Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECC62	**Staff Name: Dr.A. Abdul Hameed**

Course Name: Agricultural Economics

Unit: I	
Topics to be covered	**No. of Hours**
Meaning and Definitions of Agricultural Economics	4
Scope, Characteristics and Importance Agricultural Economics	5
Role of Agriculture in Economic development – Interdependence and Distinction between Agriculture and Industry.	4
Total	**13**

Unit: II	
Topics to be covered	**No of Hours**
Ninefold Land use Classification.	5
Cropping Pattern and Factors Affecting Cropping Pattern in India.	7
Causes For Low Agricultural Productivity – Agricultural Labourers – eaning - Characteristics.	7
Total	**19**

Unit: III	
Topics to be covered	**No. of Hours**
Green Revolution – Meaning and Objectives.	3
A Critical Evaluation of Green Revolution	5
Intensive Agricultural District Programme –Mechanization of Indian Agriculture.	5
Total	**13**

Unit: IV	
Topics to be covered	**No. of Hours**
Concepts and Features of Agricultural Markets -Types and Marketable Surplus.	5
Objectives of Agricultural Price Policy and Instruments of Price Policy.	7
Buffer Stock – Minimum Support Price.	5
Total	**17**

Unit: V	
Topics to be covered	**No. of Hours**
Rural Indebtedness – Causes , Consequences.	4
Measures to Remove Rural Indebtedness	4
NABARD, RIDF (Rural Infrastructure Development Fund), National Agricultural Insurance Scheme – Kisan Credit Card Scheme.	5
Total	**13**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECC63	**Staff Name: Dr.K.Abdul Rahim**

Course Name: Environmental Economics

Unit: I	
Topics to be covered	**No. of Hours**
Environment– Meaning, Definition and Importance	2
Environmental Economics – Meaning and Definition	2
Scope and Significance of Environmental Economics	2
Relationship between Environment and Economics	3
Transformation Curve	2
Tragedy of Commons	2
Total	**13**

Unit: II	
Topics to be covered	**No of Hours**
eaning and Causes of Market failure	3
Externality – Meaning – Types	3
Perfect Competition and Externality	4
Imperfect Competition and Externality	3
Total	**13**

Unit: III	
Topics to be covered	**No. of Hours**
Meaning of Resource and Energy	2
Types-Renewable and Non-renewable Resources	3
Conventional and Non-conventional Resources	3
Conservation of resources – Meaning	1
Methods of Conservation – Material Substitution	3
Product Life Extension	3
Re-cycling Methods	2
Total	**17**

Unit: IV	
Topics to be covered	**No. of Hours**
Pollution – Meaning – Sources	3
Impacts of Air, Water, Land and Noise Pollution	6
Pollution Control Measures	3
De-forestation and its impacts on Environment	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Environmental Education – Meaning – Objectives	3
Education Through Environmental Movements – CHIPKO Movement – APPIKO Movement	6
Save the Silent Valley Movement	3
Save Narmada Movement	3
The Environmental Protection Act 1986.	2
Total	**17**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECC64	**Staff Name: Dr. G.Ramanan**

Course Name: Labour Economics

Unit: I	
Topics to be covered	**No. of Hours**
Meaning and Characteristic Features of Labour	4
Causes and Effects of Migration	3
Causes of Absenteeism	3
Causes of Turn Over.	3
Total	**13**

Unit: II	
Topics to be covered	**No of Hours**
Money Wage and Real wage	2
Factors Affecting Real Wage	2
Classical, Marginal Productivity Theory	2
Enable Fund Theory of wage	2
Wage differentials.	2
Total	**10**

Unit: III	
Topics to be covered	**No. of Hours**
Meaning and Objectives of Trade Union	3
Trade Union Movement in India	3
Functions of Trade Union	3
Problems and drawbacks of Trade Union	4
Measures to strengthen the Trade Union Movement	3
Total	**16**

Unit: IV	
Topics to be covered	**No. of Hours**
Meaning, Causes and Effects of Industrial Disputes	4
Prevention of Industrial Disputes	3
Machinery for settling the Industrial Disputes in India	3
Methods of Collective Bargaining	3
Total	**13**

Unit: V	
Topics to be covered	**No. of Hours**
Meaning and Need for Social Security Measures	2
Social Assistance and Social Insurance	2
Second National Commission on Labour	2
International Labour Organisation	2
Total	**8**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECC65	**Staff Name: Dr. N. Mohamed Sameem**

Course Name: Managerial Economics

Unit: I	
Topics to be covered	**No. of Hours**
Meaning and Definitions of Managerial Economics	3
Nature and scope of Managerial Economics	3
Economics and Managerial Economics	2
Concepts in Managerial Economics	2
Economics and Managerial Economics	2
Role and responsibilities of a managerial Economist	3
Total	**15**

Unit: II	
Topics to be covered	**No of Hours**
m and Industry	3
Objectives of a Modern Business Firm	3
Demand forecasting – Meaning	1
Objectives of Demand Forecasting	2
Purpose of Demand Forecasting	1
Methods of Demand Forecasting	3
Features of a Good Demand Forecasting method.	2
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Meaning of Cost of Production	3
Types of Cost of Production	3
Cost Control	3
Meaning of Pricing	2
Methods of Pricing	4
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Meaning of production	3
Types of Production	3
Laws of Returns	3
Laws of Returns to Scale	3
Industrial Productivity – Factors Influencing Industrial Productivity.	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Meaning of Profit	3
Concepts and Types of Profit	4
Break Even Analysis	4
Theories of Profit	4
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECA41	**Staff Name: Dr. A. Abdul Hameed**

Course Name: BANKING TECHNOLOGY

Unit: I	
Topics to be covered	**No. of Hours**
E – Banking – Meaning - Definition - Evolution of E – Banking in India - Objectives of E - Banking - Benefits of E – Banking.	3
Core Banking – Meaning – Features, Advantages and Disadvantages.	3
Internet Banking, Mobile Banking, Tele Banking, Distinction between E - Banking and Traditional Banking.	4
Total	**10**

Unit: II	
Topics to be covered	**No of Hours**
ATM – Meaning –Features - Functions of ATM	3
Input and Output Devices of ATM - Pin Management of ATM – Do's and Don'ts of ATM	3
[illegible]S – Advantages and Disadvantages of ATM, Safety Measures for customers in using ATM.	3
Total	**9**

Unit: III	
Topics to be covered	**No. of Hours**
Methods of Payment systems – Distinction between Debit Card –Credit Card – Smart cards – Biometric Card.	3
E - Cheque, E –Purse,E-Cash, E-Payments	3
NEFT, EFT, SWIFT, RTGS, Digital Signature, ECS.	3
Total	**9**

Unit: IV	
Topics to be covered	**No. of Hours**
Internet Banking – Meaning, Features, Operations of Internet Banking, Services offered by Internet Banking.	4
Steps to Access Internet Banking, Security risks of Internet Banking.	4
Safety Tips for safe Online Banking. Facets of E- Internet Banking.	3
Total	**11**

Unit: V	
Topics to be covered	**No. of Hours**
Concept of Phishing, Recent Developments in Banking Sector.	2
Deterrents of E –Banking - Models of E – Banking.	2
Opportunities and Challenges of E- Banking in India.	2
Total	**6**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECS61	**Staff Name: Dr. M.Nizam Mydeen**

Course Name: Fundamentals of Computer - II

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Access	1
Creating a Simple Database and Tables	2
Forms Objects of RDBMS.	2
Total	**5**

Unit: II	
Topics to be covered	**No of Hours**
Entering and Editing Data: Finding , Sorting and Displaying Data	3
Printing Reports , Forms, Letters and Labels.	3
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Basics of Power point	2
Power point Screen	2
Creating Presentation	2
Working With Text.	2
Total	**8**

Unit: IV	
Topics to be covered	**No. of Hours**
Saving and Closing a Presentation	1
Working with Slides and graphics,	2
Multimedia and Hyperlink.	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Introduction to E-Mail Concepts	2
Creating, Editing and Sending a Mail	1
Advantages and Disadvantages of Mail	2
Total	**5**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECE61	**Staff Name: Dr.Waseema Yaseen**

Course Name: Economics for Competitive Examinations

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

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

Unit: III	
Topics to be covered	**No. of Hours**
Importance of Agriculture	2
Green Revolution	2
Agricultural Finance	3
Marketing	3
Rural Development Programmes.	2
	12

Unit: IV	
Topics to be covered	**No. of Hours**
The Indian Currency System	4
The Reserve Bank of India	3
Commercial Banking and Financial Institutions	4
Total	**11**

Unit: V	
Topics to be covered	**No. of Hours**
National Income	6
Foreign Trade and Balance of Payment	6
Total	**12**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECC41	**Name: Mr. G. PONNAMBALAM**

Course Name: MACRO ECONOMICS -II

Unit: I	
Topics to be covered	**No. of Hours**
Meaning and Determinants of Investment- Difference between Autonomous Investment and Induced Investment	6
Factors determining Investment Function	3
Marginal Efficiency of Capital	3
Investment Demand Schedule	3
Total	**15**

Unit: II	
Topics to be covered	**No of Hours**
Multiplier: Meaning-Employment Multiplier-Leakages	5
Static and Dynamic multipliers - Induced Investment and Accelerator	5
The interaction principle - Super Multiplier	5
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Monetary Policy : Meaning-Objectives	5
Instruments	3
Monetary Policy in Developing Economy	3
Fiscal Policy: Meaning- Objectives – Instruments	4
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Post Keynesian Macro Analysis	3
General equilibrium of monetary and real sector	3
Contribution of Hicks	3
Contribution of Hansen	4
Post Keynesian Macro Analysis	2
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Money Market: Meaning,	4
Components and Role of Money Market	3
Capital market-meaning-components	3
Role of Capital Market- IS-LM Diagram	3
Money Market: Meaning,	2
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECC42	**Staff Name: Dr. K.Abdul Rahim**

Course Name: MATHEMATICAL ECONOMICS – II

Unit: I	
Topics to be covered	**No. of Hours**
Matrix – Meaning - Types of Matrices	**2**
Operations of Matrices – Addition	**2**
Subtraction	**2**
Multiplication	**2**
Transpose of Matrix	**2**
Total	**10**

Unit: II	
Topics to be covered	**No of Hours**
Determinants – Definition – Properties	**4**
Co-factors of matrix	**2**
Inverse of a Matrix	**2**
Solve the linear equations by Crammer's rule	**4**
Input- output analysis (Simple Problems Only)	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Differentiation–Meaning-Rules	3
Higher Order Differentiation (First and Second Order only)	3
Calculation- Addition – Subtraction	4
Product- Quotient	3
Function of function rule	2
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Average Cost and Marginal Cost	5
Average and Marginal Revenues	5
Maxima and Minima (Single Variable Only)	5
Profit and Sales Maximization	5
Total	**20**

Unit: V	
Topics to be covered	**No. of Hours**
Linear Programming–Introduction- Meaning – Basic Concepts	5
Mathematical Formulation of Linear Programming	5
Problem and its Solution by graphical Method Only	5
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECC43	**Staff Name: Dr.G.Ramanan**

Course Name: INDUSTRIAL ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Industry – Meaning - Definition - Concept of Plant, Firm and Industry	4
Classification of Industry - Industrialisation	3
Importance of industrialisation.	2
Total	**9**

Unit: II	
Topics to be covered	**No of Hours**
Localisation of industries	2
Factors affecting localization	2
Advantages and disadvantages of localization	3
Decentralisation of industries	1
Total	**8**

Unit: III	
Topics to be covered	**No. of Hours**
Economies of scale	3
Internal economies -Types	3
External economies of large Production	2
Total	**8**

Unit: IV	
Topics to be covered	**No. of Hours**
Differences between cottage and small scale industries	2
Role of small scale industries in Economic development	3
Problems of small scale industries	3
Remedial measures	2
Total	**10**

Unit: V	
Topics to be covered	**No. of Hours**
Industiral sickness Causes	4
Remedial measures	4
Industrial policy 1991	2
Total	**10**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECS41	**Name: Mr. G. PONNAMBALAM**

Course Name: ECONOMICS OF TOURISM

Unit: I	
Topics to be covered	**No. of Hours**
Economic importance of tourism	2
Contribution to national income	2
Tourism and employment	1
Tourism and foreign gains	1
Total	**6**

Unit: II	
Topics to be covered	**No of Hours**
Factors influencing growth of tourism	2
Travel motivation	2
rticipation in business –sports activities	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Travel Agent	1
Tour operators	1
Tourism development corporation in India	2
Role of ITDC	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Planning	1
Tourism planning	2
Need for tourism planning	1
Importance of tourism planning	2
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Role of state	1
Role of state in tourism development	2
Globalisation	1
urism in the Era of Globalisation	2
Total	**6**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECC21	**Staff Name: Dr. G.RAMANAN**

Course Name: MICROECONOMICS-II

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

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

Unit: III	
Topics to be covered	**No. of Hours**
Monopolistic Competition – Features	1
Product Differentiation	2
Market Equilibrium and Short Run and Long Run	3
Barriers to Entry	2
Group and Industry Equilibrium	1
Excess Capacity	1
Oligopoly	1
Kinked Demand Curve	1
Collusion	1
Cartels and Price Leadership –Game Theory	1
Minimax – Maximin – Nash Equilibrium	2
Total	**16**

Unit: IV	
Topics to be covered	**No. of Hours**
Functional and Personal Distribution	3
Marginal Productivity Theory of Distribution	3
Product Exhaustion Theorem	3
Concepts of VMP and MRP	4
Total	**14**

Unit: V	
Topics to be covered	**No. of Hours**
Welfare Criteria	3
Adam Smith	2
Edgeworth	2
Pareto	2
Kaldor	2
Market Failure – Externalities	2
Walrasian General Equilibrium	1
Static Properties for Consumption, Production, and Distribution.	2
Total	**16**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Economics	**Programme: B.A.**

Course Code: 20UECC22	**Staff Name: Mr. M. NIZAM MYDEEN**

Course Name: STATISTICS FOR ECONOMICS-II

Unit: I	
Topics to be covered	**No. of Hours**
Index Numbers – Methods	1
Unweighted and Weighted Index Numbers	1
Aggregate and Relative Index Numbers	2
Chain and Fixed based Index Numbers	4
Test of Adequacy of Index Numbers	3
Wholesale Price Index - Consumer Price Index - Cost of Living Index	4
Total	**15**

Unit: II	
Topics to be covered	**No of Hours**
Definition	2
Components and Measurement	3
Graphic Method	6
Methods of Semi Average, Moving Averages and Method of Least Squares	1
Uses of Time Series Analysis	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
key Concepts of Probability – Importance	1
Theorems of Probability: Addition, Multiplication and Bayes' Theorem	2
Discrete and Continuous Random Variables	5
Theoretical Distributions	3
Binomial, Poisson and Normal	2
Properties- Uses and Applications	2
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Sampling	2
Census and Sample Method	2
Theoretical Basis of Sampling	2
Methods of sampling	2
Random and Non –Random Sampling	2
Size of Sample	1
Merits and Limitations of Sampling	2
Sampling and Non- Sampling Errors	2
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Hypothesis Testing	2
Meaning, Types, Sources and Functions of Hypothesis	3
Test: Null and Alternative Hypothesis	2
Type – I and Type – II Errors	1
't' Test – Paired 't'-test	2
Chi –Square test, 'F' test	3
Analysis of Variance	1
One way and Two-way ANOVA	2
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (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	**C 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 2023-24 (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 2023-24 (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 2023-24 (EVEN SEMESTER)

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

Course Code: 23UENSE22	**Staff Name: Mr. P.M Noushad , Mr. A. Rajamani , Ms. B. Shameema & Mr. K. Mohamed Imrankhan**

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- Ms. B. Shameema	
Topics to be covered	**No. of Hours**
Skills to be acquired in communication	**6**
Unit: V - Mr. K. Mohamed Imrankhan	
Topics to be covered	**No. of Hours**
Application of Learning	**6**
Total	**30**

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TEACHING PLAN

For the Academic Year 2023-24(EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ENGLISH**
Course Code: 20UENC41	**Staff Name: Ms. S. Nasreen Banu** **Ms. A.J. Saleema Kathoon** **Mr. S. Abubacker Siddiq**
Course Name: VICTORIAN AGE	

Unit: I - POETRY - Mr. S. Abubacker Siddiq	
Topics to be covered	**No. of Hours**
Tradition and culture of Victorian society in literature	1
Textual reading of Lotus Eaters	4
Textual reading of Andrea Del Sarto	4
Textual reading of Felix Randal	4
Textual reading of No Worst, There is None	2
Theme, form, Language, poetic devices	3
Total	**18**

Unit: II – POETRY- Mr. S. Abubacker Siddiq	
Topics to be covered	**No. of Hours**
Rapid modernization in Victorian Age	2
Textual reading of How do I Love thee	4
Textual reading of The Blessed Damozel	4
Textual reading of Isolation: To Marguerite	4

Theme, language, style	4
Total	**18**

Unit: III – PROSE-Ms. A.J. Saleema Kathoon	
Topics to be covered	**No. of Hours**
Architecture and Industrialisation in Victorian Age	5
John Ruskin – An Introduction	4
Textual reading of Work (Lecture 1 from The Crown of Wild Olive)	6
Theme, Language	3
Total	**18**

Unit: IV – DRAMA- Ms. S. Nasreen Banu	
Topics to be covered	**No. of Hours**
Aspects of Drama in Victorian Age	4
Oscar Wilde – An Introduction	6
Textual reading of The Importance of Being Earnest	4
Thematic and dramatic techniques	4
Total	**18**

Unit: V – FICTION- Ms.S.Nasreen Banu	
Topics to be covered	**No. of Hours**
Social mobility in Victorian Age	4
Charles Dickens – An Introduction	4
Textual reading of A Christmas Carol	6
Fictional elements in A Christmas Carol	4
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24(EVEN SEMESTER)

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

Course Code: 20UENA41	**Staff Name: Dr. J. Ahamed Meeran** **Mr. S. Mohamed Rowther** **Mr. A. Rajamani** **Mr. K. Mohamed Imrankhan**

Course Name: HISTORY OF ENGLISH LITERATURE - II

Unit: I - The Age of Transition- Mr. S. Mohamed Rowther	
Topics to be covered	**No. of Hours**
The Age of Transition – Introduction	1
Poetry-William Wordsworth, S. T. Coleridge, P. B. Shelley, G. G. Byron, John Keats	3
Prose-Dr Johnson, Edmund Burke, Edward Gibbon	3
Drama-Richard Brinsley Sheridan, Oliver Goldsmith	2
Fiction-Samuel Richardson, Henry Fielding, Tobias Smollett, Laurence Sterne	3
Total	**12**

Unit: II - The Romantic Age- Mr. S. Mohamed Rowther	
Topics to be covered	**No. of Hours**
The Romantic Age – Introduction	1
Poetry -William Wordsworth, S. T. Coleridge, P. B. Shelley, G. G. Byron, John Keats	5
Prose - Charles Lamb, William Hazlitt	2
Drama - G. G. Byron, P. B. Shelley	2

Fiction-Sir Walter Scott, Jane Austen	2
Total	**12**

Unit: III – The Victorian Age - Dr. J. Ahamed Meeran	
Topics to be covered	**No. of Hours**
The Victorian Age – Introduction	1
Poetry-Alfred Tennyson, Robert Browning, Matthew Arnold, C. G. Rossetti, A. C. Swinburne	4
Prose -Thomas Carlyle, John Ruskin	2
Drama -Robert Browning, Alfred Tennyson	2
Fiction-Charles Dickens, W. M. Thackeray, Charlotte Bronte, George Eliot	3
Total	**12**

Unit: IV - Modern Literature- Mr. K. Mohamed Imrankhan	
Topics to be covered	**No. of Hours**
Modern Literature – Introduction	1
Poetry-W. B. Yeats, Robert Bridges, John Masefield, Rupert Brooke	4
Prose - G. K. Chesterton, Hillarie Belloc	2
Drama - George Bernard Shaw, J. M. Synge, John Galsworthy, Oscar Wilde	3
Fiction - Thomas Hardy, Henry James, Joseph Conrad, H. G. Wells	2
Total	**12**

Unit: V – Inter-War Years- Mr. A. Rajamani	
Topics to be covered	**No. of Hours**
Poetry- G.M. Hopkins, T.S. Eliot, W.H. Auden, Ezra Pound, Dylan Thomas	3
Prose – Lytton Strachey, J.B. Priestly	2
Drama- Harold Pinter, Samuel Beckett	3
Fiction-D.H. Lawrence, James Joyce, Virginia Woolf, E.M. Foster, George Orwell, Isaac Asimov	4
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24(EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ENGLISH**
Course Code: 20UENS41	**Staff Name: Mr. P. M. Noushad** **Mr. A. Rajamani**
Course Name: COMPUTER LITERACY	

Unit: I - Mr. P. M. Noushad	
Topics to be covered	**No. of Hours**
Hardware Concepts, Software Concepts	6
Total	**6**
Unit: II - Mr. A. Rajamani	
Topics to be covered	**No. of Hours**
MS Word- Introduction	6
Total	**6**
Unit: III - Mr. P. M. Noushad	
Topics to be covered	**No. of Hours**
MS Power Point	6
Total	**6**
Unit: IV – Mr. A. Rajamani	
Topics to be covered	**No. of Hours**
Special Tools	6
Total	**6**
Unit: V – Mr. P. M. Noushad	
Topics to be covered	**No. of Hours**

MS Excel	6
Total	**6**

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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 2023-24(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 of 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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For the Academic Year 2023-24(EVEN SEMESTER)

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**
Textual Reading of Maya Angelou 's Woman Work	**4**
Textual Reading of Bruce Dawe's Life Cycle	**3**
Textual Reading of Wilfred Campbell's The Winter Lakes	**4**
Textual Reading of Margaret Atwood's Journey to the Interior	**4**
Total	**15**

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

Unit: III – Short Stories - Ms. S. Nasreen Banu	
Topics to be covered	**No. of Hours**

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TEACHING PLAN

For the Academic Year 2023-24(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's The Mother	4
Alice Walker's Expect Nothing	4
Judith Wright's Woman to Child	4
Kishwar Naheed's 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's The Bird in Our Hand: Is it Living or Dead?	8
Chimamanda Ngozi Adichie's 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's The Story of An Hour	5
Maxine Hong Kinston's No Name Women	5

Mrinal Pande's 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 2023-24(EVEN SEMESTER)

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

Course Code: 20UENC65	**Staff Name: Mr. A. Rajamani** **Ms. B. Shameema** **Mr. K. Mohamed Imran Khan**

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 - Mr. Mohamed Imran Khan	
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**

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TEACHING PLAN

For the Academic Year 2023-24(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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Total	**6**

Unit: V - Mr. Mohamed ImranKhan	
Topics to be covered	**No. of Hours**
Self-Development	**6**
Total	**6**

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For the Academic Year 2023-24 (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, Cherrie Moraga – Getting Home Alive	18
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24 (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 2023-24 (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. 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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Total	**12**

Unit: V – Mr. V. Rajesh Kanna	
Topics to be covered	**No. of Hours**
Use of Media in ELT	12
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24 (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	3
Octavio Paz – As One Listen to the Rain, The Street	3
Rudyard Kipling – The Power of the Dog	3
Seamus Heaney - Oracle	3
Total	**12**

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	3
J.M. Coetzee – Excerpts from Disgrace	3
Toni Morrison - Excerpts from Sula	3
Total	**12**

Unit: III - Ms. S. Anees Fathima	
Topics to be covered	**No. of Hours**
Harold Pinter – The Caretaker	6

George Bernard Shaw – Man and Superman	6
Total	**12**

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	12
Total	**12**

Unit: V - Ms. S. Anees Fathima	
Topics to be covered	**No. of Hours**
John Steinbeck – The Pearl	6
Gabriel Garcia Marquez – One Hundred Years of Solitude	6
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24 (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 - Mr. S. Velmurugan	
Topics to be covered	**No. of Hours**
Oral / Aural Communication	6
Total	**6**

Unit: III – Ms. K. Fathima Nasreen	
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 2023-24(EVEN SEMESTER)

Department: ENGLISH	**Programme: II MA English**
Course Code:20PENC41	**Staff Name: Ms. M. Rizvana** **Mr. K. Athinarayanan** **Ms. B.Nagia**

Course Name: NEW LITERATURES

Unit: I – PROSE- Ms. B.Nagia	
Topics to be covered	**No. of Hours**
Commonwealth Poetry: An Introduction	1
Textual Reading of A Negro Labourer in Liverpool	3
Textual Reading of Ruins of a Great House	3
Textual Reading of Living Space	3
Textual Reading of Time	3
Characteristics of Commonwealth Poetry in A Negro Labourer in Liverpool, Ruins of a Great House, Living Space, Time	2
Total	**15**

Unit: II – PROSE- Mr. K. Athinarayanan	
Topics to be covered	**No. of Hours**
Commonwealth Prose: An Introduction	2
Ngugi wa Thiong'o: An Introduction	1
Textual Reading of Language has a Dual Character	6
Alice Munro: An Introduction	1
Textual Reading of In Her Own Words	6
Post-colonial aspects in Language has a Dual Character and In Her Own Words	4

Total	**20**

Unit: III – DRAMA- Ms. B.Nagia	
Topics to be covered	**No. of Hours**
Commonwealth Drama: An Introduction	1
Mahasweta Devi: An Introduction	1
Textual Reading of Mother of 1084	12
Dimensions such as gender, oppression, marginality and Post-colonialism in Mother of 1084	3
Dramatic techniques adopted in Mother of 1084	3
Total	**20**

Unit: IV – FICTION- Mr. K. Athinarayanan	
Topics to be covered	**No. of Hours**
Commonwealth Fiction: An Introduction	1
Black American Writing: An Introduction	1
Alice Walker: An Introduction	1
Textual Reading of the excerpts from The Color Purple	12
Aspects of Post colonialism such as identity, race, gender, culture and nation in The Color Purple	3
Elements of fiction in The Color Purple	2
Total	**20**

Unit: V – SHORT STORIES - Ms. M. Rizvana	
Topics to be covered	**No. of Hours**
Doris Lessing: An Introduction	1
Textual Reading of A Sunrise on the Veld	3
Toni Morrison: An Introduction	1
Textual Reading of Sweetness	3
Margaret Laurence: An Introduction	1
Textual Reading of The Loons	3
Post-colonial elements in A Sunrise on the Veld, Sweetness, The Loons	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24(EVEN SEMESTER)

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

Course Code: 20PENC42	**Staff Name: Ms. M. Rizvana** **Ms. K. Fathima Nasreen** **Ms. B. Nagia** **Mr. V. Rajesh Kanna**

Course Name: ENGLISH LANGUAGE TEACHING

Unit: I – Ms. K. Fathima Nasreen	
Topics to be covered	**No. of Hours**
English as an international colonial and national language	7
English in post- independence India	7
Language Pedagogy and the teaching of English	6
Total	**20**

Unit: II – Mr. V. Rajesh Kanna	
Topics to be covered	**No. of Hours**
Methods and Approaches	7
The Teaching of Spoken English	7
Vocabulary Enrichment and the teaching of Vocabulary	6
Total	**20**

Unit: III -Ms. M. Rizvana	
Topics to be covered	**No. of Hours**
English Grammar and the teaching of Grammar	7
Reading, Writing and the teaching of Composition	6

The Teaching of Prose and Poetry	7
Total	**20**

Unit: IV - Ms. K. Fathima Nasreen	
Topics to be covered	**No. of Hours**
Instructional Aids and Study Aids	7
Tests, Testing and Evaluation	8
Total	**15**

Unit: V - Ms. B. Nagia	
Topics to be covered	**No. of Hours**
Planning and Lesson Planning	7
Common Errors and Remedial English	8
Total	**15**

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For the Academic Year 2023-24(EVEN SEMESTER)

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

Course Code: 20PENC43	**Staff Name : Mr. S. Velmurugan** **Ms. K. Fathima Nasreen** **Ms. A. Sumaya Banu**

Course Name: WOMEN'S WRITINGS

Unit: I – PROSE- Ms. A. Sumaya Banu	
Topics to be covered	**No. of Hours**
Introduction to Dame Edith Sitwell	1
Textual reading of The Mother	4
Introduction to Maya Angelou	1
Discussion on the poem Woman Work	4
Introduction to Anne Sexton	1
Discussion on the poem Wanting to Die	4
Total	**15**

Unit: II – PROSE- Mr. S. Velmurugan	
Topics to be covered	**No. of Hours**
Toril Moi- An Introduction	1
Textual reading of Feminist, Female, Feminine	7
Virginia Woolf: An Introduction	1
Textual reading of A Room of One's Own	6
Total	**15**

Unit: III – DRAMA- Ms. K. Fathima Nasreen	
Topics to be covered	**No. of Hours**

An Introduction to Marsha Norman 'Night, Mother	2
Textual reading of 'Night, Mother	17
Discussion on the themes and narrative techniques	6
Total	**25**

Unit: IV – FICTION- Ms. A. Sumaya Banu	
Topics to be covered	**No. of Hours**
Buchi Emecheta – An Introduction	3
Textual reading of The Bride Price	10
Discussion on the themes and narrative techniques	7
Total	**20**

Unit: V – SHORT STORIES - Ms. A. Sumaya Banu	
Topics to be covered	**No. of Hours**
Introduction on Edith Wharton and The Other Two	1
Textual reading of The Other Two	5
Helen Simpson : An Introduction	1
Textual reading of Diary of an Interesting Year	5
Discussion on the aspects of short stories prescribed	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24(EVEN SEMESTER)

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

Course Code: 20PENE41	**Staff Name: Ms. S. Anees Fathima** **Mr. K. Athinarayanan & Mr. S. Velmurugan** **Ms. M. Rizvana** **Mr. V. Rajesh Kanna**

Course Name: DIASPORIC LITERATURE (ELECTIVE)

Unit: I – INDIA- Ms. M. Rizvana	
Topics to be covered	**No. of Hours**
Diasporic Literature: An Introduction	1
Rohinton Mistry: An Introduction	1
Excerpts from Family Matters	1
Indian diasporic consciousness in Family Matters	7
Structure and Thematic Analysis of Family Matters	3
Plot, Style and Narrative Techniques of Family Matters	3
Total	**18**

Unit: II – BANGLADESH - Mr. S. Velmurugan	
Topics to be covered	**No. of Hours**
Monica Ali: An Introduction	1
Excerpts from Brick Lane	7
Diasporic issues in Brick Lane	4
Structure and Thematic Analysis of Brick Lane	3
Plot, Style and Narrative Techniques of Brick Lane	3

Total	18

Unit: III – PAKISTAN - Mr. V. Rajesh Kanna	
Topics to be covered	**No. of Hours**
Mohsin Hamid: An Introduction	1
Excerpts from Moth Smoke	7
Cultural and Social issues depicted in Moth Smoke	4
Structure and Thematic Analysis of Moth Smoke	3
Plot, Style and Narrative Techniques of Moth Smoke	3
Total	**18**

Unit: IV– CANADA - Mr. K. Athinarayanan	
Topics to be covered	**No. of Hours**
M.G. Vassanji: An Introduction	1
Excerpts from The Gunny Sack	7
Immigrant experiences depicted in The Gunny Sack	3
Structure and Thematic Analysis of The Gunny Sack	3
Plot, Style and Narrative Techniques of The Gunny Sack	4
Total	**18**

Unit: V – CARIBBEAN - Ms. S. Anees Fathima	
Topics to be covered	**No. of Hours**
Caryl Phillips: An Introduction	1
Excerpts from Crossing the River	7
Colonization, Injustice and human abuse portrayed in Crossing the River	3
Structure and Thematic Analysis of Crossing the River	3
Plot, Style and Narrative Techniques of Crossing the River	4
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 23UENLL21	**Staff Name: Mr. A. Rajamani** **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
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
	15

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 23UENLL21	**Staff Name: Ms. B. Shameema** **Mr. K. Mohamed Imrankhan**

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
	15

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I BA HISTORY**
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
	15

Signature of the Dean

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc MATHEMATICS**
Course Code: 23UENLL21	**Staff Name: Dr. J. Ahmed Meeran** **Mr. S. Abubacker Siddiq**
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
	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

(Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc. COMPUTER SCIENCE**

Course Code: 23UENLL21	**Staff Name: Ms. S. Nasreen Banu** **Dr. H. Rakhiba**

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
	15

Signature of the Dean

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

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 23UENLL21	**Staff Name: Ms. A.J. Saleema Kathoon** **Mr.K. Mohamed Imrankhan**

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
	15

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 23UENLL21	**Staff Name: Mr. S. Mohamed Rowther** **Ms. A. J. Saleema Kathoon**

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
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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc. ZOOLOGY**
Course Code: 23UENLL21	**Staff Name: Ms. S. Nasreen Banu** **Mr. P.M. Noushad**

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: IV– Tenses	
Topics to be covered	**No. of Hours**
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Past	4
Future	4
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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
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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

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
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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
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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.A. ARABIC**
Course Code: 23UENLL21	**Staff Name: Ms. B. Nagia** **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
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Unit: IV– Tenses	
Topics to be covered	**No. of Hours**
Present	4
Past	4
Future	4
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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
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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 23UENLL21	**Staff Name: Ms. M. Rizvana** **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**
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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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Minutes of the Meeting	4
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Signature of the Dean

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Hajee Karutha Rowther Howdia College
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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc. BIO CHEMISTRY**
Course Code: 23UENLL21	**Staff Name: Ms. K. Fathima Nasreen** **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
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Robert Frost – The Road not Taken	5
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Topics to be covered	**No. of Hours**
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Topics to be covered	**No. of Hours**
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Future	4
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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
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Minutes of the Meeting	4
	15

Signature of the Dean

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Hajee Karutha Rowther Howdia College
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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 23UENLL21	**Staff Name: Ms. M. Rizvana** **Ms. A. Sumaya Banu**

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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Robert Frost – The Road not Taken	5
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Topics to be covered	**No. of Hours**
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Past	4
Future	4
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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
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Signature of the Dean

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Hajee Karutha Rowther Howdia College
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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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(Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I B.Sc. INFORMATION TECHNOLOGY**

Course Code: 23UENLL21	**Staff Name: Ms. B.Nagia** **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
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Total	**20**
Unit: III – Prose Life Story & Autobiography	
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A.P.J. Abdul Kalam – Wings of Fire (Ch- 1,2, 3)	8
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Unit: IV– Tenses	
Topics to be covered	**No. of Hours**
Present	4
Past	4
Future	4
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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
	15

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Total	**20**

Unit: IV– Tenses	
Topics to be covered	**No. of Hours**
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E-mail – Invitation, Enquiry, Seeking Clarification	4
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(Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

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

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**
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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
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(Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: I BBA**
Course Code: 23UENLL21	**Staff Name: Mr. K. Athinarayanan** **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
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

HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ECONOMICS**
Course Code: 20UENL41	**Staff Name: Mr. S. Mohamed Rowther** **Ms. S. Nasreen Banu**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I

Topics to be covered	No. of Hours
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II

Topics to be covered	No. of Hours
Vocabulary	6
Choice of Words	6
Analogy Questions	6
Total	**18**

Unit: III

Topics to be covered	No. of Hours
Group Discussion	9
Resume Writing	8
Total	**17**

Unit: IV

Topics to be covered	No. of Hours

Comprehensive writing - Prose	7
Comprehensive writing - Poetry	8
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Art of Public Speaking – An Introduction	1
Welcome Address with Illustration	4
Presidential Address with Illustration	4
Chief Guest's Address with Illustration	3
Vote of Thanks with Illustration	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 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA ENGLISH**
Course Code: 20UENL41	**Staff Name: Mr. M. Mathan** **Mr. K. Mohamed Imrankhan**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I

Topics to be covered	No. of Hours
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II

Topics to be covered	No. of Hours
Vocabulary	6
Choice of Words	6
Analogy Questions	6
Total	**18**

Unit: III

Topics to be covered	No. of Hours
Group Discussion	9
Resume Writing	8
Total	**17**

