEPALAKSHMI**
Course Name: ACCOUNTING FORMANAGERS – I NME	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction for Accounting: Meaning and scope of Accounting, Basic Accounting concepts and conventions	6
Objectives of Accounting – Accounting transactions	6
Total	12
Unit: II	
Topics to be covered	**No. of Hours**
Double Entry Book Keeping: Double Entry Book Keeping – Journal, Ledger	6
Preparation of Trial Balance.	6
Total	12
Unit: III	
Topics to be covered	**No. of Hours**
Subsidiary Books: Subsidiary book – Preparation of cash book	6
single column, double column and triplecolumns cash book.	6
Total	12
Unit: IV	
Topics to be covered	**No. of Hours**
Bank Reconciliation and rectification of errors: Bank reconciliation statement – Errors – Types – Errors disclosed and not disclosed by trialbalance	6
Rectification of errors – Suspense account	6
Total	12
Unit: V	
Topics to be covered	**No. of Hours**
Final Account: Preparation of Final Accounts – Adjustments – Closing stock, Outstanding, Prepaid andaccrued, depreciation,	6
bad and doubtful depts., provision and discount on debtors and creditors.	6
Total	12

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TEACHING PLAN

For the Academic Year 2024-25 (ODD / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE CA	**Programme: M.Com (CA)**
Course Code: 23PCACC41	**Staff Name: Mr. T.H.ZAHEER AHAMED**
Course Name: CORPORATE AND ECONOMIC LAWS	

Unit-I	
Topics to be covered	No. of Hours
Introduction to Foreign Exchange Management Act, 1999 Foreign Exchange Management Act, 1999: Introduction – Definitions	6
Current Account transactions – Capital Account transactions – Realisation, repatriation and surrender of foreign currency – Remittance of assets	6
Possession and retention of foreign currency or foreign coins – Authorised person – Adjudication and Appeal.	6
Total	18

Unit-II	
Topics to be covered	No. of Hours
Competition Act, 2002 and Consumer Protection Act, 2019 Competition Act, 2002: Objective – Prohibition of Agreements, Prohibition of Abuse of Dominant Position - Regulation of combinations -	6
Competition Commission of India: Duties, Powers and Functions of Commission - Appellate Tribunal.	6
The Consumer Protection Act, 2019: Objects; Rights of consumers – Consumer Dispute Redressal Commissions - Consumer protection councils – Procedure for admission to complaints – Appeal against orders.	6
Total	18

Unit–III	
Topics to be covered	No. of Hours
Law relating to intellectual property rights Law relating to intellectual property rights: Introduction - The Copyright Act, 1957: Works in which copyright subsist - Ownership of copyright and the rights of the owner -	6
Assignment of copyright - Disputes with respect to assignment of copyright - Term of copyright - Registration of copyright - Infringement of copyright. The Patents Act, 1970: Inventions not patentable - Applications for patents - Publication and examination of applications -	6
Grant of patents and rights conferred - Register of patents. Trademarks Act, 1999: Conditions for registration - Procedure for and duration of registration - Effect of registration - Collective marks.	6
Total	18

Unit-IV	
Topics to be covered	No. of Hours
Prevention of Money Laundering Act, 2002 Prevention of Money Laundering Act, 2002: Offence of money laundering –Punishment for money laundering –	9
Attachment, adjudication and confiscation - Obligations of Banking Companies, Financial Institutions and Intermediaries – Summons, Search and Seizure – Appellate Tribunal.	9
Total	18

Unit-V	
Topics to be covered	No. of Hours
Real Estate (Regulation and Development) Act, 2016 Real Estate (Regulation and Development) Act, 2016: Introduction - Salient features of the Act - Registration of Real Estate Project – Registration of Real Estate agents –	9
Functions and duties of promoter – Rights and duties of Allottees – Offences, penalties and adjudication – Specimen agreement for sale to be executed between the promoter and the allottee.	10
Total	18

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TEACHING PLAN

For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE CA	**Programme: M.Com (CA)**
Course Code: 23PCACC42	**Staff Name: Mr. K. MOHAMMED ABDUL KADER, Mr. M. GULAM RIYAZ**
Course Name: HUMAN RESOURCE ANALYTICS	

Unit-I	
Topics to be covered	No. of Hours
Introduction to Human Resource Analytics Human Resource Analytics: Introduction –Concept – Evolution - Importance	10
Benefits – Challenges - Types of HR Analytics – HR Analytics Framework and Models.	8
Total	18
Unit-II	
Topics to be covered	No. of Hours
Business Process and HR Analytics Business Process and HR Analytics: Introduction – Data Driven Decision Making in HR	10
Data Issues – Data Validity – Data Reliability - HR Research tools and techniques –Statistics and Statistics Modelling for HR Research	8
Total	18
Unit–III	
Topics to be covered	No. of Hours
Introduction to HR Metrics HR Metrics: Introduction - Historical Evolution of HR metrics- Importance – Types of HR Metrics	10
Types of data - HR Metrics Design Principles — HR Scorecard – HR Dashboards.	8
Total	18
Unit-IV	
Topics to be covered	No. of Hours
HR Analytics and Data HR Analytics and Data:Introduction – HR Data Collection – Data quality – Big data for Human Resources – Process of data collection for HR Analytics	10
Transforming data into HR information – HR Reporting – Data Visualization – Root cause analysis.	8
Total	18
Unit-V	
Topics to be covered	No. of Hours
HR Analytics and Predictive Modelling HR Analytics and Predictive Modelling: Introduction – HR Predictive Modelling – Different phases – Predictive analytic tools and techniques	10
Information for Predictive analysis - Software solutions - Predictive Analytic Models for Quantitative Data - Steps involved in predictive analytics.	8
Total	18

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TEACHING PLAN

For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE CA	**Programme: M.Com (CA)**
Course Code: 23PCAGE41	**Staff Name: Mr. M. ABBAS MANTHIRI, Mr. T.H. ZAHEER AHAMED**
Course Name: E- COMMERCE	

Unit-I	
Topics to be covered	No. of Hours
E-Commerce and Electronic Payment Systems What is Electronic Commerce - Brief history of Electronic Commerce - Advantages and Limitations of Electronic Commerce - Types of Electronic commerce - Integrating	6
Electronic Commerce - Key questions for management - Overview of the Electronic payment technology- Requirements for Internet based payments - Electronic payment medium – Electronic Commerce and Banking.	6
Total	12

Unit-II	
Topics to be covered	No. of Hours
Electronic Data Interchange Benefits of EDI, EDI technology, EDI standards, EDI communications, EDI Implementation, EDI Agreements, EDI Security. Electronic Payment Systems, Need of	6
Electronic Payment System: Study and examine the use of Electronic Payment system and the protocols used, Study Electronic Fund Transfer and secure electronic transaction protocol for credit card payment. Digital economy: Identify the methods of payments on the net – Electronic Cash, cheques and credit cards on the Internet.	6
Total	12

Unit–III	
Topics to be covered	No. of Hours
Consumer Oriented E Commerce: E-Retailing: Traditional retailing and e retailing, Benefits of e retailing, Key success factors, Models of e retailing, Features of e retailing. E services: Categories of e-services,	6
Web-enabled services, matchmaking services, Information-selling on the web, e entertainment, Auctions and other specialized services. Business to Business Electronic Commerce	6
Total	12

Unit-IV	
Topics to be covered	No. of Hours
E-security and Web based business Security in the cyberspace - Designing for security -Virus -Security Protection and Recovery - Encryption - Business-to-Business Electronic Commerce	6
Intranets and Extranets - Intranets and Supply Chain Management - Legal and Ethical issues - Case studies.	6
Total	12

Unit-V	
Topics to be covered	No. of Hours
Issues in E Commerce Understanding Ethical, Social and Political issues in E-Commerce: A model for Organizing the issues, Basic Ethical Concepts, Analyzing Ethical Dilemmas, Candidate Ethical principles Privacy and Information Rights:	6
Information collected at E-Commerce Websites, The Concept of Privacy, Legal protections Intellectual Property Rights: Types of Intellectual Property protection, Governance.	6
Total	12

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TEACHING PLAN

For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE CA	**Programme: M.Com (CA)**
Course Code: 23PCADE4P	**Staff Name: Mr. R. ABIRAMAKRISHNAN**
Course Name: ADVANCED MS-EXCEL	

Unit-I	
Topics to be covered	**No. of Hours**
Features of MS-Excel, work sheet and work book: Labelling and Naming Worksheets and Workbooks, Adding, Deleting and Saving Worksheets and Workbooks, Reposition Worksheets,	6
Inserting, Deleting, and Renaming Worksheets, Copy Worksheets, Printing a Workbook, Formatting a Worksheet. Adding Elements to a Workbook, Protecting Worksheet and Workbook.	6
Total	**12**
Unit-II	
Topics to be covered	**No. of Hours**
Import external data and creating table: Import external data, Creating a Table, Sorting Data into a Table, Data Validation, Consolidation. Defining Names in MS Excel, Macros: View Macros, Record Macros, Formulas and Functions:	6
Creating a formula, Formula Auditing. Meaning and advantages of functions, Insert functions, Use relative References, Mathematical Functions, Statistical Advantages Functions, Date of functions, & Time Functions.	6
Total	**12**
Unit–III	
Topics to be covered	**No. of Hours**
Creating charts: Charts: Chart elements: Titles, legend, data labels, creating a New Chart, Formatting the Chart, Types charts, Using Chart Templates.	6
PivotTables: PivotTables, Creating a Pivot Table, Filtering and Sorting a PivotTable,Using Slicers to manipulate Pivot Tables, Creating a Pivot Chart	6
Total	**12**
Unit-IV	
Topics to be covered	**No. of Hours**
Filtering Data: Creating a Custom AutoFilter, Using an Advanced Filter, Data sorting.	6
Data outline: Group, Ungroup and Subtotals. What if Analysis: Scenario manager, Goal seek, Data table.	6
Total	**12**
Unit-V	
Topics to be covered	**No. of Hours**
Preparation and presentation of Financial statement: Introduction to Financial Modeling, Representation of Financial Statement: Profit & Loss Account,	6
Balance sheet, Cash Flow Statement. Ratio Analysis: Short Term, Long Term, Activity Ratios, Profitability Ratios. Financial Statement Analysis: Comparative, Common size statements and trend Analysis.	6
Total	**12**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**
Course Code: 23UBCCC21	**Staff Name: Dr. A. Khadira Sereen & G.Dhivya Bharathi**

Course Name: Cell Biology

Unit: I	
Topics to be covered	**No. of Hours**
Architecture of cells- Structural organization of prokaryotic and eukaryotic cells.	**3**
Microbial, plant and animal cells.	**3**
The ultrastructure of nucleus, mitochondria, RER, SER,.	**3**
Golgi apparatus, lysosome,	**3**
Peroxisome and their functions	**3**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Cytoskeleton- microfilament, microtubules and intermediary filament- structure, composition and functions.	**3**
Organization of Genome -prokaryotic, and eukaryotic genome.	**3**
Organization of chromatin – histones,	**3**
Nucleosome concept, formation of chromatin structure	**3**
Special types of chromosomes – lamp brush chromosomes, polytene chromosomes	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Biomembranes-Structural organization of bilipidlayer	4
Model and basic functions-	4
Transport across cell membranes- uniport, symport and antiport.	4
Passive and active transport	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Cell cycle- Definition and Phases of Cell cycle	5
Cell division-Mitosis and Meiosis and its significance	5
Cancer cells- definition, types and characteristics of cancer cells	5
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Extracellular matrix – Collagen, laminin	4
Fibronectin and proteoglycans- structure and biological role.	4
Structure and role of cadherin, selectins, integrins,	4
Cell -cell interactions- Types-gap junctions, tight junctions and Desmosomes	3
Total	**15**

Forwarded by Dean
Dr.K.SHAHUL HAMEED,Ph.D.,
Dean of Science
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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry & Microbiology	Programme: B. Sc

Course Code: 23UCHGE21	Staff Name: M. Mariyam beevi

Course Name: Chemistry for Biological Science-II

Unit: I	
Topics to be covered	**No. of Hours**
Definition of terms - IUPAC Nomenclature - Werner'stheory - EAN rule - Pauling's theory – Postulates	3
Applications to $[Ni(CO)4]$, $[Ni(CN)4]^{2-}$,$[Co(CN)6]^{3-}$ Chelation	3
Biological role of Hemoglobin and Chlorophyll (elementary idea) -Applications in qualitative and quantitative analysis	2
Water Technology: Hardness of water, determination of hardness, using EDTA method	2
Zeolite method-Purification techniques – BOD and COD.	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Classification, preparation and properties of glucose and fructose.	3
Discussion of open chain ring structures of glucose and fructose.	3
Glucose-fructose interconversion	3
Preparation and properties of sucrose, starch and cellulose.	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Classification - preparation and properties of alanine,preparation of dipeptides using Bergmann method	3
Proteins- classification – structure - Colour reactions – Biological functions	3
Nucleosides -nucleotides – RNA and DNA – structure	3
Essentials of trace metals in biological system-Na, Cu, K, Zn, Fe, Mg.	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Galvanic cells - Standard hydrogen electrode - calomel electrode - standard electrode potentials -electrochemical series.	2
Strong and weak electrolytes - ionic product of water -pH, pKa, pKb. Conductometric titrations	4
pH determination by colorimetric method – buffer solutions and its biological applications	3
Electroplating - Nickel and chrome plating – Types of cells -fuel cells-corrosion and its prevention	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Grothus - Drapper's law and Stark-Einstein's law of photochemical equivalence,	3
Quantum yield - Hydrogen -chloride reaction	3
Phosphorescence, fluorescence, chemiluminescence	3
photosensitization and photosynthesis (definition with examples)	3
Total	**12**

Forwarded by Dean
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Dean of Science
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TEACHING PLAN
For the Academic Year 2024-25(EVEN SEMESTER)

Department: Biochemistry & Microbiology	Programme: B. Sc

Course Code: 23UCHGE2P	Staff Name: M. Mariyam beevi

Course Name: Chemistry practical for physical and biological sciences-II

Unit: I	
Topics to be covered	**No. of Hours**
Functional group tests (phenol, acid (mono &di aromatic primary amine, amides (mono &di), aldehyde and glucose).	8
Detection of elements (N,S,HALOGENS)	8
To distinguish between aliphatic and aromatic compounds.	8
To distinguish- saturated and unsaturated compounds.	6
Total	**30**

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TEACHING PLAN
For the Academic Year 2024-25(EVEN SEMESTER)

Department: Biochemistry	Programme: B. Sc

Course Code: 23UBCCC2P	Staff Name: G. Dhivya Bharathi & Dr. A. Khadira Sereen

Course Name: Cell Biology Lab

Unit: I	
Topics to be covered	**No. of Hours**
I MICROSCOPYANDSTAININGTECHNIQUES • Study the parts of light and compound microscope • Preparation of Slides and Micrometry	9
• Examination of prokaryotic and eukaryotic cell • Visualization of animal and plant cell by methylene blue	9
• Visualization of nuclear fraction by acetocarmine stain • Staining and visualization of mitochondria by Janus green stain	9
II GROUP EXPERIMENT 7.Identificationofdifferentstagesofmitosisinonionroottip 8.Identification of different stages of meiosis in onion bulb	9
III SPOTTERS 9. a) **Cells**: Nerve, plant and Animal cell b) **Organelles**: Mitochondria, Chloroplast, Endoplasmic reticulum, c) **Mitosis stages**–Prophase ,Anaphase, Metaphase, Telophase	9
Total	**45**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 23UBCSE21	**Staff Name: G.Dhivya Bharathi**

Course Name: Lifestyle Diseases

Unit: I	
Topics to be covered	**No. of Hours**
Lifestyle diseases: Definition, Factors contributing to lifestyle diseases	**2**
Physical inactivity, Poor food habits,	**2**
disturbed biological clock, sleep deprivation	**2**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Causes, symptoms, types, preventive measures and treatment of Obesity, cardiovascular dseases, diabetes and cancer.	**2**
cardiovascular diseases,	**2**
diabetes	**1**
cancer	**1**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**

Top lifestyle diseases,	3
Impact of Lifestyle diseases on family	2
society and economy of country.	1
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Women's lifestyle diseases: Polycystic Ovarian Disease, ,	2
Infertility	2
Breast and cervical cancer and Osteoporosis.	2
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Prevention of lifestyle diseases: Balanced diet,	1
Sufficient intake of water,	2
Physical activity, sleep-wake cycle	2
Stress management and meditation.	1
Total	**6**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**
Course Code: 23UBCSE22	**Staff Name: R.Vanitha**
Course Name: First Aid	

Unit: I	
Topics to be covered	**No. of Hours**
Aims and important rules of first aid, dealing with emergency	**2**
types and content of a first aid kit	**1**
First aid technique – Dressing and Bandages.	**2**
fast evacuation technique, transport techniques.	**1**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Basics of Respiration – CPR, first aid during difficult breathing	**2**
drowning, choking, strangulation and hanging,	**1**
swelling within the throat	**2**
suffocation by smoke or gases and asthma	**1**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Common medical aid- first aid for wounds	**2**

cuts, head, chest, abdominal injuries	1
shocks, burns, amputations	1
fractures, dislocation of bones.	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
First aid related to unconsciousness	3
stroke, fits, convulsions- seizures, epilepsy	3
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
First aid in poisonous bites (Insects and snakes),	2
honey bee stings, animal bites, disinfectant, acid and alkali poisoning.	4
Total	6

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Topics to be covered	No. of Hours
General principles, factors affecting electrophoretic mobility.	3
Tiselius moving boundary electrophoresis.	2
Electrophoresis with paper and starch.	2
Principle, instrumentation and applications of agarose gel electrophoresis	3
Principle, instrumentation and applications of SDS-PAGE	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Basics of Electromagnetic radiations- Energy, wavelength, wavenumber and frequency	2
Absorption and emission spectra	2
Lambert – Beer Law	2
Light absorption and transmittance.	2
Calorimetry-Principle, instrumentation and applications	1
Visible and UV spectrophotometry – Principle, instrumentation and applications	2
enzyme assay, structural studies of proteins and nucleic acids.	1
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Radioactivity - Types of Radioactive decay	2
Half-life, units of radioactivity	2
Detection and measurement of radioactivity	2
Methods based upon ionization -Geiger Muller Counter.	2
Methods based upon excitation - Solid & Liquids scintillation counters.	2
Autoradiography. Biological applications and safety aspects of radioisotopes	2
Total	**12**

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TEACHING PLAN
For the Academic Year 2024-25(EVEN SEMESTER)

Department: Biochemistry	Programme: B. Sc

Course Code: 23UBCCC4P	Staff Name: Mrs.R.Vanitha.

Course Name: Biochemical Techniques Lab

Unit: I	
Topics to be covered	**No. of Hours**
Calorimetry - Introduction	3
Estimation of amino acid by Ninhydrin method.	3
Estimation of protein by Biuret method.	3
Total	**9**

Unit: II	
Topics to be covered	**No. of Hours**
Estimation of DNA by Diphenylamine method.	3
Estimation of RNA by Orcinol method.	3
Estimation of phosphorus by Fiske and Subbarow method.	3
Total	**9**

Unit: III	
Topics to be covered	**No. of Hours**
Separation and identification of sugars by Paper chromatography.	5
Separation and identification of amino acids by Paper chromatography.	4
Total	**9**

Unit: IV	
Topics to be covered	**No. of Hours**
Separation and identification lipids by thin layer chromatography.	5
Separation and identification of amino acids by thin layer chromatography.	4
Total	**9**

Unit: V	
Topics to be covered	**No. of Hours**
Separation of serum and plasma from blood by centrifugation.	5
Separation of serum proteins by SDS – PAGE.	4
Total	**9**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 23UBCSE41	**Staff Name: Dr. A. Khadira Sereen**

Course Name: Medical Coding

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Medical coding	**2**
Coding theory	**2**
Healthcare Common Procedure Coding	**2**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Introduction to Medical Terminology	**1**
Specialization I & II	**2**
Diagnostic coding	**2**
Factors affecting diagnostic coding	**1**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**

Documenting medical records	2
Importance of Documentation	2
Types of dictation formats	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Introduction to Human Anatomy and Coding	3
ICD-10- CM classification system	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Introduction to CPT coding	2
Types of CPT coding	2
Medical Law and Ethics	2
Total	**6**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**
Course Code: 23UBCSE42	**Staff Name: R.Vanitha**
Course Name: Tissue Culture	

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Plant tissue culture	2
Types- seed, embryo, callus, Organ, Protoplast culture, Organ, Protoplast culture,	2
Advantages and importance of tissue culture. Tools and techniques.	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Media and culture Preparation. PH, Temperature, solidifying agents.	2
Role of Micro and macro Nutrients.	2
Maintenance of cultures.	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Methods of gene transfer in plant and animal	3
Direct and indirect gene transfer method	3
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Introduction of cell culture.	1
Cell culture technique.	2
Explants selection.	1
Sterilization.	1
Inoculation.	1
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Transgenic plants for crop improvement.	2
Transgenic plants for molecular farming – Animal Cloning.	2
Over view, applications of animal cell culture.	2
Total	**6**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 23UGEVS41	**Staff Name: M. Mariyam beevi**

Course Name: Environmental Studies

Unit: I	
Topics to be covered	**No. of Hours**
Earth- formation	1
Evolution of Earth	1
Structure of Earth	1
Components - Atmosphere, Lithosphere, Hydrosphere and Biosphere	2
Resources - renewable and non-renewable resources	1
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Ecology – definition	1
Ecosystem : Definition - structure and function	1
Energy flow	1
Food chain and Food web - one example for an ecosystem	1
Biogeochemical cycles, Nitrogen, carbon, Phosphorous and Water	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Introduction - definition - Values of Biodiversity	1
Threat to Biodiversity - Conservation of Biodiversity	1
Biodiversity of India - as a mega diversity nation	1
Bio-geographical distribution,	1
Hot spots of biodiversity, National Biodiversity conservation Board and its function	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Definition, causes, effects and control measures of Air	2
Definition, causes, effects and control measures of Air, Water, Soil, Marine, Noise	2
Thermal and Nuclear pollution	1
Global issues: Global Warming and Ozone Layer Depletion	1
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Sustainable Development	2
Sustainable Agriculture	1
Organic farming, Irrigation	1
Water harvesting and Waste recycling	1
Cyber waste and management	1
Total	6

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**
Course Code: 20UBCC61	**Staff Name: R.Vanitha**
Course Name: Immunology	

Unit: I	
Topics to be covered	**No. of Hours**
General Principle of Immunology - host parasitic Relationship - Source of Infection	5
Transmission of Infection, host resistance.	5
Immunity - Innate Immunity and Accured immunity.	5
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Immune organs - bone marrow, thymus Lymph node, Spleen.	5
Structure, Function and properties of Immune cells: T-cell, B-cell, NK cells, Macrophage	5
Neutrophil, eosinophil, basophil, Mast cell and dentritic cell.	5
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Antigen - Types, Properties, Hapten Adjuvants - T dependent and independent antigens.	5
Immunoglobulins - Types and properties - IgM, IgG, IgA, IgD and IgE Structure IgG.	5
Total	**10**

Unit: IV	
Topics to be covered	**No. of Hours**

Interacting Antigen and Antibody. Features of antigen and antibody Interaction.	5
Defection - Agglutination, Precipitation, immunodiffusion, Immunofluorescence,	5
Complement fixation, enzyme linked immune sorbent assay (ELISA).	5
Production of antisera, Production of monoclonal antibodies - Vaccination	5
Total	**20**

Unit: V	
Topics to be covered	**No. of Hours**
Hypersensitivity reaction and its types	5
Transplantation - graft Vs Host rejection and host Vs graft rejection.	5
Auto immune disease - Graves' disease and pernicious anaemia.	5
Total	**15**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 20UBCC62	**Staff Name: A. Suriya**

Course Name: Plant Biochemistry

Unit: I	
Topics to be covered	**No. of Hours**
Translocation of plant – Introduction	3
Direction and path of translocation	3
Mechanism of translocation	3
Ascent of sap, path and mechanism	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Photosynthetic apparatus	3
Photosynthesis pigments	3
Light and Dark reactions of photosynthesis C3, C4, and CAM Plants	3
Factors affecting photosynthesis.	1
Photorespiration	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**

Essential mineral nutrients	2
Function, effects of toxicity and deficiency	2
N2 Cycle, N2 Fixation	2
Symbiotic and asymbiotic Nitrogen Fixation	2
Nitrogenase, nitrate assimilation	2
Sulphur and Sulphate assimilation	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Natural Growth hormones	2
Auxins	2
GA	2
Cytokines	2
Ethylene and	2
ABA	1
Synthetic growth hormones	1
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Importance of plant tissue culture, Basic requirements formulation of medium, culture of plant tissues, Applications.	4
Seed germination and dormancy.	4
Photoperiodism	4
Total	**12**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 20UBCC63	**Staff Name: Dr. A. Khadira Sereen**

Course Name: Biostatistics

Unit: I	
Topics to be covered	**No. of Hours**
Types of Data	**3**
Sampling	**3**
Classification of Data	**3**
Frequency Distribution	**3**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Tabulation	**3**
Representation of the Data	**3**
Measures of Central Tendency	**3**
Measures of Dispersion	**3**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Dispersion	**4**

Skewness	4
Kurtosis	4
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Probability Scale - Definition and Explanation of some term	2
Types of probability	2
Theorem of probability - Addition theorem and multiplication theorem.	2
Types of theoretical distribution	2
Application of probability	2
Venn Diagram.	2
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
ANOVA Analysis	4
Correlation	4
Regression analysis	4
Total	**12**