Unit: IV

Topics to be covered	No. of Hours

Comprehensive writing - Prose	7
Comprehensive writing - Poetry	8
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Art of Public Speaking – An Introduction	1
Welcome Address with Illustration	4
Presidential Address with Illustration	4
Chief Guest's Address with Illustration	3
Vote of Thanks with Illustration	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA HISTORY & HISTORY TOURISM**

Course Code: 20UENL41	**Staff Name: Ms. A.J. Saleema Kathoon** **Ms. B. Shameema**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I	
Topics to be covered	**No. of Hours**
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II	
Topics to be covered	**No. of Hours**
Vocabulary	6
Choice of Words	6
Analogy Questions	6
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Group Discussion	9
Resume Writing	8
Total	**17**

Unit: IV	
Topics to be covered	**No. of Hours**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc MATHEMATICS**

Course Code: 20UENL41	**Staff Name: Ms. H. Rakhiba** **Mr. A. Rajamani**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I	
Topics to be covered	**No. of Hours**
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II	
Topics to be covered	**No. of Hours**
Vocabulary	6
Choice of Words	6
Analogy Questions	6
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Group Discussion	9
Resume Writing	8
Total	**17**

Unit: IV	
Topics to be covered	**No. of Hours**

Comprehensive writing - Prose	7
Comprehensive writing - Poetry	8
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Art of Public Speaking – An Introduction	1
Welcome Address with Illustration	4
Presidential Address with Illustration	4
Chief Guest's Address with Illustration	3
Vote of Thanks with Illustration	3
Total	**15**

Signature of the Dean

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc COMPUTER SCIENCE**
Course Code: 20UENL41	**Staff Name: Mr. PM. Noushad** **Ms. B. Shameema**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I	
Topics to be covered	**No. of Hours**
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II	
Topics to be covered	**No. of Hours**
Vocabulary	6
Choice of Words	6
Analogy Questions	6
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Group Discussion	9
Resume Writing	8
Total	**17**

Unit: IV	
Topics to be covered	**No. of Hours**

Comprehensive writing - Prose	7
Comprehensive writing - Poetry	8
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Art of Public Speaking – An Introduction	1
Welcome Address with Illustration	4
Presidential Address with Illustration	4
Chief Guest's Address with Illustration	3
Vote of Thanks with Illustration	3
Total	**15**

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Comprehensive writing - Prose	7
Comprehensive writing - Poetry	8
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Art of Public Speaking – An Introduction	1
Welcome Address with Illustration	4
Presidential Address with Illustration	4
Chief Guest's Address with Illustration	3
Vote of Thanks with Illustration	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc PHYSICS**

Course Code: 20UENL41	**Staff Name: Ms. S. Nasreen Banu** **Mr. K. Mohamed Imrankhan**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I	
Topics to be covered	**No. of Hours**
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II	
Topics to be covered	**No. of Hours**
Vocabulary	6
Choice of Words	6
Analogy Questions	6
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Group Discussion	9
Resume Writing	8
Total	**17**

Unit: IV	
Topics to be covered	**No. of Hours**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UENL41	**Staff Name: Dr. H. Rakhiba** **Mr. PM. Noushad**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I	
Topics to be covered	**No. of Hours**
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II	
Topics to be covered	**No. of Hours**
Vocabulary	6
Choice of Words	6
Analogy Questions	6
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Group Discussion	9
Resume Writing	8
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Topics to be covered	**No. of Hours**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc ZOOLOGY**
Course Code: 20UENL41	**Staff Name: Mr. A. Rajamani** **Mr. M. Mathan**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I

Topics to be covered	No. of Hours
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II

Topics to be covered	No. of Hours
Vocabulary	6
Choice of Words	6
Analogy Questions	6
Total	**18**

Unit: III

Topics to be covered	No. of Hours
Group Discussion	9
Resume Writing	8
Total	**17**

Unit: IV

Topics to be covered	No. of Hours

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UENL41	**Staff Name: Mr. S. Velmurugan** **Mr. V. Rajesh Kanna**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I	
Topics to be covered	**No. of Hours**
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II	
Topics to be covered	**No. of Hours**
Vocabulary	6
Choice of Words	6
Analogy Questions	6
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Group Discussion	9
Resume Writing	8
Total	**17**

Unit: IV	
Topics to be covered	**No. of Hours**

Comprehensive writing - Prose	7
Comprehensive writing - Poetry	8
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Art of Public Speaking – An Introduction	1
Welcome Address with Illustration	4
Presidential Address with Illustration	4
Chief Guest's Address with Illustration	3
Vote of Thanks with Illustration	3
Total	**15**

Signature of the Dean

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BA TAMIL**
Course Code: 20UENL41	**Staff Name: Ms. M. Rizvana** **Ms. K. Fathima Nasreen**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I	
Topics to be covered	**No. of Hours**
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II	
Topics to be covered	**No. of Hours**
Vocabulary	6
Choice of Words	6
Analogy Questions	6
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Unit: III	
Topics to be covered	**No. of Hours**
Group Discussion	9
Resume Writing	8
Total	**17**

Unit: IV	
Topics to be covered	**No. of Hours**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc BIO-CHEMISTRY**
Course Code: 20UENL41	**Staff Name: Mr. K. Athinarayanan** **Ms. A. Sumaya Banu**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I

Topics to be covered	**No. of Hours**
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II

Topics to be covered	**No. of Hours**
Vocabulary	6
Choice of Words	6
Analogy Questions	6
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Unit: V - Composition	
Topics to be covered	**No. of Hours**
Art of Public Speaking – An Introduction	1
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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc MICRO BIOLOGY**
Course Code: 20UENL41	**Staff Name: Ms. S. Anees Fathima** **Ms. B. Nagia**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I

Topics to be covered	No. of Hours
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II

Topics to be covered	No. of Hours
Vocabulary	6
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Topics to be covered	No. of Hours

Comprehensive writing - Prose	7
Comprehensive writing - Poetry	8
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Unit: V - Composition	
Topics to be covered	**No. of Hours**
Art of Public Speaking – An Introduction	1
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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ENGLISH	**Programme: II BSc INFORMATION TECHNOLOGY**
Course Code: 20UENL41	**Staff Name: Mr. S. Velmurugan** **Mr. V. Rajesh Kanna**

Course Name: ENGLISH FOR ENLIGHTENMENT - II

Unit: I	
Topics to be covered	**No. of Hours**
William Shakespeare : An Introduction	2
Textual Reading of *Macbeth*	15
Analyses of the dramatic elements such as plot, character and theme adopted by William Shakespeare	8
Total	**25**

Unit: II	
Topics to be covered	**No. of Hours**
Vocabulary	6
Choice of Words	6
Analogy Questions	6
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Group Discussion	9
Resume Writing	8
Total	**17**

Unit: IV

Topics to be covered	No. of Hours
Comprehensive writing - Prose	7
Comprehensive writing - Poetry	8
Total	**15**

Unit: V - Composition	
Topics to be covered	**No. of Hours**
Art of Public Speaking – An Introduction	1
Welcome Address with Illustration	4
Presidential Address with Illustration	4
Chief Guest's Address with Illustration	3
Vote of Thanks with Illustration	3
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (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

Forwarded by

Dean

Dr.G.RAMANAN,Ph.D.,
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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 2023-24 (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 2023-24 (EVEN SEMESTER)

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

Course Code: 23UHIGE21	**Staff Name: Mr. M. Mohamed Asraf**

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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TEACHING PLAN
For the Academic Year 2023-24 (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 2023-24 (EVEN SEMESTER)

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

Course Code: 23UHISE22	**Staff Name: Mr. S. Shack Abdullah**

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 2023-24 (EVEN SEMESTER)

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

Course Code: 23UECGE21	**Staff Name: Dr. M. Amzad Ali**

Course Name: INTRODUCTION TO E COMMERCE

Unit: I	
Topics to be covered	**No. of Hours**
Meaning	1
Nature	1
Concepts	1
advantages and disadvantages	1
online Transaction	2
Types of E Commerce	1
Growth of E-Commerce in India.	2
Total	9

Unit: II	
Topics to be covered	**No. of Hours**
E-commerce Models	1
Business-to-Business (B2B)	1
Business– to- Consumer (B2C)	1
Consumer-to Consumer (C2C)	1
Consumer-to-Business (C2B)	1
Direct to Customer (D2C)	1
Peer-to-Peer (P2P)	1
Brokerage Model	1
Aggregator Model.	1
Total	9

Unit: III	
Topics to be covered	**No. of Hours**
E-Commerce Applications in Various Industries	1
Banking, Insurance, Payment Of Utility Bills	1
Online Marketing /E-Tailing (Popularity, Benefits Problems and Features)	2
Online Services (Financial, Travel and Career) /Auctions, Online Portal, Online Learning	3
Publishing and Entertainment	1
Online Shopping	1
Total	9

Unit: IV	
Topics to be covered	**No. of Hours**
E-Advertising techniques: Banners, Sponsorships, Portals, and online coupons	2
Role of Influencers in social media	2
Marketing	2
Porters Value Chain Model-E- Commerce and consumers	2
Consumer Protection (E-Commerce) Rules 2020 and Latest Amendments	1
Total	9

Unit: V	
Topics to be covered	**No. of Hours**
Models and Methods of e–Payments (Debit Card, Credit Card, Smart Cards, e-money)	2
Digital Signatures (procedure, working and legal position)	1
Payment Gateways	1
Online Banking: Meaning, Concepts, Importance, Electronic Fund Transfer	2
Automated Clearing House	1
Automated Ledger posting	1
Risks involved in e-payments.	1
Total	9

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 23UECSE22	**Staff Name: Mr. M. Jamal Mohideen**

Course Name: COMPUTER APPLICATIONS IN ECONOMICS

Unit: I	
Topics to be covered	**No. of Hours**
Computer and Peripherals: Meaning, Types, Features and Limitations	2
Basic Components	1
Input and Output Devices	1
Primary Memory and Secondary Storage	1
Computer Software	1
Types	1
Malicious Software	1
Operating Systems: Functions and Types.	1
Total	9

Unit: II	
Topics to be covered	**No. of Hours**
Windows Explorer - MS Word: Basic Operations in Word	2
Editing	1
Formatting	1
Text Creation of Tables and Volumes	1
MS Power Point Presentation	1
Creating, Opening and Saving Slideshow and Animations	1
MS Excel: Work Sheet and Work Book	1
Opening and Formatting.	1
Total	9

Unit: III	
Topics to be covered	**No. of Hours**
Data Processing Techniques using MS Excel: Concept of Data	2
Record and File	1
Types of Data	1
Data Entry	1
File Handling and Operations–	1
Opening, Appending and Cascading –	1
Closing and Attribute Controls	1
Data Storage and Retrieval.	1
Total	9

Unit: IV	
Topics to be covered	**No. of Hours**
Calculation Operators: Arithmetic Operators	3
Comparison Operators	2
Logical Operations	1
Excel Tool Bars	1
Formatting of Text, Tables and Graphs.	2
Total	9

Unit: V	
Topics to be covered	**No. of Hours**
Descriptive Statistics: Mean, Median, Mode and Standard Deviation Variance	2
Index Numbers and Growth Rates	1
Demand Function	1
Supply Function, Production Function and Consumption Function	2
Demand for and Supply of Money	1
Correlation	1
Regression.	1
Total	9

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code:20UHIC41	**Staff Name: Mr. C.P. Muhammed Kabeer**

Course Name: History of India, 1885 – 1947 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
Indian National Congress	**4**
Moderates- Extremists	**3**
Partition of Bengal	**3**
Swadeshi Movement	**3**
Surat Split	**2**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Gandhi an Era, Rowlett Satyagraha	**4**
Non-Cooperation Movement- Civil Dis- obedience Movement	**4**
Dandi March	**2**
Vedaranyam March	**2**
Quit India Movement	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Rise of Muslim Separatism - The Muslim League	3
Fourteen Points of Jinnah	3
Cripps Mission – Cabinet Mission	3
Dawn of Independence	3
Partition of India	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Revolutionaries in the Freedom Struggle in India and abroad	3
Madam Bhikaiji Cama - Shyamji Krishna Varma	3
Ghadar Party- Yugantar Party	2
National Leaders - G.K. Gokhale - B.G.Tilak - Lala Lajpat Rai - Bipin Chandra Pal	3
Mahathma Gandhi - Jawarhalal Nehru	2
S.C. Bose – Maulana Abulkalam Azad	2
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Role of Tamil Nadu in the National Movement	3
V.O. Chidambaram Pillai - Subramanya Bharathi	3
Subramanya Siva – Tiruppur Kumaran	3
Lakshmi Sahgal	3
Rajaji - Kamaraj	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UHIC42	**Staff Name: Dr. A. Hamza Mubarak**

Course Name: History of Europe, 1453 - 1789 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
Beginning of Modern Era – Geographical Discoveries	3
Causes and Its Impact - Renaissance – Meaning – Causes – Renaissance in Literature	3
Art and Architecture – Sculpture Paintings - Science and Philosophy –Results	3
Reformation – Meaning – Causes – Martin Luther– Calvinism Counter Reformation	2
Reformation -Meaning, Causes - Martin Luther - Calvinism – Counter Reformation - Results of Reformation	4
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Rise of Modern States – Rise of Spain	3
Ferdinand & Isabella – Dutch War of Independence	4
Charles V - Philip II - Rise of France	4
Henry IV- Cardinal Richelieu- Cardinal Mazarin, Thirty Years' War- Causes, Course- Results	4
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Rise of England	3
Henry VII - Henry VIII	4
Elizabeth I - Beginnings of Democratic Era	4
Rise of Parliaments - Glorious Revolution	4
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
The Age of Enlightenment	4
Frederick the Great	3
Peter the Great	4
Catherine II - Maria Theresa - Joseph II	4
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Louis XIV – Achievements	3
Domestic and Foreign Policies	4
France on the eve of the French Revolution	4
Louis XV– Louis XVI – Causes - Course – Results	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

CourseCode:20UHIS41	**Staff Name: C.P. Muhammed Kabeer**

Course Name: Human Rights

Unit: I	
Topics to be covered	**No. of Hours**
Meaning and Definitions of Human Rights – Theories –Magna Carta –Petition of Rights – Bill of Rights	**3**
American War of Independence –French Revolution and Declaration of Rights of Man.	**3**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Universal Declaration of Human Rights (1948) –International Human Rights Commission	**3**
International Covenant on Civil and Political Rights – International Covenant on Social, Economic and Cultural Rights (1976)	**3**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Protection of the Rights of Women –Declaration of Rights of Children (1959) –Rights of the Disabled Persons (1975)	**3**
Declaration of the elimination of all forms of Religious Intolerance - Convention on the Crime of Genocide – Convention on the State of Refugees – Role of U.N.O in the protection of Human Rights.	**3**
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Role of Non – Government Organisations –Amnesty International – Helsinki Declaration – Human Rights Watch – Human Rights in India	3
National Human Rights Commission –State Human Rights Commissions – National Commission for Women – National Commission for Minorities and National Commission for SC and ST.	3
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Protection of Children from Sexual Offences (POCSO) Act, 2012 - Child Labour –Bonded Labour – Forced Labour.	3
Capital Punishment- Human Rights Violations.	3
Total	**6**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

CourseCode:20UHIC61	**Staff Name: Mr. S. Shack Abdullah**

Course Name: Contemporary India from 1947 to 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 2023-24 (EVEN SEMESTER)

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

CourseCode:20UHIC62	**Staff Name: Dr. M. Amzad Ali**

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 2023-24 (EVEN SEMESTER)

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

Course Code: 20UHIC63	**Staff Name: Dr. A. Hamza Mubarak** **Mr. M. Mohamed Asraf**

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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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: History	Programme: III BA History

CourseCode:20UHIC64	Staff Name: Dr. T. Anas Babu Ms. K.C. Raihanath Mr. M. Mohamed Asraf

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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code:20UHIC65	**Staff Name: Ms. K.C. Raihanath** **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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UHVC41	**Staff Name: Mr. C.P. Muhammed Kabeer**

Course Name: History of India, 1885 – 1947 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
Indian National Congress	4
Moderates- Extremists	3
Partition of Bengal	3
Swadeshi Movement	3
Surat Split	2
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Gandhi an Era, Rowlett Satyagraha	4
Non-Co-operation Movement- Civil Dis- obedience Movement	4
Dandi March	2
Vedaranyam March	2
Quit India Movement	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Rise of Muslim Separatism - The Muslim League	3
Fourteen Points of Jinnah	3
Cripps Mission – Cabinet Mission	3
Dawn of Independence	3
Partition of India	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Revolutionaries in the Freedom Struggle in India and abroad	3
Madam Bhikaiji Cama - Shyamji Krishna Varma	3
Ghadar Party- Yugantar Party	2
National Leaders - G.K. Gokhale - B.G. Tilak - Lala Lajpat Rai - Bipin Chandra Pal	3
Mahatma Gandhi - Jawaharlal Nehru	2
S.C. Bose – Maulana Abul kalam Azad	2
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Role of Tamil Nadu in the National Movement	3
V.O. Chidambaram Pillai - Subramanya Bharathi	3
Subramanya Siva – Tiruppur Kumaran	3
Lakshmi Sahgal	3
Rajaji - Kamaraj	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UHVC42	**Staff Name: Dr. A. Hamza Mubarak**

Course Name: History of Europe, 1453 - 1789 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
Beginning of Modern Era – Geographical Discoveries	3
Causes and Its Impact - Renaissance – Meaning – Causes – Renaissance in Literature	3
Art and Architecture – Sculpture Paintings - Science and Philosophy –Results	3
Reformation – Meaning – Causes – Martin Luther– Calvinism Counter Reformation	2
Reformation -Meaning, Causes - Martin Luther - Calvinism – Counter Reformation - Results of Reformation	4
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Rise of Modern States – Rise of Spain	3
Ferdinand & Isabella – Dutch War of Independence	4
Charles V - Philip II - Rise of France	4
Henry IV- Cardinal Richelieu- Cardinal Mazarin, Thirty Years' War- Causes, Course- Results	4
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Rise of England	3
Henry VII - Henry VIII	4
Elizabeth I - Beginnings of Democratic Era	4
Rise of Parliaments - Glorious Revolution	4
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
The Age of Enlightenment	4
Frederick the Great	3
Peter the Great	4
Catherine II - Maria Theresa - Joseph II	4
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Louis XIV – Achievements	3
Domestic and Foreign Policies	4
France on the eve of the French Revolution	4
Louis XV– Louis XVI – Causes - Course – Results	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UHVA41	**Staff Name: Mr. M. Mohamed Asraf**

Course Name: Tourism and Travel Management in India

Unit: I	
Topics to be covered	**No. of Hours**
Introduction	**5**
Concept of Travel Industry	**4**
Transport System – Road – Rail – Air	**4**
Sea and Water ways	**5**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Tour Operator	**4**
Definition-Types of Operator	**5**
Main Functions – Tourist Guide Services	**4**
Qualifications – Various Developments in Travel Office and its Functions	**5**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Package Tour	3
Origin and Types of Package Tours	3
Establishment of Travel Agency and Travel Formalities	3
Passport –(Visitors International Stay Admission) VISA, Emigration Check Not Required (ECNR) – No Objection Certificate (NOC)	3
Foreign Exchange – Medical Certificate	3
Customs and Immigration	3
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Role of Tourism Organization in Travel Industry	5
Essentials of Travel Agency	4
Functions of Travel Agency	4
Travel Agents Association of India	5
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Allied Services	4
Accommodation - Definition	4
Types and Departments	4
Functions - Plans	3
Operation and Management	3
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: History	**Programme: II BA History Vocational**
CourseCode:20UHVS41	**Staff Name: C.P. Muhammed Kabeer**
Course Name: Human Rights	

Unit: I	
Topics to be covered	**No. of Hours**
Meaning and Definitions of Human Rights – Theories –Magna Carta –Petition of Rights – Bill of Rights	**3**
American War of Independence –French Revolution and Declaration of Rights of Man.	**3**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Universal Declaration of Human Rights (1948) –International Human Rights Commission	**3**
International Covenant on Civil and Political Rights – International Covenant on Social, Economic and Cultural Rights (1976)	**3**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Protection of the Rights of Women –Declaration of Rights of Children (1959) –Rights of the Disabled Persons (1975)	**3**
Declaration of the elimination of all forms of Religious Intolerance - Convention on the Crime of Genocide – Convention on the State of Refugees – Role of U.N.O in the protection of Human Rights.	**3**
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Role of Non – Government Organisations –Amnesty International – Helsinki Declaration – Human Rights Watch – Human Rights in India	3
National Human Rights Commission –State Human Rights Commissions – National Commission for Women – National Commission for Minorities and National Commission for SC and ST.	3
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Protection of Children from Sexual Offences (POCSO) Act, 2012 - Child Labour –Bonded Labour – Forced Labour.	3
Capital Punishment- Human Rights Violations.	3
Total	6

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UHVS61	**Staff Name: ~~Mr.~~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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UHVE61	**Staff Name: 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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: HISTORY	**Programme: III B.A. HISTORY Vocational**

Course Code: 20UHVC65	**Staff Name: Mr. M. JAMAL MOHIDEEN**

Course Name: Tourism Project

No. of Hours	**90**
Total	**90**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UHVC64	**Staff Name: Dr. T. Anas Babu** **Ms. K.C. Raihanath** **Mr. M. Mohamed Asraf**

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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UHVC63	**Staff Name: Dr. A. Hamza Mubarak** **Mr. M. Mohamed Asraf**

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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: History	**Programme: III BA History Vocational**
CourseCode:20UHVC62	**Staff Name: Dr. M. Amzad Ali**

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 2023-24 (EVEN SEMESTER)

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

Course Code: 20UHVC61	**Staff Name: Mr. S. Shack Abdullah**

Course Name: Contemporary India from 1947 to 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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20PHIP41	**Staff Name:** **Mr. C.P. Muhammed Kabeer** **Mr. S. Shack Abdullah** **Dr. T.Anas Babu** **Ms. K.C. Raihanath** **Dr. M. Amzad Ali** **Mr. M. Jamal Mohideen**

Course Name: PROJECT WORK

No. of Hours	**90**
Total	**90**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UHIE61	**Staff Name: 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 2023-24 (EVEN SEMESTER)

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

Course Code: 20UHIS61	**Staff Name: Dr. Mr. 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 2023-24 (EVEN SEMESTER)

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

Course Code: 23PHICC21	**Staff Name: C.P. Muhammed Kabeer** **M. Jamal Mohideen**

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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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 23PHICC22	**Staff Name: Dr. M. Amzad Ali & Dr. A. Hamza Mubarak**

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 2023-24 (EVEN SEMESTER)

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

Course Code: 23PHICC23	**Staff Name: Dr. A. Hamza Mubarak** **K.C. Raihanath** **M. Mohamed Asraf**

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 2023-24 (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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TEACHING PLAN
For the Academic Year 2023-24 (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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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: HISTORY	**Programme: I M. Com**

Course Code: 23PHISE21	**Staff Name: 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 2023-24 (EVEN SEMESTER)

Department: History	**Programme: II MA History**

Course Code: 20PHIC41	**Staff Name: Dr. M. Basheer Ahmed Meeran**

Course Name: History of the Arabs 750 – 1258 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
The Abbasids, Establishment of Abbasid Caliphate.	4
Abu Muslim Khorasan, Abdul Abbas Assaffah.	4
Abu Jafar Al Mansur, Foundation of Baghdad, Haroon Al Rashid - Welfare measures, Rise and fall Barmekides.	4
Empress Zubaida, Imam Abu Hanifa, Foreign Policy, Al-Mamun, rise of Babek, Rationalism and Caliph's court.	4
Attack of the Mongols (1258), Fall of Baghdad and Abbasid Caliphate	4
Total	**20**

Unit: II	
Topics to be covered	**No. of Hours**
Administration of Abbasids, Centre, Revenue, Military and Provincial Administration	4
Society, Economy, Religion and Culture under the Abbasids.	4
Contribution of Abbasids to Literature, Mathematics, Science, History, Geography, Philosophy and Medicine.	4
Development of Fine Arts, Paintings, Architecture and Calligraphy.	4
Total	**16**

Unit: III	
Topics to be covered	**No. of Hours**
The Umayyads of Spain, Establishment.	4
Abdur Rahman I and Abdur Rahman II,	4
Abdur Rahman III.	4
Contribution of Umayyads of Spain to Education, Science and Architecture.	4
City of Cardova, The Great Mosque, Azzahara.	4
Total	**20**

Unit: IV	
Topics to be covered	**No. of Hours**
The Fatimid Caliphate.	4
Establishment,Ubaydullah Al Mahdi, Al Hakim, Ismaili Movement.	4
Fall of Fatimids, Contribution of Fatimids to Science, Literature and Architecture.	4
City of Cairo, Al Azhar University.	2
Total	**14**

Unit: V	
Topics to be covered	**No. of Hours**
The Crusades, Causes, Course, Results and Significance,	4
Causes for the failure of European forces and Sects in Islam.	4
Shia and Sunni, Islamic Jurisprudence, Schools of Islamic Law, Hanafi, Imam Abu Hanifa	4
Shafi, Imam Al Shafi,	4
Hanbali,Imam AhamedbinHanbal and Maliki, Imam Malik Ibn Anas.	4
Total	**20**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: History	Programme: II MA History

Course Code: 20PHIC42	Staff Name: Mr. A. Aboobacker Siddiq

Course Name: National Heritage of India

Unit: I	
Topics to be covered	**No. of Hours**
National Heritage, Definition, Historically important Monuments,Sarnath Pillar,Sanchi Stupa.	4
Ajanta and Ellora Caves,Khajuraho Temple, Sun Temple at Konark, Hampi and Shravanabelgola	4
Mahabalipuram Cave Architecture and Shore Temple,Tanjore Big Temple, Madurai Meenakshi Amman Temple	4
Qutub Minar, Purana Quila, Red Fort of Delhi, Agra Fort and Taj Mahal	4
Delhi Jama Masjid and Humayun Tomb, Rashtrapati Bhawan, Parliament Building.	4
India Gate, Gateway of India, Golden Temple, Amritsar, Victoria Memorial, National Museum at Kolkata	4
Total	**24**

Unit: II	
Topics to be covered	**No. of Hours**
The Himalayan Magic, Beautiful Valleys and Mysterious Snow Clad Himalayan Peaks	4
Shimla, KulluManali,	4
Dharmashala of Himachal Pradesh, The Mountains in the Mist.	4
Jammu, Srinagar, Pehalgam, Gulmarg,	4
Leh, Kargil of Jammu and Kashmir.	4
Total	**20**

Unit: III	
Topics to be covered	**No. of Hours**
The Mountain Vistas and View.	3
Dehradun, Mussoorie, Nainital, Almora, Ranikhet of Uttarakhand,	3
Resplendent Rajasthan, Lakes and Deserts.	3
Jaipur, Jodhpur, Jaisalmer, Bikaner	3
Barmer, Udaipur and Mount Abu	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
The Extensive Sun. Drenched Golden Beaches, Goa and Diu	4
Mamallapuram (Tamil Nadu), Gopalpur (Orissa) ,Puducherry	4
The Blue Mountains, Darjeeling of Bengal, Ooty, Coonoor, Kodaikanal and Yercaud (Tamilnadu)	4
Backwaters, Lagoons and Canals	3
Trivandrum, Cochin, Alappuzha, Quilon, Hills- Munnar, ThekkadiPeriyar Dam (Kerala).	4
Total	**19**

Unit: V	
Topics to be covered	**No. of Hours**
A Pattern of Islands in the Bay of Bengal, Port Blair (Andaman and Nicobar), Kavaratti (Lakshadweep).	4
Dachigam Wild – Life Sanctuary (Jammu & Kashmir – Srinagar) Corbett National Park (Uttarkhand– Nainital, Garhwal) Dudhwa National Park (Uttar Pradesh – LakhimpurKheri) Tiger Project at Ranthambhor (Rajasthan – SawaiMadhopur) Kaziranga National Park (Assam – Jorbat)	4
Kanha National Park (Madya Pradesh – Mandla and Balaghat) Gir National Park (Gujarat – Junagarh) Sundarbans National Park (West Bengal – 24 Pargannas) - Bandipur National Park (Karnataka – Mysore) - Mudumalai Wild – life Sanctuary (Tamil Nadu – Nilgiris)	4
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: History	**Programme: II MA History**

Course Code: 20PHIC43	**Staff Name: Mr. S. Shack Abdullah** **Mr. M. Mohamed Asraf**

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

Unit: I	
Topics to be covered	**No. of Hours**
Partition and its effects.	4
Patel and Integration of Indian States	4
Linguistic Re- organisation of the States.	4
Integration of French and Portuguese territories.	4
Creation of New States and Union territories up to 2014.	4
Total	**20**

Unit: II	
Topics to be covered	**No. of Hours**
Administration of Prime Ministers.	4
Jawaharlal Nehru, L.B. Shastri.	4
Indira Gandhi,MorajiDesa.	4
V.P. Singh, Rajiv Gandhi.	4
Narasimha Rao, Vajpayee and Manmohan Singh	4
Total	**20**

Unit: III	
Topics to be covered	**No. of Hours**
Foreign Policy of Independent India.	4
Salient Features, Indo-US Relations.	4
Indo-Soviet Relations, Indo-Pak Relations.	4
Indo-China Relations, India and SAARC, Non-Aligned Movement.	4
Total	**16**

Unit: IV	
Topics to be covered	**No. of Hours**
Five year Plans & NITI Aayog.	3
Green Revolution, White Revolution, Blue Revolution.	4
Industrial and Commercial Progress, Nuclear Research, Pokhran	4
Nuclear Experiments. Bhabha Atomic Research Centre.	4
Space Research, Space Missions, Atomic Energy Commission	4
Total	**19**

Unit: V	
Topics to be covered	**No. of Hours**
Promotion of Education.	3
Dr. Radhakrishnan Commission, A.L. Mudaliar Commission, Kothari Commission	4
New Education Policy, University Grants Commission (UGC)	4
National Council of Educational Research and Training (NCERT),Navodhaya Schools,KendriyaVidyalayas	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: History	**Programme: II MA History**

Course Code: 20PHIE41	**Staff Name: Dr. T.Anas Babu** **Dr. A. Hamza Mubarak**

Course Name: History of World Civilizations Up To 1453 C.E.

Unit: I	
Topics to be covered	**No. of Hours**
Definition, Factors influencing the growth of Civilization.	4
Civilization and Culture, Origin of the World and Species.	4
Egyptian Civilization: Geography The People, Government.	4
Social and Economic conditions, Arts, Religion, Literature	4
Chinese Civilization: Geography, the People, Government, Legacy of the Chinese Civilization.	4
Total	**20**

Unit: II	
Topics to be covered	**No. of Hours**
Sumerian Civilization: Geography, the people, Government.	4
Legacy of the Sumerian Civilization, Babylonian Civilization.	4
Geography, the People, Government.	3
Hammurabi, the Code of Hammurabi – Social and Economic conditions.	4
Arts, Religion, Literature and learning.	4
Indus Valley Civilization.	4
Total	**23**

Unit: III	
Topics to be covered	**No. of Hours**
Greek Civilization.	2
Political Legacy.	2
Legacy in the fields of Art, Architecture, Religion, Philosophy, Literature, Education and Science.	4
Roman Civilization: Political Legacy, Roman Law.	3
Legacy in the fields of Arts, Architecture, Religion, Philosophy, Literature, Education and Science.	4
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
The Byzantine Civilization:	4
Government, Emperor Justinian, Social and Economic conditions.	4
Contributions to Arts, Religion and Philosophy.	4
Feudalism Causes, features, feudal set-up.	4
Feudal services, feudal incidents, Merits Demerits of feudalism, decline of feudalism, Manorial system.	4
Total	**20**

Unit: V	
Topics to be covered	**No. of Hours**
Religions, Christianity, Life and Teachings of Jesus Christ.	4
Islam, Life and Teachings of Prophet Muhammad.	4
Hinduism, Zoroastrianism, Confucianism.	4
Total	**12**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme: I B.Sc Mathematics**
Course Code: 23UMACC22	**Staff Name: Dr .S.Mohamed Basheer**

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
functions, integration of product of powers of algebraic and logarithmic	3
functions - Bernoulli"s formula, Feyman"s technique of integration	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Multiple Integrals	2
definition of double integrals	3
evaluation of double integrals	2
double integrals in polar coordinates	3
Change of order of integrationP	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Triple integrals	2
applications of multiple integrals	2
volumes of solids of revolution	2
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	**2**
infinite integral	**2**
definitions	**3**
recurrence formula of Gamma functions	**3**
properties of Beta and Gamma functions- relation between Beta and Gamma functions Applications	**2**
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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme: I B.Sc Physics**

Course Code: 23UMAGE21	**Staff Name: Dr.S.SEYADALI FATHIMA & Dr.S.MOHAMED BASHEER**

Course Name: ALLIED MATHEMATICS – II - Mathematical Statistics

Unit: I	
Topics to be covered	**No. of Hours**
Primary and secondary data-Primary methods of data collection -	1
Drafting Questions and questionnaires-Sources of secondary data	2
Editing primary data- Editing secondary data	2
Introduction, Classification, Organizing	2
Organizing Quantitative Data	2
Selecting Class Intervals Two way Frequency Distribution	2
Cumulative Frequencies, Types of Tables	1
Total	**12**
Unit: II	
Topics to be covered	**No. of Hours**
The arithmetic Mean-Properties	2
Shortcut Method	2
Weighted arithmetic Mean	2
Quartile -Deciles and Percentile	2
Median	2
Mode	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
The Range- Quartile Deviation-	**3**

Mean Deviation- Standard Deviation	3
Calculation of standard deviation by short cut method	3
Variance and coefficient of variation	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Introduction-Weighted Average of Actual Prices	2
Price Relative Method	2
Quantity Index Numbers	2
Mathematical Test of consistency	2
Fixed and Chain Base Index Numbers-	2
Consumer Price Index Numbers	2
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Introduction-Addition Rule of Probability-	1
Conditional Probability	2
Baye's Theorem-Inverse Probability	2
Inverse Probability	1
Permutations	3
Combinations	1
Random Variable and Probability Distribution	2
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24 (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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TEACHING PLAN

For the Academic Year 2023-24 (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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TEACHING PLAN

For the Academic Year 2023-24 (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 - 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 - Miscellaneous Extras	2
Spacing - Accented Characters – Dashes and Hyphens - Quotation Marks	2
Troubleshooting - Pinpointing the Error - Common Errors - Warning Messages	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Packages - 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 –Sample Report	2
Sample presentation	2
Sample Poster – Internet Resources	2
Total	**6**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme: NME**

Course Code: 23UMASE21	**Staff Name: Dr.P.Anitha**

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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme:** II B.Sc Mathematics

Course Code: : 20UMAC41	**Staff Name:** Dr.P.Anitha

Course Name: Integral Calculas

Unit: I	
Topics to be covered	No.of hours
Integration by parts	3
Reduction formulae $x^n e^{ax}$, $x^n \cos ax$, $e^{ax}\cos bx$, $x^m(\log x)^n$	4
$\sin^m x$,$\cos^n x$, $\tan^n x$, $\cot^n x$, $\sec^n x$, $\operatorname{cosec}^n x$	4
Integration as summation	3
Problems	4
Total	18

Unit: II	
Topics to be covered	No.of hours
Definition of Riemann Integral	3
Darboux's Theorem	3
Necessary and sufficient condition	3
properties of definite integral	3
The first theorem of Mean value	3
Fundamental theorem of integral calculus	3
Total	18

Unit: III	
Topics to be covered	No.of hours
Definitions of Beta and Gamma functions	3
Properties of Beta functions	5
Recurrence formula for Gamma function	5
Applications of Gamma functions to multiple integrals	5
Total	18

Unit: IV	
Topics to be covered	No.of hours
Definitions of double and triple integrals	2
Evaluation of double integrals	4
Change the order in double integrals	4
Evaluation of triple integrals	3
Change of variables in double and triple integrals	2
Transformation from Cartesian to polar, Cartesian to Spherical	3
Total	18

Unit: V	
Topics to be covered	No.of hours
Definition of Fourier series	4
Even and odd functions	4
Expanding f(x) as Fourier series in range $-\pi < x < \pi$.	4
Half range series	2
Change of interval	4
Total	18

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TEACHING PLAN

For the Academic Year 2023-24 (EVENSEMESTER)

Department: Mathematics	**Programme: II B.Sc.Mathematics**

Course Code: 20UMAC42	**Staff Name: Ms.H.HABEEB RANI**

Course Name: Differential Equations and Laplace Transform

Unit: I	
Topics to be covered	**No.of Hours**
Exact differential equations	2
Equations of the first order but of higher degree	2
Equations solvable for y	3
Equations solvable for x and p	2
Clairaut 's form	2
Equations that do not contain x, y explicitly	2
Equations homogeneous in x and y	3
Linear Equations with constant co-efficient	2
Total	**18**

Unit: II	
Topics to be covered	**No.of Hours**
Linear equations with variable co-efficient	6
Equations reducible to the linear homogeneous equations	6
Simultaneous linear equations	6
Total	**18**

Unit: III	
Topics to be covered	**No.of Hours**
Linear equations of the second order	4
Reduction of the normal form	4

Removing the first derivative method	5
Variations of parameters.	5
Total	**18**

Unit: IV	
Topics to be covered	**No.of Hours**
P.D.E. of the first order	3
Formation of P.D.E.	3
Lagrange 's method of solving the linear equations	4
Standard forms	4
Equations reducible to the standard form.	4
Total	**18**

Unit: V	
Topics to be covered	**No.of Hours**
Laplace Transforms – theorems – Problem	4
Evaluation of integrals	3
Inverse Laplace Transforms	4
Solving ordinary D.E. with constant co-efficient and variable co- efficient	3
Simultaneous linear equation using Laplace transforms	4
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme: II- B.Sc., Mathematics**

Course Code: 20UMAA41	**Staff Name: Ms. N. Rayshima**

Course Name: Mechanics

Unit: I	
Topics to be covered	**No. of Hours**
Introduction-Forces acting at a point	2
Resultant and components of forces	2
Triangle law of forces	2
Lami's theorem on forces	3
Resolution of forces	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Introduction - Parallel forces and Moments	2
Forces acting on a rigid body	1
Parallel forces	2
Resultant of two like and unlike parallel forces	2
Moments of a forces	1
Varigon's theorem	2
Three forces acting on a rigid body	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction-Projectiles	2
Characteristics of projectile	4
Maximum horizontal range	2
Problems	4
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Introduction and definition	2
Newton, s Experimental law	2
Impact on smooth spheres	3
Loss of Kinetic energy in impact	2
Problems	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Introduction: Central orbit	2
Polar coordinates	2
Velocity and acceleration along and perpendicular to radius vector	3
Differential equation of n central orbits	2
Pedal equation for the Central Orbits.	3
Total	**12**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme:II B.Sc Computer Science**

Course Code:20UCSA41	**Staff Name: Dr.S.SEYADALI FATHIMA**

Course Name: Numerical Methods

Unit: I	
Topics to be covered	**No. of Hours**
Algebraic and Transcendental Equations	1
Iteration Method	2
Aitken's Method	3
Bisection method	2
Regula Falsi method	2
Newton Raphson method.	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Gauss elimination method	3
Gauss Jordan method	3
Gauss Jacobi iteration method	3
Gauss seidel iteration methods.	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Newton's interpolation formulae	3
central difference interpolation formulae	3
Lagrange's interpolation formulae	3
Inverse interpolation.	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Newton's forward difference	2
Backward difference	2
Maxima of the interpolating polynomial	2
Minima of the interpolating polynomial	2
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	4
Runge Kutta method(one to four orders)	4
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24 (EVENSEMESTER)

Department: Mathematics	**Programme: II B.Sc.Mathematics**

Course Code: 20UMAS41	**Staff Name: Ms. H. HABEEB RANI** **Dr. M. MOHAMED BASHEER**

Course Name:Applications of Differential Equations

Unit: I	
Topics to be covered	**No.of Hours**
Growth and decay	3
chemical reaction	3
Total	**6**

Unit: II	
Topics to be covered	**No.of Hours**
Brachistochrone Problem	3
Tautochronous Property of the Cycloid	3
Total	**6**

Unit: III	
Topics to be covered	**No.of Hours**
Simple electric circuits	3
Falling Bodies	3
Total	**6**

Unit: IV	
Topics to be covered	**No.of Hours**
Simple Pendulum	3
Central Forces	3
Total	**6**

Unit: V	
Topics to be covered	**No.of Hours**
Planetary Motion	3
Dynamical Problem with Variable Mass	3
Total	**6**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme: III B.Sc Mathematics**

Course Code: 20UMAC61	**Staff Name: Dr.S.Mohamed Basheer**

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 –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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TEACHING PLAN

For the Academic Year 2023-24(EVEN SEMESTER)

Department: Mathematics	**Programme: B.Sc., Mathematics**

Course Code: 20UMAC62	**Staff Name:Dr.P.Anitha**

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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TEACHING PLAN

For the Academic Year 2023-24 (EVENSEMESTER)

Department: Mathematics	**Programme: III B.Sc.Mathematics**

Course Code:20UMAC63	**Staff Name: Ms.H.HABEEB RANI**

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	2
Discrete &ContinuousRandom variables	3
Problems	4
Mathematical Expectations(Discrete &ContinuousRandom variables)	2
Problems	4
Total	**15**

Unit: III	
Topics to be covered	**No.of Hours**
Moment generating function	2
Cumulative generating function	2
Binomial distributions	4

Poisson distributions	3
Normal distributions	4
Total	**15**

Unit: IV	
Topics to be covered	**No.of Hours**
Tests of significance of Large Samples-Sampling-Sampling Disruption	2
Testing of Hypothesis-Procedure for testing of hypothesis for large samples-Problems	3
Test of significance for means-Problems	4
Test of significance for standard deviatiion	3
Test of significance for correlation coefficient	3
Total	**15**

Unit: V	
Topics to be covered	**No.of Hours**
Tests of significance based on t-test-Problems	3
Tests of significance based on F-test-Problems	3
Chi-square test for population variance-Problems	2
Chi-square test to test the goodness of fit-Problems	3
Test for independence of attributes-Problems	4
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme: III B.Sc.Mathematics**

Course Code:20UMAC64	**Staff Name: Ms. N. Rayshima**

Course Name: Operations 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	**3**
General LPP Unbounded solution, Infeasible solution	**2**
Canonical form	**2**
Standard form	**3**
Total	**15**

Unit: II	
Topics to be covered	**No.of Hours**
Simplex Method:Introduction	**2**
Simplex method	**3**
Use of Artificial Variables	**2**
Two Phase Simplex method	**2**
Problems	**2**
Big M Method	**2**
Problems	**2**
Total	**15**

Unit: III	
Topics to be covered	**No.of Hours**

Degeneracy in Linear Programming	3
Introduction about Duality	2
Formulating a Dual Problem	3
Fundamental theorem of duality	2
Duality and Simplex Method	2
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 the 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	3
Optimum solution	2
MODI method	2
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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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme:** III B.Sc Mathematics

Course Code: : 20UMAC6P	**Staff Name:** Dr.S.Seyadali fathima & 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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme: III B.Sc., Mathematics**

Course Code: 20UMAE61	**Staff Name: Dr.M.Santhi**

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	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 – Shortest Path Problem	2
Shortest Path Problem	3
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme: III B.Sc Mathematics**

Course Code: 20UMAS6P	**Staff Name: Dr. M.Santhi & Dr.P.Anitha**

Course Name: Math in LaTex

Unit: I	
Topics to be covered	**No. of Hours**
Creating document with different Alignment(Left ,Right ,Centre ,Justify)	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 Mathematical Notation	3
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**

Typing a mathematical Expression using all Inequalities	3
Inserting Picture	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**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	Programme: iii B.Sc., Computer Science

Course Code: 20UCSS61	Staff Name: Dr. S. Seyadali Fathima

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 Structures and 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 and Multimedia	6
Total	**6**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department : Mathematics	**Programme: I - M.Sc**

Course Code : 23PMACC21	**Staff Name : M.VIGNESH BABU**

Course Name : Advanced Algebra

Unit: I	
Topics to be covered	
Extension fields	**9**
Transcendence of e	**9**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Roots of Polynomials.	**9**
More about roots	**9**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Elements of Galois theory	**18**
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	**6**
A theorem of Frobenius	**6**
IntegralQuaternions and the Four - Square theorem.	**6**
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme: I - M.Sc**

Course Code: : 23PMACC22	**Staff Name : Dr.M.VIJAYASANKARI**

Course Name : Real Analysis - II

Unit: I	
Topics to be covered	
Measure on the Real line - Lebesgue Outer Measure	**6**
Measurable sets - Regularity	**6**
Measurable Functions	**3**
Borel and Lebesgue Measurability	**3**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Integration of Functions of a Real variable - Integration of Non- negative functions	**6**
The General Integral	**6**
Riemann and LebesgueIntegrals	**6**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
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	3
Properties of Fourier Coefficients - The Riesz-Fischer Thorem - The convergence and representation problems in for trigonometric series	3
The Riemann - Lebesgue Lemma - The Dirichlet Integrals	3
An integral representation for the partial sums of Fourier series - Riemann's localization theorem - Sufficient conditions for convergence of a Fourier series at a particular point	3
Cesarosummability of Fourier series- Consequences of Fejes's theorem - The Weierstrass approximation theorem	3
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Multivariable Differential Calculus - Introduction - The Directional derivative - Directional derivative and continuity	3
The total derivative - The total derivative expressed in terms of partial derivatives	3
The matrix of linear function - The Jacobian matrix - The chain rule - Matrix form of chain rule	4
The mean - value theorem for differentiable functions - A sufficient condition for differentiability	4
A sufficient condition for equality of mixed partial derivatives - Taylor's theorem for functions of R^n to R^1	4
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Implicit Functions and Extremum Problems : Functions with non-zero Jacobian determinants	4
The inverse function theorem- The Implicit function theorem	4
Extrema of real valued functions of severable variables-	4
Extremum problems with side conditions.	6
Total	**18**

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Unit: III	
Topics to be covered	**No. of Hours**
Separation of variable	2
Vibrating string problem	2
Existence and uniqueness of solution of vibrating string problem	3
Heat conduction problem	2
Existence and uniqueness of solution of heat conduction problem	3
Laplace and beam equations	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Boundary value problems	3
Maximum and minimum principles	2
Uniqueness and continuity theorem	3
Dirichlet Problem for a circle , a circular annulus, a rectangle	3
Dirichlet problem involving Poisson equation	2
Neumann problem for a circle and a rectangle	2
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
The Delta function - Green's function	2
Method of Green's function	2
Dirichlet Problem for the Laplace and Helmholtz operators	3
Method of images and eigen functions	2
Higher dimensional problem- Neumann Problem	2
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme: I- M.Sc**

Course Code:23PMADE21	**Staff Name:Ms.D.Gowsalya**

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	1
Getting help in R -Worked examples of functions	3
Demonstrations of R functions- Packages in R - Contents of packages	3
Installing packages - Command line versus scripts- Data editor	3
Changing the look of the R screen- Good housekeeping - Linking to other computer languages	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Essentials of the R Language	1
Calculations - Complex numbers in R	2
Rounding - Arithmetic -Modulo and integer quotients	2
Variable names and assignment - Operators	2
Integers – Factors-Harmonic mean	2
Writing R functions- Arithmetic mean of a single sample	2
Median of a single sample - Geometric mean	2
Degrees of freedom - Variance ratio test	2
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Plots with two variables- Plotting with two continuous explanatory variables	3
Scatterplots- Adding other shapes to a plot	3
Drawing mathematical functions - Shape and size of the graphics window	3
Plotting with a categorical explanatory variable	3
Plots for single samples - Plots with multiple variables- Special plots	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Probability functions	1
Continuous probability distributions- Normal distribution	1
The central limit theorem - Maximum likelihood with the normal distribution	1
Generating random numbers with exact mean and standard deviation -	1
Comparing data with a normal distribution - Other distributions used in hypothesis testing	3
The chi-squared distribution - Fisher's F distribution -Student's t distribution	2
The gamma distribution- The exponential distribution - beta distribution	2
Cauchy distribution- lognormal distribution - The logistic distribution	2
log-logistic distribution- The Weibull distribution- Multivariate normal distribution	2
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Discrete probability distributions - The Bernoulli distribution	3
The binomial distribution- The geometric distribution	3
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	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (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"sequation	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 variationl 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 $F(x,y,z,y',z')dx$	2

Problem with movable boundaries	2
Problem with movable boundaries for functional of the form $\int F(x,y,z,y',y'')dx$	2
One sided variations	2
Total	12

Unit: IV	
Topics to be covered	No.of hours
Sufficient condition 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 of constrained extrema	3
Constraints of the form $\varphi\ (x,y_1,y_2,.....y_n)=0$	3
Constraints of the form $\varphi\ (x,y_1,y_2,.....y_n\ y_1',y_2',...y_n')=0$-	3
Isoperimetric Problems	3
	12

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme:** I M.Sc Mathematics

Course Code: : 23PMASE2P	**Staff Name**: Dr.A.Benazir

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

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	Programme: II- M.Sc

Course Code: : 20PMAC41	Staff Name: Dr.M.VIJAYASANKARI

Course Name: Topology

Unit: I	
Topics to be covered	**No. of Hours**
Topological spaces	2
Basis for a topology	2
The order topology	2
The product topology on XxY	2
The sub space topology	2
Closed sets and limit Points	3
Continuous functions	3
The product topology	2
Total	18

Unit: II	
Topics to be covered	**No. of Hours**
The Metric topology	6
Connected spaces	6
Connected spaces on a real line	6
Total	18

Unit: III	
Topics to be covered	No. of Hours
Compact spaces	4
Compact sub spaces of the real line	5
Limit point compactness	5
Local compactness	4
Total	18

Unit: IV	
Topics to be covered	No. of Hours
Countability axioms	6
The separation axioms	6
Normal spaces	6
Total	18

Unit: V	
Topics to be covered	No. of Hours
The Urysohn Lemma	5
The Urysohn Metrization theorem	5
Tietze extension theorem	4
The Tychonoff theorem	4
Total	18

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	Programme: II- M.Sc

Course Code: : 20PMAC42	Staff Name: Dr.A.Benazir

Course Name: Functional Analysis

Unit: I	
Topics to be covered	**No. of Hours**
Banach spaces: Definition and examples	6
Continuous Linear transformations	6
The Hahn Banach theorem.	6
Total	18

Unit: II	
Topics to be covered	**No. of Hours**
The Natural Imbedding of N in N**	6
The open mapping theorem	6
The Conjugate of an operator	6
Total	18

Unit: III	
Topics to be covered	No. of Hours
Hilbert Spaces : The definition and some simple properties	6
Orthogonal complements	6
Orthonormal sets	6
Total	18

Unit: IV	
Topics to be covered	No. of Hours
The adjoint of an operato	4
Self adjoint operators	4
Normal and Unitary operators	5
Projection	5
Total	18

Unit: V	
Topics to be covered	No. of Hours
Finite Dimensional Spectral Theory	5
Matrices	3
Determinants and the spectrum of an operator	5
The spectral theorem	5
Total	18

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department : Mathematics	Programme : II - M.Sc
Course Code : **20PMAC43**	Staff Name : M.VIGNESH BABU
Course Name : Optimization Techniques	

Unit: I	
Topics to be covered	
Scope of network applications	1
network definitions	1
minimal spanning tree algorithm	2
shortest route Problem	4
Maximal flow model	4
minimum cost capacitated flow problem	4
CPM and PERT	2
Total	18

Unit: II	
Topics to be covered	No. of Hours
Why study Queues?	1
Elements of queueing models	3
Role of exponential distribution	3
pure birth and death models	4
relationship between exponential and Poisson distributions	4
Generalized Poisson queueing model	3
Total	18

Unit: III	
Topics to be covered	No. of Hours
Specialized Poisson queues	4
(M/M/1) Pollaczek	3
Khintchine (P.K) formula	3
Other queueing models	4
Queueing decision models	4
Total	18

Unit: IV	
Topics to be covered	No. of Hours
Game Theory	6
Optimal solution of two person zero sum games	6
Solution of mixed	6
Total	18

Unit: V	
Topics to be covered	No. of Hours
Unconstrained problems	4
Constrained problems	5
Unconstrained non-linear algorithms	4
Constrained algorithms	5
Total	18

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Mathematics	**Programme: II- M.Sc**

Course Code:20PMAE41	**Staff Name: Ms.D.Gowsalya**

Course Name: Fluid Dynamics

Unit: I	
Topics to be covered	**No. of Hours**
Introductory Notions	1
Streamlines and paths of the particles	1
fluid body	2
Density	1
Pressure	1
Bernoulli's theorem	2
differentiation with respect to time	1
Equation of continuity	1
Boundary conditions: kinematical and physical	2
Rate of change of linear momentum	1
The equation of motion of an inviscid fluid.	2
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Euler's momentum theorem–	2
conservative forces	2
Lagrangian form of the equation of motion	2
steady motion	2
the energy equation	1
rate of change of circulation	2
vortex motion	2

Permanence of vorticity	2
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Two dimensional functions stream function	2
velocity potential	1
complex potential	1
Indirect approach	1
Source	1
Doublet	1
Vortex	1
Mixed flow	1
Circle theorem	2
flow past circular cylinder with circulation	1
Blasius's theorem	1
The aerofoil	1
lift force	1
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
The equations of motion for viscous flow.	2
The stress tensor	2
The Navier – stokes equations	2
vorticity and circulation in a viscous fluid	2
Flow between parallel flat plates	2
coquette flow, plane poiseuille flow steady flow in pipes	3
Hagen Poiseuille flow	2
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Boundary Layer concept	2
Boundary layer equations in two dimensional flow	2

Boundary layer along a flat plate	2
Blasius solution	2
Shearing stress and boundary layer thickness	2
Momentum integral theorem for the boundary layer	3
The Von karman integral relation by momentum law	2
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: NME [I M.Sc. (Zoology)]**

Course Code: 23PPHSE21	**Staff Name: A. Ansar Ahamed & S. Prasanna Subramanian**

Course Name: Medical Physics

Unit: I	
Topics to be covered	**No. of Hours**
Electromagnetic Spectrum – Production of X-Rays –	3
X-Ray Spectrum –Bremsstrahlung – Characteristic X-Ray	3
X-Ray Tubes – Coolidge Tube – X-Ray Tube Design	3
Thermistors – photo electric transducers – Photo voltaic cells – photo emissive cells – Photoconductive cells– piezoelectric transducer	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Introduction - sphygmomanometer	3
Measurement of heart rate - basic principles of electrocardiogram (ECG)	3
Basic principles of electroneurography (ENG)	3
Basic principles of magnetic resonance imaging (MRI)	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Absorbed Dose – Rad to Gray – KERMA – Relative Biological Effectiveness	3

Effective Dose – Sievert (Sv) – Inverse Square Law	3
Interaction of radiation with Matter – Linear Attenuation Coefficient	3
Radiation Detectors: Thimble Chamber – Condenser Chambers – Geiger Counter – Scintillation Counter	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Radiological Imaging – Radiography	3
Filters – Grids – Cassette – X-Ray Film – Film processing	3
Fluoroscopy – Computed Tomography Scanner – Principal Function – Display – Mammography	3
Ultrasound Imaging – Magnetic Resonance Imaging – Thyroid Uptake System – Gamma Camera (Only Principle, Function and display)	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Principles of Radiation Protection – Protective Materials	3
Radiation Effects – Somatic	3
Genetic Stochastic and Deterministic Effect – Personal Monitoring Devices	3
TLD Film Badge – Pocket Dosimeter	3
Total	**12**

Forwarded by

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TEACHING PLAN
For the Academic Year 2023-24 (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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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: I M.Sc. (Physics)**

Course Code: 23PPHDE21	**Staff Name: A. Ansar Ahamed & S. Prasanna Subramanian**

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	2
The phenomenon of double refraction – Normal and oblique incidence	2
Interference of polarized light: Quarter and half wave plates – Analysis of polarized light – Optical activity	2
Total	**12**

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	2
He-Ne laser – CO2 laser – Chemical lasers	2
HCl laser – Semiconductor laser	2
Total	**12**

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	2
Pulse dispersion in multimode optical fibers – Ray dispersion in multimode step index fibers	2
Parabolic-index fibers – Fiber-optic sensors: precision displacement sensor – Precision vibration sensor	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Basic principles – Harmonic generation	3
Second harmonic generation	3
Phase matching	2
Third harmonic generation – Optical mixing	2
Parametric generation of light – Self-focusing of light	2
Total	**12**

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	2
Stark effect – Inverse stark effect – Electric double refraction	2
Kerr electro-optic effect – Pockels electro-optic effect	2
Total	**12**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: I M.Sc. (Physics)**

Course Code: 23PPHCC2P	**Staff Name: 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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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: I M.Sc. (Physics)**

Course Code: 23PPHCC22	**Staff Name: A. Ansar Ahamed & 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**

Forwarded by

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TEACHING PLAN
For the Academic Year 2023-24 (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	3
Micro canonical ensemble	3
Phase space – Entropy - Connection between statistics and thermodynamics	4
Entropy of an ideal gas using the micro canonical ensemble	4
Entropy of mixing and Gibb's paradox	4
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Trajectories and density of states	3
Liouville's theorem and applications	3
Canonical and grand canonical ensembles	4
Partition function - Calculation of statistical quantities	4
Energy and density fluctuations	4
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Density matrix - Statistics of ensembles	3
Statistics of indistinguishable particles - Maxwell-Boltzmann statistics	3
Fermi-Dirac statistics – Ideal Fermi gas – Degeneracy	3
Bose-Einstein statistics - Plank radiation formula	3
Ideal Bose gas - Bose-Einstein condensation.	3
Total	**15**

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	5
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	4
Fluctuations and transport phenomena - Brownian motion - Langevin's theory	4
Fluctuation-dissipation theorem - The Fokker-Planck equation.	4
Total	**21**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: II M.Sc. (Physics)**

Course Code: 20PPHE41	**Staff Name: A. Ansar Ahamed & S. Prasanna Subramanian**

Course Name: Molecular Spectroscopy

Unit: I	
Topics to be covered	**No. of Hours**
Classification of Molecules - Interaction of Radiation with Rotating Molecule-Rotational Spectra of Rigid Diatomic Molecules	4
Isotope Effect in Rotational Spectra - Intensity of Rotational Lines	2
Non-Rigid Rotator - Liner Polyatomic Molecules	2
Symmetric Top Molecules - Asymmetric Top Molecules	4
Stark Effect - Quadrupole Hyperfine Interaction – Microwave spectrometer	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Vibrational Energy of a Diatomic Molecule - Infrared Selection Rules	2
Vibrating Diatomic Molecule - Diatomic Vibrating Rotator	2
Asymmetry of Rotation - Vibration Band - Vibration of Polyatomic Molecules	3
Normal vibrations of (CO2&H2O) molecules – More about Anharmonicity	3
Rotation Spectra of Polyatomic Molecule	2
Rotation – Vibration spectra of polyatomic molecules.	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Theory of Raman Scattering - Rotational Raman Spectra - Vibrational Raman Spectra	3
Mutual Exclusion Principle - Raman Spectrometer - Sample Handling Techniques	3
Structure Determination Using IR and Raman Spectroscopy	3
Molecules of Type XY2, XY3	3
Raman Investigation of Phase Transitions	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Vibrational Coarse Structure - Vibrational Analysis of Band Systems - Deslandres Table	2
Information derived from Vibrational analysis - Franck - Condon Principle	4
Intensity of Vibrational Electronic Spectra	2
Rotational Fine Structure of Electronic - Vibration Spectra	3
The Fortrat Parabolae	2
Dissociation - Predissociation	1
Electronic Angular Momentum in Diatomic Molecules	1
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Magnetic properties of Nuclei - Resonance Condition	2
NMR Instrumentation - Additional Experimental Techniques	4
Relaxation Process - Bloch Equations – Dipolar Interaction	3
Chemical Shift – Principle of ESR – Hyperfine structure	3
ESR spectrum of hydrogen atom - spin I=1- spin I=1/2	3
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: II M.Sc. (Physics)**

Course Code: 20PPHC4P	**Staff Name: A. Ansar Ahamed**

Course Name: Practical-IV

Topics to be covered	No. of Hours
1. JK up - down counter four bit. 2. Ring counter. 3. Karnaugh mapping. 4. Shift Register - Serial in/ Serial out SISO/SIPO. 5. Quincke's method - Study of susceptibility of diamagnetic materials. 6. Guoy's method - Study of susceptibility of diamagnetic materials. 7. Hall effect. 8. Ultrasonic studies - velocity of sound, Adiabatic compressibility of liquid. 9. Encoder and Decoder. 10. Four probe Experiment. 11. Viscosity of Liquid-Meyer's Oscillation method 12. Stefan's constant	150
Total	**150**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: II M.Sc. (Physics)**
Course Code: 20PPHC4D	**Staff Name: S. Prasanna Subramanian**
Course Name: Project	

Topics to be covered	No. of Hours
1. Describe the different types of solar events and interstellar activities 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. Discus research methodologies along with literature survey	75
Total	**75**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: II M.Sc. Physics**

Course Code: 20PPHC42	**Staff Name: Ms. K. ROOBINI**

Course Name: Nuclear, Particle and Astrophysics

Unit: I	
Topics to be covered	**No. of Hours**
Determination of q/m for alpha particle, Range of alpha particle, Energy of alpha particle	3
Range-velocity-energy-half-life relations, alpha decay,Energy,Mass number	3
Alpha particle spectra, Gamow's theory of alpha decay, advances in the theory of alpha decay	3
Beta spectroscopy, the neutrino, energy, half-life relationships, Fermi theory of beta decay	3
Classification of beta transitions, general theory of beta decay, electron capture, violation of parity conservation of beta decay	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Measurement of gamma ray energies, multipole radiations, internal conservation	3
Internal pair creation, nuclear isotherm, Coulomb excitation	3
Angular distribution and directional correlation in gamma emission	3
Measurement of life time of nuclear states, nuclear resonance fluorescence,	3
Mossbauer effect	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction, production of elementary particles	3
Types of interaction (Gravitational, Electromagnetic, Strong and Weak)	3
Classification of elementary particles	3
Mass spectra and decays of elementary particle (Electrons, Meson, Neutrino, Hadrons, Mesons, Baryons)	3
Particle symmetries, quarks, quantitative description of quark model	3
Total	15

Unit: IV	
Topics to be covered	**No. of Hours**
Stars, stellar spectra, colours of starts	3
Spectral classification stars, luminosity classification of stars	3
Hertz sprung, Russel diagram, stellar evolution, stellar population, population I and II	3
Star cluster, open cluster, globular cluster	3
Variable stars, energy generation in stars, PP and CN chain reactions. Derivation for internal and external temperature of star	3
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Sun, internal structure of sun, sun spots and magnetic fields on the sun, solar activity	5
Hubble classification of galaxies, spiral galaxies, elliptical galaxies, irregular galaxies, dwarf galaxies, Milky way	5
Dark matter, cosmological models, steady state theory, Big bang theory	5
Hubble's law, White dwarfs, Neutron stars and black holes	5
Expression for basic physics of black holes.	5
Total	15

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: PHYSICS	**Programme: II M.Sc. PHYSICS**
Course Code: 20PPHC41	**Staff Name: R. Yoga**
Course Name: CONDENSED MATTER PHYSICS - II	

Unit: I	
Topics to be covered	**No. of Hours**
Semiconductors: Intrinsic and Extrinsic semiconductors	3
Carrier concentration in semiconductors – Fermi level and carrier concentration in semiconductors	3
Mobility in charge carriers – Effect of temperature on mobility	3
Electrical conductivity of semiconductors – Hall effect in semiconductors	3
Junction properties: Metal-Metal junction – Metal-Semiconductor junction – Semiconductor-Semiconductor (p-n) junction.	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Dielectrics: Dipole moment and Polarization – Electric field of dipole	3
Local electric field at an atom (Depolarization, Lorentz and Dipoles) – Dielectric constant and its measurement	3
Polarizability: Electronic and Ionic – The classical theory of electronic polarizability – Dipolar polarizability	3
PIEZO-PYRO-AND ferroelectric properties of crystals	3
Ferroelectricity – Ferroelectric domain.	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Optical properties: Absorption processes – Photoconductivity and its measurement	3
Photoelectric effect – Photovoltaic effect – Photoluminescence and Colour centers	3
Types of colour centers: Electronic and Hole – Generation of colour centers	3
Maser and Laser: Absorption and Emission – Population Inversion	3
Ammonia-Beam maser – Types of laser.	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Magnetic properties: Classification of magnetic materials – Atomic theory of magnetism	3
Origin of permanent magnetic moments – Langevin's classical theory: Diamagnetism and Paramagnetism	3
Quantum theory of paramagnetism – Ferromagnetism – Weiss molecular field	3
Temperature dependence of spontaneous magnetization – Ferromagnetic domains	3
Domain theory – Antiferromagnetism – Ferromagnetism and Ferrites	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Superconductivity: Occurrence of superconductivity – Response of magnetic field to superconductivity	4
The meissner effect – Thermodynamics of superconducting transition – Origin of energy gap	4
London equation – London penetration depth – Coherence length – Elements of BCS theory	3
Flux quantization – Normal tunneling and Josephson Effect	3
High-$T_C$superconductivity	1
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: PHYSICS	**Programme: III 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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TEACHING PLAN

For the Academic Year 2023-24 (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	2
Chromosphere – Corona – Sunspots - Sunspot groups	2
Sunspot cycle –Coronal Mass Ejections (CMEs)	3
Solar Prominences - Solar Flares - Solar Wind	2
Communication disturbances – Auroras.	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Stellar Parallax - Distance units - Stellar motions	3
Star light measurements - luminosity and brightness of Star	3
Colours of Star-Spectra of Stars –Hertzsprung-Russell diagram	3
Luminosity classification – Stellar diameters.	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Nuclear energy for stars – Thermo Nuclear reactions	3
Stellar evolution - birth of Star - Main Sequence stars –Cepheid variables	3
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.	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Identifying Galaxies - Galaxy nomenclature - Types of Galaxies	2
Spiral-Elliptical - irregular galaxies - Milky Way Galaxy and its structure	3
Properties of Galaxies - Visual binaries- Mass of a binary system	2
Mass luminosity relationship- Star clusters	3
Galactic clusters-Pulsars – Quasars.	2
Total	**12**

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	3
Cosmological models – Steady state theory	3
Big bang theory – Origin of the cosmic background radiation.	3
Total	**12**

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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 and M.Sangareswari**
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**

Forwarded by

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TEACHING PLAN

For the Academic Year 2023-24 (ODD/EVEN SEMESTER)

Department: PHYSICS	**Programme: III B. Sc., PHYSICS**
Course Code: 20UPHC6Q	**Staff Name: Dr. M. CHARLES ROBERT & M. SANGARESWARI**
Course Name: MAJOR PHYSICS 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. 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. BCD counter.	45
Total	**45**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: III B.Sc. Physics**
Course Code: 20UPHC6P	**Staff Name: Dr. A. Mujiber Rahman and 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**

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TEACHING PLAN

For the Academic Year 2023-24 (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
Classification of bonds in solids - ionic , covalent, Metallic, molecular and hydrogen bonds and its properties	2
Introduction about Crystals and amorphous solids - Fundamental terms of crystallography	1
Classifications of crystals 14 types of Bravis lattices	2
Unit cell and Miller indices –Salient features of Miller indices	2
Structure of Simple cubic crystals	1
Crystal structures of BCC, FCC and	2
Structure of Hexagonal closed packed structure and Zinc blende	2
Total	**12**

Unit: II

Topics to be covered	No. of Hours
Free Electron theory of solids – classification of conducting materials	3
Drift velocity–mobility - mean free path - relaxation time	2
Expression for electrical and thermal conductivity - Widemann Franz law	3
Super conductivity and its general properties of super conducting materials	2
Types of superconductors – applications.	2
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Classification of solids on the basis of energy band theory	2
Classification of semiconductors and its applications	2
Carrier concentration in an intrinsic semiconductor	3
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	2
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.	2
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	2
Experimental determination of dielectric constant and dielectric loss	2
Sources of dielectric strength and breakdown - properties and applications of dielectrics	3
Total	**12**

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STAFF

Hajee Karutha Rowther Howdia College

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN
For the Academic Year 2023-24 (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

Dean

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: III B.Sc. 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**

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TEACHING PLAN
For the Academic Year 2023-24 (ODD/EVEN SEMESTER)

Department: PHYSICS	**Programme: II B. Sc., CHEMISTRY**
Course Code: 20UPHA4P	**Staff Name: Mr. J. HAKKIM & Dr. M. CHARLES ROBERT**
Course Name: ALLIED PHYSICS PRACTICAL	

Topics to be covered	No. of Hours
1. Determination of self-inductance of a coil- LCR series resonance circuit. 2. Determination of wavelength of mercury spectrum-Spectrometer-Grating. 3. Logic gates AND, OR, NOT using discrete components. 4. Determination of acceleration due to gravity (g)-Compound pendulum. 5. Young's modulus-optic lever – Uniform bending. 6. Sonometer – Verification of laws. 7. Determination of coefficient of viscosity – Stoke's method. 8. Owen's bridge – Determination of self - inductance of the given coil. 9. Logic gates NAND, NOR and NOT using discrete components. 10. Determination of rigidity modulus – Torsional pendulum. 11. Air wedge – Determination of diameter of a thin wire. 12. Bridge rectifier π filter– Calculation of percentage of regulation.	30
Total	**30**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: II B.Sc., CHEMISTRY**

Course Code: 20UPHA41	**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 (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**
Junction diodes, Forward and Reverse bias	**2**
Diode characteristics, Types of diodes (LED and Zener)	**2**
Bridge rectifier using diodes (π filter)	**1**
Transistors, Characteristics (CE) mode only	**2**
Biasing and action of a transistor	**1**
Single stage (CE) amplifier, Frequency response	**2**
Hartley oscillator	**1**
Modulation (qualitative study)	**1**
Total	**12**

Unit: V (Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
Binary number system	**2**
Reason for using binary numbers	**2**
Binary to decimal and decimal to binary conversions	**1**
Addition and subtraction of binary numbers	**1**
Logic circuits, Boolean algebra	**1**
De Morgan's theorem	**1**
OR,AND,NOT,NOR and NAND gates	**2**

NOR and NAND gates as universal building blocks	1
XOR gates	1
Binary number system	2
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24 (ODD & EVEN SEMESTER)

Department : Physics	**Programme: II-Physics**
Course Code : 20UPHC4P	**Staff Name: Dr. A. Mujiber Rahman** **Dr. M. Fathima Parveen**
Course Name :	**Core Practical**

Topics to be covered	No. of Hours
1. Spectrometer-Dispersive power of a prism	
2. Newton's ring-Determination of radius of Curvature	
3. Spectrometer-i-d Curve	
4. B.G - Comparison of E.M.F	
5. De-Sauty's Bridge	
6. Determination of M and BH axial coil method	
7. Owen's Bridge-Comparison of Capacitances	
8. Table Galvanometer-Figure of Merit	
9. Determination of B_H axial coil method	
10. Air wedge-Determination of thickness of a wire	
11. Spectrometer-Normal incidence method	
12. B.G-Charge sensitivity	
13. Frequency of AC Mains by using Sonometer.	
14. Potentiometer-High range Voltmeter	
15. Determination of M and B_H axial coil method	
16. Figure of Merit - BG	
Total	**45**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Physics	**Programme: II B.Sc. Physics**