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TEACHING PLAN
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Department: Biochemistry	**Programme: B. Sc**
Course Code: 20UBCC6P	**Staff Name: Dr.A. Khadira Sereen**
Course Name: Clinical Biochemistry Practicals	

Topics to be covered	No. of Hours
Introductory, collection of blood and urine specimen.	3
Analysis of Blood sugar - Copper reduction method	3
Analysis of Blood cholesterol - Ferric chloride method	3
Analysis of Blood urea - Urease method	3
Analysis of Blood uric acid - Molybdate method	3
Analysis of Blood Creatinine - Picric acid method	3
Serum phosphorus - Fiski Subharaw's Method	3
Estimation of haemoglobin - Sahli method	3
Collection & Preservation of urine Sample	3
Normal & Abnormal Analysis of Urine	6
SGOT - Serum	6
SGPT- Serum	6
Total	**45**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 20UBCC6Q	**Staff Name: Dr. A. Khadira Sereen**

Course Name: Microbiology Practicals

Topics to be covered	No. of Hours
Cleaning of glass wares	3
Sterilization techniques	3
General Preparation of Media	3
Isolation of microbes - Serial dilution method	3
Pour plate method	3
Spread plate method	3
Streak plate method	3
Enumeration of *E. coli* in milk and ice cream	3
Gram's staining	6
Motility - Hanging drop method	3
ESR - Erythrocyte Sedimentation rate	6
Water Quality analysis	6
Total	**45**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**
Course Code: 20UBCC6R	**Staff Name: A. Suriya**
Course Name: Immuno And Biochemical Techniques Practical	

Topics to be covered	No. of Hours
Introduction to Immune and Biochemical Practical	3
Estimation of RBC	6
Estimation of WBC	6
Paper chromatography	6
Thin Layer Chromatography	6
SDS PAGE	6
Agarose gel electrophoresis	6
Isolation of Genomic DNA	6
Total	**45**

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TEACHING PLAN
For the Academic Year 2024-25(EVEN SEMESTER)

Department: Biochemistry	**Programme: B.Sc**
Course Code:20UBCE62	**Staff Name: G. Dhivya Bharathi**
Course Name: Food Biotechnology	

Unit: I	
Topics to be covered	**No. of Hours**
Basic Concepts of Food - Origin of Food	3
Food types	3
Nutrition and Health	3
Food Adulteration	1
Health issues	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Chlorophyll	3
Carotenoids	2
Flavonoids	2
Betaalanines	1
Curcuminoids	2
Antioxidants, Fortification	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction and scope of food microbiology	4
Growth of Microorganisms - Food Contamination	4
Beneficial effects of Microorganisms.	4
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Insect Resistance	2
Virus Resistance	2
Herbicide Resistance	2
Bacterial Resistance and Stress (Biotic & Abiotic) Resistance.	1
Delayed Fruit Ripening	1
Edible Vaccines	1
Plant antibodies	1
Terminator seed Concepts.	2
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Food law - Quality assurance	4
Processing of food	4
Packaging of fresh and processed food.	4
Total	**12**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 20UBCS61	**Staff Name: M. Mariyam beevi**

Course Name: Pharmacology

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to pharmaceutical chemistry	**1**
Classification and Nomenclature of Drugs	**1**
Theory of Drug Action and factors affecting of Drug Action	**1**
Assay of Drug and Metabolism of Drugs.	**1**
Total	**4**

Unit: II	
Topics to be covered	**No. of Hours**
Drug receptor interaction, Binding forces in drug receptor interaction, Drug action not mediated by Receptor.	**2**
Acute and chronic effect of animals.	**3**
Phase I metabolism and Phase II metabolism	**3**
Total	**8**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction - Historical Background of Drugs and Update of drug discovered from natural	**1**

resources	
Lovastain	1
Acetaminophen	1
Ciprofloxain	1
Caffeine, Theophylline	1
Nicotine, Tamoxitein	1
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Allergy	1
Drug intolerance	1
Drug addiction	2
Drug abuse and their biology effect	2
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Metabolites and Antimetabolites	2
Drug Administration: route of administration, absorption and distribution of drugs	2
Factor influencing drug administration.	2
Total	**6**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 20UBCS62	**Staff Name: G.Dhivya Bharathi**

Course Name: General Aptitude

Unit: I	
Topics to be covered	**No. of Hours**
Structure of English components - Reading, Listening, Speaking and Writing	2
Narration, Idioms and Phrases	1
Sentence Correction, Arrangement and Completion	1
Synonyms and Antonyms	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Analogy, Alphabet Test, Series Completion	1
Blood Relation Test, Direction Sense Test	1
Arithmetical Reasoning, Venn diagram	1
Analogy, common errors, paragraph jumbles	2
Foreign words and phrases	1
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Average, Simplification, Percentage, Profit and Loss	2
Time and Work, Time and Distance, Simple Interest	2
Area, Clock and Calendar, Probability, LCM, HCM.	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Indus Valley civilization - Guptas, Delhi sultan, Mughals and Marathas age of Vijayanagaram and bahmanis	3
South Indian history culture and heritage of Tamil Nadu people.	3
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Syllogism, Statement and Arguments, Statement and Assumption	2
Statement and Conclusion, Punch Lines, Situation Reaction Test	2
Cause and Effect, Analytical Reasoning, Abbreviation current Affairs	2
Total	6

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: MICROBIOLOGY	**Programme: B.Sc**
Course Code: 20UMBC61	**Staff Name:Dr. P. SIVAMANIKANDAN**
Course Name: Industrial Microbiology	

Unit: I	
Topics to be covered	**No.of Hours**
Primary and screening techniques.	3
Strain development.	3
Preservation-mineral oil.	3
Preservation- Lyophilization.	3
Inoculum preparation and Inoculum build-up.	3
Total	**15**

Unit: II	
Topics to be covered	**No.of Hours**
Basic design parts and function.	3
Batch fermentor.	3
CSTF fermentor.	2
Tower fermentor.	2
Packed bed bioreactor.	2
Computer applications in fermentation technology.	3
Total	**15**

Unit: III	
Topics to be covered	**No.of Hours**
Raw materials.	3
Carbon sources- molasses, cheese whey, and sulfite waste liquor.	4
Lipid source-hydrocarbons and vegetable oils.	4

Nitrogen sources-corn steep liquor, soya bean meal.	4
Total	**15**

Unit: IV	
Topics to be covered	**No.of Hours**
Fermentation-Types.	2
Aerobic fermentation (Penicillin).	2
Aerobic fermentation (Vitamin B12).	3
Anaerobic (Ethanol).	3
Solid state (Gibberellic acid).	3
Organic acid – (Citric acid).	2
Total	**15**

Unit: V	
Topics to be covered	**No.of Hours**
Physico chemical and Biological Assays	5
Biosafety Levels – Type –I and II	5
Biosafety Levels – Type –III and IV	5
Total	**15**

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TEACHING PLAN

For the Academic Year2024-25(EVEN SEMESTER)

Department: MICROBIOLOGY	**Programme: B.Sc**
Course Code: 20UMBC62	**Staff Name: Ms. M. Musbira banu**

Course Name: Food Microbiology

Unit: I	
Topics to be covered	**No. of Hours**
Food as substrate for microbial growth	2
Intrinsic factors affecting growth	2
Extrinsic factors affecting growth	2
Survival of microorganism in foods	2
Microorganisms present in the vegetables, fruits, cereals, milk, egg, etc.	4
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Features of food spoilage like fruits, vegetables, milk and milk products.	2
Milk sterilization techniques.	2
Phosphatase test.	2
Spoilage of bread and cereals.	2
Spoilage of egg, meat, fish and poultry	2
Spoilage of fish and poultry.	2
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Removal of microorganisms	2
Low temperature, high temperature	3
Irradiation and chemical methods	3
Preservation of different kinds of foods meat, vegetables, cereals, poultry and its products.	4
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Food borne infection	4
Food borne intoxications	4
Detection of food-borne pathogens	4
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Production and preservation-pickles	3
Production and preservation- sauerkraut, idli	3
Production and preservation- wine, beer	3
Production and preservation- bread, cheese etc.	3
Total	12

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TEACHING PLAN

For the Academic Year 2024-25 EVEN SEMESTER

Department: Microbiology	**Programme: B.Sc**
Course Code: 20UMBC63	**Staff Name: Dr.RM. Lakshmanan**
Course Name: Enzymology & Enzyme Technology	

Unit: I	
Topics to be covered	**No. of Hours**
Nomenclature and Classification of enzymes (with examples)	3
General properties of enzymes (Optimum pH, Optimum Temp & Substrate Concentration).	3
Steady state kinetics and derivation of Michaelis-Menten, and their plots	3
Linweaver-Burk, equations	3
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Activation energy-Enzyme specificity	2
Extraction of enzymes	2
Purification of enzymes	2
Enzyme inhibitors	3
Multienzyme complexes (PDC,KDC,FAS Complexes)	3
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Mechanism of enzyme catalysis	2
Coenzymes-NAD, FAD	2
Metal ions in enzyme catalysis	2
Mechanism of enzyme – Lysozyme	3
Allosteric enzymes and feedback inhibition	3
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Immobilization of enzymes	2
Application of enzymes	2
Clinical diagnosis	2
Industrial applications	3
Enzymes in rDNA technology	3
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Nucleic acid enzymes	2
Ribozymes	2
DNA zymes	2
Enzyme deficiency and clinical manifestation	3
Enzymes and bioinformatics	3
Total	12

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Microbiology	**Programme: B. Sc., Microbiology**

Course Code:20UMBC6P	**Staff Name: Dr. A Sajith Ahamed & Ms R. Priya**

Course Name: Agriculture and Environmental Microbiology Practical

Unit: I	
Topics to be covered	**No. of Hours**
Isolation and characterization of soil microbes of blood group and typing	6
Serial dilution method for enumeration of soil bacteria	6
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Identification of microbial pathogen in paddy and vegetable crops (field study)	6
Isolation of symbiotic nitrogen fixing bacteria from root nodules - *Rhizobium*	6
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Isolation of free-living nitrogen fixing bacteria from rhizosphere - *Azotobacter*	6
Isolation of phosphate solubilizing bacteria – *Pseudomonas*	6
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Examination of mycorrhizae – VAM	12
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Potability testing of water (MPN test)	12
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: Microbiology	**Programme: B.Sc**

Course Code: 20UMBC6Q	**Staff Name: Dr. RM.Lakshmanan & Dr.P.Sivamanikandan**

Course Name: Recombinant DNA technology and Industrial Microbiology Practical

Unit: I	
Topics to be covered	**No. of Hours**
Isolation of chromosomal DNA from microbial cells	**4**
Determination of purity and quantification of DNA	**4**
Separation of DNA by agarose gel electrophoresis	**4**
Total	**12**

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Unit: II	
Topics to be covered	**No.of Hours**
Restriction Digestion Analysis	**6**
Ligation	**6**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Transformation of *E. coli* using plasmid (pUC18/19)	**6**
Blue-white Selection of transformants	**6**
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Crowded plate technique for antibiotics producing microbes	**6**
Isolation of amylase and protease producing bacteria and fungi	**6**
Total	**12**

Unit: V	
Topics to be covered	**No.of Hours**
Alcohol (ethanol) production	6
Immobilization of yeast	6
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: Microbiology	**Programme: B.Sc**
Course Code: 20UMBC6R	**Staff Name: Dr. RM. Lakshmanan & P.Sivamanikandan**

Course Name: Medical Microbiology and Food Microbiology Practical

Unit: I	
Topics to be covered	**No. of Hours**
Collection and processing of medical samples	**6**
Isolation and identification of *Staphylococcus*	**6**
Total	**12**

Unit: II	
Topics to be covered	**No.of Hours**
Isolation and identification of *Streptococcus*	**6**
Antibiotic susceptibility test: disc diffusion method	**6**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Measurement of minimal inhibitory concentration (MIC)	**6**
Measurement of minimal lethal concentration (MLC)	**6**
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Enumeration of microbial population in food samples meat	**4**
Enumeration of microbial population in food samples pickles	**4**
Enumeration of microbial population in food samples ice-cream	**4**

Total	**12**

Unit: V	
Topics to be covered	**No.of Hours**
Enumeration of microbial population in food samples fruit juices	6
Milk quality test-MBRT	6
Total	**12**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Microbiology	**Programme: B. Sc., Microbiology**

Course Code:20UMBS62	**Staff Name: Dr. A Sajith Ahamed**

Course Name: Microbiology for Competitive Examination Paper – II

Unit: I	
Topics to be covered	**No. of Hours**
Basics of Immunology	2
Principles of innate and acquired immunity	2
Cellsandorgansoftheimmune system	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Bacterial diseases	2
Viral diseases	2
Fungal and protozoan diseases	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Multiple Choice Questions from Industrial Microbiology	3
Strain development,preservation-mineral oil and lyophilizationl. Inoculum preparation, Inoculum build-up.	3
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**

Aptitude questions for Multiple choice part 1	3
Aptitude questions for Multiple choice part 2	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Multiple choice question for Reasoning part 1	3
Multiple choice question for Reasoning part 2	3
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: MICROBIOLOGY	**Programme:** B.Sc

Course Code: 20UMBS61	**Staff Name : Ms. M. Musbira banu.**

Course Name: Dairy Technology

Unit:I	
Topics to be covered	**No. of Hours**
Physiochemical properties and microbiology of milk	2
Factors affecting composition of milk.	2
food and nutritive value of milk	2
Total	6

Unit:II	
Topics to be covered	**No. of Hours**
Homogenized milk and flavoured milk	2
Fermented milk	2
Flavour defects in milk, their causes and prevention.	2
Total	6

Unit:III	
Topics to be covered	**No. of Hours**
Milk drying system and cold treatment	2
Drum drying system	2
Spray drying system	2
Total	6

Unit:IV	
Topics to be covered	**No. of Hours**
Types of Cheese and Preparation of Swiss cheese	3
Cheddar cheese-defects in cheese causes and prevention.	3
Total	6

Unit:V	
Topics to be covered	**No. of Hours**
Indian dairy products-Kheer, Khoa, Panir, Ghee- preparation and preservation	3
Quality analysis of dairy products-various agencies in Quality managementFDA,WHO,AGMARK,ISI-HACCP,GMP	3
Total	6

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: MICROBIOLOGY	**Programme: B.Sc**

Course Code:20UMBE61	**Staff Name: Dr. A. Sajith Ahamed**

Course Name: Recombinant DNA technology

Unit: I	
Topics to be covered	**No. of Hours**
General Strategies of cloning	2
Gene cloning enzymes: Restriction enzymes and types	2
DNA ligase, Taq polymerase & Klenow	2
Terminal nucleotide transferase & Alkaline phosphatase.	3
Linkers and Adopters	3
Total	**12hours**

Unit: II	
Topics to be covered	**No. of Hours**
Vectors- Plasmids	2
Constructed plasmids, pBR322, pUC18	2
Lambda phage derived vectors	2
Cosmids and their applications	3
BAC and YAC as vectors.	3
Total	**12hours**

Unit: III	
Topics to be covered	**No. of Hours**
Methods of gene transfer : Transformation & Transduction	3
Methods of gene transfer: Transfection & Microprojectile bombardment	3
Southern and Northern blotting techniques	3
Western blotting technique	3
Total	**12 hours**

Unit: IV	
Topics to be covered	**No. of Hours**
Transgenic animals: transgenic mice and sheep	2
Agrobacterium mediated gene transfer mechanism	2
Markers and Reporter genes and their applications	2
Transgenic plants – insecticide resistance, herbicide and drought tolerance	3
Production of Insulin- Growth hormone (STH)- Interferons, etc.	3
Total	**12hours**

Unit: V	
Topics to be covered	**No. of Hours**
Intellectual property rights	3
Patent,vforms of patents, process of patenting	3
Indian and international agencies involved in patenting	3
Patenting biological materials	3
Total	**12 hours**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Microbiology	**Programme: B. Sc., Microbiology**

Course Code:23UMBCC41	**Staff Name: Dr. A. Sajith Ahamed**

Course Name: Immunology and Immunotechnology

Unit: I	
Topics to be covered	**No. of Hours**
Primary lymphoid organs, secondary lymphoid organs, and lymphoid tissues; T – cell and B – cell membrane bound receptors – apoptosis	5
T - cell processing, presentation and regulation; T –cell subpopulation, properties, functions and T – cell suppression	5
Physiology of immune response- innate, humoral and cell mediated immunity; Immunohematology	5
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Antigens - Properties of haptens, epitopes, adjuvants, and cross reactivity; Antibodies- structure, properties, classes	5
Antigen and Antibody Reactions: precipitation, agglutination, complement fixation, opsonization, neutralization	5
Vaccines – active and passive immunization; Classification of vaccines; Other approaches to new vaccines	3
Types of vaccine - antibacterial, antiviral; Vaccination schedule.	2
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Immunoassay and Immunotechniques - Preparation and standardization of bacterial antigens; Raising of monoclonal and polyclonal antibodies; Purification of antibodies.	7
Immunotechniques - RIA, RAST, ELISA	5

Immuno fluorescence techniques and Flow cytometry	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Transplantation and TumorImmunology - MHC Antigens - structure and function; HLA system - Regulation and response to immune system	4
Mechanism of graft acceptance and rejection, HLA typing	5
Tumor specific antigens, Immune response to tumors	3
Immune diagnosis, cancer immune therapy.	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Immunological disorders and diseases - Hypersensitivity reactions (Type I, and II)	3
Immunological disorders and diseases - Hypersensitivity reactions (III and IV)	3
Auto immune disorders and diseases: organ specific and non-organ specific	3
Acquired immunodeficiency syndrome	3
Auto immune disorders and diseases: organ specific and non-organ specific	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: Microbiology	**Programme: B. Sc., Microbiology**

Course Code:23UMBCC4P	**Staff Name: Dr.RM. Lakshmanan & Dr.A. Sajith Ahamed**

Course Name: IMMUNOLOGY AND IMMUNO TECHNOLOGY PRACTICAL

Unit: I	
Topics to be covered	**No. of Hours**
Identification of blood group and typing	4
Coomb's test	4
TPHA	4
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
T cell identification (Demonstration)	3
Latex Agglutination reactions- RF	3
Latex Agglutination reactions- ASO	3
Latex Agglutination reactions- CRP	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Ouchterlony's Double Diffusion Method (antigen pattern)	6
Single Radial Immuno Diffusion Method	6
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Electrophoresis - Serum	4
Electrophoresis - Counter	4
Electrophoresis - Immuno	4
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Separation of Lymphocytes by gradient centrifugation method	6
ELISA: Hepatitis/ HIV	6
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Microbiology	**Programme: B. Sc., Microbiology**

Course Code:23UZYGE4P	**Staff Name: Ms M.MUSBIRA BANU & Ms R.PRIYA**

Course Name: ALLIED ZOOLOGY PRACTICAL

Unit: I	
Topics to be covered	**No. of Hours**
Earthworm: Nervoussystem, Cockroach: Digestive system, Frog - arterial system , venous system	4
Earth worm: Bodysetae, Honeybee: Mouth parts, Pila: Radula ,Shark:Placoid scales	4
Spotters : Protozoa: Paramecium,entamoeba, Porifera: Simple sponge, Sponge-Gemmule, Sponge –Spicules, Colelenterata : Obelia colony, Sea anemone.	4
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Helminthes: Liverfluke, Ascaries, Annelida: Earthworm, Leech. Arthropoda : Prawn, Peripatus, Mollusca: Pila, Sepia	3
Echinodermata: Starfish, Sea - cucumber	3
Prochordata: Amphioxus, Balanoglossus, Ascidian. Agnatha : Petromyzon.	3
Pisces: Hippocampus, Tilapia. Amphibian: Bufo, Salamander	3
Total	**12**

Unit: III	
Topics to be covered	**No .of Hours**
Repitila: Poisonous Snake: Cobra, Krait and Viper,Non Poisonous Snakes: Dryophis And Ptyas	4
Lizards- Chaemeleon and Draco, Aves: Pectoral and Pelvic girdle of Pigeon, Archaeopteryx.	4

Mamals:Bat, Loris.	4
Total	**12**

Unit: IV	
Topics to be covered	**No .of Hours**
List of Practical: Simple staining of non-pathogenic bacteria and observe the morphological structure, Preparation of onion root tipando observe the Mitotic stages.	4
Mounting of Squmous epithelial cell. Qualitative test for ammonia, urea, uricacid	4
Qualitative test for Carbohydrates, protein, and lipid	4
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Antigen- antibody reaction (in blood grouping)	4
Study the Mendelian traits in man	4
Human blood grouping	4
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: MICROBIOLOGY	**Programme: B.Sc**
Course Code: 23UMBSE41	**Staff Name: Ms. M. Musbirabanu**
Course Name: Vaccine technology	

Unit: I	
Topics to be covered	**No. of Hours**
History of vaccination, Active and passive immunization;	2
requirements for induction of immunity, Epitopes, linear and conformational epitopes, characterization and location of APC, MHC and immunogenicity,	2
characterization and location of APC, MHC and immunogenicity,	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Viral/bacterial/parasite vaccine differences, methods of vaccine preparation –	1
Live, killed, attenuated, sub unit vaccines; Licensed vaccines, Viral Vaccine - Poliovirus vaccine-inactivated & Live, Rabies vaccines,	2
Hepatitis A & B vaccines, Bacterial Vaccine - Anthrax vaccines, Cholera vaccines, Diphtheria toxoid,	2
Parasitic vaccine - Malaria Vaccine.	1
Total	6

Unit: III	
Topics to be covered	**No .of Hours**
Vaccine technology- Role and properties of adjuvants	2
Recombinant DNA and protein-based vaccines, plant-based vaccines, reverse vaccinology.	2
Peptide vaccines, conjugate vaccines. Recent advances in Malaria, Tuberculosis, HIV.	2
Total	6

Unit: IV	
Topics to be covered	**No.ofHours**
Fundamental research to rational vaccine design.	2
Antigen identification and delivery, T-Cell expression cloning for identification of vaccine targets for intracellular pathogens,.	2
Rationale vaccine design based on clinical requirements: Scope of future vaccine strategies	2
Total	6

Unit:V	
Topics to be covered	**No. of Hours**
Vaccine additives and manufacturing residuals,	2
Regulation and testing of vaccines, Regulation of vaccines in developing countries.	2
Quality control and regulations in vaccine research, Animal testing, Rational design to clinical trials, Large scale production, Commercialization. Vaccine safety ethics and Legal issues.	2
Total	6

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Department of Micro Biology
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TEACHING PLAN

For the Academic Year 2024-25 EVEN SEMESTER

Department: Microbiology	**Programme: B.Sc**

Course Code: 23UMBSE42	**Staff Name: Dr.RM. Lakshmanan**

Course Name: Apiculture

Unit: I	
Topics to be covered	**No. of Hours**
Biology of Bees: Honeybee	1
Systematic position – Species of Honey bees	1
Life history of Honey bee	2
Behaviour – swarming – Pheromone	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Social life in Bees: Bee colony	1
Castes – natural colonies and their yield	1
Types of bee hives	2
Structure – location, care and management	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Bee Rearing: Apiary – Care and Management	1
Artificial bee hives – types	1
Construction of space frames	1
Selection of sites – Handling – Maintenance	1
Instruments employed in Apiary – Extraction instruments	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Bee Economy: Honey – Composition – uses	1
Bee wax and its uses – yield in national and international market	1
Diseases of honey bees and their control methods	2
Economics of bee culture	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Entrepreneurship: venture	1
Preparing proposals for financial assistance and funding agencies	1
Bee Keeping Industry – Recent Efforts	2
Modern Methods in employing artificial Beehives for cross pollination in horticultural gardens	2
Total	6

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TEACHINGPLAN

For the Academic Year 2024-25 (ODD SEMESTER)

Department: Microbiology	**Programme: B. Sc., Microbiology**

Course Code: 23UZYGE41	**Staff Name: Mrs. R. Priya**

Course Name: Allied Zoology - II

Unit: I	
Topics to be covered	**No. of Hours**
Cell Biology: Animal cell – Structure and functions of cell membrane	3
Animal cell – Structure and functions of Mitochondria and Endoplasmic reticulum	3
Microbiology: Structure of prokaryotic cell (E.Coli), T4 phage	2
Morphology of Bacteria – coccus, Bacillus	2
Morphology of Bacteria – Spirochetes and comma shaped bacteria	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Developmental biology-Structure of sperm and ovum in Frog - Fertilization	3
Cleavage, Placentation in Mammals – Classification and Functions ,Test tube baby	3
Biotechnology- Transgenic animals	3
DNA finger printing and applications	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Genetics: Mendel's Laws – Mono and Di-hybrid crosses	3
Linkage and crossing over – Sex determination in Humans,	3
Molecular Biology: Structure and function of DNA, tRNA	3
DNA replication-Protein synthesis	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Biochemistry and Animal Physiology – Classification of carbohydrates, protein and lipids with examples	3
Mechanism of respiration and Transport of gases	3
Brief account on structure of Nephron	3
Brief account on structure of Neuron	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Immunology: Types of immunity (Innate and Acquired immunity)	3
Lymphoid organs (Primary and Secondary) - immunoglobulin	3
Types and structure – Antigen –antibody reaction	3
Evolution: Lamarckism and Darwin's theory – Human evolutions	3
Total	**12**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: MICROBIOLOGY	**Programme: B.Sc**

Course Code: 23UMBCC21	**Staff Name: Dr. P. SIVAMANIKANDAN**

Course Name: Microbial Physiology and Metabolism

Unit: I - Physiology of microbial growth:	
Topics to be covered	**No. of Hours**
Batch–continuous cultures	**4**
Synchronous culture.	**4**
Growth Curve and measurement method (turbidity, biomass and cell count).	**4**
Control of microbial growth.	**3**
Total	**15**