Course Code: 20UPHC42	**Staff Name: Dr. A. MUJIBER RAHMAN**

Course Name: MODERN PHYSICS

Unit: I	
Topics to be covered	**No. of Hours**
Introduction- Atom model – Bohr atom model- Somerfield relativistic atom model- Elliptical orbits - Relativistic variation of atomic mass.	**3**
Limitations of Sommerfield atom model - Vector atom model - spatial quantization and spinning electron hypothesis – Quantum numbers.	**3**
Stern and Gerlach experiment - coupling schemes-Pauli's exclusion principle	**3**
Electronics structure of atoms - Zeeman effect – quantum theory of Normal Zeeman effect.	**3**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
X-rays-characteristics and continuous X-rays.	**3**
Properties of X- rays -Applications-Duane and Hunt law	**3**
Mosley's law and its importance.	**3**
Compton effect – Theory and experimental verification.	**3**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction-Blackbody radiation – Planck's hypothesis - Dual nature of matter and radiation - De Broglie's hypothesis of matter waves.	3
De Broglie's wavelength - Davission's and Germer experiment - G.P.Thomson's experiment with relativistic correction.	3
Concept of wave packets for a quantum particle- group velocity and wave velocity and their relations	3
Heisenberg's uncertainty principle through experiment-illustration. Diffraction of electron through a single slit Experiment.	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Limitations of classical theory- Basic postulates of wave Mechanics-Derivation of time dependent Schrodinger wave equation.	3
Derivation of Time independent Schrodinger wave equation.wave function–	3
Physical significance of wave function – Probability density and expression for probability current density.	3
Expectation value – Normalization of wave function of simpler types	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Application of Schrodinger wave equation	3
Schrodinger equation for a free particle in one dimensional potential well	3
Eigen function and Eigen values –Particle in one dimensional box.	3
Barrier penetration problem(potential step).	3
Total	**12**

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TEACHING PLAN

For the Academic Year 2022-23 (EVEN SEMESTER)

Department : Physics	**Programme : II-Physics**

Course Code : 20UPHC41	**Staff Name : Dr. M. Fathima Parveen**
Course Name :	**MATHEMATICAL PHYSICS**

Unit: I	
Topics to be covered	**No. of Hours**
Vector Calculus-Addition of vectors-Multiplication of vector and Scalar	2
Triple product of vectors -Reciprocal system of vectors	2
Differentiation and integration of vectors	3
Partial derivative of vectors-Gradient and Divergence	2
Curl-Laplace operators and Applications of vectors-Work done	3
Dipole moment-Angular momentum-IR and Raman Spectroscopy	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Introduction of matrices -Square, diagonal and constant matrices	2
real, Symmetric and Hermitian matrices-Normal matrix-	2
Triangular matrix- Inverse matrix-	3
Inverse transformation-Orthogonal matrix	2
Unitary matrix and their transformations	3
Cramer"srule-Eigen values -Eigen vectors -Simple Applications.	3
Total	**15**

Unit: III	
Topics to be covered	No. of Hours
Differential equations of First order degree-Variable separable	2
Homogeneous equations- Linear differentiable equation	3

Exact differential equations-Linear equations with constant coefficients	2
Solutions of homogeneous and non-homogeneous linear equations	2
Partial differential equations-	3
Applications- Zeroth, First order of thermodynamics, Particle in one and three dimensional box.	3
Total	15

Unit: IV	
Topics to be covered	No. of Hours
Types of functions-Limits-Continuity-Discontinuity	2
Differential coefficient of some standard functions-Sum, Product, Quotient of two functions	3
Applications- Euler's theorem	3
Thermodynamic equations of state	2
Law of thermodynamics- Differential Heat of solution	3
Free Energy-Kirchoff's law-Schrodinger wave equation	2
Total	15

Unit: V	
Topics to be covered	No. of Hours
Fourier series- Dirichlet's theorem	2
Fourier coefficient cosine and sine series	3
Fourier Complex form ofFourier series	3
Applications of Fourier series-Square and Rectangular wave	2
Fourier transform-Sine and Cosine transform-Parseval's identities	3
Fourier transform of Derivatives-Evaluation of integrals-Simple problems.	2
Total	15

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: PHYSICS	**Programme: I - B.Sc., MATHS**

Course Code: 23UPHGE2P	**Staff Name: Dr. T. K. THIRUMALAISAMY & 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 2023-24 (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**
Thermal conductivity – Lee's disc method for conductivity of Bad conductor	**2**
Analogy between heat flow and electric current	**2**
Wiedemann-Franz law. Convection in atmosphere – Lapse rate - Stability of atmosphere - Greenhouse effect. Stefan's law	**2**
determination of Stefan's Constant by filament heating method – Solar constant measurement – Water flow Pyrheliometer	**2**
temperature of the Sun – solar spectrum	**2**
energy distribution in black body spectrum – Planck's law (no derivation)	**2**
derivation of Wien's and Rayleigh Jean's laws from Planck's law.	**2**
Total	**12**

Unit: V (Mr. J. HAKKIM)	
Topics to be covered	**No. of Hours**
p-n junction diode – forward andreverse biasing	**2**
characteristic of diode – zener diode – characteristic of zener diode	**2**
voltage regulator – full wave bridge rectifier – construction and working	**2**
advantages (no mathematical treatment)	**2**

USB cell phone charger	2
introduction to e-vehicles and EV charging stations	2
Total	**12**

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TEACHING PLAN
For the Academic Year 2023-24 (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

shutter – 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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: PHYSICS	**Programme: (SEC-2) NON MAJOR ELECTIVE(NME-I)**
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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: PHYSICS	Programme: I - B.Sc., PHYSICS

Course Code: 23UPHCC2P	Staff Name: Dr. T. K. THIRUMALAISAMY & Dr. M. FATHIMA PARVEEN

Course Name: MAJOR PRACTICAL - II

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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TEACHING PLAN
For the Academic Year 2023-24 (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	**4**
Joly's method for determination of C_V – Regnault's method for determination of C_P Joule-Kelvin effect – porous plug experiment	**4**
Joule-Thomson effect –Boyle temperature – temperature of inversion – liquefaction of gas by Linde's Process – adiabatic de magnetization.	**4**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Zeroth law and first law of thermodynamics – P-V diagram	**4**
Heat engine –efficiency of heat engine – Carnot's engine	**4**
Construction, working and efficiency of petrol engine and diesel engines – comparison of engines	**4**
Total	**12**

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	**4**
T-S diagram –thermos dynamical scale of temperature – Maxwell's thermodynamical relations –Classius-Clapeyron's equation (first latent heat equation)	**4**
Third law of thermodynamics – unattainability of absolute zero – heat death	**4**
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Modes of heat transfer: conduction, convection and radiation	**4**
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	**4**
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	**4**
Total	**12**

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	**4**
Maxwell-Boltzmann statistics – expression for distribution function – Bose-Einstein statistics – expression for distribution function	**4**
Fermi-Dirac statistics –expression for distribution function – comparison of three statistics	**4**
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24 (EVENSEMESTER)

Department: Chemistry	**Programme: I B.Sc., Chemistry**

Course Code:23UCHCC21	**Staff Name:Dr. S. Sivakumar(Unit-1 & 5)** **Dr. M. JannathulFirdhouse(Unit-3 & 4)** **Ms. A. Mumthaj (Unit-2)**

Course Name:General Chemistry–II

Unit: I	
Topicsto becovered	**No.ofHours**
Concepts of Acids and Bases - Arrhenius concept, Bronsted-Lowry conceptLewisconcept;Relativestrengthsofacids,basesanddissociationconstant; dissociation of poly basic acids, ionic product of water, pH scale, pH of solutions.	4
Degree of dissociation, common ion effect, factors affecting degreeof dissociation; acid base indicators, theory of acid base indicators – action ofphenolphthalein 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 strongacids, weak acids and weak bases.	4
Hydrolysis constant, degree of hydrolysisand relation between hydrolysis constant and degree of hydrolysis;Solubility product - determination and applications; numerical problems involving the core concepts.	3
Total	**15**

Unit: II	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
Generalcharacteristicsofelementsof Group15;chemistryof H_2N-NH_2,NH_2OH,HN_3andHNO_3.ChemistryofPH3,PCl_3,PCl_5,$POCl_3$,P_2O_5andoxyacidsofphosphorous(H_3PO_3andH_3PO_4).	4
Generalpropertiesofelementsofgroup16-Structureandallotropyofelements - chemistry of ozone - Classification and properties of oxides- oxidesofsulphurandselenium–Oxyacidsofsulphur(Caro'sandMarshall'sacids).	4
Chemistry ofHalogens:Generalcharacteristicsofhalogenwithreferencetoelectro-negativity,electronaffinity,oxidationstatesandoxidizingpower.Peculiarities of fluorine. Halogen acids(HF,HCl,HBr and HI),oxidesandoxy acids ($HClO_4$). Inter-halogen compounds (ICl, ClF_3, BrF_5 and IF_7), pseudohalogens[$(CN)_2$and$(SCN)_2$]andbasicnatureoflodine.	5
Noblegases:Positionintheperiodictable.Preparation,propertiesandstructure of XeF_2, XeF_4, $XeF_6$and $XeOF_4$; uses of noble gases - clathratecompounds.	2
Total	**15**

Unit: IV	
Topicsto becovered	**No.ofHours**
Petroproducts: Fractionaldistillationofpetroleum;cracking,isomerisation,alkylation,reforminganduses.	1
Alkenes: Nomenclature,generalmethodsofpreparation–Mechanismofβ -elimination reactions – E1 and E2 mechanism - factors influencing –stereochemistry–orientation–HofmannandSaytzeffrules.Reactionsofalkenes–additionreactions–mechanisms–Markownikoff'srule,Kharascheffect,oxidationreactions–hydroxylation,oxidativedegradation,epoxidation,ozonolysis;polymerization.	4
Alkadienes: Nomenclature-classification–isolated,conjugatedandcumulateddienes;stability of conjugated dienes; mechanism of electrophilic addition to conjugateddienes-1,2and1,4additions;freeradicaladditiontoconjugateddienes–Diels-Alderreactions–polymerisation–polybutadiene,polyisoprene(naturalrubber),vulcanisation,polychloroprene.	5
Alkynes: Nomenclature;generalmethodsofpreparation,propertiesandreactions;acidicnature ofterminalalkynesandacetylene,polymerisationandisomerisation.	2
Cycloalkanes:Nomenclature,Relativestabilityofcycloalkanes,Bayer'sstraintheory anditslimitations.Conformationalanalysisofcyclohexane,monoanddisubstitutedcyclohexanes.Geometricalisomerismincyclohexanes.	3
Total	**15**

Unit: V	
Topicsto becovered	**No.ofHours**
Benzene:Source,structureofbenzene,stability ofbenzenering,molecularorbitalpictureofbenzene,aromaticity,Huckel's(4n+2)ruleandit sapplications.	2
Electrophilicsubstitutionreactions-Generalmechanismofaromaticelectrophilicsubstitution-nitration,sulphonation,halogenation,Friedel-Craft'salkylationandacylation.	4
Monosubstitutedanddisubstitutedbenzene-Effectofsubstituent–orientationand reactivity.	2
Polynuclear Aromatic hydrocarbons: Naphthalene – nomenclature, Haworthsynthesis;physicalproperties,reactions–electrophilicsubstitutionreaction,nitration, sulphonation, halogenation, Friedel – Crafts acylation & alkylation,preferentialsubstitutionat-position –reduction,oxidation–uses.	4
Anthracene – synthesis by Elbs reaction, Diels – Alder reaction and Haworthsynthesis;physicalproperties;reactions-Diels-Alderreaction,preferentialsubstitutionatC-9andC-10;uses.	3
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (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 (Not for Examination)** • 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 citrus fruits/eucalyptus leaves. **Chromatography(anyone)(Groupexperiment)** • SeparationofaminoacidsbyPaperChromatography • ThinLayerChromatography-mixtureofsugars/plantpigments/permanganatedichromate. • ColumnChromatography-extractionofcarotene,chlorophyllandxanthophyllfrom leaves/separationofanthracene-anthracenepicrate. **Electrophoresis** • Separationofaminoacidsandproteins. **Demonstration** • Isolationofcaseinfrommilk • Determinationofsaponificationvalueofoilorfat • Estimationofaceticacidfromcommercialvinegar. (AnyoneGroupexperiment)(4,5&6–notforESE).

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme: I B.Sc., Zoology**

Course Code: 23UCHGE21	**Staff Name: Dr. N.M. Abdul Khader Jailani (Unit: 2, 3.1 & 5)** **Dr. M.P. Kesavan (Unit: 1, 3.1, 4)**

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'stheory - EAN rule - Pauling's theory – Postulates - Applications to $[Ni(CO)_4]$, $[Ni(CN)_4]^{2-}$, $[Co(CN)_6]^{3-}$ Chelation.	6
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**
Classification, preparation and properties of glucose and fructose.	4
Discussion of open chain ring structures of glucose and fructose. Glucose-fructose interconversion.	4
Preparation and properties of sucrose, starch and cellulose.	4
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Classification - preparation and properties of alanine, preparation of dipeptides using Bergmann method.	4
Proteins- classification – structure - Colour reactions – Biological functions – nucleosides -nucleotides – RNA and DNA – structure.	4
Essentials of trace metals in biological system-Na, Cu, K, Zn, Fe, Mg.	4
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Galvanic cells - Standard hydrogen electrode - calomel electrode - standard electrode potentials -electrochemical series.	4
Strong and weak electrolytes - ionic product of water -pH, pKa, pKb.	2
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**
Grothus - Drapper's law and Stark-Einstein's law of photochemical equivalence, Quantum yield – Hydrogen – chloride reaction.	6
Phosphorescence, fluorescence, chemiluminescence and photosensitization and photosynthesis (definition with examples).	6
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme: I B.Sc., Zoology**
Course Code: 23UCHGE2P	**Staff Name: Dr. N.M. Abdul Khader Jailani** **Dr. M.P. Kesavan**
Course Name: Chemistry Practical for 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.

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TEACHING PLAN

For the Academic Year 2023-24 (EVENSEMESTER)

Department: Chemistry	**Programme: I B.A., B.Sc., & B.Com., (NME)**

Course Code:23UCHSE21	**Staff Name:Ms. A. Soniya(Unit-1 to 5)**

Course Name:Dairy Chemistry

Unit: I	
Topicsto becovered	**No.ofHours**
Milk-definition-general composition of milk- constituents of milk - lipids, proteins, carbohydrates, vitamins and minerals - physical properties of milk - colour, odour, acidity, specific gravity, viscosity and conductivity.	3
Factors affecting the composition of milk - adulterants, preservatives with neutralizer-examples and their detection- estimation of fat, acidity and total solids in milk.	3
Total	**6**

Unit: II	
Topicsto becovered	**No.ofHours**
Microbiology of milk - destruction of micro - organisms in milk, physico – chemical changes taking place in milk due to processing - boiling, pasteurization – types of pasteurization.	4
Bottle, Batch and HTST (High Temperature Short Time) – Vacuum pasteurization – Ultra High Temperature Pasteurization.	2
Total	**6**

Unit: III	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
Standardised milk - definition - merits - reconstituted milk - definition - flow diagram of manufacture - Homogenised milk - flavoured milk - vitaminised milk.	3
Toned milk - Incitation milk - Vegetable toned milk - humanized milk - condensed milk - definition, composition and nutritive value.	3
Total	**6**

Unit: V	
Topicsto becovered	**No.ofHours**
Fermented milk products – fermentation of milk - definition, conditions, cultured milk - definition of culture - example, conditions - cultured cream, butter milk.	2
Bulgarious milk -acidophilous milk – YoheerIndigeneous products- khoa and chhena definition - Ice cream – definition-percentage composition – types – ingredients.	2
Manufacture of ice–cream, stabilizers – emulsifiersandtheirrole – milkpowder – definition –needformakingmilkpowder- drying process-types of drying.	2
Total	**6**

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TEACHING PLAN

For the Academic Year 2023-24 (EVENSEMESTER)

Department: Chemistry	**Programme: I B.Sc., Chemistry**

Course Code:23UCHSE22	**Staff Name:Ms. A. Soniya (Unit-1 to 5)**

Course Name:Cosmetics and Personal Care Products

Unit: I	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
Hair care: Shampoos – types – powder, cream, liquid, gel – ingredients; conditioner – types – ingredients.	4
Dental care: Tooth pastes – ingredients – mouth wash.	2
Total	**6**

Unit: III	
Topicsto becovered	**No.ofHours**
Make up: Base – foundation – types – ingredients; lipstick, eyeliner.	3
Mascara, eye shadow, concealers, rouge.	3
Total	**6**

Unit: IV	
Topicsto becovered	**No.ofHours**
Classification - Natural – plant origin – parts of the plant used, chiefconstituents; 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	
Topicsto becovered	**No.ofHours**
Beauty treatments: Facials - types – advantages – disadvantages; face masks – types; bleach - types – advantages– disadvantages; shaping the brows; eyelash tinting; perming.	3
Types; hair colouring and dyeing; permanent waving – hair straightening; wax.	2
Types – waxing; pedicure, manicure - advantages – disadvantages.	1
Total	**6**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme: II B.Sc. Chemistry**

Course Code: 20UCHC41	**Staff Name: Dr. K. Shahul Hameed (Unit – IV)** **Ms. A. Nihath Nazleen (Unit – V)** **Dr. M. P. Kesavan (Unit – I, II & III)**

Course Name: Organic and Physical Chemistry

Unit: I	
Topics to be covered	**No. of Hours**
Aromatic nitro compounds: Preparation and properties of nitrotoluenes and nitrobenzene	**3**
Aromatic amino compounds: Preparation by reduction of nitro compounds and from chlorobenzene	**3**
Effect of substituents on the basic character of aromatic amines – Comparison between aliphatic and aromatic amines.	**3**
Estimation of aniline. Preparation of sulphanilic acid, nitroanilines and phenylenediamines.	**3**
Preparation and synthetic applications of benzene diazonium chloride.	**3**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Benzaldehyde – Mechanism of Cannizaro, Perkins, Claisen	**3**
Knoevenagel reaction and benzoin condensation	**3**
Preparation & Properties of cinnamaldehyde & vanillin	**3**
Phenols: Acidity of phenols – effect of substituents on the acidity of phenol,	**3**
Mechanism of Reimer-Tiemann, Gattermann, Fries and Kolbe's reactions	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Effect of substituents on acidic character - Substituted acids	**4**

Preparation, Properties of salicylic acid and anthranilic acid	4
Aromatic sulphonic acids: preparation, Properties and uses of benzene sulphonic acid,	3
preparation, Properties and uses of saccharin, chloramine–T and dichloramine–T.	4
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Phase Rule: Meaning of the terms – phase, component and degree of freedom- derivation of Gibb's phase rule.	3
Phase equilibria of one component systems – CO_2, water and sulphur systems. Phase equilibria of two component systems – simple eutectic systems – (Pb – Ag) – Freezing mixtures (NaCl – water).	4
Partially miscible liquid pairs - phenol-water, triethylamine – water and nicotine-water systems (systems with lower and upper CST), influence of impurities on CST and applications –immiscible liquids	4
principle and application to steam distillation, Salt hydrates: Efflorescence, Deliquescence and hygroscopic –dehydration of copper sulphate crystals. Nernst distribution law (thermodynamic derivation) and its applications.	4
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
First Law; statement – mathematical formulation – internal energy – enthalpy or heat content – heat changes at constant volume and at constant pressure conditions —–	3
relationship between CP and CV – work done, heat change and enthalpy change for reversible isothermal expansion and compression of an ideal gas	3
calculation of q, w, ΔE, ΔH for reversible adiabatic expansion of an ideal gas – relation between T, V and P of an ideal gas undergoing adiabatic reversible expansion	3
comparison of work done in isothermal and adiabatic reversible expansion of an ideal gas – application of I law to non-ideal gas undergoing reversible isothermal and adiabatic expansion	3
Joule effect – Joule-Thomson effect – Joule Thomson coefficient in the case of ideal and real gases – inversion temperature.	3
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme: II B.Sc., Chemistry**

Course Code: 20UCHC42	**Staff Name: Dr. K. Shahul Hameed (Unit – IIIA, IV & V)** **Dr. M. Jannathul Firdhouse (Unit – I, II & IIIB)**

Course Name: Inorganic Chemistry – I

Unit: I	
Topics to be covered	**No. of Hours**
Occurrence of metals – minerals and ores – mineral wealth of India	**2**
refining of metals – zone refining – electrolytic refining – van Arkel – de Boer process	**2**
important ores and extraction of the following metals – titanium, thorium and platinum – their important alloys and applications.	**2**
important ores and extraction of the following metals – titanium, thorium and platinum – their important alloys and applications.	**2**
important ores and extraction of the following metals – titanium, thorium and platinum – their importar alloys and applications.	**2**
Total	**10**

Unit: II	
Topics to be covered	**No. of Hours**
Arrhenius concept, proton transfer theory – concept of Lowry and Bronsted - conjugate acid	**2**
base pairs – relative strengths of acids and bases – Lux flood concept – the solvent system concept – Lewis concept	**3**
Classification of solvents. Relative strength of acids and bases – effect of solvent – leveling effect	**3**
effect of polarity and dielectric constant – effect of substituents – factors influencing relative strengths of acids and bases– Usanovich concept – HSAB concept.	**4**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
General discussion of group IV elements - Comparison between carbon and silicon	2
silicon hydrides, and silicates — structure (ortho-, pyro-, cyclic-, chain-, sheet-, three dimensional silicates)	2
preparation of carbonyl chloride – lead monoxide – red lead – white lead	2
General discussion of group V elements – active nitrogen – preparation, properties structure and uses	2
preparation, properties, structure and uses of hydrazine, hydrazoic acid and hydroxylamine.	2
Total	**10**

Unit: IV	
Topics to be covered	**No. of Hours**
Introduction – Nomenclature – Werner's theory – Sidgwick theory	4
EAN rule applied to Ni and Co carbonyls - Valence bond theory - low spin and high spin complexes of Fe and Co	4
Colour and magnetic properties of co-ordination complexes- Limitations of VB theory	4
Crystal field theory – Octahedral, tetrahedral and square planar complexes - Modified CFT – ligand field theory - bonding in metal carbonyls.	4
Total	**16**

Unit: V	
Topics to be covered	**No. of Hours**
Metalloporphyrins – Chlorophyll – structure and work function (photo system I & II)	3
Vitamin B12 – structural features only - Myoglobin and hemoglobin – Structure - Their role in biological systems	3
Hill constant, co-operativity effect, Bohr Effect - Explanation for co-operativity effect in haemoglobin	3
Role of Na^+, K^+, Ca^{2+} and Mg^{2+} ions in biological system	3
Total	**12**

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TEACHING PLAN
For the Academic Year 2023-24 (ODD & EVEN SEMESTER)

Department: Chemistry	**Programme: B.Sc. Chemistry (II year)**

Course Code: 20UCHC4P	**Staff Name: Dr. S. Sivakumar** **Ms. A. Mumthaj**

Course Name: Volumetric Analysis

	List of titrations to be conducted
1.	Basic quantitative skills in volumetric analysis with the use of burette, pipettes and standard flasks
2.	**I. Acidimetry and Alkalimetry** 1) Estimation of Na_2CO_3 2) Estimation of NaOH /KOH 3) Estimation of oxalic acid.
3.	**II. Redox Titrations** **a. Permanganimetry** 1) Estimation of ferrous ion 2) Estimation of oxalic acid 3) Estimation of calcium (direct method)
4.	**b. Dichrometry** 1) Estimation of ferrous ion 2) Estimation of ferric ion using external indicator
5.	**III. Iodometry** 1) Estimation of potassium dichromate 2) Estimation of potassium permanganate 3) Estimation of copper
6.	**IV. Precipitation Titrations** 1) Estimation of chloride ion

7.	**V. Complexometric Titrations** 1) Estimation of hardness of water using EDTA.

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TEACHING PLAN
For the Academic Year 2023-24 (Even Semester)

Department: Chemistry	**Programme: II B.Sc. Physics**

Course Code: 20UCHA21	**Staff Name: Ms. A. Mumthaj (Unit- I, IVB & V)** **Ms. A. Ismath Raihana (Unit- II, III & IVA)**

Course Name: Organic, Inorganic and Physical Chemistry - II

Unit: I	
Topics to be covered	**No. of Hours**
Comparison of thermal and photochemical reactions – definition of photochemical reactions	2
Laws of photochemistry – Grotthus-Draper law – Einstein law	2
Quantum efficiency – reasons for low and high quantum yield with examples	3
Consequence of light absorption by atoms and molecules – Jablonski diagram – fluorescence – phosphorescence	3
Photosensitization – chemiluminescence – bioluminescence – applications of photochemistry	3
Total	**13**

Unit: II	
Topics to be covered	**No. of Hours**
Coordination compounds: nomenclature – definition of various terms involved in coordination chemistry	3
Classification of ligands-Werner's theory, EAN rule	3
Valence Bond theory – Nickel carbonyl – chelates	4
Total	**10**
Unit: III	
Topics to be covered	**No. of Hours**
Chromatographic technique: Principle – classification -adsorption and partition Chromatography	3
Thin layer chromatography – column chromatography (adsorption) – paper Chromatography	3
Gas-solid and gas-liquid chromatography- applications of each type- ion exchange chromatography	4
Total	**10**

Unit: IV	
Topics to be covered	**No. of Hours**
Sulpha drugs – sulphadiazine – sulphanilamide –preparation and applications	4
Antimalarials: chloroquine and plasmoquine –preparation and applications	3
Arsenical drugs: Salvarasan – 606 and neosalvarasan-preparation and applications	3
Antibiotics: Definition – classification – penicillin - amoxicillin – ampicillin – tetracyclin– streptomycin – mode of application – uses only	5
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Definition of thermodynamic terms-system and surrounding – isolated, closed and open systems -intensive and extensive properties	4
Thermodynamic processes – reversible and irreversible, isothermal and adiabatic – state and path functions	4
Second law of thermodynamics - need for second law–Concept of entropy – physical significance of entropy -Gibbs free energy and its significance	4
Total	**12**

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TEACHING PLAN
For the Academic Year 2023-24 (ODD & EVEN SEMESTER)

Department: Chemistry	**Programme: B.Sc. Physics (II year)**
Course Code: 20UCHA2P	**Staff Name: Dr. K. Shahul Hameed** **Mr. G. Arivalagan**
Course Name: Volumetric Analysis	

	List of titrations to be conducted
1.	Basic quantitative skills in volumetric analysis with the use of burette, pipettes and standard flasks
2.	**A. ACIDIMETRY AND ALKALIMETRY** 1. Titrations between a strong acid and strong base. 2. Titrations between a strong acid and weak base. 3. Titrations between a weak acid and strong base.
3.	**B. PERMANGANIMETRY** 1. Titrations between potassium permanganate and oxalic acid, ferrous ammonium sulphate (Mohr's salt)
4.	**C. IODOMETRY (DEMONSTRATION ONLY)** 1. Titrations of sodium thiosulphate with potassium permanganate and potassium dichromate.
	Total hours: 60

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TEACHING PLAN

For the Academic Year 2023-24 (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: 1.1, 2 & 4)** **Mr. G. Arivalagan(Unit: 1.2, & 3)**

Course Name:Organic Chemistry-II

Unit: I	
Topicsto becovered	**No.ofHours**
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 – Conformational analysis of ethane, n-butane, 1, 2-dichloroethane, cyclohexane and monosubstituted cyclohexane - Civetone and Muscone: Structure only (no Structural elucidation).	8
Total	**12**

Unit: II	
Topicsto becovered	**No.ofHours**
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 – structure and synthesis of following alkaloids – coniine, piperine, nicotine and papavarine.	7
Total	**12**

Unit: III	
Topicsto becovered	**No.ofHours**
Intermolecular and Intramolecular Rearrangements-Detailed mechanism of the following: Pinacol-pinacolone, Hofmann, Curtius, benzyl – benzilic acid, Claisen, rearrangements.	6
Benzidine, Beckmann, Fries Wagner – Meerwein - McLafferty, Favorsky, Lossen, Wallach rearrangements.	6
Total	**12**

Unit: IV	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
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).	4
Definition – nucleosides – nucleotides – RNA and DNA (General structure).	4
Total	**12**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme: III B.Sc., Chemistry**

Course Code:20UCHC62	**Staff Name:Dr. N.M. Abdul KhaderJailani(Unit: 1, 2 & 3)** **Dr. K. ShahulHameed(Unit: 4 &5)**

Course Name:Physical Chemistry – III

Unit: I	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
Concentration cells – e.m.f of concentration cells with and without transference and its derivation – liquid junction potential and its derivation.	4
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	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
Infrared spectroscopy – modes of vibration of diatomic, tri-atomic linear (CO_2) and non- linear tri-atomic (H_2O) 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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme: III B.Sc., Chemistry**

Course Code:20UCHC63	**Staff Name:Dr. M. JannathulFirdhouse(Unit: 1, 2 & 3.1)** **Ms. A. NihathNazleen(Unit: 3.2, 4 & 5)**

Course Name:Spectroscopy and its Applications

Unit: I	
Topicsto becovered	**No.ofHours**
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 λ_{max} for dienes and α, β-unsaturated carbonyl compounds.	4
Total	**12**

Unit: II	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
$^1H_1$ NMR Spectroscopy-I: Introduction – Nuclear spin - Principles of NMR-Spin angular momentum	4
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	
Topicsto becovered	**No.ofHours**
$^1H_1$ 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	
Topicsto becovered	**No.ofHours**
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, $^1H_1$ NMR spectroscopy and Mass Spectrometry.	4
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24 (ODD &EVEN SEMESTER)

Department: Chemistry	**Programme: IIIB.Sc., Chemistry**

Course Code:20UCHC6P	**Staff Name:Hajee. Dr. M. Kamal Nasar** **Dr. M. JannathulFirdhouse**

Course Name:Gravimetric Estimation and Organic Preparation

	List of analysis 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) anamide
4.	4. Oxidation: Benzoic acid from benzaldehyde. 5. Benzoylation: (a) Amine (b)phenols 6. Acetylation: (a) Amine (b)phenols
	Total hours:90

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TEACHING PLAN
For the Academic Year 2023-24 (ODD &EVEN SEMESTER)

Department: Chemistry	**Programme: IIIB.Sc., Chemistry**

Course Code:20UCHC6Q	**Staff Name:Dr. K. ShahulHameed** **Dr. S. Sivakumar**

Course Name:Organic Analysis andEstimation

	List of analysis to be conducted
1.	**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)
2.	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
3.	**II. Organic Estimation** a. Estimation of phenol b. Estimation of aniline c. Estimation of glucose
	Total hours: 90

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TEACHING PLAN

For the Academic Year 2023-24 (ODD & EVEN SEMESTER)

Department: Chemistry	**Programme: III B.Sc., Chemistry**

Course Code: 20UCHC6R	**Staff Name: Dr. N.M. Abdul Khader Jailani** **Dr. M.P. Kesavan**

Course Name: Physical Chemistry Practical

	List of analysis 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 $KI + I_2 \rightleftharpoons KI_3$ 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** a) Determination of relative strength of acids by b) Acid catalyzed hydrolysis of ester. c) Inversion of cane sugar.