Unit: II- Nutrition requirements	
Topics to be covered	**No. of Hours**
Photoautotroph, Photoorganotrophs.	**4**
Chemolithotrophs (Ammonia, Nitrite, Sulfur, Hydrogen, Iron oxidizing Bacteria), Chemoorganotrophs.	**4**
Nutrition transport mechanisms–Passive diffusion and Active transport.	**4**
Factors affecting microbial growth.	**3**
Total	**15**

Unit: III - An overview of Metabolism	
Topics to be covered	**No.of Hours**
Embden Meyerhof Pathway	3
Entner-Doudoroff Pathway, Pentose Phosphate Pathway,	3
Tricarboxylic Acid Cycle.	3
Electron Transport Chain and Oxidative Phosphorylation. ATPsynthesis	3
Fermentation-Homolactic Fermentation, Heterolactic fermentation, Mixed Acid Fermentation, Butanediol Fermentation.	3
Total	**15**

Unit: IV - Photosynthesis	
Topics to be covered	**No.of Hours**
An Overview of chloroplast structure.	4
Photosynthetic Pigments.	4
Light Reaction-Cyclic and non-cyclic Photophosphorylation.	4
Dark Reaction-Calvin Cycle.	3
Total	**15**

Unit: V- Microorganism Reproduction	
Topics to be covered	**No.of Hours**
Bacterial reproduction - Binary fission, Budding,	3
Reproduction through conidia, cyst formation, endospore formation.	3
Fungi asexual and sexual reproduction	3
Microalgae reproduction. Asexual and sexual	3
Reproduction of protozoa.	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: Microbiology	**Programme: B.Sc**

Course Code: 23UMBCC2P	**Staff Name: Dr. P. Sivamanikandan & Ms M. Musbira banu**

Course Name: Microbial Physiology and Metabolism Practical

Unit: I	
Topics to be covered	**No. of Hours**
Motility demonstration: hanging drop, wet mount preparation,	**3**
Motility demonstration - semi-solid agar, Craigie's tube method.	**3**
Staining techniques: Smear preparation, permanent specimen preparation,	**2**
Staining techniques - Capsular,	**2**
Staining techniques -Acid-fast staining	**2**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Direct counts–Direct cell count (Petroff-Hausser counting chamber)	**3**
Turbidometry.	**2**
Viable count - pour plate.	**3**
Spread plate.	**2**
Bacterial growth curve.	**2**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Anaerobic culture methods.	**4**
Antibiotic sensitivity testing: Disc diffusion test-	**4**
Quality control with standard strains.	**4**
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Morphological variations in algae, fungi and protozoa.	**3**
Morphological variations in protozoa	**3**
Micrometry: Demonstration of the size of yeast, fungal filaments and protozoa.	**3**
Micrometry: Demonstration of the size of protozoa	**3**
Total	**12**

Unit: V	
Topics to be covered	**No.of Hours**
IMViC test	4
H2S,TSI,Oxidase,catalase,	3
Urease test and Carbohydrate fermentation test.	3
Maintenance of pure culture, paraffin method, stab culture, maintenance of mold culture.	2
Total	**12**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Microbiology	**Programme: I B.Sc**
Course Code: 23UMBSE22	**Staff Name: R. Priya**
Course Name: Sericulture	

Unit: I	
Topics to be covered	**No. of Hours**
General introduction to sericulture, its distribution in India	2
Botanical distribution and taxonomical characters of mulberry varieties and species	1
Biology of Mulberry plant and Mulberry crop	1
Mulberry cultivation	1
Mulberry protection	1
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Silk worm biology	2
Morphology of silkworm	1
Life cycle of silk worm –egg, larva	1
silk worm –pupa, moth	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Silk worm pathology: Introduction to parasitism, commensalism, Symbiosis	2
Parasite relationship – Mulberry silkworm	1
Diseases: Introduction, types, Pebrine, Grasserie, Muscardine, Flacherie Symptoms and Pathogens, Mode of Infection, prevention and control	1
Non-mulberry silkworm diseases: Pebrine, Bacterial and viral diseases	1
Brief account of pest and predators of silkworms, Natural of damage and control measures	1
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Rearing of silk worm	2
Cocoon assessment	1
Processing technologies	1
Value added products of mulberry	1
Value added products of silkworm	1
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Entrepreneurship and rural development in sericulture: Planning for EDP	2
Project formulation, Marketing	1
Insectary facilities and equipments: Location, Building specification	1
Air conditioning and environmental control	1
Furnishings and equipment, sanitation and equipment, subsidiary facilities	1
Total	6

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: MICROBIOLOGY	**Programme: B.Sc**
Course Code:23UMBSE21	**Staff Name: Ms.M. Musbira banu**
Course Name: Nutrition & Health Hygiene	

Unit: I	
Topics to be covered	**No. of Hours**
Nutrition-definition, importance, Good nutrition, and malnutrition; Balanced Diet: Basics of Meal Planning. Carbohydrates, Lipids, Proteins and Vitamins–functions, dietary sources, effects of deficiency.	2
Macro and micro minerals–functions, effects of deficiency ;food sources of Calcium, Potassium, and Sodium;	2
Food sources of Iron, Iodine, and Zinc. Importance of water–functions, sources, requirements and effects of Deficiency	2
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Nutrition for Life Cycle: Balanced diet-Normal	2
Pregnant, lactating women, Infancy, young children Adolescents, Adults, and the Elderly;	2
Diet Chart; Nutritive value of Indian foods.	2
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Improper diets: Definition, Identification, Signs and Symptoms-malnutrition, under-nutrition,	2
Over-nutrition, Protein Energy Malnutrition, obesity; Nutritional Disease	2
Disorder-hypertension,diabetes, anemia, osteomalacia, cardio vascular disease.	2
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Health-Determinants of health, Key Health Indicators,Environment health & Public health;	2
Health-Education: Principles and Strategies. Health Policy &HealthOrganizations:	2
Health Indicators andNational Health Policy of Govt. of India; Functioning of various nutrition and Health organizations in India.	2
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Hygiene–Definition; Personal, Community, Medical and Culinary Hygiene; WASH (Water, Sanitation and Hygiene) programme.	2
Rural Community Health: Village health sanitation & Nutritional committee.	2
Community & Personal Hygiene: Environmental Sanitationand Sanitation inPublic places	2
Total	6

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Microbiology	**Programme: B. Sc., Microbiology**

Course Code: 23UGEVS41	**Staff Name: Mrs. R. Priya**

Course Name: Environmental studies

Unit: I	
Topics to be covered	**No. of Hours**
Earth and its environment: a)Earth formation and evolution of earth over time	2
Structure of earth and its components - Atmosphere, Lithosphere	1
Hydrosphere and Biosphere	1
b)Resource - renewable	1
Non renewable resources	1
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Ecology and ecosystem concepts : a)Ecology - definition	2
Ecosystem: Definition - structure and function - energy flow	1
Food chain - Food web - one example for an ecosystem	1
Biogeochemical cycles - Nitrogen, carbon, Phosphorous and water	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Biodiversity of India: a) Introduction - definition - values of Biodiversity	2
Threat to Biodiversity - Conservation of Biodiversity	1
b)Biodiversity of India - as a mega diversity nation –bio geographical distribution	1
Hot spots of biodiversity- National Bioversity conservation boards and its function	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Pollution and global issues:a)Definition, causes,effects and control measures of Air, Water	2
Definition,causes, effects and control measures of soil,Marine, Noice	2
Definition,causes, effects and control measures of Thermal and Nuclear pollution	1
b)Global issues: Global Warming and Ozone layer and depletion	1
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Development and Disaster Management:a) sustainable development-Suatainable Agriculture - organic farming	2
Irrigation - Water harvesting and waste recycling - cyber waste and management	1
b)Disaster Management - Flood and Drought - Earthquake and Tsunami - Landslides and Avalances	2
Cyclones and Hurricanes - Precautions, Warnings, rescue and Rehabilitation	1
Total	**6**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**

Course Code:23UCTCC21	**Staff Name: PEERMOHAMED.A**

Course Name: JAVA PROGRAMMING and DATA STRUCTURES

Unit: I	
Topics to be covered	**No.of Hours**
Data Structures: Definition- Time & Space Complexity,	**1**
Arrays, Linear list: Singly linked list implementation,	**1**
STACKS and QUEUES Operations	**1**
Array and linked representations of stack, stack applications	**2**
Queues: operations on queues, array and linked representations. Circular Queue: operations	**2**
Trees: Definitions and Concepts- Representation of binary tree, Binary tree traversals.	**2**
Fundamentals of Object Oriented Programming :Introduction – Object Oriented Paradigm	**2**
Concepts of Object–Oriented Programming– Benefits of OOP	**1**
Java History –Java Features-Differs from C and C++	**1**
Overview of Java Language – Java Program Structure	**1**
Tokens–Java Statements–Java Virtual Machine–Command Line Arguments	**1**
Total	**15**

Unit: II	
Topics to be covered	**No.of Hours**
Constants	**1**
Variables	**1**
Data Types	**1**
Operators	**1**
Expressions	**1**
Decision making	**2**
Looping	**2**

Arrays	2
Strings	1
Interfaces	2
classes	1
Total	**15**

Unit: III	
Topics to be covered	**No.of Hours**
Defining a class	1
Method Declaration	1
Constructors	2
Method Overloading	2
Static Members	1
Nesting of methods	1
Inheritance	2
Overriding	1
Final variables and methods	2
Abstract methods and classes	2
Total	**15**

Unit: IV	
Topics to be covered	**No.of Hours**
Multiple Inheritance	1
Defining Interfaces	1
Extending Interfaces	1
Implementing Interfaces	1
Packages - Creating Packages	1
Accessing Packages	1
Using a Package	1
Managing Errors and Exceptions	1
Multithreaded Programming	1
Layout Managers	1
JDBC	2
Java Servlet - Servlet Environment Role	1
Servlet API	1
Servlet Life Cycle	1

Total	**15**

Unit: V	
Topics to be covered	**No.of Hours**
Layout Managers	**1**
JDBC	**1**
Java Servlet	**1**
Servlet Environment Role	**2**
Servlet API	**2**
Servlet Life Cycle	**2**
Servlet Context	**2**
HTTP Support	**2**
HTML to Servlet Communication	**2**
Total	**15**

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Department of Information Technology
H.K.R.H. College
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**
Course Code:23UCTCC2P	**Staff Name: PEERMOHAMED.A/J.THASLEEN FATHIMA/Z.ABDUL BASITH**

Course Name: JAVA PROGRAMMING & DATA STRUCTURES PRACTICAL

Unit: I	
Topics to be covered	**No.of Hours**
Basic Programs	**5**
Arrays	**5**
Strings	**5**
Total	**15**

Unit: II	
Topics to be covered	**No.of Hours**
Array List, Hash Set and Vector collection classes	**5**
Classes and Objects	**5**
Interfaces	**5**
Total	**15**

Unit: III	
Topics to be covered	**No.of Hours**
Inheritance	**5**
Packages	**5**
Exception Handling	**5**
Total	**15**

Unit: IV	
Topics to be covered	**No.of Hours**
Threads	**5**

LinkedList	5
Stacks	5
Total	**15**

Unit: V	
Topics to be covered	**No.of Hours**
Queue	5
Sorting	5
Binary Tree Representation	5
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN-SEMESTER)

Department: INFORMATION TECHNOLOGY	**Programme: B.Sc.(IT).,**
Course Code: 23UCTGE21	**Staff Name: R.Neshana**
Course Name: DISCRETE MATHEMATICS-I	

Unit: I	
Topics to be covered	**No. of Hours**
The Foundations: Logic and Proofs: Propositional logic	2
Applications of Propositional logic	3
Propositional equivalences	3
Predicates and Quantifiers	2
Rules of inference.	2
Total	12
Unit: II	
Topics to be covered	**No. of Hours**
Relations	2
Relations and their properties	2
Representing relations	2
Closures of relations	3
Partial orderings	3
Total	12
Unit: III	
Topics to be covered	**No. of Hours**
Counting: The basic of counting	2
The pigeonhole principle	2
Permutation and Combinations	2
Applications of recurrence relations	2
Solving recurrence relations	2
Divide and Conquer algorithms and recurrence relations	2
Total	12
Unit: IV	
Topics to be covered	**No. of Hours**
Graphs	2
Graphs models	2
Graph terminology and special types of graphs	2
Representing graphs and Graph isomorphism	2
Connectivity	2
Shortest path problems	2
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Matrices	**2**
Operations	**2**
Inverse	**2**
Rank of a matrix	**2**
Solution of simultaneous linear equations	**2**
Eigen values and Eigen Vectors.	**2**
Total	**12**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**
Course Code:23UCTSE21	**Staff Name: K.A.Sheik Fareed**
Course Name: Introduction to HTML	

Unit: I	
Topics to be covered	**No.of Hours**
Introduction :Web Basics: What is Internet	**3**
Web browsers–What is Webpage.HTML Basics: Understanding tags.	**3**
Total	**6**

Unit: II	
Topics to be covered	**No.of Hours**
Tags for Document structure(HTML, Head, Body Tag)	**2**
Block level text elements: Headings paragraph(<P> tag)	**2**
Font style elements:(bold, italic, font, small, strong, strike, big tags)	**2**
Total	**6**

Unit: III	
Topics to be covered	**No.of Hours**
Lists: Types of lists: Ordered, Unordered– Nesting Lists	**3**
Other tags: Marquee, HR, BR- Using Images – Creating Hyperlinks.	**3**
Total	**6**

Unit: IV	
Topics to be covered	**No.of Hours**
Tables: Creating basic Table, Table elements, Caption	**3**
Table and cell alignment– Rowspan, Colspan – Cell padding.	**3**
Total	**6**

Unit: V	
Topics to be covered	**No.of Hours**
Frames: Frameset –Targeted Links–No frame.	3
Forms: Input, Text area, Select, Option	3
Total	6

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Head of The Department
Department of Information Technology
H.K.R.H. College
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TEACHINGPLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: INFORMATION TECHNOLOGY	Programme: B.Sc., IT
Course Code: 23UCTSE2P	Staff Name: A.K.JENARTHANAN R.KARTHIGAI CHELVI
Course Name: Office Automation Lab	

Unit I	
MS – WORD Topics to be Covered	No. of Hours
Editing and proof Document	2
Changing a Look of a Text	2
Total	4
Unit II	
Topics to be Covered	No. of Hours
Presenting Information in Columns and table	2
Working with graphics, Symbols and Equation	2
Total	4
Unit III	
Topics to be Covered	No. of Hours
Working with diagram and charts	2
Changing look of Document	2
Total	4
Unit IV	
MS –Power Point Topics to be Covered	No. of Hours
Starting a New Presentation	3
Working with Slide text	3
Adjusting the Lay Out, Order and Look of Slides	3
Total	9
Unit V	
Topics to be Covered	No. of Hours
Adding tables, Charts, and Diagrams	3
Adding Animation, Sound and Movies	3
Reviewing and Sharing a Presentation	3
Total	9

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TEACHING PLAN

For the Academic Year 2024 - 25 (EVEN SEMESTER)

Department: Information Technology	**Programme: II - B.Sc. Information Technology**

Course Code:23UCTCC41	**Staff Name: Mr. Z. ABDUL BASITH**

Course Name: .NET Programming

Unit: I	
Topics to be covered	**No of Hours**
The Creation of C#	**2**
C# Relates to the .Net Framework	**1**
Common Language Runtime	**1**
Managed vs unmanaged code	**1**
An Overview of C#: Object-Oriented Programming	**1**
First Simple Program	**2**
Handling Syntax errors	**1**
Using code blocks-semicolon, positioning and Indentation	**2**
The C# Keywords-Identifiers	**1**
The .Net Framework Class Library	**1**
Data Types, Literals and Variables	**1**
Operator	**1**
Total	**15**

Unit: II	
Topics to be covered	**No of Hours**
Program Control Statements	**1**
If Statement	**1**
switch Statement	**1**
For Loop	**1**
While loop do-while loop	**1**

for each loop	1
using break to exit a loop using continue	1
Goto	1
Introducing Classes and objects: Class Fundamentals	2
objects creation	1
Methods	1
constructors	1
Garbage Collection and Destructors	1
Exception Handling	2
Total	**16**

Unit: III	
Topics to be covered	**No of Hours**
Arrays and Strings	1
Arrays	1
Multidimensional Arrays	1
Jagged Arrays for each loop Strings	2
Methods and classes: Method overloading	2
Main Method-Recursion	1
static Classes Delegates, Events and Lambda Expressions	1
Delegates	1
Lambda Expressions	2
LINQ	1
Total	**13**

Unit: IV	
Topics to be covered	**No of Hours**
Developing ASP.NET Applications	1
Visual Studio: Creating Websites	2
The Anatomy of a Web Form	1
Web Form Fundamentals: Converting HTML Page to an ASP.Net Page	2
Page Class	1
Web Controls	1
State Management: View State	2
Transferring Information between Pages	1

Cookies	1
Session State	1
Application State	1
Total	**14**

Unit: V	
Topics to be covered	**No of Hours**
Validation Controls	1
AdRotator Control	1
Working with Data: ADO.NET Fundamentals	2
Direct Data Access	2
Disconnected Data Access	1
Data Binding: Data Binding with ADO.NET	2
Data Source Controls	1
The Data Controls: The GridView	1
Formatting the GridView	1
Selecting GridView Row	2
Editing, Sorting and Paging the GridView	2
Generating Crystal Reports	1
Total	**17**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**
Course Code: 23UCTCC4P	**Staff Name: G. Manonmani ,R. Karthigai Chelvi A. Peer Mohamed, Z. Abdul Basith**

Course Name: .NET Programming Lab

Unit: I	
Topics to be covered	**No. of Hours**
C# Basics	9
Looping Constructs	9
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Arrays & Jagged Array	9
Strings	9
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Classes and Objects	8
Method overloading	8
Total	**16**

Unit: IV	
Topics to be covered	**No. of Hours**
Delegates	9
LINQ	6
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Lambda Expressions	8
Total	**8**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**

Course Code:23UCTGE41	**Staff Name: Dr.J.Thasleen Fathima** **R. Karthigai Chelvi**

Course Name: Optimization Techniques

Unit: I	
Topics to be covered	**No. of Hours**
Introduction – Nature & Features of OR	1
Scientific Method in OR – Modeling in OR – General solution methods for OR models	1
Methodology of OR -- OR & Decision Making –	2
Applications in OR	1
Linear Programming Formulations & Graphical Solution of Two Variables	2
Canonical & Standard Forms of LPP.	2
Total	**9**

Unit: II	
Topics to be covered	**No. of Hours**
Introduction – Fundamental Properties of Solutions	2
The Computational procedure	3
Use of Artificial Variables	2
Degeneracy in Linear Programming	2
Total	**9**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction – LP Formulation of the Transportation Problem	1
Existence of Solution in Transportation Problem – Duality in Transportation Problem – The Transportation Table	1
Loops in Transportation Tables – Triangular Basis in Transportation Problem – Solution of a Transportation Problem	1
Finding an Initial Basic Feasible Solution – Test for Optimality – Economic Interpretation of u_j's and v_j's	1
Degeneracy in Transportation Problem, Unbalanced Transportation Problem	2
Mathematical Formulation of the Problem – Solution Methods of Assignment Problem.	2
Special Cases in Assignment Problem.	1
Total	**9**

Unit: IV	
Topics to be covered	**No. of Hours**
Processing of n Jobs through two Machines	3
Processing of n Jobs through 3 Machines	3
Processing of two Jobs through m Machines.	3
Total	**9**

Unit: V	
Topics to be covered	**No. of Hours**
Introduction – Network: Basic components – Logical sequencing	1
Rules of Network construction – Concurrent Activities	2
Critical Path Analysis	2
Probability Considerations in PERT	2
Distinction between PERT and CPM	2
Total	**9**

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	Programme: B.Sc. Information Technology

Course Code:23UCTSE4P	Staff Name: Mr. C.Sheik Mydeen & Mr. K.A.Sheik Fareed

Course Name : Web Designing Lab

Unit: I	
Topics to be covered	**No.of Hours**
Design a timetable using table tag and various font styles	3
Develop a HTML program using DIV tag and SPAN tag	3
Total	6

Unit: II	
Topics to be covered	**No.of Hours**
Develop a HTML program using order list and unordered list	3
Develop a Resume Registration form using suitable conrols	3
Total	6

Unit: III	
Topics to be covered	**No.of Hours**
Write a HTML program to demonstrate Internal and External cascade style sheet	6
Total	6

Unit: IV	
Topics to be covered	**No.of Hours**
Write a VBScript program for Fibonacci using FOR loop	3
Write a VBScript program t demonstrate the checkbook and list box	3
Total	6

Unit: V	
Topics to be covered	**No.of Hours**
Write a JavaScript program to compute the sum of an array of Integers	**3**
Write a JavaScript program to perform multiplication & division of two numbers by getting from user	**3**
Total	**6**

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Department: INFORMATION TECHNOLOGY	**Programme: B.Sc., IT**
Course Code: 23UCTSE41	**Staff Name: A.K.JENARTHANAN**
Course Name: BIOMETRICS	

Unit I	
Topics to be Covered	**No. of Hours**
Biometrics history, Types of biometrics traits, General Architecture of Biometrics System, Basic Working of Biometric Matching	1
Biometric System error and Performance Measures, Design of Biometric System	1
Applications of Biometrics, Biometrics vs traditional authentication methods. Face Biometrics- Introduction, Background of face Recognition and Design of Face Recognition System. Neural networks for face Recognition	2
Face Detection in Video Sequences, Challenges in Face Biometrics, Face Recognition Methods. Advantages and Disadvantages.	2
Total	**6**

Unit II	
Topics to be Covered	**No. of Hours**
Retina and Iris Biometrics – Introduction, Performance of biometrics. Design of Retina Biometrics. Design of Iris Recognition, Iris Segmentation Method	1
Determination of Iris Region	1
Applications of Iris Biometrics. Advantages and Disadvantages	1
Vein and Finger Print Biometrics – Introduction, Biometrics using Vein Pattern of Palm. Finger Print Biometrics. Finger Print Recognition System	1
Minutiae Extraction. Finger Print Extraction. Finger Print Indexing	1
Experimental Results. Advantages and Disadvantages	1
Total	**6**

Unit III	
Topics to be Covered	**No. of Hours**
Privacy Enhancement using Biometrics – Introduction Privacy concerns Associated with Biometric Deployments	1
Identity and Privacy, Privacy Concerns, Biometrics with privacy Enhancement	1
Comparison of Various Biometrics in terms of privacy, Soft Biometrics	1
Multimodal Biometrics – Introduction to Multimodal Biometrics. Basic Architecture of Multimodal Biometrics	1
Multimodal Biometrics using Face and Ear	1
Characteristics and Advantages of Multimodal Biometrics	1
Total	**6**

Unit IV

Topics to be Covered	No. of Hours
Water Marking Techniques – Introduction Data Hiding Methods. Basic Framework of Water Marking. Classification of Watermarking.	1
Application of Water marking. Attacks an Watermark. Performance Evaluation	1
Characteristics of Watermark. General Watermarking Process, Image Watermarking Techniques.	1
Watermarking Algorithm. Experimental Results	1
Effect of Attacks on Watermarking Techniques	1
Attacks on Special Domain Watermarking.	1
Total	6

Unit V

Topics to be Covered	No. of Hours
Scope and Feature Market of Biometrics. Biometrics Technologies	1
Application of Biometrics. Biometrics and Information Technology Infrastructure	1
Role Biometrics in Enterprise Security, Border Security, Smart card Technology	1
Biometrics Radio Frequency Identification. DNA Biometrics. Comparative Study of Various Biometrics Techniques.	1
Biometrics Standards and Introduction. Standard Development Organizations	1
Application Programming Interface. Information Security and Biometrics Standards. Biometric template Inter Operability	1
Total	**6**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**
Course Code: 23UGEVS41	**Staff Name: PEERMOHAMED.A**

Course Name: Environmental Studies

Unit: I	
Topics to be covered	**No.of Hours**
Earth- formation and Evolution of Earth over time	**1**
structure of Earth and its components	**1**
Atmosphere, Lithosphere, Hydrosphere and Biosphere - Resources – renewable and non renewable resources	**1**
Total	**3**

Unit: II	
Topics to be covered	**No.of Hours**
Ecology – definition	**1**
Ecosystem: Definition - structure and function	**1**
energy flow – food chain and Food web – one example for an ecosystem- Biogeochemical cycles – Nitrogen, carbon, Phosphorous and Water	**1**
Total	**3**

Unit: III	
Topics to be covered	**No.of Hours**
Introduction – definition - Values of Biodiversity - Threat to Biodiversity – Conservation of Biodiversity	**1**
Biodiversity of India – as a mega diversity nation - bio-geographical distribution – Hot spots of biodiversity	**1**
National Biodiversity Conservation Board and its function	**1**
Total	**3**

Unit: IV	
Topics to be covered	**No.of Hours**

Pollution - Definition, causes, effects - control measures of Air, Water, Soil, Marine	1
Noise, Thermal and Nuclear pollution	1
Global issues: Global Warming and Ozone Layer Depletion	1
Total	**3**

Unit: V	
Topics to be covered	**No.of Hours**
Development - Sustainable Development – Sustainable Agriculture	1
Organic farming, Irrigation – Water harvesting and Waste recycling - Cyber waste and management	1
Disaster Management – Flood and Drought - Earthquake and Tsunami - Landslides and Avalanches - Cyclones and Hurricanes –Precautions,Warnings, Rescue and Rehabilitation	1
Total	**3**