8.	**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 (HClVsNaOH) ***b. Potentiometric titrations*** i. $KMnO_4$Vs $FeSO_4$ ii. $K_2Cr_2O_7$Vs $FeSO_4$ iii. HClVsNaOH.
	Total hours: 90

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme: III B.Sc., Chemistry**

Course Code:20UCHE61	**Staff Name:Ms. A. Mumthaj(Unit: 1, 2 & 3.1)** **Ms. A. IsmathRaihana(Unit:3.2,4 &5)**

Course Name:Green Chemistry

Unit: I	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
Heterogeneous catalysis-use of zeolites, silica, alumina, supported catalysis.	3
Bio catalysis: Enzymes, microbes.	3
Homogeneous catalysis- Phase transfer catalysis (micellar/surfactant), hydroformylation, metathesis.	6
Total	**12**

Unit: IV	
Topicsto becovered	**No.ofHours**
Uses of microwaves- Fundamentals of closed-vessel heating - green synthesis of the following compounds: adipic acid, catechol, disodium iminodiacetate (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	
Topicsto becovered	**No.ofHours**
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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TEACHING PLAN

For the Academic Year 2023-24 (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	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
Lipids: General properties, Functions and classification of lipids.	3
Determination of total lipids, Triglycerides and cholesterol in blood.	3
Total	**6**

Unit: V	
Topicsto becovered	**No.ofHours**
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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Dean

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme: III B.Sc., Chemistry**

Course Code:20UCHS62	**Staff Name:Mr. G. Arivalagan (Unit:1 to 5)**

Course Name:Competitive Examination Skills in Chemistry –II

Unit: I	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
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	
Topicsto becovered	**No.ofHours**
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 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme:** M.Sc. Chemistry

Course Code: 23PCHCC21	**Staff Name:** Mr. G. Arivalagan (Unit I & III) 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	4

aminiopyridine (DMAP), n-Bu_3SnD.	
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

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TEACHING PLAN

For the Academic Year 2023-24 (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**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme:** M.Sc. Chemistry

Course Code: 23PCHCC2P	**Staff Name:** Ms. A. Nihath Nazleen Mr. G. Arivalagan Ms. A. Ismath Raihana

Course Name: Inorganic Chemistry Practical

Unit: I	
Topics to be covered	**No. of Hours**
Analysis of mixture of cations: Analysis of a mixture of four cations containing two common cations and two rare cations. Cations to be tested. 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.	25
Total	**25**

Unit: II	
Topics to be covered	**No. of Hours**
Preparation of inorganic complexes: a. Preparation of tristhioureacopper(I)sulphate	4
b. Preparation of potassium trioxalate chromate(III)	3
c. Preparation of tetramminecopper(II) sulphate	3
d. Preparation of Reineck's salt	3
e. Preparation of hexathioureacopper(I) chloridedihydrate	3
f. Preparation of cis-Potassium tri oxalate diaquachromate(III)	3
g. Preparation of sodium trioxalatoferrate(III)	3
h. Preparation of hexathiourealead(II) nitrate	3
Total	**25**

Unit: III	
Topics to be covered	**No. of Hours**
Complexometric Titration: 1. Estimation of zinc, nickel, magnesium, and calcium.	5
2. Estimation of mixture of metal ions-pH control, masking and demasking agents.	5
3. Determination of calcium and lead in a mixture (pH control).	5
4. Determination of manganese in the presence of iron.	5
5. Determination of nickel in the presence of iron.	5
Total	**25**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme:** M.Sc. Chemistry

Course Code: 23PCHDE21	**Staff Name:** Dr. N.M. Abdul Khader Jailani (Unit II) Ms. A. Mumthaj (Unit I, III, IV & V)

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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme:** M.Sc. Chemistry

Course Code: 23PCHGE21	**Staff Name:** Dr. K. Shahul Hameed (Unit I & III) Dr. S. Sivakumar (Unit II) Ms. A. Ismath Raihana (Unit IV & V)

Course Name: Bio Inorganic Chemistry

Unit: I	
Topics to be covered	**No. of Hours**
Selective transport and storage of metal ions: Ferritin, Transferrin and sidorphores; Sodium and potassium transport, Calcium signalling proteins.	4
Metalloenzymes: Zinc enzymes– carboxypeptidase and carbonic anhydrase. Iron enzymes–catalase, peroxidase.	5
Copper enzymes – superoxide dismutase, Plast ocyanin, Ceruloplasmin, Tyrosinase.	4
Coenzymes - Vitamin-B12 coenzymes.	2
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Oxygen carriers -Hemoglobin and myoglobin - Structure and oxygenation Bohr Effect.	3
Binding of CO, NO, CN– to Myoglobin and Hemoglobin.	1
Biological redox system: Cytochromes-Classification, cytochrome a, b and c. Cytochrome P-450.	6
Non-heme oxygen carriers-Hemerythrin and hemocyanin.	2
Iron-sulphur proteins- Rubredoxin and Ferredoxin- Structure and classification.	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Nitrogen fixation-Introduction, types of nitrogen fixing microorganisms.	3
Nitrogenase enzyme - Metal clusters in nitrogenase-redox property - Dinitrogen complexes transition metal complexes of dinitrogen - nitrogen fixation via nitride	8

formation and reduction of dinitrogen to ammonia.	
Photosynthesis: photosystem-I and photosystem-II-chlorophylls structure and function.	4
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Metal Toxicity of Hg, Cd, Zn, Pb, As, Sb.	3
Therapeutic Compounds: Vanadium-Based Diabetes Drugs; Platinum-Containing Anticancer Agents. Chelation therapy; Cancer treatment.	6
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.	3
Enzyme kinetics, free energy of activation and the effects of catalysis.	5
Michelis - Menton equation - Effect of pH, temperature on enzyme reactions.	5
Factors contributing to the efficiency of enzyme.	2
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme:** M.Sc. Chemistry

Course Code: 23PCHSE21	**Staff Name:** Ms. A. Ismath Raihana (Unit I, II & IIIA) Ms. A. Soniya (Unit IIIB, IV & V)

Course Name: Chemistry in Every Day Life

Unit: I	
Topics to be covered	**No. of Hours**
Health: Definition - Food Pyramid.	3
Health – Hygiene - mal, under and over nutrition.	5
Causes and remedies, sanitation.	4
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Food chemistry: Food - classification and functions - Digestion in mouth, stomach and intestine.	6
Absorption - spoilages, preservation techniques (canning, dehydration, freeze-drying, salting, pickling, pasteurizing, fermenting and carbonating).	6
Total	**12**

Unit: III	
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**

Unit: IV	
Topics to be covered	**No. of Hours**
Drugs: Types of drugs-depressant, anticonvulsant, narcotics, antipyretics.	4
Antibiotics, antiseptics, analgesics, muscle relaxants.	4
Cardiovascular and vasodepressants, steroids (Only Applications).	4
Total	**12**

Unit: V	
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**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme:M.Sc., Chemistry**

Course Code: 20PCHC41	**Staff Name: Mr. G. Arivalagan (Unit- III, IV, V)** **Ms. A. Ismath Raihana (Unit- I)** **Ms. A. Soniya (Unit- II)**

Course Name: Organic Chemistry - IV

Unit: I - Chemistry of Heterocyclic Compounds	
Topics to be covered	**No. of Hours**
Heterocyclics – Nomenclature - Compounds containing two hetero atoms: Synthesis and reactivity of pyrazole, imidazole, oxazole, thiazole.	6
Diazines: the chemistry of pyridazine, pyrimidine and pyrazine – Comparison of basicity of diazines.	5
Introduction to anthrocyanins and flavonoids.	4
Total	**15**

Unit: II - Chemistry of Terpenoids and Alkaloids	
Topics to be covered	**No. of Hours**
Chemistry of terpenoids: General methods of determining structure of terpenoids – αpinene, Zingiberene, and Abietic acid.	6
Chemistry of alkaloids: General methods of determining structure of alkaloids – Structure elucidation of (i) Morphine (ii) Reserpine.	5
Antibiotics: Definition, Structural elucidation of penicillin, chloramphenicol.	4
Total	**15**

Unit: III - Advanced Organic Synthesis-I (Retro-synthesis)	
Topics to be covered	**No. of Hours**
Disconnection approach - Importance of organic synthesis-Planning synthesis – Synthons and types – synthetic equivalents.	4
Latent functionality guidelines for best disconnection approach, Reactions involving functional group interconversions.	3
Retrosynthetic analysis – concept of umpolung – two group C-X disconnections and synthetic strategies 1,2-, 1,3-, 1,4-, 1,5- and 1,6- difunctionalised disconnection.	4
Stereoselective and stereospecific reactions - Chemoselectivity – Stereoselectivity - Regioselectivity.	4
Total	**15**

Unit: IV – Advanced Organic Synthesis-II (Asymmetric synthesis)	
Topics to be covered	**No. of Hours**
Definition of enantiomeric, diastereomeric excess – analytical methods to determine ee and de – strategy.	4
Classification of methods of asymmetric synthesis –Chiral substrates –Chiral auxiliaries – Chiral reagents – Chiral catalysts.	3
Chiral catalysts and chiral reagents: BINAP- ruthenium (II) Mc Murry reagent – $Ti(i\text{-}PrO)_4$, and $K_2OS_2(OH)_4$	4
Sharpless asymmetric epoxidation – Heck reactions – Suzuki Coupling – Sonogashira coupling.	4
Total	**15**

Unit: V – Molecular Rearrangements	
Topics to be covered	**No. of Hours**
Classification – Nucleophilic, electrophilic, and radical – Mechanism of Favorskii, Benzil-Benzilic acid, Bayer-Villiger, Wagner-Meerwin rearrangement.	5
Carbanionic rearrangements, Stevan'srearrangement, Sommelet-Hauser, Cope, and Wesly-Moser rearrangement, Fries Rearrangement.	5
Acid catalyzed rearrangement – Arndt-Eistertsynthesis – carbon to nitrogen migration – Hofmann rearrangement, Curtius rearrangement, Lossen rearrangement, Schmidt and Beckmannrearrangement.	5
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme: M.Sc., Chemistry**

Course Code: 20PCHC42	**Staff Name: Dr. K. Shahul Hameed (Unit- IV)** **Dr. S. Sivakumar (Unit- III)** **Mr. G. Arivalagan (Unit- II)** **Dr. M. P. Kesavan (Unit- I, V)**

Course Name: Inorganic Chemistry - IV

Unit: I - Organometallic Chemistry – I	
Topics to be covered	**No. of Hours**
Stability of organometallic compounds- βhydrogen elimination- the sixteen and eighteen electron rule.	2
Synthesis –structure and bonding in metal carbonyls – isoelectronic and isolobal analogy.	3
Use of IR in the structural elucidation of carbonyl compounds–metal nitrosyls – dinitrogen complexes. π donors-Carboxylic ligands and complexes.	4
Synthesis, structure, bonding and reactivity of carbenes, carbines, metallocenes and other aromatic cyclopolyenes.	3
Ferrocene – bonding and structure – sigma, pi and hapto nomenclature. Arene complexes – olefin – acetylene and pi allyl complexes.	3
Total	**15**

Unit: II - Organometallic Chemistry – II	
Topics to be covered	**No. of Hours**
Catalysis involving organometallic compounds –properties of metals and ligands in homogeneous catalysis.	3
Oxidative addition and reductive elimination – hydrogen abstraction –activation of small molecules by complexation-agnostic interaction – insertion - alkylmigration–insertion and elimination-catalytic reactions.	4
Hydrogenationof olefins – Wilkinson's catalyst – hydroformylation –syngas-water gas shift reactions-oxidation of olefins – Wacker process.	3
Propylene polymerization - Olefin metathesis -Ziegler Natta catalyst -cyclo oligomerisation of acetylene, butadiene- Reppe's catalyst.	3
Monsanto's acetic acid synthesis – Fischer – Tropsch's synthesis of Synthetic gasoline.	2
Total	**15**

Unit: III - Bioinorganic chemistry I	
Topics to be covered	**No. of Hours**
Porphyrin ring system – metalloporphyrins – synthetic oxygen carriers - cytochromes – structures and work functions in respiration –iron-sulphur proteins (non-heme iron protein).	6
Copper containing proteins – classification – blue copper proteins - structure of blue copper electron transferases.	4
copper proteins as oxidases – cytochrome C oxidase – mechanistic studies of C oxidase – Hemocyanin.	5
Total	**15**

Unit: IV – Bioinorganic chemistry II	
Topics to be covered	**No. of Hours**
Carboxypeptidase A: structure, function – Carbonic anhydrase: structure, function – inhibition and poisoning –in-vivoand in-vitro nitrogen fixation.	6
Essential and trace elements in biologicalsystems –toxic effects of heavy metals (Pb, Cd, Hg and As) anddetoxification – metals used for diagnosis.	5
Molecular mechanism of ion transport across the membrane – sodium and potassium ions pumps – chelate therapy – cis-platin.	4
Total	**15**

Unit: V – Physico-Chemical Principles and Biological Reactions	
Topics to be covered	**No. of Hours**
Studies on biochemical equilibria: Buffer system of intracellular fluids – H_2CO_3/HCO_3^-, HPO_4^{2-}/ $H_2PO_4^-$ - Application of Henderson-Hasselbach equation.	6
Ion channels – membrane and static potentials - Role of Na^+/K^+ ions in neural communications –Na^+/K^+ ion pump.	4
Allosterismand oxygen saturation curves for haemoglobin and myoglobin – derivation of Hill equation.	5
Total	**15**

Forwarded by

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme: M.Sc., Chemistry**

Course Code: 20PCHC43	**Staff Name: Dr. N. M. Abdul Khader Jailani (Unit-III, IV)** **Ms. A. Nihath Nazleen (Unit- II)** **Ms. A. Mumthaj (Unit- V)** **Ms. A. Soniya (Unit- I)**

Course Name: Physical Chemistry - IV

Unit: I - Chemical Kinetics – I	
Topics to be covered	**No. of Hours**
Simple Collision theory - modification – Absolute reaction rate theory (ARRT) - Statistical and thermodynamics formulation - Comparison of ARRT with collision theory.	4
Significance of entropy of activation - Relation between ΔH and E_a - Transmission coefficient; ARRT of termolecular reactions.	3
Unimolecular reactions - Lindemann, Hinshelwood, RRKM and Slater treatments.	4
solution kinetics – ARRT of reaction in solution – Influence of ionic strength on the rates of ionic reactions (salt effects).	4
Total	**15**

Unit: II - Chemical Kinetics – II	
Topics to be covered	**No. of Hours**
Fast reactions - flow and relaxation techniques, Temperature Jump and pressure jump method	4
Complex reactions – opposing, consecutive and parallel reactions.	3
Chain reaction – kinetics and general characteristic – H_2-Br_2 reaction, Rice – Herzfeld mechanism for decomposition of acetaldehyde & ethane.	4
Branched chain reaction – study of H_2-O_2 explosive reaction - homogeneous catalysis – acid, base catalysis.	4
Total	**15**

Unit: III – Photochemistry and Radiation Chemistry	
Topics to be covered	**No. of Hours**
Photo physical processes in electronically excited molecules - Fluorescence, Phosphorescence and other deactivating processes.	3
Stern-Volmer equation and its applications- electronically energy transfer mechanisms – photosensitization and chemiluminescence.	3
Experimental techniques in photochemistry - light sources – chemical actinometry.	3
Source of high energy - Interaction of high energy radiation with matter - Radiolysis of water - definition of G value - mode of reactions of hydrated electrons OH^- and H^+.	4
Experimental techniques of radiation chemistry - Dosimetry.	2
Total	**15**

Unit: IV – Surface Chemistry	
Topics to be covered	**No. of Hours**
Physisorption and Chemisorption – adsorption isotherm – derivation of Langmuir and Freundlich, derivation of B.E.T equation of multilayer adsorption.	4
Application of BET equation to surface area determination, derivation of Gibbs adsorption isotherm. Heterogeneous catalysis and their kinetics – chemical reactions on solid surfaces.	4
Mechanism & Kinetics of unimolecular and bimolecular surface reactions – Langmuir – Hinshelwood, Langmuir –Ridel mechanism, ARRT of surface reactions.	5
Basic concepts of Micelles and Reverse Micelles.	2
Total	**15**

Unit: V – Biophysical Chemistry	
Topics to be covered	**No. of Hours**
Basic concepts of non-equilibrium thermodynamics - Onsager reciprocal relationship – Its application to biological systems.	3
High energy metabolites - ATP and its role in bioenergetics - transfer of potential and coupled reaction- Biological energy conversion in catabolism and anabolism - role of singlet oxygen in biology.	5
Biophysical applications of Mossbauer effect - NMR imaging - Applications of spin labelling in membrane research - Molecular recognition.	4
An introduction to supramolecular chemistry and photochemistry.	3
Total	**15**

Forwarded by

Dean

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Prepared by

A. Mumthaj

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Chemistry	**Programme: M.Sc., Chemistry**

Course Code: 20PCHE41	**Staff Name: Dr. S. Sivakumar (Unit -IV, V)** **Dr. M. JannathulFirdhouse (Unit- I, II)** **Ms. A. NihathNazleen (Unit- III)**

Course Name: Polymer Chemistry

Unit: I - Classification of polymers and chemistry of polymerization	
Topics to be covered	**No. of Hours**
Classification of polymers - linear polymers, non-linear polymers, branched polymers, cross linked polymers.	3
Homo chains, hetero chains, homo polymers, co polymers, block polymers and graft polymers.	4
Chemistry of polymerization - Types of polymerizations – mechanism-chain, growth, free radical, ionic, co-ordination polymerization.	4
Ring opening, metathetical, group transfer, polyaddition and polycondensation polymerizations.	4
Total	**15**

Unit: II - Individual polymers	
Topics to be covered	**No. of Hours**
Monomers required, general methods of preparation, repeat Units and uses of the following polymers and resins - polyethylene, polystyrene, polyacrylonitrile.	4
Polymethyl methacrylate, PVC, polytetrafluoroethylene, polyisoprenes, polybutadienes and polychloroprene, polyesters.	4
Polycarbonates, polyimides, polyamides (Kevlar), polyurethanes, polyethylene glycols.	3
phenol-formaldehyde, urea formaldehyde, melamine formaldehyde and epoxy resins – silicone polymers.	4
Total	**15**

Unit: III - Properties of polymers	
Topics to be covered	**No. of Hours**
Configuration of polymer chain – geometricalstructure-syndiotatic, isotatic and atatic polymers.	3
Glass transition temperature –Definition - factors affecting glass transition temperature– relationships between glass transition temperature and (a) molecular weight, (b) melting point and (c) plasticizer.	4
Importance of glass transition temperature - heat distortion temperature.	2
Molecular weight and size of polymers - Number average, weight average, sedimentation and viscosity average molecular weights.	3
Molecular weights and degree of polymerization - poly dispersity - molecular weight distribution in polymers – size of polymer molecules.	3
Total	**15**

Unit: IV – Polymerization techniques, degradation and uses of polymers	
Topics to be covered	**No. of Hours**
Polymerization techniques - Bulk, solution, suspension, emulsion, meltcondensation and interfacial polycondensation polymerizations.	6
Degradation- Types of degradation - thermal, mechanical, ultrasonic and photodegradation - photo stabilizers - oxidative degradation – antioxidants – hydrolytic degradation.	6
Uses of polymers - Electronics and biomedicine.	3
Total	**15**

Unit: V – Polymer processing	
Topics to be covered	**No. of Hours**
Plastics (thermo and thermosetting), elastomers, fibres, compounding, plasticisers, colorants, flame retardants.	5
Compression and injection mouldings - film extrusion and calendaring.	5
Die casting and rotational casting – thermoforming - reinforcing.	5
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ZOOLOGY	Programme: B.Sc.,Zoology

Course Code: 23UZYCC21	Staff Name:Dr.K.Arifa Banu (Units- 1 &2) Dr.M. Mohiadeen Batcha (Unit- 3) 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 Pelvicgirdles 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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H. K. R. H. COLLEGE

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code:23UZYCC2P	**Staff Name:Dr. M. Mohiadeen Batcha (Units-1,2&3)** **Dr. M. Mohamed Meeran(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	**3**
Fish:External Features,Digestive System,	**1**
Arterial System,Venous System, Vthcranial Nerve,IXthand X Thcranial Nerves	**1**
Male And Female Urinogenital System	**1**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Fish: Placoid Scales	**1**
Fish: Ctenoid Scales	**1**
Frog: Hyoid Apparatus	**1**
Frog: Brain	**3**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Frog:Skull And Lower Jaw	**2**
Vertebral Column,Pectoral Girdle,Pelvic girdle ,Forelimb,Hindlimb	**2**
Chelonia-Anapsid Skull	**1**
Pigeon - Skull And Lower Jaw, Synsacrum	**1**
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	**1**
(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	**2**
(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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TEACHINGPLAN

For the Academic Year 2023-24 (EVENSEMESTER)

Department: Zoology	**Programme: Ist BSc Chemistry**

Course Code:23UZYGE21	**Staff Name:Dr.M.MohiadeenBatcha (Unit 3,4,5)** **Dr.M.MohamedMeeran (Unit 1,2,3)**

Course Name: Allied Zoology II

Unit: I	
Topicsto becovered	**No.ofHours**
Cell biology, Animal cell structure and function of Cell membrane	**3**
Mitochondria and Endoplasmic reticulm	**2**
Microbiology: structure of prokaryotic cell, E.coli	**2**
T4 phage, morphology of bacteria, coccus, bacillus	**3**
Spirochetes and comma shaped bacteria	**2**
Total	**12 hours**

Unit: II	
Topicsto becovered	**No.ofHours**
Developmental biology-structure of sperm and ovum in frog, fertilization	**3**
Cleavage and placentation in mammals	**2**
Classification and function-test tube baby	**2**
Biotechnology- transgenic animals	**3**
DNA finger printing and application	**2**
Total	**12 hours**

Unit: III	
Topicsto becovered	**No.ofHours**
Genetics-Mendel's law, mono and di hybrid crosses	**3**
Linkage and crossing over, sex determination in humans	**3**
Molecular biology: structure and functions of dna	**2**
t-RNA structure and function, DNA replication	**2**
Protein synthesis	**2**
Total	**12 hours**

Unit: IV	
Topicsto becovered	**No.ofHours**
Biochemistry and animal physiology: classification of carbohydrates, proteins	**3**
Classification of lipids with examples, mechanism of respiration	**3**
Transport of gases, structure of nephron	**2**
Structure of neuron, ecosystem components, food chain and its types	**2**
Food web, ecological pyramids.	**2**
Total	**12 hours**

Unit: V	
Topicsto becovered	**No.ofHours**
Immunology: types of immunity (innate and acquired immunity),lymphoid organs(primary)	**3**
Secondary lymphoid organs, immunoglobulin structure and its types	**3**
Antigen and antibody reactions.	**2**
Evolution: Lamarckism and Darwin's theory	**2**
Human evolution	**2**
Total	**12 hours**

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Dean **HOD** **Staff**

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TEACHINGPLAN

For the Academic Year 2023-24 (ODD - EVEN SEMESTER)

Department: Zoology	**Programme: Ist BSc Chemistry**
Course Code:23UZYGE2P	**Staff Name:Dr.M.MohamedMeeran**
Course Name: Allied Lab course	

Unit: I	
Topicsto becovered	**No.ofHours**
Earthworm :Nervous system	**4**
Cockroach digestive system	**4**
Cockroach nervous system	**4**
Pila digestive system	**2**
Frog arterial and venous system	**4**
Total	**18 hours**

Unit: II	
Topicsto becovered	**No.ofHours**
Earthworm body setae	**2**
Honey bee mouth parts,starfish,seacucumber	**4**
Pila radula, Shark placoid scales,Protozoa: paramecium,entamoeba,porifera,sponge,obelia	**4**
colony,sea anemone, helminthes: liver fluke,Ascaris (Male,Female).	**4**
Prochordata: Amphioxous,Balanoglossus,Ascidian,agnatha,petromyzon,Amphibian: Bufo,salamander,Reptilia:Cobra,krait,viper, N-P, Dryophis,ptyas, Lizard-Chaemeleon,Draco, ,	**4**
Total	**18 hours**

Unit: III	
Topicsto becovered	No.ofHours
Annelida: earhworm, leech, prawn, peripatus	4
Sponge spicules, gemmules	4
Pisces: hippocampus ,Tilapia	4
Aves: Pectoral,pelvicgirdleof pigeon	4
Archaeopteryx, Mammals: Bat,Loris	2
Total	18 hours

Unit: IV	
Topicsto becovered	No.ofHours
Charts:Mitochondria,Golgibody,Endoplamicreticulm, identification. DNA-Model.,	4
following stages of frog i) Egg,II)Sperm,iii) Blastula,iv)Gastrula	4
sheep placenta	3
mitotic stages	4
tRNA-Model	3
Total	18 hours

Unit: V	
Topicsto becovered	No.ofHours
Simple staining of non-pathogenic bacteria and morphological structure,preparation of onion root tip and observe the mitotic stage.	4
Mounting squamous epithelial cells,qualitative test for ammonia, urea,uric acid	4
Qualitative test for carbohydrates ,protein,lipid,antigen antibody reaction	4
Study mendelian traits in man	3
Human blood grouping	3
Total	18 hours

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TEACHINGPLAN

For the Academic Year 2023-24 (EVENSEMESTER)

Department: Zoology	Programme: I B.A., B.Sc., B.Com.,
Course Code:23UZYSE21	Staff Name: Dr.M.Ashiq Ur Rahman(Units- 1,2,3,4& 5)

Course Name: MEDICAL LABORATORY TECHNIQUES

Unit: I	
Topicsto becovered	**No.ofHours**
Laboratory Safety and Human Health and Hygiene: Laboratory safety –toxicchemicals and biohazards waste- biosafety level	2
good laboratory practice – hygiene andhealth issue – physiology effect of alcohol, tobacco	2
smoking&junkfood&itstreatment-biomedicalwaste management	2
Total	6

Unit: II	
Topicsto becovered	**No.ofHours**
Haematology: Composition of blood and their function- collection of blood & lab procedure-haemopoiesis-types of anaemia- mechanism of blood coagulation	2
bleeding time- clotting time-determination of hemoglobin-erythrocyte sedimentations rate-packed cell volume	1
Totalcount of RBC & WBC- Differential count WBC- blood grouping and typing	1
Haemostasis-bleeding disorder of man - Haemolytic disease of newborn, Platelet count, reticulocytescount,Absolute Eosinophil count	2
Total	6

Unit: III	
Topicsto becovered	**No.ofHours**
Medical Microbiology and Instrumentation Techniques: Definition and scopeof microbiology-structure and function of cells-	2
Parasites - Entamoeba- Plasmodium-Leishmaniaand Trypanosoma	2
Computer tomography (CTscan) – MagneticResonanceimaging– flowcytometry– treadmill test – PET.	2
Total	6

Unit: IV	
Topicsto becovered	**No.ofHours**
Medical Physiology: Cardiovascular system- Blood pressure - Pulse – regulationof heart rate, cardiac shock	2
Heart sounds, Electrocardiogram (ECG) – significance	2
Ultrasonography-Electroencephalography(EEG)	2
Total	6

Unit: V	
Topicsto becovered	**No.ofHours**
Diagnostic Pathology : Handling and labelling of histology specimens – Tissueprocessing - processing of histological tissues for paraffin embedding, block preparation	2
Microtomes – types of microtome- sectioning	1
staining –staining methods- vital staining -mounting- problems encountered during section cutting and remedies - Frozen sectiontechniques-freezingmicrotome	3
Total	6

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: I B.Sc Zoology**
Course Code: 23UZYSE22	**Staff Name: Dr M Mohamed Meeran & 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**

Signature of the Dean
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TEACHINGPLAN
For the Academic Year 2023-24 (EVENSEMESTER)

Department: Zoology	**Programme: II B.Sc., Zoology**
Course Code:20UZYC41	**Staff Name:Dr. M. Ashiq Ur Rahman (Units- 1,2,3,4& 5)**
Course Name:EMBRYOLOGY	

Unit: I	
Topicsto becovered	**No.ofHours**
Introduction to developmental biology: Theories of origin of life: Preformation- Epigenesis- Germplasm.	**3**
Law's: Von Baer's law- Biogenetic law- Phases of development	**3**
Gametogenesis- Mammalian Sperm- Structure and types- Spermatogenesis.	**3**
Mammalian Ovum- Structure- types- Oogenesis.	**3**
Total	**12**

Unit: II	
Topicsto becovered	**No.ofHours**
Fertilization: Types & process of fertilization. Biochemical & Physiological events.	**4**
Parthenogenesis: definition- types- cleavage- planes and laws.	**4**
Fate map of frog: blastulation & gastrulation.	**4**
Total	**12**

Unit: III	
Topicsto becovered	**No.ofHours**
Organogenesis: Development of brain and heart in frog	**4**
Placentation in Mammals- Definition- types	**4**
classification on the basis of foetal membranes & villi – functions- Extra embryonic membranes in chick	**4**
Total	**12**

Unit: IV	
Topicsto becovered	**No.ofHours**
Organiser: Process of induction	**4**
Amphibian metamorphosis- Definition, Ecological, Morphological & Physiological changes	**4**
Regeneration: Definition- types and regeneration of limb in Salamander	**4**
Total	**12**

Unit: V	
Topicsto becovered	**No.ofHours**
Human reproduction: Puberty- Menopause- Menstrual cycle- Pregnancy Parturition and Lactation.	**4**
Birth Control: Contraception- its types.	**4**
Infertility method to overcome: IUI-IVF-Test tube baby- Ethical issues.	**4**
Total	**12**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVENSEMESTER)

Department: ZOOLOGY	**Programme: II B.Sc., ZOOLOGY**

Course Code:20UZYC42	**Staff Name:Dr.M.Mohiadeen Batcha (Units 1, 2 & 3)** **Dr. M. Mohamed Meeran (Units 3, 4 & 5)**

Course Name:MICROBIOLOGY

Unit: I	
Topicsto becovered	**No.ofHours**
Definition for Microbiology, History of Microbiology & its Scope.	3
Classification of Microorganisms, Different morphological appearances of Bacteria.	3
Structure of a typical prokaryotic bacterium (E.coli) and its cell components	3
Structure of a typical T4Bacteriophage and its Life cycle.	3
Total	**12**

Unit: II	
Topicsto becovered	**No.ofHours**
Media and its types.Preparation of Nutrient Agar Plates. Broth culture,	3
Stab culture, Slant culture.Autoclave- sterilization	3
Aseptic transfer, Inoculation, Spread plate, Streak plate- types, pour plate	3
serial dilution.Gram staining technique, Bacterial growth curve.	3
Total	**12**

Unit: III	
Topicsto becovered	**No.ofHours**
Types of diseases (Air borne, water borne, Vector borne). Nosocomial infections.	4
Bacterial disease – Tuberculosis -, Disease diagnosis, mode of transmission, epidemiology, eradication methods	4
Bacterial disease – Gonorrhoea.	2
Viral disease – AIDS, Dengue -, Disease diagnosis, mode of transmission, epidemiology.	2
Total	**12**

Unit: IV	
Topicsto becovered	**No.ofHours**
Definition- Factors in food spoilage	2
Food spoilage and its biochemical changes.	4
Food Poisoning	3
Food preservation- methods.	3
Total	**12**

Unit: V	
Topicsto becovered	**No.ofHours**
Nitrogen fixing organism	2
Mechanism of N2 fixation in the root nodules of Leguminous plants	3
Blue Green Algae (BGA)/ Cyanobacteria	3
Non symbiosis- Azospirillum, Azotobacter. Mycorrhizae – types.	4
Total	**12**

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3 hours

TEACHINGPLAN
For the Academic Year 2023-24 (EVENSEMESTER)

Department: Zoology	**Programme: II B.Sc., Zoology**

Course Code:20UZYC4P	**Staff Name:Dr. K. Arifa Banu (Units- 1,2& 3)** **Dr. M. Mohiadeen Batcha (Units- 1,3 & 4)** **Dr. M. Ashiq Ur Rahman (Units- 1,4& 5)**

Course Name:CELL BIOLOGY, MOLECULAR BIOLOGY, EMBRYOLOGY& MICROBIOLOGY

Unit: I	
Topicsto becovered	**No.ofHours**
Cell & Molecular Biology: Experiments: Microscopy: Handling of dissection microscope and Compound microscope	**4**
Reagent preparation and handling: percentage solution, molarity and normality	**4**
preparation of Buffers	**5**
Observation of Mitotic Stages in Onion Root tip -Squash Preparation	**5**
Total	**18**

Unit: II	
Topicsto becovered	**No.ofHours**
Cell & Molecular Biology: Experiments:Observation of Meiotic stages in Grasshopper testis - Squash Preparation	**6**
Observation of Polytene chromosome in *Chironomous* larva	**6**
Human Blood smear preparation- Preparation ofSquamous epithelium from buccal samples	**6**
Total	**18**

Unit: III	
Topicsto becovered	**No.ofHours**
Cell & Molecular Biology: Spotters (Biovisual charts / Models): Mitochondria –Golgi apparatus	**6**
Endoplasmic reticulum -Ribosome-Chromosomes– RBC and WBC	**6**
Structure of DNA, RNA -Protein synthesis (Model)	**6**

Total	**18**

Unit: IV	
Topicsto becovered	**No.ofHours**
Embryology Spotters(Permanent Slides / Specimens/ Bio visual charts): Observation of different stages Chick Blastoderm stages (24 hrs – 48 hrs – 72 hrs - 96hrs	**6**
Observation of Frog: a) Egg b) Sperm c) Cleavage cells d) Blastula e) Gastrula –Observation of Metamorphosis in frog	**6**
Observation of mammalian: a) Egg b) Sperm- Study of Oogenesis & Spermatogenesis and Spermiogenesis- Observation of Placenta –Sheep(Cotyledonary type)- Pig (Diffused type)	**6**
Total	**18**

Unit: V	
Topicsto becovered	**No.ofHours**
Microbiology Experiments: Lab Safety and Aseptic Techniques-Cleaning of glasswares and modes of sterilization	**6**
Preparation of culture media for microorganisms – Agar &Broth media	**6**
Pure culture technique- a) Serial dilution b) Streak plate c) Pour plate	**6**
Total	**18**

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TEACHINGPLAN

For the Academic Year 2023-24 (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.	2
Major Steps involved in cloning of Humaninsulin Gene.	2
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Gene cloning strategies: Selection of desired DNA fragments, linkers andadapters,	2
Transformation (heatshock, electroporation, microinjection)	3
transfection. 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	2
Total	**12**

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,	2
Transgenic Animals- Fish & Sheep. rDNA vaccines (types only)	3
Hybridoma Technology- Production and application of Monoclonal AntibodiesMCA/ Mabs;	2
Polymerase chain reaction (PCR), Blotting techniques- Southern& Northern blots;	1
DNA finger printing and its uses	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Plant cell and tissue culture (PTC), culture media,	2
Types of plant tissue cultures (Callus, suspension, meristem culture	3
Anther & ovule cultures	2
Protoplast culture	2
Micropropagation and somatic embryogenesis.	2
Applications of PTC	1
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Biodegradation – Definition- Xenobiotics-	3
Biodegrading agents- treatment of toxic pollutants and its advantages	3
Psedomonasputida- Super Bug	2
Rural biotechnology: Red, White, Blue & Green biotechnology.	4
Total	**12**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVENSEMESTER)

Department: ZOOLOGY	**Programme: III B.Sc., ZOOLOGY**

Course Code:20UZYC62	**Staff Name:Dr.M.Mohiadeen Batcha (Units 1, 2 & 3)** **Dr. M. Ashiq Ur Rahman (Units 4 & 5)**

Course Name:ANIMAL PHYSIOLOGY

Unit: I	
Topicsto becovered	**No.ofHours**
Digestion: Physicochemical process ofdigestion and absorption of Carbohydrate-ProteinsandLipids	**3**
Respiration: Kinds of respiration-Respiratory organs and mode of respirationfoundamonganimals	**3**
Role of mitochondria in respiration-respiratory pigments – transport of oxygenandcarbondioxide	**4**
Respiratory Quotient –Mechanism ofpulmonaryrespiration	**2**
Total	**12**

Unit: II	
Topicsto becovered	**No.ofHours**
Excretion:Structureofnephron-Kidney-principleexcretoryorgan-FormationofUrine	**3**
Circulation:Structureandcompositionofblood-Functionsofthecirculatorysystem	**3**
MechanismofHeartbeat-Pacemakers-ECG- Blood pressure and Bloodcoagulation	**3**
Thermoregulation: Poikilotherms and Homeotherms	**3**
Total	**12**

Unit: III	
Topicsto becovered	**No.ofHours**
Muscle physiology: Ultra structure ofmuscle-Mechanismofmusclecontraction andrelaxation	**3**
Nerve physiology: Ultra structure of neuron –physiology of nervecoordination	**3**
Nerveimpulseandconductionofnerveimpulse-ReflexAction:definitionofvision	**4**
hearing in man- Autonomic nerve system	**2**
Total	**12**

Unit: IV	
Topicsto becovered	**No.ofHours**
Senseorgan-Classificationofsenseorgans	**4**
Mechanoreceptors-primarysensecells:pressure, pain &touch receptors-Equilibriumreceptors	**2**
thermoreceptors-chemoreceptors-photoreceptors	**4**
Chronobiology: characteristics of Circadianrhythm–examples	**2**
Total	**12**

Unit: V	
Topicsto becovered	**No.ofHours**
Endocrine&NeuroendocrinesysteminCrustaceans&Vertebrates	**3**
Hormonalfunction:Pituitary-Thyroid	**3**
Parathyroid-adrenal-IsletsofLangerhans	**3**
TestesandOvary	**3**
Total	**12**

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TEACHINGPLAN

For the Academic Year 2023 - 24 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: B.Sc., Zoology**

Course Code: 20UZYC63	**Staff Name: Dr. K. Arifa Banu**

Course Name: Economic Entomology and Sericulture technology

Unit: I	
Topics to be covered	**No. of Hours**
Introduction - Salient features of Insects - Dominance of insects among animals	**3**
Insect classification upto order level with examples (List only)-	**3**
Economic classification of insects with examples (List only).	**3**
Insect development and metamorphosis Egg, larval and pupal types.	**3**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Beekeeping: Systematic position of honeybee	**3**
Kinds of honeybees, 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, Sericulture industry in India,	**3**
Central Silk Board	**3**
Systematic position of Bombyxmori, Voltinism,	**3**
Moriculture in general, Biology of silkworm.	**3**

Unit: IV	
Topics to be covered	**No. of Hours**
Sericulture Technology: Overview of Cocoon quality	3
cocoon sorting and marketing - Cocoon stifling,	3
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. Tsetse fly	3
Disease causing vectors – Housefly	3
mosquito, lice	3
Life cycle, disease transmitted and their control measures.	3
Total	**12**

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3 hours

TEACHINGPLAN

For the Academic Year 2023-24 (ODD - EVEN SEMESTER)

Department: Zoology	**Programme: III BSc Zoology**

Course Code:20UZYC6P	**Staff Name:Dr.M.Mohiadeen Batcha(Unit 1,2,3)** **Dr.M.Ashiq ur Rahman (Unit 3,4,5)** **Dr. A. Majitha Begam (Unit 1,2,3)** **Ms. A.M.Rashida Banu(Unit 3,4,5)**

Course Name: Biochemistry & Ecology practical

Unit: I	
Topicsto becovered	**No.ofHours**
Quantitative analysis of Carbohydrate	4
Anthrone method	4
Quantitative analysis of Protein – Lowry et al.,-method	5
Analysis for Sopanification number in lipid	5
Total	**18 hours**

Unit: II	
Topicsto becovered	**No.ofHours**
Qualitative analysis of Urine	3
Qualitative analysis of Urine	4
bile pigments and ketone bodies	4
Verification of Beer- Lambert's law-	4
pH measurements of various samples using pH met	3
Total	**18 hours**

Unit: III	
Topicsto becovered	No.ofHours
Separation of amino acids: Separation of amino acids by Paper Chromatography	4
Electrophoresis demonstration	4
Centrifuges- Demonstration	4
Estimation of Dissolved Oxygen in water samples(Distilled water)	3
Estimation of Dissolved Oxygen in water samples(Tape water)	3
Total	18 hours

Unit: IV	
Topicsto becovered	No.ofHours
Plankton mounting	3
Fresh water and marine planktons	3
Sampling of animal population by quadrate method	4
line transect method in terrestrial habitat.	4
Examples illustrating animal association.	4
Total	18 hours

Unit: V	
Topicsto becovered	No.ofHours
Study of food chain and food web in as pond Ecosystem.	3
Measurement of water transparency using Secchi disc. Adaptations: a) Parasitic adaptations' – *Ascaris, Taeniasolium* and *Sacculina*	3
Flight adaptations – Birds and bat, c) Aquatic adaptations – (Model or proper cuttings), d) Burrowing adaptations – Rat/Pangolin.	4
To a minimum of three days exposing the students to various Ecological habitat, Farm Visit	4
Zoo, Botanical Gardens, Pollution Areas and submit a report.	4
Total	18 hours