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc. Information Technology**

Course Code:20UCTC61	**Staff Name: Mr. K.A.Sheik Fareed**

Course Name : Software Engineering

Unit: I	
Topics to be covered	**No.of Hours**
Introduction to Software Engineering: Definitions, Size factors– Quality and Productivity –Factors Managerial Issues	5
Planning a Software Project: Defining the Problem – Developing a Solution Strategy	5
Planning the Development Process – Planning an Organizational Structure.	5
Total	**15**

Unit: II	
Topics to be covered	**No.of Hours**
Software Cost Estimation: Software Cost Factors – Software Cost Estimation Techniques	5
Staffing Level Estimation – Estimating Software Maintenance Costs.	5
Software Requirements Definition: The Software Requirements Specification – Formal Specification Techniques – State Oriented Notations	5
Total	**15**

Unit: III	
Topics to be covered	**No.of Hours**
Software Design: Fundamental design concepts	5
Modules and Modularization criteria	5
Design Notations – Design Techniques	5
Total	**15**

Unit: IV	
Topics to be covered	**No.of Hours**
Implementation Issues: Structured coding techniques – Coding Style	5
Modern programming language Features: Type checking – User-defined data types	5
Data abstraction – Scoping Rules	5
Total	**15**

Unit: V	
Topics to be covered	**No.of Hours**
Verification and Validation Techniques: Quality Assurance – Walkthroughs and Inspections Unit Testing and Debugging –System Testing – Formal Verification.	6
Software Maintenance: Enhancing Maintainability during development	4
Managerial Aspects of Software maintenance.	5
Total	**15**

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: INFORMATION TECHNOLOGY	**Programme: B .Sc., IT**
Course Code: 20UCTC62	**Staff Name: C Sheik Mydeen** **G Manonmani** **J Thasleen Fathima**
Course Name: Computer Networks	

Unit I	
Topics to be Covered	**No. of Hours**
Introduction: Business Applications .	4
Social Issues -Network Hardware - Network Software -Protocol Hierarchies .	4
Connection-Oriented Versus Connectionless Service -The OSI Reference Models .	4
The TCP/IP Reference Models -Comparison of the OSI and TCP/IP Reference Models.	3
Total	**15**

Unit II	
Topics to be Covered	**No. of Hours**
The Physical Layer.	3
Guided Transmission Media.	4
Wireless Transmission.	4
The Mobile Telephone System.	4
Total	**15**

Unit III	
Topics to be Covered	**No. of Hours**
The Data Link Layer: Data Link Layer Design Issues .	3
-Error Detection and Correction -Sliding Window Protocols .	4
Multiple Access Protocols .	4
ALOHA, CSMA, Collision free Protocols.	4
Total	**15**

Unit IV	
Topics to be Covered	**No. of Hours**
The Network Layer: Network Layer Design Issues -Routing Algorithms .	3
Shortest path, Flooding, Hierarchical and Broadcast..	3
The Transport Layer: The Transport Service -Services Provided to the Upper Layers .	3
Transport Service Primitives .	3
Elements of Transport Protocols.	3
Total	**15**

Unit V	
Topics to be Covered	**No. of Hours**
The Application Layer: DNS -The Domain Name System .	**4**
Electronic Mail .	**3**
The World Wide Web -Architectural Overview .	**4**
HTTP-The Hypertext Transfer Protocol.	**4**
Total	**15**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: III -B.Sc. IT**
Course Code: 20UCTC6P	**Staff Name: J.Thasleen Fathima, G.Manonmani, R.Neshana**

Course Name: DOT NET PROGRAMMING– LAB

Unit: I (HTML)	
Topics to be covered	**No. of Hours**
Time table Creation using HTML	**5**
Email Registration using HTML	**5**
Total	**10**

Unit: II (VB.NET)	
Topics to be covered	**No. of Hours**
Constructor & Destructor using Console Application	**7**
Inheritance using Console Application	**7**
Structure Creation using Console Application	**6**
Total	**20**

Unit: III(VB.NET)	
Topics to be covered	**No. of Hours**
Login Form using Windows Application	**5**
Validation Form using Windows Application	**5**
String Handling using Windows Application	**5**
Procedure Creation using Windows Application	**5**
Database Connectivity using Windows Application	**5**
Total	**25**

Unit: IV(ASP.NET)	
Topics to be covered	**No. of Hours**
Validation Control using Web based Application	**5**
Calendar Control using Web Based Application	**5**
AdRotator Control using Web Based Application	**5**
Total	**15**

Unit: V (ASP.NET)	
Topics to be covered	**No. of Hours**
Web Service Creation using Web Based Application	**10**
Database Connectivity using Web Based Application	**5**
	5
Total	**20**

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For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: III B.Sc., Information Technology**
Course Code: 20UCTE61	**Staff Name: K. ISCAQ FAIZAL, Z. ABDUL BASITH**

Course Name: INTERNET OF THINGS

Unit: I	
Topics to be covered	**No.of Hours**
Introduction - Definition & characteristics of IoT	4
Physical design of IoT - logical design of IoT	4
IoT enabling Technologies - IoT levels & Deployment templates.	4
Total	**12**

Unit: II	
Topics to be covered	**No.of Hours**
Domain specific Iots : Home Automation - cities - Environment	4
Energy - retail - logistics - Agriculture	4
Industry - Health and life style.	4
Total	**12**

Unit: III	
Topics to be covered	**No.of Hours**
IoT and M2M - Difference between IoT and M2M	4
SDN and NFV for IoT - IoT systems management	4
SNMP - YANG – NETOPEER	4
Total	**12**

Unit: IV	
Topics to be covered	**No.of Hours**

IoT platforms design Methodology - purpose and specification - process specification	2
Domain model specification - Information model specification - Service specification	3
IoT level specification - functional view specification - operational view specification	3
Device and component Integrators - Application Development.-Case study on IoT system weather Monitoring-	2
Motivation on Using Python.	2
Total	**12**

Unit: V	
Topics to be covered	**No.of Hours**
Logical design using python - Installing python	3
Python Data types and data structures	3
Control flow - functions - modules - File handling	3
classes- Python Packages of interest for IoT.	3
Total	**12**

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Department: INFORMATION TECHNOLOGY	**Programme: B.Sc**
Course Code: 20UCTS6P	**Staff Name: R. Karthigai Chelvi, K.Iscaq Faizal**

Course Name: ANIMATION TECHNIQUES - LAB

Unit: I	
Topics to be covered	**No. of Hours**
Handling different file formats and interchanging them, changing the resolution, color, Gray scales and size of the images.	2
Using brushes and creating multi-color real life images. Cropping, rotating, overlapping, superimposing, pasting photos on a page.	2
Creation of a single image from selected portions of many images.	2
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Developing a commercial brochure with background tints.	2
Creating an image with multi-layers of images and texts.	2
Applying masks and filtering on images.	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Develop an image(s) and do the following. Basic Drawing and Painting.	3
Working with Strokes and Fills.	3
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Creating Custom Colours, Gradients, and Line Styles Transforming and Grouping Objects.	3
Creating and Managing Multiple Layers.	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Converting Text into Shapes.	3
Animate using motion, shape, Twining, and actions.	3
Total	**6**

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**

Course Code:20UCTS61	**Staff Name: Dr.J.Thasleen Fathima**

Course Name: COMPETITIVE PAPER FOR APTITUDE-II

Unit: I	
Topics to be covered	**No.of Hours**
Percentage : Important Facts and formulae	2
Solved Examples	2
Profit and Loss : Important Facts	2
Total	**6**

Unit: II	
Topics to be covered	**No.of Hours**
Number Series	2
Clock – Important Facts	1
Solved Examples	1
Calendar : Important Facts and Formula	2
Total	**6**

Unit: III	
Topics to be covered	**No.of Hours**
Time and Distance : Important Facts and Formulae	1
Solved Examples	1
Probability	2
Permutations and combinations	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Problems on Trains	2
Allegation or Mixture : Important Facts	1
Solved Examples	1
Inequalities	2
Total	**6**

Unit: V	
Topics to be covered	**No.of Hours**
Area : Important Facts and Formulae	1
Solved Examples	1
Volume and Surface Areas	2
Odd Man Out	2
Total	**6**

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Dean of Science
Hajee Karutha Rowther Howdia College
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Signature of the HOD

Dr.J THASLEEN FATHIMA
Head of The Department
Department of Information Technology
H.K.R.H. College
Uthamapalayam-625533
Theni-Dt

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: M.Sc., CS**

Course Code: 23PCSCC21	**Staff Name: K. ISCAQ FAIZAL**

Course Name: DATAMINING AND WAREHOUSING

Unit: I	
Topics to be covered	**No.of Hours**
Basic data mining tasks – data mining versus knowledge discovery in databases	2
data mining issues – data mining metrics	2
Social implications of data mining – data mining from a database perspective.	3
Data mining techniques: Introduction – a statistical perspective on data mining	2
Similarity measures – decision trees – neural networks – genetic algorithms.	3
Total	**12**

Unit: II	
Topics to be covered	**No.of Hours**
Classification: Introduction –Statistical –based algorithms	4
distance based algorithms-decision tree-based algorithms	4
Neural network –based algorithms–rule-based algorithms	4
Combining techniques.	3
Total	**15**

Unit: III	
Topics to be covered	**No.of Hours**
Clustering: Introduction–Similarity and Distance Measures	4
Outliers– Hierarchical Algorithms- Partitional Algorithms.	3
Association rules: Introduction - large item sets - basic algorithms – parallel &distributed algorithms	3
comparing approaches- incremental rules	2

Advanced association rules techniques – measuring the quality of rules.	3
Total	**15**

Unit: IV	
Topics to be covered	**No.of Hours**
Datawarehousing:introduction-characteristicsofadatawarehouse datamarts	4
Other aspects of datamart. Online analytical processing: introduction -OLTP&OLAP systems	4
Data modeling –star schema for multidimensional view –data modeling – multi fact star schema or snow flake schema	4
OLAP TOOLS – State of the market – OLAP TOOLS and the internet.	3
Total	**15**

Unit: V	
Topics to be covered	**No.of Hours**
Developing a data WAREHOUSE: why and how to build a data warehouse –data warehouse architectural strategies and organization issues	4
Design consideration – data content – metadata distribution of data – tools for data warehousing	4
Performance considerations – crucial decisions in designing a data warehouse.	4
Applications of data warehousing and data mining in government: Introduction - national data warehouses – other areas	3
Total	**15**

Unit: VI	
Topics to be covered	**No.of Hours**
Contemporary Issues: Expert lectures, online seminars –webinars	3
Total	**3**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	Programme: M.Sc(Computer Science)

Course Code:23PCSCC22	Staff Name: R.Karthigaichelvi

Course Name: ADVANCED OPERATING SYSTEMS

Unit: I	
Topics to be covered	**No. of Hours**
Basics of Operating Systems	3
Process Scheduling	3
Cooperating Processes	3
Inter Process Communication- –Prevention – Avoidance – Detection – Recovery	3
Deadlocks	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Distributed Operating Systems: Issues	3
Communication Primitives – Lamport"s Logical Clocks	3
Deadlock handling strategies – Issues in deadlock detection and resolution	3
distributed file systems –design issues	3
Case studies – The Sun Network File System-Coda	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Realtime Operating Systems : Introduction	3
Applications of Real Time Systems	3

Basic Model of Real Time System	3
Characteristics – Safety and Reliability	3
Real Time Task Scheduling	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Operating Systems for Handheld Systems: Requirements	3
Technology Overview–Handheld Operating Systems	3
Palm OS- Symbian Operating System	3
Architecture of android	3
Securing handheld systems	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Linux System: Introduction – Memory Management	3
Process Scheduling – Scheduling Policy - Managing I/O devices – Accessing Files- - -	3
iOS : Architecture and SDK Framework	3
Media Layer - Services Layer	3
Core OS Layer - File System.	3
Total	**15**

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H.K.R.H. College
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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department: INFORMATION TECHNOLOGY	**Programme: M.Sc., CS**
Course Code: 23PCSCC23	**Staff Name: A.K.JENARTHANAN**
Course Name: Advanced Java Programming	

Unit I	
Topics to be Covered	**No. of Hours**
Java Basics Review	2
Components and Event Handling	3
Threading Concepts	3
Networking Features	2
Media Techniques	2
Total	**12**

Unit II	
Topics to be Covered	**No. of Hours**
Remote Method Invocation	1
Distributed Application Architecture	2
Creating Stubs and Skeletons	2
Defining Remote Objects	2
Remote Object Activation	2
Serialization	1
Java Spaces	2
Total	**12**

Unit III	
Topics to be Covered	**No. of Hours**
Java Data Bases	1
JDBC Principles	1
Data Base Access	1
Interacting	1
Data Base Search	2
Creating Multimedia Databases	2
Database Support in Web Applications	2
Total	**10**

Unit IV	
Topics to be Covered	**No. of Hours**
Java Servlet	1
Java Servlet and CGI Programming	1