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3 hours

TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: B.Sc.,Zoology**
Course Code: 20UZYC6Q	**Staff Name: Dr.M.Mohamed Meeran (Units- 1, 2 & 3)** **Ms.A.M. Rashida Banu (Units- 3,4 & 5)**

Course Name: Genetics, Biostatistics, Immunology & Aquaculture

Unit: I	
Topics to be covered	**No. of Hours**
Simple Mendelian Traits in Man	**5**
Blood Grouping- A,B,AB,O & Rh	**5**
Study of Drosophila culture &	**5**
Isolation of Virgin flies	**3**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Mounting of Barr Body	**4**
Pedigree Analysis	**4**
Conjugation	**4**
Transformation	**4**
Transduction	**2**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Calculation of Mean	**3**
Calculation of Median	**3**
Calculation of Mode	**3**

Calculation of Standard deviation, Error, Variance using Neem Leaves	3
Height & Weight of class students	3
Study of Probability using two coin tossing experiment	3
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Demonstration of Lymphoid organs	4
Demonstration of ELISA	4
Demonstration of Immuno Electrophoresis	5
Autoimmune diseases	5
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	6
Extraction of Isinglass from locally available fish	6
Total	**18**

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3 hours

TEACHINGPLAN

For the Academic Year 2023 - 24 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: B.Sc. Zoology**

Course Code: 20UZYC6R	**Staff Name: Dr. K. Arifa Banu** **Dr. A. Majitha Begam**

Course Name: Physiology, Biotechnology and Evolution

Unit: I	
Topics to be covered	**No.ofHours**
Amylase activity: Amylase activity in human saliva in relation to pH	**6**
Amylase activity: Amylase activity in human saliva in relation to Temperature	**6**
Estimation of oxygen consumption in fish.	**6**
Total	**18**

Unit: II	
Topics to be covered	**No.ofHours**
Enumeration of nitrogenous waste: products in fish tank water. -Ammonia	**5**
Bird excreta – Uric Acid	**4**
mammalian urine for detection of urea	**4**
. Blood pressure demonstration under normal condition and stress.	**5**
Total	**18**

Unit: III	
Topics to be covered	**No.ofHours**
Estimation of haemoglobin: Estimation of haemoglobin by Haemoglobinometer.	**6**
Enumeration of blood cells by haemocytometer	**6**
Demonstration of P. C. R technique	**6**
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Homologous	**4**
Analogous organs:.	**4**
Vestigial organs	**4**
Blot (Demo through CD).	**6**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Fossils: Fossils	**4**
Examples of evolutionary importance – Peripatus and Limulus.	**4**
Animals with adaptive colouration – Leaf insect, Stick insect	**4**
Chaemeleon.	**2**
Variation in Finger prints	**4**
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: B.Sc.,Zoology**

Course Code:20UZYE63	**Staff Name: Dr. M. Mohamed Meeran (Units- 1-5)**

Course Name: Biochemistry

Unit: I	
Topics to be covered	**No. of Hours**
Biomolecules- Interaction and bonding. Water	**2**
Molecular structure and properties(Thermal, Solvent, Colligative)	**3**
Dissociation & Ionization of water, pH and Buffers(Bicarbonate, Phosphate and acetate)	3
Henderson- Hasslbach equation, pKa.	**4**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Carbohydrates: Classification- Monosaccharides-Glucose, Fructose & Galactose	**2**
Structure and isomerism-Biological importance	**2**
Disaccharides- Structure and Biological importance of Maltose, Sucrose and Lactose	**3**
Polysaccharides-Homopolysacccharides- Starch and Glycogen	**2**
Heteropolysaccharides- Structural characteristics and functions of peptidoglycan and agar	**3**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Aminoacids: Structure and classification of aminoacids based on polarity	**3**
Properties and chemical reactions- Zwitter ion-Isoelectric PI.	**3**
Proteins-Classification,Primary,Secondary-Ramachandran Plot	**3**

Tertiary & Quaternary structure	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Lipids: Classification-Biological importance-Beta oxidation.	3
Enzymes: Classification and mechanism of action (lock and key and induced fit theories	3
Enzyme Kinetics- Michael's Menden equation.	3
Enzyme inhibition- Competitive, Non- competitive and allosteric	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Nucleic Acids: Nucleoproteins, Nucleosides, Nucleotides	3
Chemical structure of DNA, Synthesis of nucleic acids	3
Salvage and De-novo pathways	3
Fat and water soluble vitamins- source significance and deficiency	3
Total	**12**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: M.Sc., ZOOLOGY**

Course Code: 20UZYS61	**Staff Name: Dr.M.Ashiq Ur Rahman(2,3,4)** **Dr.P.Raja, (1,5 Unit)**

Course Name: Poultry Science

Unit: I	
Topics to be covered	**No. of Hours**
Poultry industry in India: scope and objectives- Choosing commercial layers and Broilers. Types of poultry housing	2
litter system, 1:3 system, cage rearing	3
Poultry equipments	1
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
Practical aspects of Chick rearing - Management of layers	2
Management of Broilers.	2
Marketing of poultry product-Poultry manure.	2
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
Summer management	2
winter management	2
Debeaking	2
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Non - Nutritive feed additives. Feed stuff for poultry.	2
Feed formulation.	2
Nutrition deficiency symptoms - Quality control.	2
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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TEACHING PLAN

For the Academic Year 2023-24(EVEN SEMESTER)

Department: ZOOLOGY	**Programme: B.Sc.,ZOOLOGY**

Course Code:20UZYS62	**Staff Name: Ms P.VINNOLI (Units 1-3)** **Dr.M.MOHAMED MEERAN(Units 4-5)**

Course Name:ZOOLOGY FOR COMPETITIVE EXAMINATIONS-II

Unit: I	
Topics to be covered	**No. of Hours**
TEACHING APTITUD: 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;	**2**
Research Ethics; Paper, article, workshop, seminar, conference and symposium.	**2**
Thesis writing: its characteristics and format.	**2**
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.	**2**
Communication Nature, characteristics.	**2**
Types, barriers and effective classroom communication.	**2**
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; Verbal analogies:	**2**
Word analogy — Applied analogy; Verbal classification; 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;	**2**
Quantitative and qualitative data;	**2**
Graphical representation and mapping of data.	**2**
Total	**6**

Signature of the Dean

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Signature oftheStaff

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: M.Sc.,Zoology**

Course Code:23PZYCC21	**Staff Name: Ms. Indumathi A (1,2,3 Unit)** **Mr.S.Basil Mohamed (3,4,5 Unit)**

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	**5**
Protoplasm and deutroplasm	**3**
Cell organelles	**4**
Cell theory	**3**
Diversity of cell size and shapes	**3**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Cellular organization - Membrane structure and functions, Structure of model membrane	**3**
Lipid bilayer and membrane proteins diffusion, osmosis, ion channels, active transport ion pumps	**5**
Mechanism and regulation of intracellular transport, electrical properties of membranes	**3**
Structure and functions of intracellular organelles: Nucleus, mitochondria, Golgi bodies,	**3**
Lysosomes, endoplasmic reticulum, 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	6
Molecular biology of cell: Structure of DNA and RNA ,Process of DNA replication	5
Transcription and translation in prokaryotic and eukaryotic cells	4
Genetic maps	3
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Cell communication and cell signaling: Membrane- associated receptors for peptide and steroid hormones	5
Signaling through G-protein coupled receptors signal transduction pathways	5
General principles of cell communication: extracellular space and matrix	4
Interaction of cells with other cells and non cellular structures	4
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	5
Metastasis; Oncogenes and tumor suppressor genes	4
Apoptosis; therapeutic interventions of uncontrolled cell growth	3
Total	**18**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: M.Sc., ZOOLOGY**

Course Code: 23PZYCC22	**Staff Name: Dr.P.Raja, (1,2 Unit)** **Ms.P.Vinnoli (5 Unit)** **Mr. S. Basil Mohamed, (3,4 Unit)**

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.	5
Gametogenesis: Origin of germ cells, spermatogenesis - Sperm morphology in relation to the type of fertilization,	6
Oogenesis - Oogenesis in insects and amphibians; Composition and synthesis of yolk in invertebrates (insects and crustaceans) and vertebrates;	4
Genetic control of vitellogenin synthesis in amphibians	3
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 - Physiological polyspermy	6
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	6

blastula transition	
- Determinate and regulatory embryos, Factors affecting gastrulation, mechanisms and types of gastrulation in respective animal embryos (Sea urchin, *Amphioxus*, Amphibians, Aves, Mammals);	6
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 – Organogenesis - Development of endodermal, mesodermal and ectodermal derivatives.	6
Embryonic Induction and neurulation; Formation and migration of neural crest cells - types of neural crest cells and their patterning - primary and secondary neurulation. Gene and development;	6
Anterior- posterior axis in determination in drosophila, Maternal effect genes - *Bicoid* and *Nanos* proteins; Generation of dorsal - ventral polarity- Genetic control of segmentation – Gap genes; pair rule genes; Homeotic genes	6
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Post embryonic development metamorphosis: Endocrine control of metamorphosis in insect and amphibian - Endocrine control of moulting and growth in crustaceans and insects - Neoteny and pedogenesis.	6
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. Aging and senescences: Biology of senescences- cause of aging- mechanism involved in apoptosis.	6
Experimental Embryology: Mammalian reproduction: Mammalian reproductive cycle, Hormonal regulation, Endocrine changes associated with normal pregnancy, Induced ovulation in humans – Cryopreservation of gametes/embryos - Ethical issues in cryopreservation	6
Total	**18**

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TEACHINGPLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc., Zoology**

Course Code: 23PZYCC2P	**Staff Name: Dr.P.Raja** **Ms.P.Vinnoli** **Mr.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**
Determination of cell size using micrometer	**6**
Mitosis in root meristematic cells of plants	**3**
Identification of various stages of meiosis in the testes of grasshopper	**3**
Detection of polytene chromosome in salivary gland cells of the larvae of the Chironomus	**3**
Detection of sex chromatin.	**3**
Total	**18**

UNIT: II	
Topics to be covered	**No. Of hours**
Identification of blood cells in the haemolymph of the of the cockroach	**5**
Isolation of genomic DNA from eukaryotic tissue	**3**
Isolation of total RNA from bacterial cells/tissues	**3**
Agarose gel electrophoresis of DNA	**4**
SDS-Polyacrylamide gel electrophoresis	**3**
Total	**18**

UNIT: III	
Topics to be covered	**No. Of hours**
Oogenesis: Section through ovary of shrimp, fish, frog and mammals	**8**
Spermatogenesis: Section through testis of shrimp, fish, calotes and mammals	**3**
Fertilization-Induced spawning in polycheate worm *Hydroids elegans*	**3**
In vitro fertilization and development in a polycheate worm *Hydroids elegans*	**4**
Total	**18**

UNIT: IV	
Topics to be covered	**No. Of hours**
Observation of egg developmental stages in *Emerita emeritus*	**5**
Observation and whole mount preparation of the chick blastoderm - 18 hours of development	**4**
Chick embryonic stage - 24 hours of development	**3**
Chick embryonic stage - 48 hours of development	**3**
Chick embryonic stage - 72 hours of development	**3**
Total	**18**

UNIT: V	
Topics to be covered	**No. Of hours**
Chick embryonic stage - 96 hours of development	**4**
Histological observation: Section through various developmental stages in chick embryo Experimental Embryology-Regeneration in Frog Tadpoles	**5**
Blastema formation & Demonstration of regenerative process in tadpole Metamorphosis	**3**
Demonstration of metamorphosis in Frog Tadpole using exogenous Iodine Cryopreservation	**3**
Demonstration of cryopreservation of gametes of fin fish/shell fish	**3**
Total	**18**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc**
Course Code:23PZYDE21	**Staff Name: Dr.P.Raja (1,2,3 Units)** **Ms.P.Vinnoli (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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For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc**

Course Code:23PZYGE21	**Staff Name: Dr.K.Arifa banu (1 Unit)** **Dr.M.Mohiadeen batcha(4,5 Units)** **Ms.P.Vinnoli (3Unit)** **Ms.A. Indumathi (2 Unit)**

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 2023-24 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc., Zoology**

Course Code: 23PZYSE21	**Staff Name: Mr.S.BASIL MOHAMED(units 1,2& 3)** **Ms.A.INDUMATHI(units 3,4& 5)**

Course Name: Skill Enhancement Course [SEC] – I- Poultry Farming

UNIT: I	
Topics to be covered	**No. of Hours**
General introduction to poultry farming - Definition of Poultry	**2**
Past and present scenario of poultry industry in India	**3**
Principles of poultry housing	**3**
Poultry houses	**2**
Systems of poultry farming	**2**
Total	**12**

UNIT: II	
Topics to be covered	**No. Of hours**
Management of chicks – Growers.	**3**
Management of chicks - Layers	**2**
Management of Broilers	**2**
Preparation of project report for banking.	**3**
Preparation of project report for insurance.	**2**
Total	**12**

UNIT: III	
Topics to be covered	**No. Of hours**
Poultry feed management	3
Principles of feeding.	4
Nutrient requirements for different stages of layers and broilers.	3
Feed formulation and Methods of feeding.	2
Total	12

UNIT: IV	
Topics to be covered	**No. Of hours**
Symptoms, control and management of Poultry diseases-Viral diseases (any two)	2
Bacterial diseases (any two)	2
Fungal diseases (any two)	3
Parasitic diseases (any two)	3
Vaccination programme.	2
Total	12

UNIT: V	
Topics to be covered	**No. Of hours**
Selection, care and handling of hatching eggs	3
Egg testing. Methods of hatching	2
Brooding and rearing	2
Sexing of chicks, Farm and Water Hygiene	3
Recycling of poultry waste.	2
Total	12

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: M.Sc.,Zoology**

Course Code:20PZYC41	**Staff Name:Ms.P.Vinnoli(1,2,3)** **Mrs.A.Indumathi(4)** **Mr.S.Basil Mohamed(5)**

Course Name: General and Applied Entomology

Unit: I	
Topics to be covered	**No. of Hours**
Insect Taxonomy- Salient features of insects, Basics of Insect classification	**4**
Key characters of five important insect orders (Odonata, Orthoptera, Coleoptera, Diptera, and Lepidoptera) with common examples	**3**
Morphology: Head, segmentation and sutures. Thorax and its appendages	**3**
Insect legs, Wings- venation, Abdomen and its appendages – Genitalia	**5**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Physiology: Integumentary system, structure and chemistry , physiology of moulting	**3**
Reproductive system: Male and female reproductive systems types of ovaries vitellogeneis, mating	**3**
Oviposition viviparity accessory reproductive glands – their secretions and functions	**3**
Endocrine systemEndocrine control of moulting and metamorphosis	**3**
role of hormones in male and female reproduction	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Beneficial insects – Honeybee and Silk moth- Biology, Culture methods and Economic importance.	4
Agriculture pests – Biology, damage and control methods of pests of paddy (Scirpophaga incertulas)	4
Sugarcane (Chilo infuscatellus), coconut (Rhyncophorus ferrugineus)	4
Brinjal (Leucinodes orbanalis) – pests of stored products (Sitophilus oryzae)	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Medical and Veterinary entomology: Biology and control of house fly	3
Biology and control of mosquito	3
Biology and control of Cattle -Horse fly and cattle fly	5
Biology and control of Poultry pests Shaft louse and Chicken flea	4
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Principles of Insect control – prophylatic measures – cultural, mechanical, physical Methods	5
Pesticides - classification – mode of entry, mode of action, chemical nature	4
Non-conventional methods: Pheromones and chemosterilants Merits and Demerits of chemical methods of pest control	3
Biocontrol agents (List only) – Merits and Demerits Integrated Pest Management (IPM)	3
Total	**15**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Zoology	**Programme: M.Sc., Zoology**

Course Code: 20PZYC42	**Staff Name: Mr.S.BASIL MOHAMED(units 1& 3)** **Dr.P.RAJA (units 2& 3)** **Ms.A.INDUMATHI(units 4& 5)**

Course Name: Parasitology

UNIT: I	
Topics to be covered	**No. of Hours**
Parasitology-animal association, types of parasites and hosts	**5**
Interrelationship between host and parasites.	**3**
Responses and hosts to parasitic infection	**3**
Mode of transmission of parasite.	**2**
Host specificity and parasitic adaptation.	**2**
Total	**15**

UNIT: II	
Topics to be covered	**No. Of hours**
Classification, Geographical distribution, Morphology, Life cycle of Pathogenesis	**3**
Life cycle-Treatment and prevention of Transmission, Pathogenecity, Treatment and Prophylaxis of: Protozoan parasites: *Entamoeba Sps, Trypanosoma Sps.*	**4**
Leishmania Sps	**2**
Intestinal flagellates *Giardia Sps.*	**2**
*Trichomonus Sps.*Insect parasite: *plasmodium.*	**4**
Total	**15**

UNIT: III	
Topics to be covered	**No. Of hours**
Taenia sp. Diphilabothrium sp. Pathogenesis-Life cycle-Prevention and treatment of protozoans and parasitic cestodes.	5
Trematodes: Classification, Morphology, Life-cycle, Transmission, Pathogenecity, Treatment and Prophylaxis of *Schistosomo Sp.*	6
Faciola Sp.	2
Echinococcus Sp.	2
Total	15

UNIT: IV	
Topics to be covered	**No. Of hours**
Nematodes: *Wuchereria sp. Ancylostoma Sp*	4
*Dracunculus Sp.*plant & soil nematodes	4
Cyst nematodes, citrus nematode biodiversity	4
Taxonomic overview of Helminth Parasites.	2
Parasites of Vetrinary importance.	1
Total	15

UNIT: V	
Topics to be covered	**No. Of hours**
Laboratory techniques in Parasitology - Examination of faeces	4
Examination of Ova and cysts	3
Concentration methods-Blood smear for parasites.	3
Cultivation of protozoan parasites.	2
Covid-19 Virus: Structure, function, Causative mechanism & transmission.	3
Total	15

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TEACHINGPLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ZOOLOGY	**Programme: M.Sc., ZOOLOGY**

Course Code: 20PZYP41	**Staff Name: Dr.P.Raja** **Ms.P.Vinnoli** **Mr.S.BASIL MOHAMED** **Ms.A.INDUMATHI**

Course Name: General and Applied Entomology

Unit: I	
Topics to be covered	**No. of Hours**
Dissection of digestive, nervous and reproductive systems- Mounting of mouth parts and other special morphological modifications of the following species: Lepisma, Dragon	5
fly, Apis,	5
Butterfly	5
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Collection, pinning and preservation of Insects	5
Identification of some common insects (at least 10 insects)	5
Submission of record and insect library	5
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Collection, identification and study of any four insect pests of crops grown in and around Uthamapalayam – Paddy, vegetables – Brinjal and	5
Lady's finger etc. (any two)	5
Identification of two insect pests of mango	5

Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Identification of any two stored product insect pests	5
Identification of beneficial insects: Honey bee, Silk worm larval stage and cocoon.	5
Insects of medical importance – mosquito,	5
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
housefly and head louse	5
Insecticides : Knowledge of any organochlorine- DDT/HCH, Organophosphorous –	5
Monocrotophos/ Chloropyriphos, Carbamate – Carbofuran, Synthetic pyretheroid – Fenvalerate / Cypermethrin	5
Total	**15**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ZOOLOGY	Programme: M.Sc., ZOOLOGY

Course Code: 20PZYE42	Staff Name: Dr.P.Raja, (3,4,5 Unit) Mr. S. Basil Mohamed, (1,2 Unit)

Course Name: Aqua Culture and Farm Management

Unit: I	
Topics to be covered	**No. of Hours**
Importance of aquaculture, Global scenario, Present status in India - Prospects and scope	5
Aquaculture Farms: Site selection, topography, water availability and supply, soil conditions and quality.	5
Design, layout, structure and construction.	5
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Standard guidance for choosing cultivable species - Seaweeds, Crustaceans (Prawns & Lobsters), Molluscs (Clams, Cockles, Mussels and Oysters) and fishes	5
biological criteria - Environmental adaptability and compatibility	5
Economic importance - economics, market values, by-products and availability in adjacent region.	5
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Distribution and abundance of natural seed resources, collection methods and segregation. Artificial seed production	5
breeding under controlled condition, induced breeding technique, larval rearing, packing and transportation. Live feed - Microalgae, Rotifer and Artemia - their culture. Feed formulation	5
Conventional and non-conventional ingredients, feed additives, feed attractants and feed formulations	5

Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Traditional, Extensive , Semi-intensive and intensive systems, composite fish culture,	5
paddy-cum-fish culture, integrated fish culture, sewage water fish culture, raceway culture,	5
cage, pen and rack culture; Culture system management - pond preparation, production and economics.	5
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Water quality management - temperature, salinity, pH, O2, Co2 levels, nutrients and trace elements.	5
Control of parasites, predators, weeds and diseases in culture ponds.	5
Disease diagnosis - ELISA, Western blotting - DNA based diagnosis of diseases and fish vaccines.	5
Total	**15**

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S. Basil

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TEACHING PLAN

For the Academic Year 2023-24 (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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TEACHINGPLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: BOTANY	**Programme: II B.Sc Zoology**

Course Code: 20UBYA21	**Staff Name: Dr. A MAAJITHA BEGAM & Mrs. A M RASHIDA BANU**

Course Name: ALLIED BOTANY II

Unit: I	
Topics to be covered	**No. of Hours**
Introduction - Bentham and Hookers' system of classification	3
Euphorbiaceae - Economic importance	3
Asclepiadaceae - Economic importance	3
Poaceae- Economic importance	3
Phyllanthus, Azadirachta, Ocimum – Medicinal uses	3
Botanical Survey of India	1
Total	16

Unit: II	
Topics to be covered	**No. of Hours**
Ultra Structure of Plant Cell	2
Cell wall	2
Nucleus	1
Chloroplast	1
Introduction to genetics	2
Monohybrid Cross,Di hybrid, Incomplete dominance	3
Total	**11**

Unit: III	
Topics to be covered	**No. of Hours**
Simple and Permanent tissues: Parenchyma, collenchyma, sclerenchyma.	3
Complex permanent tissues: Xylem	2

Phloem	2
Primary anatomical structure of dicot stem and monocot 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	**13**

Unit: IV	
Topics to be covered	**No. of Hours**
Introduction to embryology and Structure of anther	**2**
Structure of male gametophyte	**2**
Types of ovule	**1**
Structure of female gametophyte	**2**
Pollination and Fertilization	**1**
Structure and development of dicot embryo and Parthenogenesis	**2**
Total	**10**

Unit: V	
Topics to be covered	**No. of Hours**
Introduction to Plant Biotechnology	**1**
Introduction to Plant Tissue Culture	**1**
Callus culture, Anther Culture, Embryo Culture	**3**
Sterilization methods	**1**
Bio diesel	**1**
Biogas	**3**
Total	**10**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: BOTANY	**Programme: II B.Sc Zoology**

Course Code: 20UBYA2P	**Staff Name: Dr A MAAJITHA BEGAM & Mrs. A M RASHIDA BANU**

Course Name: Allied Botany Practical

Unit: I Algae	
Topics to be covered	**No.of Hours**
To prepare a temporary slide of *Nostoc*	**1**
To prepare a temporary slide of *Sargassum* Stem	**1**
To prepare a temporary slide of *Saccharomyces*	**1**
To prepare a temporary slide of *Agaricus*gills	**1**
To observea Permanent slide of *Funaria* capsule, *Selaginella* cone,stem	**1**
To prepare a temporary slide of *Pinus* needle	**1**
To prepare a temporary slide of *Selaginella* stem	**1**
Total	**7**

Unit: II Fungi	
Topics to be covered	**No.of Hours**
Morphology of leaf and phyllotaxy	**1**
Inflorescence and its types	**1**
Dissection and taxonomic description of plants	**5**
Economic importance of plant specimens	**2**
Study of medicinal plants	**1**
Total	**10**

Unit: III Bryophytes, Pteridophytes and Gymnosperms	
Topics to be covered	**No.of Hours**
T.S of dicot stem and monocot stem	2
To observe permanent slides of different types of cells	1
T.S of Anther	1
L.S of Ovule	1
Total	**5**

Unit: IV Embryology	
Topics to be covered	**No.of Hours**
Monohybrid cross	1
Dihybrid cross	1
Incomplete dominance cross	1
Tools of Plant Tissue Culture	1
Total	**4**

Unit: V Plant Ecology	
Topics to be covered	**No.of Hours**
Ganong'sPotometer experiment	1
Mohl's Half Leaf experiment	1
Adaptations in Xerophytes and Hydrophytes	2
Total	**4**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: BOTANY	**Programme: I B.Sc/B.A**

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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TEACHING PLAN

For the Academic Year 2023-24 (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* cone, stem	**1**
To prepare a temporary slide of *Cycas* leaflet, corolliod root, rachis	**1**
Total	**7**

Unit: II	
Topics to be covered	**No. of Hours**
Morphology of leaf and phyllotaxy	**1**
Inflorescence and its types	**1**
Dissection and taxonomic description of plants belonging to families - Rutaceae, Caesalpiniaceae, Asclepiadaceae, Euphorbiaceae and Cannaceae	**7**
Economic importance of plant specimens	**1**
Total	**10**

Unit: III	
Topics to be covered	**No. of Hours**
T.S of Dicot stem, root, leaf and Monocot stem, root, leaf	6
To observe permanent slides of different types of cells	1
T.S of Anther, L.S of Ovule	1
Total	**8**

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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**
Course Code: 23UCSCC21	**Staff Name: Dr.S.Sirajudeen**

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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Computer Science	Programme: B.Sc

Course Code: 23UCSCC2P	Staff Name: Dr.S.Sirajudeen

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.
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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TEACHING PLAN

For the Academic Year 2023-24 (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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TEACHINGPLAN

For the Academic Year 2023-24 (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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc.**

Course Code:20UCSC41	**Staff Name: Dr.M. Sulthan Ibrahim**

Course Name: Data Structures and Algorithms

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Data Structure: Introduction-Basic terminology	**3**
Elementary Data Organization-Data Structures-Data Structure operations-Arrays	**3**
Introduction - Linear Arrays-Representation of linear arrays in Memory	**3**
Traversing Linear arrays – Inserting and deleting- Searching-Linear search and Binary Search.	**3**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Linked List: Introduction –Representation of Linked List in Memory Traversing a Linked List	**4**
Searching a Linked list- Memory Allocation	**4**
Insertion and deletion in a Linked List	**4**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Stacks: Array Representation of Stacks –Linked Representation of Stacks.	**3**
Queues: Array representation of Queues-Linked representation of Queues	**3**
Trees: Introduction –Binary Trees –Types of Binary trees	**3**

Representation of Binary Trees-Binary tree Traversal-Binary Search Trees.	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Algorithms: The Importance of developing efficient Algorithms –Complexity analysis	3
Divide and Conquer: Binary search	3
Merge sort	3
Quick sort	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
The Greedy Method: Minimum cost spanning trees: Prim's Algorithm	4
Kruskal Algorithm ,Single source paths	4
Scheduling –Huffman Codes.	4
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**
Course Code: 20UCSC4P	**Staff Name: Dr.M. Sulthan Ibrahim**
Course Name: DS, Algorithms & Numerical Methods Lab	

List of Practicals

List of Practical for Programming in Data Structures:

1. Write an interactive program to implement the following operations on stack using arrays
   a. PUSH b. POP
2. Write an interactive program to perform insertion and deletion operations in Linear Queue using arrays.
3. Write an interactive program to perform insertion and deletion operations in Circular Queue using arrays.
4. Write an interactive program to insert a node in a linked list at the front, delete a node from the rear and display.

List of Practical for Programming in Algorithms:

1. Program to search an element by binary search using divide and conquer
2. Program to find the minimum cost spanning tree using Kruskal's Algorithm.
3. Program to find the minimum cost spanning tree using Prim's Algorithm.
4. Program to generate n random numbers and sort them using Quick Sort method.
5. Program to implement Merge Sort Algorithm.
6. Implement 0/1 Knapsack problem.

List of Practical for Programming in Numerical Methods:

1. Program to solve the given equation by using Bisection method.
2. Program to solve the given equation by using Newton Raphson method.
3. Program to solve the given differential equation by using Runge kutta method.
4. Program to implement Lagrange interpolation method.
5. Program to integrate the given function by using Trapezoidal method.
6. Program to integrate the given function by using Simpson rule.

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**
Course Code: 20UCSS4P	**Staff Name: Dr.S. Sirajudeen**
Course Name: Linux Shell Programming Lab	

List of Practicals

1. Find the sum of the digits of a given number.
2. Find the reverse of a number.
3. Perform basic arithmetic operations using case.
4. Display multiplication table.
5. Check whether a number is prime or not using while.
6. Convert lowercase to uppercase using tr statement.
7. Check for an adam number.
8. Check pattern matching using grep.
9. Find the number of users who have logged in
10. Check for palindrome.
11. Find age of a person using set date.
12. Write a menu driven program to display today's date, Processes of the System, users of the system, list files of the system
13. Write a Shell Script to read 10 names from a file and sort in
    a. Ascending order b. Descending order
14. Get mark details of a student and display total and grade
15. Prepare electricity bill .
16. To set the attributes of a given file.
17. To check the given file is a directory or not
18. To create and append a file.
19. To compare two files .
20. To perform string manipulation.

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**

Course Code: 20UCSC61	**Staff Name: Ms.S.Sophia Rani**

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	2
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**

Signature of the Dean

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Signature of the HOD

Dr.S.SIRAJUDEEN.,M.Sc.,PGDCA.,M.S.,Ph.D.,
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TEACHINGPLAN

For the Academic Year 2022-23 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc.**
Course Code: 20UCSC62	**Staff Name: Dr.S. Peer Mohaideen Mudalali**
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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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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**

Course Code: 20UCSE61	**Staff Name: Dr.M.Mohamed Meeran**

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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**
Course Code: 20UCSC6R	**Staff Name: Dr.S. Peer Mohaideen Mudalali**
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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Computer Science	**Programme: B.Sc**

Course Code: 20UCSC6Q	**Staff Name: Dr.M. Mohamed Meeran**

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. 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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce	**Programme: B.COM**

Course Code: 23UCRCC21	**Staff Name: Dr.S.Hasan Banu, Dr.K.Sharifa Nizara Dr.S.Faiz Ahamed**

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 - Instalment 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
	15
Total	75

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce	**Programme: I B. Com**

Course Code: 23UCRCC22	**Staff Name: Dr. K. RASOOL MYDEEN** **Dr. M. MOHAMED ILYAS**

Course Name: BUINESS 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**

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**

G.Tot:- 75

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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

Unit: V	
Topics to be covered	**No. of Hours**
Consumerism and ethics in retailing	3
International retailing – Future of Retailing	3
	6
Total	**30**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: II.B.Com**

Course Code: 20UCRC41	**Staff Name: Dr. K. MOHAMED IRSHAD** **Mr. S. MOHAMED ISTHRISKHAN**

Course Name: BUSINESS MATHEMATICS

Unit: I	
Topics to be covered	**No. of Hours**
Elements of Set theory–Definition Symbols Roster method and Rule method	**4**
Types of sets-Union and Intersection	**4**
Subsets, Complements, Difference of two sets, Family of sets	**4**
Venn Diagram, De-Morgan' slaw.	**3**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Indices, Positive, Fractional, Operation With power function	**8**
Logarithms, Definition, Exponential forms, Laws of logarithms, Change of base Formula,	**4**
Common logarithms and Natural Logarithms Characteristics and mantissa, Rules to write, Practical problems.	**4**
Total	**16**

Unit: III	
Topics to be covered	**No. of Hours**
Commercial Arithmetic, Interest, Simple, Compound Normal rate, Effective rate	4
Normal rate, Effective rate	4
Depreciation, Present Value	4
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Discounting of Bills–Face value of Bills	4
Banker's Discount–Banker's Gain	5
Normal Due Date–Legal Due Date	5
Calculation of period for Banker's Discount and True Discount	5
Total	**19**

Unit: V	
Topics to be covered	**No. of Hours**
Definition- Basic Concepts	2
Addition, Subtraction and Multiplication Of Matrices	12
Transpose of a Matrix, Inverse, Solving Equations by Matrix method	8
Determinants and Solution of Simultaneous Linear equations	6
Total	**90**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: II B.Com**

Course Code: 20UCRC42	**Staff Name: Dr.M.Mohamed Ishaq** **Dr.M.Mohamed Ilyas**

Course Name: Management Accounting

Unit: I	
Topics to be covered	**No. of Hours**
Management Accounting, Meaning, Concept, Function, Role	5
Scope, Objectives & Limitations, Management Accounting Vs Financial Accounting	5
Management accounting Vs Cost Accounting, Tools and Techniques of Management accounting, The emerging pattern, Management Information System.	5
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Analysis and Interpretation of Financial Statements, Concept, Nature, Importance and Limitations of Financial Statements	3
Types of Financial Analysis, Methods and Device used in analyzing financial statements,	3
Comparative Financial statement, Common Size Statement, Trend Analysis.	3
Ratio Analysis– Meaning, Nature, interpretation and classification of ratios	3
Computation of Ratios, Liquidity, Solvency and Profitability.	3
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Funds Flow Statement	5
Cash Flow Statement as per AS3	5
Marginal Costing and Break Even Analysis, Profit Planning	3
Cost Volume Profit Analysis (excluding Income determination under Absorption costing and Application of marginal costing for managerial decision)	2
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Budget and Budgetary Control, Meaning, Concept, Objectives,	2
Advantages and Limitation of Budgets and Budgetary controls, Classification	2
Preparation of Budgets, Sales Budget, Production Budget,	5
Raw Materials and Raw Materials Procurement Budget – Cash Budget and Flexible Budget.	6
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Standard Costing, Meaning, Concept and Essentials for an effective system of Standard Costing	5
Variance Analysis, Classification of Variances	5
Material and Labour Variances only	5
Total	**15**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: II.B.Com**

Course Code: 20UCRC43	**Staff Name: Dr. A. ABBAS MANTHIRI** **Mr. M. ABDUL JABBAR**

Course Name: PARTNERSHIP ACCOUNTS

Unit: I	
Topics to be covered	**No. of Hours**
Partnership Accounts: Partnership, Definition, Provision relating to Partnership Accounting	6
Capital and Current Accounts of partners, Fixed and Floating	7
Appropriation of profits, Past adjustments And guarantee	7
Total	**20**

Unit: II	
Topics to be covered	**No. of Hours**
Admission of partner, Calculation of new Profit sharing ratio	5
Adjustment of undistributed profits, Losses and reserves, Revaluation of Assets and Liabilities	5
Treatment of Goodwill, Adjustment of Capitals of partners after admission of a partner	5
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Retirement of Partner, Transfer of balance Due to retired partner.	**5**
Death of a partner, Treatment of joint life Policy	**5**
Settlement of amount due to legal Representative of deceased partner	**5**
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Dissolution of Partnership, Accounting Treatment	**6**
Insolvency of a Partner or partners, Decision in Garner vs. Murray case, Insolvency of all partners	**7**
Gradual Realisation of Assets and Piece meal distribution of Cash, Proportionate capital method and Maximum loss method	**7**
Total	**20**

Unit: V	
Topics to be covered	**No. of Hours**
Amalgamation of firms	**10**
Sale to a Company	**10**
Total	**90**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce	**Programme:** II B.Com

Course Code: 20UCRC44	**Staff Name:** Dr. K. Rasool Mydeen

Course Name: Business Law II

Unit: I	
Topics to be covered	**No. of Hours**
The Law of Sale of Goods, Sale and Agreement to Sale- Conditions and Warranty – Doctrine of Caveat Emptor – Delivery, Rules Regarding Delivery of Goods – Provisions Regard to Passing of Property , Implied Conditions and Warranties	7
Rules in Regard to Passing of Property Unpaid seller- Rights of Unpaid seller	4
Auction Sale – Remedies Against the Seller for Breach of Contract.	4
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Law of Carriage of Goods – Carriage of Goods by Land, Common Carrier – Duties, Rights and Liabilities - Roadways and Railways	5
Carriage of Goods by Sea – Charter Party – Different types – Bill of Lading	5
Carriage of Goods by Air – Domestic and International - Law of Affreightment - Charter Party Vs Bill of Lading.	5
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Consumer Protection Act, 2019 Objectives – Definition	5
Consumer Protection Council – Consumer Disputes Redressal Agencies	5
Consumer Complaint – Remedial Action	5
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
The Foreign Exchange Management Act, 1999 – Introduction- Application	5
Definition-Regulation And Management Of Foreign Exchange	5
Authorized Persons Contravention And Penalties-Adjudication And Appeal-Directorate Of Enforcement	5
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
The Information Technology Act, 2000- Definitions-Objectives-Exceptions-Digital Structure- Regulations Of Certifying Authorities-	5
Electronic Records, Electronic governance - Attribution, Acknowledgement	5
Digital Signature Certificate, Duties Of Subscriber - Penalties And Adjudication- Cyber Regulations-Offences	5
Total	15

G Total 75

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Uthamapalayam, Theni District 625 533.

TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: II.BA. (Arabic)**

Course Code:20UARA41	**Staff Name: Mr. Mr. S. MOHAMED ISTHRISKHAN**

Course Name: Fundamentals of Cost and Management Accounting

Unit: I	
Topics to be covered	**No. of Hours**
Introduction; Limitations of Financial Accounting; Meaning of costing and Cost Accounting;	3
Objectives of cost Accounting; Advantages Of cost Accounting;	3
Distinction between Financial Accounting and Cost Accounting; Installation of a costing System-Classification and elements of cost	3
Preparation of Cost Sheet	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Materials – Purchase of material–Purchase Procedure	3
Storekeeping–Different levels of stock–EOQ	4
Material Issue procedure- FIFO–LIFO	5
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Labour– Control of Labour Cost	3
Methods of Remunerating Labour	4
Incentive Wage Plans and Bonus Plans (Halsey Plan, Rowan Plan, Taylor's Differential Piece Rate System, Merrick Multiple Piece Rate system)	5
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Management Accounting Meaning–Concept	3
Function, Role–Scope Objectives & Limitations	2
Management Accounting vs. Financial Accounting –Management accounting vs. Cost Accounting	2
Tools and Techniques of Management accounting–The emerging pattern	2
Management Information System	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Ratio Analysis–Meaning	2
Nature, interpretation and classification of ratios	4
Computation of Ratios – Liquidity, Solvency and Profitability (Simple Problems only)	6
Total	**60**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce	**Programme: B.com**

Course Code: 20UCRS41	**Staff Name: Dr. S.Faiz ahamed**

Course Name: Arithmetic Ability

Unit: I	
Topics to be covered	**No. of Hours**
Numbers – H.C.F & LCM of Numbers –	3
Decimal Fractions – Simplification	3
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Square Roots & Cube Roots	3
Square Roots & Cube Roots	3
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Ratio and Proportion	3
Blending Problems of Over heads	3
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Time and Distance, Time and Work, Time and Speed	3
Problems on Trains	3
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Permutation and Combination	3
Shares and Stocks	3
Total	6

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce	**Programme: B.com**

Course Code: 20UCRC61	**Staff Name : Dr. A.Abbas Manthiri** **Dr. S. Faiz ahamed**

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**

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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.A.Sulthan Mohideen** **Dr.M.Mohamed Ilyas**

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**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce	**Programme: 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**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: III.B. Com**

Course Code:20UCRC64	**Staff Name: Mr. S. MOHAMED ISTHRISKHAN**

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
	12
Total	**60**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: III.B.Com**

Course Code: 20UCRC65	**Staff Name: Mr. M. ABDUL JABBAR**

Course Name: BUSINESS ENVIRONMENT

Unit: I	
Topics to be covered	**No. of Hours**
Meaning andImportanceoftheStudyof business Environment	3
External Factors Affecting Business - Economic, Political, Legal, Social, Competitive,EcologicalandTechnological 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 ofIndustriesinEconomicDevelopmentof India	4
Trends inIndustrialProductioninIndia, Present Status of Industrial Production	4
Problems of Industrial Development in India, Industrial policy, New policy, The IndustrialActandlicensingsystem	4
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: III B.Com**

Course Code: 20UCRE62	**Staff Name: Dr.M.Mohamed Ishaq**

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	4
Progress in Logistics and Current Trends-	4
Organization and Achieving Integration.	4
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Planning the supply chain, Logistics Strategy Implementing the Strategy	5
Locating Facilities-Planning Resources	4
Controlling Material Flow	3
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Measuring and improving performance of supply chain, Procurement-Inventory Management-	5
Warehousing and Material Handling Transport-	4
Global Logistics	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Supply chain Management, Basic Concepts of supply Chain Management	4
Planning and Sourcing	4
Making and Delivering	2
Returns-It and Supply Chain Management.	2
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Financial supply chain management, Financial Supply Chain	3
Elements of Financial Supply Chain Management	3
The Evolution of e-Financial Supply Chain	3
E-Financial supply chain- E-Financial supply chain banks Perspective	2
Legal Aspects of E-Financial Supply Chain.	1
Total	**12**

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TEACHINGPLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce	Programme: B.Com
Course Code:20UCRS6P	Staff Name: Dr. K. Mohamed Irshad
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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: I.M. Com**

Course Code: 23PCRCC21	**Staff Name: 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
	18
Total	**90**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: I.M. Com**

Course Code: 23PCRCC22	**Staff Name: Dr. A. ABBAS MANTHIRI** **Mr. S. MOHAMED ISTHRISKHAN**

Course Name: CORPORATE ACCOUNTING

Unit: I	
Topicsto becovered	**No. ofHours**
Issue of Shares: ESOPs - ESPS - Sweat Equity Shares - Book Building- Buy-back ofShares - Conversion of debentures into shares	**9**
Final accounts of Companies as perSchedule III of theCompanies Act,2013– Managerialremuneration.	**9**
Total	**18**

Unit: II	
Topicsto becovered	**No. ofHours**
Insurance Company Accounts: Types of Insurance - Final accounts of life assuranceCompanies	**6**
Ascertainmentof profit-Valuation BalanceSheet	**6**
Final accountsofFire, MarineandmiscellaneousInsurance Companies.	**6**
Total	**18**

Unit: III	
Topicsto becovered	**No. ofHours**
ConsolidatedfinancialstatementsasperAS21:ConsolidatedProfitandLossAccount	**6**
Minorityinterest–Costofcontrol–Capital reserve–Inter-companyholdings	**6**
Preparation of consolidated Balance Sheet.	**6**
Total	**18**

Unit: IV	
Topicsto becovered	**No. ofHours**
Accountingfor pricelevelchanges–Socialresponsibilityaccounting	**9**
Humanresourceaccounting- ForensicAccounting.	**9**
Total	**18**

Unit: V	
Topicsto becovered	**No. ofHours**
Financialreporting:Meaning,Objectives,Characteristics–IndianAccountingStandards(AS5,AS10,AS19,AS20)	**6**
CorporateSocialResponsibility:Meaning,KeyprovisionsofCompaniesAct,2013,	**6**
AccountingforCSRexpenditure,ReportingofCSR,Presentationanddisclosureinthefinancialstatements.	**6**
Total	**90**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce	**Programme: M.COM**

Course Code: 23PCRCC23	**Staff Name: Dr. M. Mohamed Ishaq** **Dr. S. Faiz Ahamed**

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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce	**Programme: I M. Com**

Course Code: 23PCRDE21	**Staff Name: Dr. K. RASOOL MYDEEN**

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 andemergence 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**

G. Total 60

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: I.M.Com**

Course Code: 23PCRGE21	**Staff Name: Mr. 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
	12
Total	**60**

Signature of the Dean
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Signature of the HOD
Dr.A.ABBAS MANTHIRI M.COM.,M.PHIL.,PHD.,
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TEACHINGPLAN

For the Academic Year 2023-24EVEN SEMESTER)

Department: Commerce	**Programme: I M.A. History**

Course Code: 23PCRSE21	**Staff Name: Dr. K. Rasool Mydeen & Dr. K. Mohamed Irshad**

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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce	**Programme: M.COM**

Course Code: 20PCRC41	**Staff Name: Dr.K.Sharifa Nizara**

Course Name: Indirect Taxes and Goods Service Act

Unit: I	
Topics to be covered	**No. of Hours**
Overview of Indirect Tax Law – Meaning, Concept, Features	8
Direct TaxesVs Indirect Taxes – Advantages – Disadvantages – Constitutional Validity – Administration and relevant Procedures.	10
Total	18

Unit: II	
Topics to be covered	**No. of Hours**
Central Excise Laws – Meaning – Background – Definitions – Concepts – Excise Duty Vs Custom Duty – Excise Duty Vs Sales Tax	6
Goods – Meaning - Concept – Manufacture – Manufacturer – Classification – Valuation	3
GST – Meaning – Historical Background – Definition – Concepts- Meaning andScope of Supply – Administration – Classes of Officers under Central and State Goods and Services Act – Powers – Levy – Exemption	9
Total	18

Unit: III	
Topics to be covered	**No. of Hours**
Time and Taxable Value of Supply – Input Tax Credit – Registration	6
Tax Invoice – Credit and Debit Notes	4
Returns – Furnishing details Outward and Inward Supply- Return – First Return – Annual Return- Final Return- e- filing.	8
Total	18

Unit: IV	
Topics to be covered	**No. of Hours**
Payment of Tax – Payment of Tax, Interest, Penalty – Interest on Delayed Payment of Tax	5
Transfer of Input Tax Credit – Refunds – Refunds of Tax	4
Consumer Welfare Fund – Utilisation of the Fund – Special Procedure for removal of goods for certain Purposes	9
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Assessment – Self and Provisional Assessment – Scrutiny of Accounts – Assessment of Non-filers of Returns – Assessment of Unregistered Persons	7
Demands and Recovery of Tax- Inspection, Search, Seizure	5
Offences –Penalties, Prosecution – Appeals.	6
	18
Total	**90**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: II M.Com**

Course Code: 20PCRC42	**Staff Name: Dr.A.Abbas Manthiri** **Dr.M.Mohamed Ishaq**

Course Name: Financial Management

Unit: I	
Topics to be covered	**No. of Hours**
Financial Management: Meaning, Definition, Scope – Objectives	6
Key activities of Financial Management – Organisation of Finance Section	6
An Outline of financial Systems in India	6
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Capital Budgeting – Principles and Techniques – Pay back method – Discounted Cash Flows Method (DCF) – Time Adjusted (TA) – Techniques – Present Value (PV) - Net Present Value (NPV) Method – Internal Rate of Return (IRR) Method – Average Rate of Return –Technical Value Method.	6
Analysis of Risk and Uncertainty – Definition of Risk – Sensitivity Analysis –risk evaluation approaches	6
Risk Adjusted Discount Approach –Probability distribution approach – Decision Tree Analysis	6
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Working capital, cash and receivables management – working capitalmanagement – meaning, Concept,	6

requirements - Computation of working capital under operating cycle method	6
Cash Management – cash inflows and out flows – Tools of Cash Management- Planning of Cash under cash Budget method – Receivables management – Various aspects of receivable management – Credit policy – Credit teams – Credit standards and collection policy	6
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Cost of capital, Explicit and Implicit costs – Measurement of specific cost – cost of equity – cost of debt – cost of retained earnings – cost of preference shares – computation of overall cost of capital	6
Capital Structure – Factors influencing financial decisions – Methods of financing – Theories of capital structure – capital gearing	6
Financial Leverage and Operating Leverage.	6
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Dividend and Dividend Policy – Meaning, Classification and sources of dividend.	6
Factors influencing dividend policies	6
Theories of dividend decisions – Irrelevance and relevance theory –Generally accepted dividend policies	6
Total	**18**

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For the Academic Year 2023-24 (EVEN SEMESTER)

Department: COMMERCE	**Programme: II M. Com**

Course Code: 20PCRC43	**Staff Name: Dr.A.Sulthan Mohideen** **Dr.K.Mohamed Irshad**

Course Name: Customer Relationship Management

Unit: I	
Topics to be covered	**No. of Hours**
Meaning- Need – Nature– Importance of CRM	5
Reasons for loss of customers	4
Strategies to prevent defection andrecover lapsed customers –	5
CRM process – CRM and Marketing organization.	4
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Strategies for Building relationship – CRM and Competitors	5
Cost Supply Chain, Employees, Partnership with customers	5
Organizing customer clubs- Complaintsmonitoring cell – Implementing CRM	4
— Customer Acquisition – Inputs –Requisites for effective acquisition – Attention on adoption process.	4
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Routes to CIM – Factors influencing CIM –	5
Electronic Data Interchange(EDI)	4
Specific skills for CIM – Customer	

Retention – Need – Approaches –.	
Stagesof Retention in the customer lifecycle	5
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Evolving e-CRM	5
CRM vs. e- CRM - Need to move to online CRM	4
Basic Requirements of e-CRM –	4
e-CRM -features – Future of e- CRM.	5
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Meaning – Characteristics –Benefits – Disadvantages	6
ERP and modern enterprise – CRM - ERPIntegration	6
Impact of ERP on vendors, companies and customers.	6
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce	**Programme: M.com**

Course Code: 20PCRE41	**Staff Name: Dr. S.Hasan Banu** **Dr. S. Faiz ahamed**

Course Name : Entrepreneurship and Small BusinessDevelopment

Unit: I	
Topics to be covered	**No. of Hours**
Entrepreneurship: Meaning, definition and importance– Role of Entrepreneurship in the process of economic development–	7
Entrepreneurship Competencies: Competence – Meaning, components: knowledge, skill, traits and motives – Qualities of entrepreneurs –.	7
Types of Entrepreneurs– Functions of entrepreneurs– Entrepreneurship culture.	4
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Establishing a small enterprise – learning the important steps for starting a business–project identification and selecting the product – generation and screening the project ideas	5
Market analysis –technical analysis, financial analysis (up to cost of production).	5
Growth strategy for small business–need for growth – types of growth strategy–expansion –diversification - sub contracting	4
Project formulation - assessment of project feasibility –preparation of project report - dealing with basic startup problems.	4
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Enterprise Building: (Starting of a new enterprise) Agencies that help beginners in enterprise building	6
Steps in enterprise building: Finding out new business idea – Identifying a suitable business opportunity – preliminary evaluation	6
Project formulation– preparation of project report– projectappraisal–financialanalysis–profitabilityanalysis–socialcostbenefitanalysis.	6
Total	**18**
Unit: IV	
Topics to be covered	**No. of Hours**
Entrepreneurship development institutions in India: EDII, NAYE, ITCOT, SIPCOT, TIDCO, SISI,NPC, DIC	7
Financial assistance to entrepreneurs by IFC, IDBI, ICICI, TIIC UNITV	6
Commercial Banks –Government assistance and subsidies.	5
Total	**18**
Unit: V	
Topics to be covered	**No. of Hours**
Social Entrepreneurship_ Meaning and definition---- Social Entrepreneurship initiatives in India---	7
Socially relevant and sustainable business models--	7
Social Entrepreneurship in India	4
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code:20UTAC41	**Staff Name: .K.PALANIVELU, K.JIYAVUDEEN**

Course Name: சமய இலக்கியம்

Unit: I	
Topics to be covered	**No. of Hours**
மாணிக்கவாசகர் வரலாறு	**18**
திருவெம்பாவை பாடல்கள்	
திருமூலர் வரலாறு	
அன்புடமை அதிகாரம்	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
மாணிக்கவாசகர் வரலாறு	**18**
திருவெம்பாவை பாடல்கள்	
திருமூலர் வரலாறு	
Total	**18**

Unit: III

Topics to be covered	No. of Hours
ஆழ்வார்கள் வரலாறு	18
பெரியாழ்வார் திருமொழி	
நாச்சியார் திருமொழி	
திருவாய்மொழி	
Total	18

Unit: IV	
சித்தர்கள் அறிமுகம்	No. of Hours
பட்டினத்தார் பாடல்கள்	18
சிவவாக்கியர் பாடல்கள்	
பாம்பாட்டி சித்தர் பாடல்கள்	
Total	18

Unit: V	
Topics to be covered	No. of Hours
இஸ்லாமிய ஞானநெறி - வரையறை	18
பீர் முகம்மது ஒலியுல்லா பாடல்கள்	
குணங்குடி மஸ்தான் சாகிபு பாடல்கள்	
Total	18

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TEACHING PLAN

For the Academic Year 2023-24 (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 சொல்தெரிவு, மொழி ஆளுமை இலக்கியப்புலமை, வெளிப்பாட்டுத் திறம், தொனி	6
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
புகழ்பெற்ற சொற்பொழிவாளர்கள், வ.உ.சி., திரு.வி.க கலைஞர் போன்றோர்	6
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
பொழிவுத் தயாரிப்பும் உத்திகளும்	6
Total	**6**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**
Course Code: 23UTACC22	**Staff Name: R.KARTHIK, P.LATHA**
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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A. TAMIL**
Course Code:20UTAL41	**Staff Name: M.ESWARI, A.SUBAITHA HASINA**

Course Name: செவ்விலக்கியமும் உரைநடையும்

Unit: I	
Topics to be covered	**No. of Hours**
நற்றிணை	**18**
குறுந்தொகை,அகநானூறு	
ஐங்குறுநூறு, புறநானூறு	
கலித்தொகை, முல்லைப்பாட்டு, பதிற்றுப்பத்து	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
திருக்குறள்	**18**
நாலடியார்	
முதுரை, பழமொழி நானூறு, இனியவை நாற்பது	
Total	**18**

Unit: III	
Topics to be covered	No. of Hours
உரைநடை தோற்றம்	18
உரைநடைகள்	
Total	18

Unit: IV	
இலக்கிய வரலாறு	No. of Hours
Total	18

Unit: V	
Topics to be covered	No. of Hours
இலக்கணம்	18
அகத்திணை, புறத்திணை	
அகத்துறைகள், புறத்துறைகள்	
Total	18

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**

Course Code: 23UTALL21	**Staff Name: M.SEETHA RAMAN, R.JANSI RANI**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	**18**
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

Signature of the Dean
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Signature of the HOD
தலைவர்,
தமிழ்த்துறை.
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (TAMIL)**
Course Code: 23UTACC21	**Staff Name: P.MUTHEESWARI, K.PALANIVELU**
Course Name: அற இலக்கியம்	

Unit: I	
Topics to be covered	**No. of Hours**
திருக்குறள்	**15**
நாலடியார்	
பழமொழி	
முதுமொழிக்காஞ்சி	
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
இன்னா நாற்பது	**15**
இனியவை நாற்பது	
ஆசாரக் கோவை	
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
திரிகடுகம்	**15**

சிறுபஞ்ச மூலம்	
ஏலாதி	
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
மூதுரை	**15**
நல்வழி, வெற்றி வேற்கை	
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
உலக நீதி	**15**
நீதிநெறி விளக்கம்	
அறநெறிச் சாரம்	
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (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**

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தலைவர்,
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TEACHING PLAN

For the Academic Year 2023-24 (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**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UTAS41	**Staff Name: G.GOWRISANKARI**

Course Name: Internet Basics and Applications

Unit: I	
Topics to be covered	**No. of Hours**
What is Internet – How does interest works History.	6
special about internet	
How does internet works: People and organization– hardware.	
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
World Wide Web (WWW) : Intriduction –sources finding information on the internet swarching the web – tips for internet research.	6
onternet and web	
how the web works	
history of WWW. **Web browsers and Web browsing:** Web browsers types of browsers – Web browsing. **searching the Web:** Introdyction information	
Anonymity, safety and privacy: Encryption – understanding security and privacy.	
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**

Internet Addressing: Introduction – IP address domain names Uniform Resource Locator (URL) ——	6
Domain Name Syatems (DNS) –	
Electronic Mail Address., E- MAIL., introdycruin	
why use **E – Mail** – names and address – mailing basics – ethics – spamming	
advantage and disadvantage – Tips for effective email use free email providers.	
Total	**6**

Unit: IV	
Topics to be covered	**No. of Hours**
Websites and Web Pages: Introduction web design books and blogs – blog and employment – pitfalls to avoid while blogging.	6
creating a website – web hosting web promotion	
Blogging: What is a blog? Why blog? – State of the blogosphere – blog search engines and committees – authors.	
Electronic Publishing: Introdyction to E-Publishing – Ebook readers	
Total	**6**

Unit: V	
Topics to be covered	**No. of Hours**
Social Networking: Introduction – social networking timeline– **chat, IM, Voip and video**	6
why social networking – dangers – Newsgroups – mailing listsand discussion foryms	
conferencing makingmoney on the Internet: Introduction – writing – product review sharing your knowledge – advertising – affiliate programs selling online shopping.	
Total	**6**

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உத்தமபாளையம் - 625 533.

G.Gowri

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UTAA41	**Staff Name: M.SEETHA RAMAN, R.JANSI RANI**

Course Name: தமிழக வரலாறும் பண்பாடும் - II

Unit: I	
Topics to be covered	**No. of Hours**
தமிழகத்தில் முஸ்லிம்களின் படையெடுப்புகள் சம்புவராயர்கள், விசயநகர் ஆட்சி	**12**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
ஐரோப்பியர் வருகை, ஆங்கிலேயர் எழுச்சி பாளையக்காரர்கள், தென்னிந்திய விடுதலைப் புரட்சி வேலூர்ப் புரட்சி	**12**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
19 – ஆம் நூற்றாண்டில் தமிகத்தில் இலக்கியம் பத்திரிக்கை வளர்ச்சி	**12**

ஐரோப்பியர் தமிழுக்கு ஆற்றிய தொண்டு	
அடிமை முறை ஒழிப்பு	
சமூக, சமய நிலை	
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
20 – ஆம் நூற்றாண்டில் தமிழகம்: சென்னை மாகாணம்	**12**
நீதிக்கட்சி, திராவிடக் கழகங்கள்	
சுயமரியாதை இயக்கம், தனித்தமிழ் இயக்கம்	
இந்தி மொழி எதிர்ப்பு	
விடுதலை இயகத்தின் தமிழகத்தின் பங்கு	
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
விடுதலைக்குப் பின் தமிழகம் - மொழிவாரி மாநில அமைப்பு இயக்கம்	**12**
தமிழக அரசியலில் இராசாசியும், காமராசரும்	
தமிழக மறுமலர்ச்சியில் பெரியார் ஈ.வே.ரா	
ஆட்சியில் திராவிடக் கழகங்கள்	
20 – ஆம் நூற்றாண்டில் தமிகத்தின் சமூக, பொருளாதார மாற்றங்கள்	
Total	**12**

Signature of the Dean
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தலைவர்,
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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UTAC42	**Staff Name: R.KARTHIK, P.MUTHEESWARI**

Course Name: இலக்கணம் - பொருள் - நம்பியகப் பொருள், புறப்பொருள் வெண்பாமாலை

Unit: I	
Topics to be covered	**No. of Hours**
அகத்திணை - வரையறை	**18**
ஐம்பொருள் கட்டமைப்பு	
ஐந்திணை விளக்கம்	
முப்பொருள் பாகுபாடு	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
களவியல் விளக்கம்	**18**
இயற்கைப் புணர்ச்சி வகைகள்	
கலவுக்கால பிரிவு	
கைக்கிளை	
Total	**18**

Unit: III

Topics to be covered	No. of Hours
வரைவியல்	18
அறத்தொடு நிற்றல்	
உடன்போக்கு	
அகப்பொருள் விளக்கம்	
Total	18

Unit: IV	
Topics to be covered	No. of Hours
புறத்திணை விளக்கம்	18
வெட்சித்திணை, கரந்தை	
வஞ்சித்திணை	
காஞ்சித்திணை	
Total	18

Unit: V	
Topics to be covered	No. of Hours
போர்முறை	18
நொச்சித்திணை	
உழிஞைத்திணை	
Total	18

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HajeeKaruthaRowtherHowdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHINGPLAN

For the Academic Year 2023-24 (ODD SEMESTER)

Department: TAMIL	Programme: M.A. TAMIL

Course Code:23PTACC11	Staff Name: M.SEETHA RAMAN, S.JASMINE SHIFANA

Course Name: இக்கால இலக்கியம்

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	பாரதியார்-கனவு(சுயசரிதை)	18
1.2.	பாரதிதாசன்-புரட்சிக் கவி	
	Total	18

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	ந.பிச்சமூர்த்தி (காதல்,பெட்டிக்கடை நாராயணன்) பிரமிள் (எல்லை,காவியம்,குமிழிகள்) ஞானகூத்தன் (கீழ்வெண்மணி,தோழர் மோசிகீரனார்)	18
2.2	நா.காமராசன் (காகித பூக்கள்,விலை மகளிர்) அப்துல் ரகுமான் (நேயர் விருப்பம்:மண்,ஆலாபனை:போட்டி மீரா(குக்கூ 1,3,14,15,16,18,24,26,34,41)	
2.3	இன்குலாப் (ஒவ்வொரு புல்லையும்.....) சரோடு தமிழன்பன் (மாற்றுமனிதம்:அம்மாவும் மல்லிகையும்,திசை கடக்கும் சிறகுகள்: கருணை மறவர் தந்தை பெரியார்) சிற்பி (கண்ணாடிச் சிறகுள்ள ஒரு பறவை:மின் துளிர்கள்-5,கற்றது கைமண் அளவு	
2.4	மு.மேத்தா (கண்ணீர் பூக்கள்: மரங்கள், வாழமரத்தின் சப்தம்) வைர முத்து (இந்த பூக்கள் விற்பனைக்கல்ல:ஐந்து பெரிது ஆறு சிறிது, மருத்துவ அறிக்கை) மனுஷ்ய புத்திரன்(இதற்கு முன்பும் இதற்குப் பிறகும்: எல்லாவற்றையும் சரி செய்யலாம்,ஊழியின் தினங்கள்-20) சுகிர்த ராணி (காமத்திப்பூ:வாழ்தல் நிமித்தம்,இரவுக்குறி)	
2.5	புவியரசு,த.பழமலய்,தேவதேவன்,அபி,கல்யாண்ஜி,கலாப்பரியா,அறிவுமதி,சேரன்,க்ருஷாங்கினி ,இளம்பிறை,பெருந்தேவி,சல்மா,கனிமொழி,மாலதி மைத்ரி,குட்டி ரேவதி,என்.டி.ராஜ்குமார்,இசை,ந.முத்துக்குமார்,கபிலன்,யுகபாரதி,யவனிகா ஸ்ரீராம்,பச்சியப்பன்,	

	போகன் சங்கர் உள்ளீட்டோரின் புதுக்கவிதைகளின் வாயிலாக பொது அறிமுகம் செய்தல்.	
	Total	**18**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	புதுமை பித்தன்- செல்லமாள் கு.ப.ராஜ கோபாலன்-கனகாம்பரம்	**18**
3.2	கு.அழகிரிசாமி-ராஜா வந்திருக்கிறார் கி.ராஜ நாராயணன்-கதவு	
3.3	ஜெயகாந்தன்-முன்நிலவும் பின் பனியும் சுந்தரராமசாமி-பிரசாதம்	
3.4	அசோகமித்ரன்-புலிக்கலைஞன் பிரபஞ்சன்-அப்பாவின் வேஷ்டி	
3.5	சோ.தர்மன்-சோக வனம் அம்பை-வீழ்தல்	
3.6	இமையம் - செல்லாத பணம்	
	Total	**18**

	Unit: IV	
	Topicsto becovered	**No.ofHours**
4.1	உ.வே.சாமிநாதையர் கடிதக் கருவூலம்(5-கடிதங்கள்)	18
4.2	நாடகம் -சந்திர ஹரி – பம்மல்சம்பந்தனார்	
	Total	**18**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	அண்ணாவின் சொற்பொழிவுகள்	18
5.2	அக்னிச் சிறகுகள் - ஏ.பி.ஜே அப்துல் கலாம்	
	Total	**18**

Signature of the Dean

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Signature of the HOD

தலைவர்,
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ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
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Signature oftheStaff

Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (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 உரையாசிரியர்கள்	**6**
Total	**6**

Unit: II	
Topics to be covered	**No. of Hours**
கவிதை இலக்கியம் மரபு, புது திரையிசைப்பாடல்கள்	**6**
Total	**6**

Unit: III	
Topics to be covered	**No. of Hours**
புனைகதை இலக்கியம் சிறுகதை	**6**

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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TEACHING PLAN

For the Academic Year 2023-24 (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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A. TAMIL**
Course Code: 20UTAC64	**Staff Name : P.LATHA, M.ESWARI**

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 , வளர்ச்சி,தணிக்கை,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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UTAC63	**Staff Name: R.KARTHIK**

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**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (BIO - CHEMISTRY)**
Course Code:20UTAL41	**Staff Name: G.GOWRISANKARI, M.SEETHA RAMAN**
Course Name: செவ்விலக்கியமும் உரைநடையும்	

Unit: I	
Topics to be covered	**No. of Hours**
நற்றிணை	18
குறுந்தொகை,அகநானூறு	
ஐங்குறுநூறு, புறநானூறு	
கலித்தொகை, முல்லைப்பாட்டு, பதிற்றுப்பத்து	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
திருக்குறள்	18
நாலடியார்	
மூதுரை, பழமொழி நானூறு, இனியவை நாற்பது	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
உரைநடை தோற்றம்	**18**
உரைநடைகள்	
Total	**18**

Unit: IV	
இலக்கிய வரலாறு	**No. of Hours**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
இலக்கணம்	**18**
அகத்திணை, புறத்திணை	
அகத்துறைகள், புறத்துறைகள்	
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 2023-24 (EVEN SEMESTER)

Department: TAMIL	Programme: B.A(ENGLISH)

Course Code:20UTAL41	Staff Name: M.ABDUL KATHER, P.SHANTHI

Course Name: செவ்விலக்கியமும் உரைநடையும்

Unit: I	
Topics to be covered	**No. of Hours**
நற்றிணை	18
குறுந்தொகை,அகநானூறு	
ஐங்குறுநூறு, புறநானூறு	
கலித்தொகை, முல்லைப்பாட்டு, பதிற்றுப்பத்து	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
திருக்குறள்	18
நாலடியார்	
மூதுரை, பழமொழி நானூறு, இனியவை நாற்பது	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
உரைநடை தோற்றம்	**18**
உரைநடைகள்	
Total	**18**

Unit: IV	
இலக்கிய வரலாறு	**No. of Hours**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
இலக்கணம்	**18**
அகத்திணை, புறத்திணை	
அகத்துறைகள், புறத்துறைகள்	
Total	**18**

Signature of the Dean

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Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (INFORMATION TECHNOLOTY) BA (ARABIC)**
Course Code:20UTAL41	**Staff Name: R.JANSI RANI, G.GOWRISANKARI**

Course Name: செவ்விலக்கியமும் உரைநடையும்

Unit: I	
Topics to be covered	**No. of Hours**
நற்றிணை	**18**
குறுந்தொகை,அகநானூறு	
ஐங்குறுநூறு, புறநானூறு	
கலித்தொகை, முல்லைப்பாட்டு, பதிற்றுப்பத்து	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
திருக்குறள்	**18**
நாலடியார்	
மூதுரை, பழமொழி நானூறு, இனியவை நாற்பது	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
உரைநடை தோற்றம்	**18**
உரைநடைகள்	
Total	**18**

Unit: IV	
இலக்கிய வரலாறு	**No. of Hours**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
இலக்கணம்	**18**
அகத்திணை, புறத்திணை	
அகத்துறைகள், புறத்துறைகள்	
Total	**18**

Signature of the Dean

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தலைவர்,
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ஹாஜி கருத்தா ரவுத்தர் 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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Com (COMMERCE)**

Course Code: 23UTALL21	**Staff Name: A.SUBAITHA HASINA, M.BILAL**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	18
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	18
Total	**18**

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(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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Com (BANKING)**

Course Code: 23UTALL21	**Staff Name: P.MUTHEESWARI, K.JIYAVUDEEN**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	18
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	18
Total	**18**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
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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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (PHYSICS)**

Course Code:20UTAL41	**Staff Name: P.MURUGAN, P.JEYASRI**

Course Name: செவ்விலக்கியமும் உரைநடையும்

Unit: I	
Topics to be covered	**No. of Hours**
நற்றிணை	**18**
குறுந்தொகை,அகநானூறு	
ஐங்குறுநூறு, புறநானூறு	
கலித்தொகை, முல்லைப்பாட்டு, பதிற்றுப்பத்து	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
திருக்குறள்	**18**
நாலடியார்	
முதுரை, பழமொழி நானூறு, இனியவை நாற்பது	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
உரைநடை தோற்றம்	**18**
உரைநடைகள்	
Total	**18**

Unit: IV	
இலக்கிய வரலாறு	**No. of Hours**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
இலக்கணம்	**18**
அகத்திணை, புறத்திணை	
அகத்துறைகள், புறத்துறைகள்	
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,
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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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (MATHS)**

Course Code:20UTAL41	**Staff Name: P.MURUGAN, M.BILAL**

Course Name: செவ்விலக்கியமும் உரைநடையும்

Unit: I	
Topics to be covered	**No. of Hours**
நற்றிணை	**18**
குறுந்தொகை,அகநானூறு	
ஐங்குறுநூறு, புறநானூறு	
கலித்தொகை, முல்லைப்பாட்டு, பதிற்றுப்பத்து	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
திருக்குறள்	**18**
நாலடியார்	
முதுரை, பழமொழி நானூறு, இனியவை நாற்பது	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
உரைநடை தோற்றம்	**18**
உரைநடைகள்	
Total	**18**

Unit: IV	
இலக்கிய வரலாறு	**No. of Hours**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
இலக்கணம்	**18**
அகத்திணை, புறத்திணை	
அகத்துறைகள், புறத்துறைகள்	
Total	**18**

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

Signature of the HOD

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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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (ZOOLOGY)**

Course Code:20UTAL41	**Staff Name: P.JEYASRI, P.SHANTHI**

Course Name: செவ்விலக்கியமும் உரைநடையும்

Unit: I	
Topics to be covered	**No. of Hours**
நற்றிணை குறுந்தொகை,அகநானூறு ஐங்குறுநூறு, புறநானூறு கலித்தொகை, முல்லைப்பாட்டு, பதிற்றுப்பத்து	**18**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
திருக்குறள் நாலடியார் முதுரை, பழமொழி நானூறு, இனியவை நாற்பது	**18**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
உரைநடை தோற்றம்	**18**
உரைநடைகள்	
Total	**18**

Unit: IV	
இலக்கிய வரலாறு	**No. of Hours**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
இலக்கணம்	**18**
அகத்திணை, புறத்திணை	
அகத்துறைகள், புறத்துறைகள்	
Total	**18**

Signature of the Dean

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ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி.
(தன்னாட்சி)
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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Com (CA)**

Course Code: 23UTALL21	**Staff Name: M.SEETHA RAMAN, P.SHANTHI**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	**18**
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

Signature of the Dean

Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
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(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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (INFORMATION TACHNOLOGY)**

Course Code: 23UTALL21	**Staff Name: A.SUBAITHA HASINA, G.GOWRISANKARI**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	**18**
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
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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Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (CHEMISTRY)**
Course Code:20UTAL41	**Staff Name: A.SUBAITHA HASINA, M.ESWARI**

Course Name: செவ்விலக்கியமும் உரைநடையும்

Unit: I	
Topics to be covered	**No. of Hours**
நற்றிணை	**18**
குறுந்தொகை,அகநானூறு	
ஐங்குறுநூறு, புறநானூறு	
கலித்தொகை, முல்லைப்பாட்டு, பதிற்றுப்பத்து	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
திருக்குறள்	**18**
நாலடியார்	
முதுரை, பழமொழி நானூறு, இனியவை நாற்பது	
Total	**18**

Unit: III	
Topics to be covered	No. of Hours
உரைநடை தோற்றம்	18
உரைநடைகள்	
Total	18

Unit: IV	
இலக்கிய வரலாறு	
	No. of Hours
Total	18

Unit: V	
Topics to be covered	No. of Hours
இலக்கணம்	18
அகத்திணை, புறத்திணை	
அகத்துறைகள், புறத்துறைகள்	
Total	18