A simple Java Servlet	1
Anatomy of a java Servlet	1
Reading Data from a Client and reading HTTP Request Header	1
Sending data to a Client and Writing the HTTP response Header	1
Working with Cookies	1
JSP Overview ,Installation and JSP Tags	1
Expressions, Script lets, Directives, Declaration	2
A Complete example	2
Total	**12**
Unit V	
Topics to be Covered	**No. of Hours**
JAR File Format	2
Creation	3
Internationalization	2
Swing Programming	3
Advanced Java Techniques	2
Total	**12**
Unit VI	
Expert Lectures	1
Online Seminars and Webinars	1
Total	**2**

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TEACHING PLAN

For the Academic Year 2024-25(EVEN SEMESTER)

Department :INFORMATION TECHNOLOGY	**Programme :M.Sc.,CS**
Course Code:23PCSDE21	**Staff Name :C SHEIK MYDEEN**
Course Name :Artificial Intelligence & Machine Learning	

Unit I	
Topics to be Covered	**No.of Hours**
Introduction:AI Problems	1
AI techniques	1
Criteria for success	2
Problems, Problem Spaces Search	2
State space search	1
Production Systems	2
Problem Characteristics	1
Issues in design of Search	2
Total	**12**

Unit II	
Topics to be Covered	**No.of Hours**
Introduction:Heuristic Search techniques	1
Generate and Test	1
Hill Climbing	1
Best-First	1
Problem Reduction	1
Constraint Satisfaction	1
Means-end analysis	1
Knowledge representation issues	1
Representations and mappings	1
Approaches to Knowledge representations	1
Issues in Knowledge representations	1
Frame Problem	1
Total	**12**

Unit III	
Topics to be Covered	**No.of Hours**
Introduction:Using Predicate logic	1
Representing simple facts in logic	1
Representing Instance and Is a relationships	1
Computable functions and predicates	1
Resolution	1

Natural deduction	1
Representing knowledge using rules	1
Procedural Vs Declarative knowledge	1
Logic programming	1
Forward Vs Backward reasoning	1
Matching	1
Control knowledge	1
Total	**12**

Unit IV	
Topics to be Covered	**No.of Hours**
Understanding Machine Learning	1
What Is Machine Learning?	1
Defining Big Data	2
Big Data in Context with Machine Learning	2
The Importance of the Hybrid Cloud	2
Leveraging the Power of Machine Learning	1
-The Roles of Statistics and Data Mining with Machine Learning	1
Putting Machine Learning in Context	1
Approaches to Machine Learning.	1
Total	**12**

Unit V	
Topics to be Covered	**No.of Hours**
Looking Inside Machine Learning	2
The Impact of Machine Learning on Applications	2
Data Preparation	2
The Machine Learning Cycle	4
Total	**10**

Unit VI	
Topics to be Covered	**No.of Hours**
Contemporary Issues, Expert lectures	1
Online seminars and webinars	1
Total	**02**

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TEACHING PLAN

For the AcademicYear2024-25(EVEN SEMESTER)

Department : INFORMATION TECHNOLOGY	**Programme : M.Sc.,CS**
Course Code :23PCSGE2P	**Staff Name : C Sheik Mydeen**
Course Name: Advanced Java Lab	

Unit I	
Topics to be Covered	**No.of Hours**
Write a Java Program implement the Swing Components	4
Draw a Smiling Face using Applet Concept	4
Multithreading Concept	4
Total	**12**

Unit II	
Topics to be Covered	**No.of Hours**
Display a welcome message using Servlet	4
Design a Purchase Order form using HTML form and Servlet	4
Create a JTable and perform the various Operation	4
Total	**12**

Unit III	
Topics to be Covered	**No.of Hours**
Develop a Program for Calculating the Percentage of marks of student using JSP	4
JDBC Connectivity	4
Write a Program using Java Servlet to Handle From data	4
Total	**12**

Unit IV	
Topics to be Covered	**No.of Hours**
	4
Write a java Program using Cookies Concept	4
Design a Purchase Order From Using HTML and JSP	4
Prepare a Employee pay slip Using JSP	**12**

Unit V	
Topics to be Covered	**No.of Hours**
Write a Program in JSP by using Session Object	4
Servlet program to create a table of all the headers it receive along with their associated values	4
Write a program to build a simple Client-Server application using RMI	4
Total	**12**

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TEACHING PLAN
For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: M.Sc Computer Science**
Course Code: 23PCSSE2P	**Staff Name: C.Sheik Mydeen, R.Neshana**

Course Name: DATA MINING LAB USING R(NME)

Unit: I	
Topics to be covered	**No. of Hours**
Implement A priori algorithm to extract association rule of datamining	10
Implement k-means clustering technique	10
Total	**20**

Unit: II	
Topics to be covered	**No. of Hours**
Implement any one Hierarchal Clustering	9
Implement Classification algorithm	9
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Implement Decision Tree	8
Total	**8**

Unit: IV	
Topics to be covered	**No. of Hours**
Linear Regression	7
Total	**7**

Unit: V	
Topics to be covered	**No. of Hours**
Data Visualization	7
Total	**7**

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Department of Information Technology
H.K.R.H. College
Uthamapalayam-625533
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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	Programme: M.Sc. Computer Science
Course Code:23PCSDE22	Staff Name : R.NESHANA., A.PEER MOHAMED

Course Name: MOBILE COMPUTING

Unit: I (INTRODUCTION)	
Topics to be covered	**No. of Hours**
Introduction: Advantages of Digital Information	2
Introduction to Telephone Systems	3
Mobile communication: Need for Mobile Communication	3
Requirements of Mobile Communication	2
History of Mobile Communication	2
Total	**12**

Unit: II (MOBILECOMMUNICATION)	
Topics to be covered	**No. of Hours**
Introduction to Cellular Mobile Communication	2
mobile Communication Standards	2
Mobility Management	2
Frequency Management	3
Cordless Mobile Communication Systems	3
Total	**12**

Unit: III (MOBILECOMPUTING)	
Topics to be covered	**No. of Hours**
Mobile Computing: History of data networks	2
Classification of Mobile data networks	2
CDPD System	2
Satellites in Mobile Communication: Satellite classification	2

Global Satellite Communication	1
Changeover from one satellite to other	1
Global Mobile Communication	1
Interferences in Cellular Mobile Communication	1
Total	**12**

Unit: IV (MOBILECOMMUNICATIONSYSTEM)	
Topics to be covered	**No. of Hours**
Important Parameters of Mobile Communication System	1
Mobile Internet: Working of Mobile IP	1
Wireless Network Security	1
Wireless Local Loop Architecture: Components in WLL	1
Problems in WLL	2
Modern Wireless Local Loop	2
Local Multipoint Distribution Service	2
Wireless Application Protocol	2
Total	**12**

Unit: V (COMMUNICATIONTECHNOLOGY)	
Topics to be covered	**No. of Hours**
WCDMA Technology and Fiber Optic Microcellular Mobile Communication	2
Ad hoc Network and Bluetooth technology	2
Intelligent Mobile Communication system	3
Fourth Generation Mobile Communication systems	3
Total	**10**

Unit: VI (CONTEMPORARY ISSUES)	
Topics to be covered	**No. of Hours**
Expert lectures, online seminars	1
webinars	1
Total	**2**
Total	**60**

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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: **Information Technology**	**Programme: M.Sc., Computer Science**

Course Code: 23PCSCC4P	**Staff Name: K. ISCAQ FAIZAL**

Course Name: PYTHON PROGRAMMING LAB

Unit: I	
Topics to be covered	**No. of Hours**
Installation and configuration of Python Environment	5
Variables and Data Types used in python	5
Basic String Operations performed in python	5
String Formatting in python	5
Sets to store data items in python	5
Total	**25**

Unit: II	
Topics to be covered	**No. of Hours**
Python Program using loops.	5
Python Program using functions.	5
Classes and Objects concepts in python	5
Python Program using elementary data items, lists, dictionaries and tuples.	5
Python Program using conditional branches.	5
Total	**25**

Unit: III	
Topics to be covered	**No. of Hours**
Python Program using exception handling	5
Python Program using inheritance	5
Modules and Packages	5
Use of numpy library in python	5

Python Generators function for producing random numbers	5
Total	**25**

Unit: IV	
Topics to be covered	**No. of Hours**
Python Program using polymorphism.	5
Python Program to implement file operations.	5
Using Multiple Function Arguments in python program	5
Python Lambda functions for creating inline functions	5
Python Library files related to Pattern recognition	5
Total	**25**

Unit: V	
Topics to be covered	**No. of Hours**
Python program to implement Tinder module.	5
Python Program for creating dynamic and interactive web pages using forms.	5
Python program to read, write and Parsing CSV Files	5
Python program using Map, Filter, Reduce features	5
Total	**20**

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Dr.J THASLEEN FATHIMA
Head of The Department
Department of Information Technology
H.K.R.H. College
Uthamapalayam-625533
Theni-Dt

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TEACHING PLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: INFORMATION TECHNOLOGY	**Programme:** M.Sc.,CS
Course Code: 23PCS C4Q	**Staff Name:** A.K.JENARTHANAN
Course Name: Web Application Development & Hosting Practical	

Unit I	
Topics to be Covered	**No. of Hours**
Create a page Hot Countries and Display the Details of Particular Country suing Anchor Tags	6
Develop a HTML Document to Display a Text with bullets/Numbers Using List	6
Develop a HTML Documents to Display the Table Format Data	6
Develop a Complete Webpage Using Frames and Frameset Tags	6
Total	**24**

Unit II	
Topics to be Covered	**No. of Hours**
Develop a Website for Your College Using Advanced Tags of HTML	8
Develop a Website and Display your Bio-data in several Components	8
Develop a HTML Document to Display Registration Form for Inter-Colligate Function	8
Total	**24**

Unit III	
Topics to be Covered	**No. of Hours**
Write HTML for demonstration of cascading style sheets. Embedded style sheets. External style sheet, Inline styles.	8
Write a java script program for validating Registration Form	8
Write a program for implementing XML document for Customer Details	8
Total	**24**

Unit IV	
Topics to be Covered	**No. of Hours**
Write a JSP that reads parameters from user login page	8
Write a simple servlet that displays a message.	8
Write a servlet for session tracking	8
Total	24

Unit V	
Topics to be Covered	**No. of Hours**
Write a PHP Program to accept Two Numbers 1and 2 using HTML form and Display the Prime Number between 1 and 2	8
Using HTML Form Accept Customer Details Like Name, City, E-mail etc., Validate the Data and display the Appropriate the Message	8
Develop web page with data validation.	8
Total	**24**

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TEACHINGPLAN
For the Academic Year 2024-25 (~~ODD~~ / EVEN SEMESTER)

Department: Information Technology	**Programme: M.Sc(Computer Science)**

Course Code:23PCSSE41	**Staff Name:G.Manonmani**

Course Name: BLOCKCHAIN TECHNOLOGY

Unit: I	
Topics to be covered	**No.of Hours**
Introduction to Blockchain - The big picture of the industry .	3
Size, growth, structure, players. Bitcoin versus Cryptocurrencies versus Blockchain.	3
Distributed Ledger Technology (DLT). Strategic analysis of the space.	2
Blockchain platforms, regulators, application providers.	2
The major application: currency, identity, chain of custody.	2
Total	12

Unit: II	
Topics to be covered	**No.of Hours**
Advantage over conventional distributed database, Blockchain Network, Mining Mechanism,	3
Distributed Consensus, Blockchain 1.0, 2.0 and 3.0 .	3
Transition, advancements and features.	3
Privacy, Security issues in Blockchain.	3
Total	12

Unit: III	
Topics to be covered	**No.of Hours**
Cryptocurrency - History, Distributed Ledger, Bitcoin protocols.	2
Symmetric-key cryptography - Public-key cryptography .	3
Digital Signatures -High and Low trust societies.	3
Types of Trust model: Peer-to-Peer, Leviathan, and Intermediary.	2

Application of Cryptography to Blockchain	2
Total	**12**

Unit: IV	
Topics to be covered	**No.of Hours**
Cryptocurrency Regulation - Stakeholders, Roots of Bitcoin , Legal views	3
Exchange of Cryptocurrency-Black Market	3
Global Economy. Cyrptoeconomics	2
Assets, supply and demand, inflation and deflation – Regulation.	3
Total	**11**

Unit: V	
Topics to be covered	**No.of Hours**
Opportunities and challenges in BlockChain .	3
Application of block chain: Industry 4.0 – machine to machine communication .	2
Datamanagementinindustry4.0–futureprospects.Block chain in Health 4.0 .	2
Blockchain properties - Healthcare Costs - Healthcare Quality - Healthcare Value.	2
Challenges for using blockchain for healthcare data.	2
Total	**11**

Unit: VI	
Topics to be covered	**No.of Hours**
Opportunities and challenges in Blockchain .	2
Total	**2**

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Dr.K.SHAHUL HAMEED,Ph.D.,
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Hajee Karutha Rowther Howdia College
(Autonomous)
Uthamapalayam,Theni-Dt-625[illegible]

Signature of the HOD
Dr.J THASLEEN FATHIMA
Head of The Department
Department of Information Technology
H.K.R.H. College
Uthamapalayam-625533
Theni-Dt

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