Signature of the Dean

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A(Economics)**

Course Code:20UTAL41	**Staff Name: P.JEYASRI, A.SUBAITHA HASINA**

Course Name: செவ்விலக்கியமும் உரைநடையும்

Unit: I	
Topics to be covered	**No. of Hours**
நற்றிணை	18
குறுந்தொகை,அகநானூறு	
ஐங்குறுநூறு, புறநானூறு	
கலித்தொகை, முல்லைப்பாட்டு, பதிற்றுப்பத்து	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
திருக்குறள்	18
நாலடியார்	
மூதுரை, பழமொழி நானூறு, இனியவை நாற்பது	
Total	**18**

Unit: III	
Topics to be covered	No. of Hours
உரைநடை தோற்றம்	18
உரைநடைகள்	
Total	18

Unit: IV	
இலக்கிய வரலாறு	No. of Hours
Total	18

Unit: V	
Topics to be covered	No. of Hours
இலக்கணம்	18
அகத்திணை, புறத்திணை	
அகத்துறைகள், புறத்துறைகள்	
Total	18

Signature of the Dean

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Hajee Karutha Rowther Howdia College (Autonomous)

Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A(HISTORY)**

Course Code:20UTAL41	**Staff Name: R.MOHAMED RAFEEK, M.ESWARI**

Course Name: செவ்விலக்கியமும் உரைநடையும்

Unit: I	
Topics to be covered	**No. of Hours**
நற்றிணை	18
குறுந்தொகை,அகநானூறு	
ஐங்குறுநூறு, புறநானூறு	
கலித்தொகை, முல்லைப்பாட்டு, பதிற்றுப்பத்து	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
திருக்குறள்	18
நாலடியார்	
மூதுரை, பழமொழி நானூறு, இனியவை நாற்பது	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
உரைநடை தோற்றம்	**18**
உரைநடைகள்	
Total	**18**

Unit: IV	
இலக்கிய வரலாறு	**No. of Hours**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
இலக்கணம்	**18**
அகத்திணை, புறத்திணை	
அகத்துறைகள், புறத்துறைகள்	
Total	**18**

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தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
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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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (MICRO BIOLOGY)**
Course Code:20UTAL41	**Staff Name: S.JASMINE SHIFANA**
Course Name: செவ்விலக்கியமும் உரைநடையும்	

Unit: I	
Topics to be covered	**No. of Hours**
நற்றிணை குறுந்தொகை,அகநானூறு ஐங்குறுநூறு, புறநானூறு கலித்தொகை, முல்லைப்பாட்டு, பதிற்றுப்பத்து	**18**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
திருக்குறள் நாலடியார் மூதுரை, பழமொழி நானூறு, இனியவை நாற்பது	**18**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
உரைநடை தோற்றம்	**18**
உரைநடைகள்	
Total	**18**

Unit: IV	
இலக்கிய வரலாறு	**No. of Hours**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
இலக்கணம்	**18**
அகத்திணை, புறத்திணை	
அகத்துறைகள், புறத்துறைகள்	
Total	**18**

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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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 2023-24 (EVEN SEMESTER)

Department: TAMIL	Programme: B.Sc (COMPUTER SCIENCE)

Course Code:20UTAL41	Staff Name: M.BILAL, R.MOHAMED RAFEEK

Course Name: செவ்விலக்கியமும் உரைநடையும்

Unit: I	
Topics to be covered	**No. of Hours**
நற்றிணை	18
குறுந்தொகை,அகநானூறு	
ஐங்குறுநூறு, புறநானூறு	
கலித்தொகை, முல்லைப்பாட்டு, பதிற்றுப்பத்து	
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
திருக்குறள்	18
நாலடியார்	
மதுரை, பழமொழி நானூறு, இனியவை நாற்பது	
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
உரைநடை தோற்றம்	**18**
உரைநடைகள்	
Total	**18**

Unit: IV	
இலக்கிய வரலாறு	**No. of Hours**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
இலக்கணம்	**18**
அகத்திணை, புறத்திணை	
அகத்துறைகள், புறத்துறைகள்	
Total	**18**

Signature of the Dean

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தலைவர்,
தமிழ்த்துறை.
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி.
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Signature of the Staff

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (PHYSICS)**
Course Code: 23UTALL21	**Staff Name: M.ABDUL KATHER,M. BILAL**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	**18**
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
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தலைவர்,
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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (COMPUTER SCIENCE)**

Course Code: 23UTALL21	**Staff Name: M.BILAL, A.SUBAITHA HASINA**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	**18**
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

Signature of the Dean
Dr.G.RAMANAN,Ph.D.,
Dean of Humanities
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Uthamapalayam,Theni-Dt-625533

Signature of the HOD
தலைவர்,
தமிழ்த்துறை,
ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (MATHS)**

Course Code: 23UTALL21	**Staff Name: P.MURUGAN, M.ABDUL KATHER**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	18
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	18
Total	**18**

Signature of the Dean

Dr.G.RAMANAN,Ph.D.,
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தலைவர்,
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ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
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Hajee Karutha Rowther Howdia College (Autonomous)

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A (ENGLISH)**

Course Code: 23UTALL21	**Staff Name: R.MOHAMED RAFEEK, P.SHANTHI**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	**18**
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (CHEMISTRY)**

Course Code: 23UTALL21	**Staff Name: R.MOHAMED RAFEEK, M.ESWARI**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	**18**
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (ZOOLOGY)**
Course Code: 23UTALL21	**Staff Name: M.ESWARI, K.JIYAVUDEEN**
Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	
சரோடு தமிழன்பன்	
கடிதம், வாய்ச்சொற்கள்	
அந்நியர்கள், மு.வ. கடிதங்கள்	
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
மாநாட்டு உரைகள்	**18**
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	**18**
Total	**18**

Signature of the Dean
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தலைவர்,
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ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
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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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: BA (HISTORY)**

Course Code: 23UTALL21	**Staff Name: M.ESWARI, M.BILAL**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	18
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	18
Total	**18**

Signature of the Dean
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தலைவர்,
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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.Sc (MICRO BIOLOGY)**

Course Code: 23UTALL21	**Staff Name: G.GOWRISANKARI, P.LATHA**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	18
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	18
Total	**18**

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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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: BA (ECONOMICS)**

Course Code: 23UTALL21	**Staff Name: M.ABDUL KATHER, P.JEYA SRI**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	18
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
முரசொலி கடிதம்	
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
மொழிப்பயிற்சி	18
Total	**18**

Signature of the Dean

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: BBA**

Course Code: 23UTALL21	**Staff Name: R.JANSI RANI, A.SUBAITHA HASINA**

Course Name: பொதுத்தமிழ் - 2 (தமிழ் இலக்கிய வரலாறு – 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	**18**
நாடகம் - திரைத்தமிழ்	
இதழியல் தமிழ்	
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 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: B.A /B.Sc/ B.Com**

Course Code: 23UTASE22	**Staff Name: M.BILAL**

Course Name: சிறப்புத் தமிழ் - 2 (தமிழ் மொழி அமைப்பியல்)

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

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TEACHING PLAN

For the Academic Year 2023-24 (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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TEACHINGPLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**
Course Code: 23PTACC21	**Staff Name: M.SEETHA RAMAN, R.KARTHIK**
Course Name: பக்தி இலக்கியம்	

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	காரைக்கால் அம்மையார்	15
1.2	திருநாவுக்கரசர்	
1.3	திருஞானசம்பந்தர்	
	Total	**15**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	சுந்தரர்	15
2.2	மாணிக்கவாசகர்	
	Total	**15**

	Unit: III	
	Topicsto becovered	No.ofHours
3.1	பெரியாழ்வார்	15
3.2	நம்மாழ்வார்	
3.3	ஆண்டாள்	
3.4	குலசேகராழ்வார்	
3.5	பெருமாள் திருமொழி	
	Total	15

	Unit: IV	
	Topicsto becovered	No.of Hours
4.1	அருணகிரி நாதர்	15
4.2	தாயுமானவர்	
4.3	இராமலிங்க அடிகள்	
	Total	15

	Unit: V	
	Topicsto becovered	No.ofHours
5.1	குணங்குடி மஸ்தான் சாகிபு	15
5.2	வேதநாயக சாஸ்திரியார் பாடல்கள்	
5.3	வேதநாயகர்	
5.4	தாமதமையா	
	Total	15

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**

Course Code: 20PTMC41	**Staff Name: Dr.K.PALANIVELU, S.JASMINE SHIFANA**

Course Name: இலக்கியங்களில் வாழ்வியல் நெறிகளும், ஆளுமை வளர்ச்சி

	Unit: I	
	Topicsto becovered	**No.of Hours**
1.1	அறவியலின் விளக்கம் அறிதல்	18
1.2	சங்க இலக்கியங்களில் அறவியல் பண்புகளை அறிதல்	
1.3	நீதிநெறியில் அறம் சார்ந்த பண்புகளைத் தேர்ந்தெடுத்தல்	
1.4	நன்நெறியில் அறம் சார்ந்த பண்புகளைத் தேர்ந்தெடுத்தல்	
	Total	**18**

	Unit: II	
	Topicsto becovered	**No.of Hours**
2.1	வாழ்வியல் விழுமங்களை அறிய முற்படுதல்	18
2.2	திருக்குறளில் ஆளுமைப் பண்புகளை தெளிவுபடுத்துதல்	
2.3	நீதி இலக்கியங்களில் ஆளுமைப் பண்புகளை அறிதல்	
	Total	**18**

	Unit: III	
	Topicsto becovered	**No.of Hours**
3.1	பழந்தமிழ் இலக்கியங்களை ஆராய்ச்சி செய்தல்	18
3.2	எட்டுத்தொகையில் ஆளுமைப் பண்புகளைத் தொகுத்துக் காட்டுதல்	
3.3	பத்துப்பாட்டில் ஆளுமைப் பண்புகளைத் தொகுத்துக் காட்டுதல்	
	Total	**18**

	Unit: IV	
	Topicsto becovered	**No.of Hours**
4.1	சிலப்பதிகாரத்தில் ஆளுமைப் பண்புகளைக் கண்டறிதல்	18
4.2	மணிமேகலையில் ஆளுமைப் பண்புகளைக் கண்டறிதல்	
4.3	கம்பராமாயணத்தில் ஆளுமைப் பண்புகளைக் கண்டறிதல்	
4.4	பெரிய புராணத்தில் ஆளுமைப் பண்புகளைப் பட்டியலிடுதல்	
	Total	**18**

	Unit: V	
	Topicsto becovered	**No.of Hours**
5.1	பாரதியின் கவிதைகளில் ஆளுமை குறித்த செய்திகளைத் தொகுத்தெடுத்தல்	18
5.2	பாரதிதாசன் கவிதைகளில் ஆளுமை குறித்த செய்திகளைத் தொகுத்தெடுத்தல்	
5.3	வானம்பாடி கவிதைகளில் ஆளுமை குறித்த செய்திகளைத் தொகுத்தெடுத்தல்	
5.4	முற்போக்கு இயக்கக் கவிதைகளில் ஆளுமை குறித்த செய்திகளைத் தொகுத்தெடுத்தல	
	Total	**18**

Signature of the Dean

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TEACHINGPLAN
For the Academic Year 2023-24 (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	தொடர்பியல் விளக்கம்	6
1.2	மரபுவழிச் சாதனங்கள்	
1.3	அச்சு, மின்னணு சாதனங்கள்	
	Total	**6**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	ஊடகத் தொடர்பியல் கோட்பாடுகள்	6
2.2	பத்திரிக்கைகளின் பங்கு, கல்வி, வேளாண்மை, இலக்கியம், நலம், குடும்பக் கட்டுப்பாடு	
	Total	**6**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	பொதுமக்கள் கருத்து, கருத்தாக்கத் தலைவர்கள்	**6**
3.2	தகவல் தொடர்பியல் மாதிரிகள்	
3.3	படி நிலைப் பரவல் கொள்கை	
3.4	லாஸ்வெல் மாதிரி, வீவர் மாதிரி, வெஸ்ட்லி மெக்லீன் மாதிரி	
3.5	வெள்ளித் தோட்டக் கோட்பாடு	
	Total	**6**

	Unit: IV	
	Topicsto becovered	**No.of Hours**
4.1	வானொலி வரலாறு	6
4.2	வானொலி ஒலிபரப்பு	
4.3	பேச்சுரைகள்	
	Total	**6**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	தொலைக்காட்சி வரலாறு	6
5.2	செயற்கைக்கோள் வழி ஒலிபரப்பு	
5.3	திரைப்பட வகைகள்	
5.4	செய்திப் படங்கள்	
	Total	**6**

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தமிழ்த்துறை.
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உத்தமபாளையம் - 625 533.

Signature of theStaff

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TEACHINGPLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**
Course Code: 23PTAGE21	**Staff Name: K.PALANIVELU**
Course Name: தொல்லியல்	

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	தொல் பொருளியல்	12
1.2	தொல்லியல் வகைகள்	
1.3	தலையாய கடமைகள், தொல் பொருளியலின் பயன்பாடுகள்	
	Total	**12**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	தொல் பொருளியலின் வரலாறு	12
2.2	கோட்பாடுகள்	
	Total	**12**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	இந்தியாவில் தொல்லியல் வளர்ச்சி	**12**
3.2	இட ஆராய்ச்சி முறைகள்	
3.3	அகழாய்வுக் கொள்கைகள், வகைகள்	
3.4	அகழாய்வுக் களத்திற்குத் தேவையான கருவிகளும் பொருட்களும்	
3.5	அகழாய்வு வல்லுநர்கள், பணியாளர்கள்	
	Total	**12**

	Unit: IV	
	Topicsto becovered	**No.of Hours**
4.1	மட்பாண்டங்கள் பற்றிய ஆய்வு	12
4.2	கற்கால ஆய்வு	
4.3	பழம்பொருட்களைப் பாதுகாத்தல், வரலாற்றுக்கு முற்பட்ட காலம்	
	Total	**12**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	கல்வெட்டியல்	12
5.2	உருவ அமைதி	
5.3	இந்தியச் சிற்பக்கலை, கோயிற்கலை	
5.4	அருங்காட்சியகவியல், நாணயவியல்	
	Total	**12**

Signature of the Dean

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தலைவர்,
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TEACHINGPLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**
Course Code: 23PTADE21	**Staff Name: G.GOWRISANKARI, R.JANSI RANI**
Course Name: உலக இலக்கியம்	

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	உலக காப்பியம் அறிமுகம்	12
1.2	கிரேக்க, இலத்தீன் காப்பியங்கள்	
1.3	அரிஸ்டாட்டில் கவிதையியல்	
	Total	**12**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	உலக நாடகம் அறிமுகம்	12
2.2	நவீன நாடகப் போக்குகள்	
	Total	**12**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	உலக கவிதைகள் அறிமுகம்	**12**
3.2	சமகால உலகக் கவிதை	
3.3	பாப்லோ நெருடாவின் கவிதை	
3.4	பாஷோவின் ஜென் கவிதைகள்	
3.5	குறியீட்டியம், சர்ரியலிசக் கவிதை	
	Total	**12**

	Unit: IV	
	Topicsto becovered	**No.of Hours**
4.1	உலகச் சிறுகதைகளின் தோற்றம்	12
4.2	அமெரிக்க, ஆங்கில, ரஷ்ய மொழிச்சிறுகதை ஆசிரியர்கள்	
4.3	செகாவ், மாண்டோ சிறுகதை	
	Total	**12**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	உலக நாவல் தோற்றம்	12
5.2	உலகப் புகழ்பெற்ற நாவலாசிரியர்கள்	
5.3	ஹெம்மிங்வே, தஸ்தாவெஸ்கி	
5.4	ஆல்பர்ட் காமு	
	Total	**12**

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TEACHINGPLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**
Course Code: 20PTME41	**Staff Name: M.SEETHA RAMAN, Dr.P.SHANTHI**
Course Name: இலக்கியமும் இளயோர் உளவியலும்	

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	உளவியல் பற்றிய விளக்கம்	18
1.2	உளவியல் பருவப் பிரிவுகள்	
1.3	குழந்தை பருவ வளர்நிலை உளவியல் விளக்கம்	
1.4	இளமை பருவ வளர்நிலை உளவியல் விளக்கம்	
1.5	முதுமை பருவ வளர்நிலை உளவியல் விளக்கம்	
	Total	**18**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	இளையோர் பருவத்தின் முக்கியத்துவம்	18
2.2	இளையோர் பற்றிய ஆய்வு முறைகள்	
2.3	இளையோர் பருவத்திற்கான மாற்றங்கள்	
2.4	இளையோர் பற்றிய எழுத்து படைப்பு முறைகள்	
2.5	இளையோர்களின் பருவத்திற்கான மாற்றங்கள் குறித்து உளவியலாளர்கள் கருத்துக்கள்	
	Total	**18**

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	மனவெழுச்சியின் முக்கியதுவம் மற்றும் உணர்வு மாற்றங்கள்	**18**
3.2	இளையோரின் சமூக வளர்ச்சியின் தொடர்புகள்	
3.3	தலைமைப்படுத்தும் பண்பு, அழகு தோற்றம், சினம் எதையும் விரைந்தெடுக்கும் முடிவு	
3.4	இளையோர் பருவத்திற்கு முதன்மை கொடுக்க வேண்டும் என்ற எதிர்பார்ப்பு	
3.5	இளையோர் உள்ளத்து உணர்ச்சி மாற்றங்கள் குறித்து உளவியலார் கருத்துக்கள்	
	Total	**18**

	Unit: IV	
	Topicsto becovered	**No.of Hours**
4.1	கல்வி நிலைப் பொருத்தப்பாடுகள்	18
4.2	உளவியல் அறிவு, இளையோனும் அவனுடைய ஒப்பார்களும்	
4.3	பள்ளிப் பிரச்சனைகள், தனியாள் வரலாறுகள்	
	Total	**18**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	இளையோர் பருவ நலன் குறித்த நாவல்கள்	18
5.2	ஆவன் தகப்பன் சாமி (சிவசங்கரி)	
5.3	பலாமரம் - (பாலகுமாரன்)	
5.4	அம்மாவந்தாள் (தி. ஜனாகிராமன்)	
5.5	இளையோர் உளப்பிரச்சனைகளை தீர்வுகளை எடுத்துக்காட்டல்	
	Total	**18**

Signature of the Dean

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**
Course Code: 20PTMC43	**Staff Name: K.JIYAVUDEEN, R.JANSI RANI**
Course Name: இலக்கணம் தொல் -பொருள் - 2 யாப்பும் அணியும்	

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	தொல்காப்பியத்தின் யாப்பினை அறிதல்	18
1.2	எழுத்து, அசை பற்றி அறிந்து கொள்ளுதல்	
1.3	சீர், தளை வகைகளைப் பற்றி அறிந்து கொள்ளுதல்	
1.4	அடி, தொடை வகைகளை அறிதல்	
1.5	வண்ணம், ஓசை பற்றி அறிய முற்படுதல்	
	Total	**18**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	தொல்காப்பியர்கூறும் பாவகைகளை அறிதல்	18
2.2	வெண்பா, ஆசிரியப்பாவின் விளக்கம் தந்து அதன் வகைகளை அறிதல்	
2.3	கலிப்பா, வஞ்சிப்பாவின் விளக்கம் தந்து அதன் வகைகளை அறிதல்	
2.4	புதிய யாப்பு வகைகளை அறிதல்	
	Total	**18**

	Unit: III	
	Topicsto becovered	**No.of Hours**
3.1	தொல்காப்பியர் கூறும் உவமை இலக்கணம் பற்றி அறிதல்	**18**
3.2	தண்டியலங்காரம் நூலின் அமைப்பை ஆராய்தல்	
3.3	அணி இலக்கணம் பற்றி அறிதல்	
3.4	அணியின்வகைகளை விளக்குதல்	
	Total	**18**

	Unit: IV	
	Topicsto becovered	**No.ofHours**
4.1	தொல்காப்பியர் குறிப்பிடும் மெய்ப்பாட்டியலை விளக்குதல்	18
4.2	எண்வகை மெய்ப்பாடுகளை வகைப்படுத்துதல்	
4.3	இலக்கியங்களில் மெய்ப்பாடுகளை ஒப்பிட்டுக் காணுதல்	
	Total	**18**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	தொல்காப்பியர் குறிப்பிடும் மரபியலை விளக்குதல்	18
5.2	மரபு சார்ந்த உயிரினங்களை வகைப்படுத்துதல்	
5.3	உயிரினங்களின் இளமைத் தன்மைகளை பெயர் கொண்டு அறிதல்	
5.4	உயிரினங்களின் முதுமைத் தன்மைகளை பெயர் கொண்டு அறிதல்	
	Total	**18**

Signature of the Dean

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**
Course Code: 20PTMC42	**Staff Name: G.GOWRISANKARI, P.MUTHEESWARI**
Course Name: பெண்ணியத் திறனாய்வு	

	Unit: I	
	Topicsto becovered	**No.of Hours**
1.1	பெண்ணியத் தினாய்வுக் கோட்பாடுகளை தெளிவுறுத்தல்	18
1.2	பெண் மையத் திறனாய்வுக்குறித்து அறிதல்	
1.3	பெண் நிலை வாதம் குறித்து அறிந்து கொள்ளல்	
1.4	பெண் விளிம்பு நிலைகுறித்து அறிந்து ஆய்பு மேற்கொள்ளல்	
1.5	பெண் மொழி குறித்தி தெளிவுப்படுத்துதல்	
1.6	மேலை இலக்கியத்திறனாய்வுக் குறித்து அறிதல்	
	Total	**18**

	Unit: II	
	Topicsto becovered	**No.of Hous**
2.1	கற்பின் நிலைக்குறித்து தெளிவுப்படுத்தல்	18
2.2	கற்பின் சொற்பொருள் விளக்கம் அறிதல்	
2.3	சங்க கால கற்புநிலையை அறிதல்	
2.4	இடைக்கால கற்பின் நிலை அறிதல்	
2.5	இக்கால கற்புநிலை குறித்து விளக்குதல்	
2.6	கற்பு பற்றிய கருத்தியல்களை தெளிவுறுத்தல்	
	Total	**18**

	Unit: III	
	Topicsto becovered	**No.of Hours**
3.1	பெண்களுக்கெதிரான வன்முறைகள் குறித்து தெளிவுப்படுத்துதல்	18
3.2	வன்முறைக்கான அடிப்படைக் காரணங்களை விளக்குதல்	
3.3	குடும்பத்தில் பெண்களின் நிலை குறித்து அறிதல்	
3.4	அலுவலகத்தில் பெண்களின் நிலைக்குறித்து தெளிவுறுத்தல்	
3.5	பொது பெண்களின மீட்பியற் சிந்தனைகள் குறித்து அறிதல்	
3.6	மீட்சிக் கருத்தாக்கம் குறித்து தெளிவுப்படுத்தல்	
	Total	**18**

	Unit: IV	
	Topicsto becovered	**No.of Hours**
4.1	நவீன கவிதைகளில் பெண்ணியக் குரலை அறிதல்	18
4.2	பாரதியின் - பெண் விடுதலை, புதுமைப்பெண் குறித்து அறிதல்	
4.3	பாரதிதாசனின் - பெண் குழந்தைத் தாலாட்டு கைம்மை நீக்கம் பற்றி தெளிவுறுத்தல்	
4.4	பெண் கவிஞர்களின் கவிதை குறித்து அறிதல்	
4.5	'நாங்கள் வேலைக்கு போகும் தேவகிகள்' – கவிதை குறித்து அறிதல்	
4.6	உமா மகே'வரியின் - புத்தல் குறித்து அறிதல்	
	Total	**18**

	Unit: V	
	Topicsto becovered	**No.of Hours**
5.1	புனைகதை, கட்டுரை, நாடகங்களில் பெண்களும் திருநங்ககைகள் குறித்து அறிதல்	18
5.2	அம்மை – கருப்புக் குதிரை, சதுக்கம் குறித்து தெளிவுறுத்தல்	
5.3	காஞ்சனா தாமோதரனின் வீடு (சிறுகதை) குறித்து அறிதல்	
5.4	பெரியாரின் - பெண் ஏன் அடிமையாளர் கட்டுரை குறித்து விளக்குதல்	
5.5	பெண்களின் ஆளுமை குறித்து அறிதல்	
5.6	சுய சிந்தனை வெளிப்பாடும் தன்னை முன்னிறுத்தலும் குறித்து தெளிவுப்படுத்தல்	
	Total	**18**

Signature of the Dean
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Signature of the HOD
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ஹாஜி கருத்தராவுத்தர் ஹவுதியா கல்லூரி,
(தன்னாட்சி)
உத்தமபாளையம் - 625 533.

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TEACHINGPLAN
For the Academic Year 2023-24 (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	15
	Total	**15**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	உவமையியல்	15

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	செய்யுளியல்	15
	Total	**15**
	Total	**15**

	Unit: IV	
	Topicsto becovered	**No.of Hours**
4.1	செய்யுளியல் - 2	15
	Total	**15**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	மரபியல்	15
	Total	**15**

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TEACHINGPLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: TAMIL	**Programme: M.A. TAMIL**
Course Code: 23PTACC22	**Staff Name: P.SHANTHI, A.SUBAITHA HASINA**
Course Name: காப்பிய இலக்கியம்	

	Unit: I	
	Topicsto becovered	**No.ofHours**
1.1	சிலப்பதிகாரம்	15
	Total	**15**

	Unit: II	
	Topicsto becovered	**No.ofHours**
2.1	மணிமேகலை	
2.2	சீவக சிந்தாமணி	15

	Unit: III	
	Topicsto becovered	**No.ofHours**
3.1	கம்பராமாயணம்	
3.2	பெரிய புராணம்	15
	Total	**15**
	Total	**15**

	Unit: IV	
	Topicsto becovered	**No.of Hours**
4.1	இரட்சணிய யாத்திரீகம்	15
	Total	**15**

	Unit: V	
	Topicsto becovered	**No.ofHours**
5.1	சீறாப்புராணம்	15
	Total	**15**

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TEACHINGPLAN

For the Academic Year 2023-24 (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 إلي صحيح الأخر وتمرينات عليه	**5Hours**
المبني والمعروف و تمرينات عليهما	**5Hours**
انواع البناء – انواع الإعراب	**5Hours**
Total	**15Hours**

Unit: II	
Topics to be covered	**No .of . Hours**
احوال بناء الفعل الماضي	**5Hours**
احوال بناء الأمر	**5Hours**
احوال بناء المضارع – الإعراب المحلى	**5Hours**
Total	**15Hours**

Unit: III	
Topics to be covered	No .of. Hours
الفعل المضارع المعتل الأخر واحوال إعراب	5Hours
الاسم المعتل الأخر	5Hours
نصب المضارع بعد ال المضميرة	5Hours
Total	15Hours

Unit: IV	
Topics to be covered	No .of. Hours
بعد او المضميرة وتمرينات عليه	5Hours
بعد حد المضميرة وتمرينات عليه	5Hours
جوازم الفعل المضارع	5Hours
Total	15Hours

Unit: V	
Topics to be covered	No .of. Hours
الأفعال الخمسة و الإعراب	5Hours
تكسيم الجمع	5Hours
إعراب جمع المذكر السالم – إعراب جمع المؤنث السالم	5Hours
Total	15Hours

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TEACHINGPLAN

For the Academic Year 2023-24 (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**
Lesson 21	**5Hours**
Lesson 22,23	**5Hours**
Lesson 24	**5Hours**
Total	**15Hours**

Unit: II	
Topics to be covered	**No .of Hours**
Lesson 25	**5Hours**
Lesson 26	**5Hours**
Lesson 27,28	**5Hours**
Total	**15Hours**

Unit: III	
Topics to be covered	No .of Hours
Lesson 29,30	5Hours
Lesson 31	5Hours
Lesson 32	5Hours
Total	15Hours

Unit: IV	
Topics to be covered	No .of Hours
Lesson 33	5Hours
Lesson 34,35	5Hours
Lesson 36	5Hours
Total	15Hours

Unit: V	
Topics to be covered	No .of Hours
Lesson 37,38	5Hours
Lesson 39	5Hours
Lesson 40	5Hours
Total	15Hours

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ARABIC	**Programme: B.A.ARABIC**
Course Code: 23UARDE21	**Staff Name: Dr.R.Minnal Vizhi**
Course Name: History of Prophets II	

Unit: I	
Topics to be covered	**No .of Hours**
القصة الاولي سفينة نوح – حسد الشيطان	3 Hours
حيلة الشيطان - صور الصالحين	2 Hours
من الصور الي التماثيل - من التماثيل الي الاصنام	5 Hours
عضب الله– الرسول	5 Hours
Total	15 Hours

Unit: II	
Topics to be covered	**No .of Hours**
بشر ام ملك - نوح الرسول - ماذا اجاب القوم	5 Hours
بين نوح و قومه - اتبعك الارذلون	5 Hours
حجة الاغنياء - دعوة نوح	3 Hours
دعاء نوح - السفينة	2 Hours
Total	15 Hours

Unit: III	
Topics to be covered	No .of . Hours
الطوفان - ابن نوح - ليس من اهلك - بعد الطوفان	2 Hours
القصة الثانية العاصفة - بعد نوح - الي الغابة	5 Hours
كفران عاد - عدوان عاد	3 Hours
قصور عاد - هود الرسول	5 Hours
Total	15 Hours

Unit: IV	
Topics to be covered	No .of Hours
دعوة هود - جواب القوم - حكمة هود	5 Hours
ايمان هود - عناد عاد – العذاب	2 Hours
القصة الثالثة ناقة الثمود - بعد عاد- كفران عاد	5 Hours
عبادة الاصنام - صالح عليه الصلوة و السلام	3 Hours
Total	15 Hours

Unit: V	
Topics to be covered	No .of Hours
دعوة صالح – دعاية الاغنياء - قد أخطأ طننا	4 Hours
بين يعقوب و ابنائه - نصيحة صالح	3 Hours
ما اسألكم عليه من اجر - ناقة الله	4 Hours
النوبة - طفيان ثمود - العذاب	4Hours
Total	15 Hours

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ARABIC	**Programme : NME** **I B.Com(Commerce), I B.Com(C.A),I BA .Tamil, I BSc.Chemistry, I BSc,Zoology, I BSc(CS), I BSc Microbiology**
Course Code: 23URSE21	**Staff Name: K.Bushra**
Course Name: Foundation Crouse in Arabic II	

Unit: I	
Topics to be covered	**No .of Hours**
Lesson No.1	**3Hours**
Lesson No.2	**3Hours**
Total	**6Hours**

Unit: II	
Topics to be covered	**No .of Hours**
Lesson No.3	**3Hours**
Lesson No.4	**3Hours**
Total	**6Hours**

Unit: III	
Topics to be covered	**No .of Hours**
Book .2 Lesson No.5	**3Hours**
Book .2 Lesson No.6	**3Hours**
Total	**6Hours**

Unit: IV	
Topics to be covered	**No .of Hours**
Book .2 Lesson No.7	**3Hours**
Book .2 Lesson No.8	**3Hours**
Total	**6Hours**

Unit: V	
Topics to be covered	**No .of Hours**
Lesson No.9	**3Hours**
Lesson No.10	**3Hours**
Total	**6Hours**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 23UARSE22	**Staff Name: Mr. A. Ahamed Faize**

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 2023-24 (EVEN SEMESTER)

Department: Arabic	Programme: B.A.Arabic

Course Code: 20UARC41	Staff Name:M.Rabiyathul Basariya

Course Name: Modern Prose

Unit: I	
Topics to be covered	**No.ofHours**
جوامع الكلم	6 Hours
خطبة معجزة	6 Hours
في بني سعد	6 Hours
Total	**18 Hours**

Unit: II	
Topics to be covered	**No.ofHours**
كيف هاجر النبي صلي الله عليه و سلم	9 Hours
ابتلاء كعب بن مالك رضي الله عنه	9 Hours
Total	**18 Hours**

Unit: III	
Topics to be covered	**No.ofHours**
مقتل عمر بن الخطاب رضي الله عنه	6 Hours
اخلاق المؤمن	6 Hours
اخوان الصفاء	6 Hours
Total	**18 Hours**

Unit: IV	
Topics to be covered	No.ofHours
وصف الزاهد	6 Hours
بين السيدة زبيدة المأمون	6 Hours
بين قاض وقور و ذباب جسور	6Hours
Total	18 Hours

Unit: V	
Topics to be covered	No.ofHours
القميص الاحمر	6 Hours
كيف كان معاوية رضي الله عنه يقضي يومه	6 Hours
استقامة الامام احمد بن حنبل و كرمه	6 Hours
Total	18 Hours

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

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

Course Code: 20UARC42	**Staff Name: Mr. A. Ahamed Faize**

Course Name: Advanced Grammar - II

Unit: I	
Topics to be covered	**No. of Hours**
Madina Arabic Reader Book 7 Lesson 1	6
Madina Arabic Reader Book 7 Lesson 2	6
Madina Arabic Reader Book 7 Lesson 3	6
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Madina Arabic Reader Book 7 Lesson 4	6
Madina Arabic Reader Book 7 Lesson 5	6
Madina Arabic Reader Book 7 Lesson 6	6
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Madina Arabic Reader Book 8 Lesson 1	9
Madina Arabic Reader Book 8 Lesson 2	9
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Madina Arabic Reader Book 8 Lesson 3	9
Madina Arabic Reader Book 8 Lesson 4	9
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Madina Arabic Reader Book 8 Lesson 5	6
Madina Arabic Reader Book 8 Lesson 6	6
Madina Arabic Reader Book 8 Lesson 7	6
Total	**18**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Arabic	**Programme: B.A. Arabic**

Course Code: 20UARS41	**Staff Name: M. Rabiyathul Basariya**

Course Name: Arabic For Communication –II

Unit: I	
Topics to be covered	**No. of Hours**
Correspondence: Letter to a Publisher – Letter to a Book Shop	**2Hours**
Letter to Bank to open an SB account	**2Hours**
Two Letters to Municipality – A Friendly Letter	**2Hours**
Total	**6Hours**

Unit: II	
Topics to be covered	**No. of Hours**
Job Applications: Job Applications – Bio data / C.V	**2Hours**
Application for the post of Translator Reply to a Selected Candidate	**2Hours**
Application for annual leave - A Personal Appeal	**2Hours**
Total	**6Hours**

Unit: III	
Topics to be covered	**No. of Hours**
Advertisements & Notifications: Falcon Hotel Offer – Advt. of a bank	**2Hours**
Advt. of an hotel	**2Hours**
Wanted Distributors – Wanted Manpower	**2Hours**
Total	**6Hours**

Unit: IV	
Topics to be covered	**No. of Hours**
Tenders & Quotations: A Tender Notice – Public Action – Public Tender	**2Hours**
To Let Wanted: Office Accommodation	**2Hours**
Employment abroad: Demand Letter – Authorization Letter to Consulate - Qatar Visa Saudi Visa – Kuwait Visa	**2Hours**
Total	**6Hours**

Unit: V	
Topics to be covered	**No. of Hours**
Certificates & Documents: Calicut University Certificate – A Training Course Certificate	**2Hours**
A Wedding Invitation – Arab Style	**2Hours**
Driving License Indian – Laundry voucher	**2Hours**
Total	**6Hours**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN 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 الإخلاص و احضار النية	**5 Hours**
باب التوبة – باب الصبر	**5 Hours**
باب الصدق – باب المرقبة	**5Hours**
Total	**15 Hours**

Unit: II	
Topics to be covered	**No .of Hours**
باب في التقوي – باب في اليقين و التوكل	**5 Hours**
باب في الإستقامة – باب في الفكر	**5 Hours**
باب في المبادرة الي الخيرات	**5 Hours**
Total	**15 Hours**

Unit: III	
Topics to be covered	**No .of Hours**
باب في المجاهدة – باب الحث علي الازدياد من الخير في او أخر العمر	**5 Hours**
باب في بيان كثيرة طارق الخير – باب في الاقتصاد في العبادة	**5 Hours**
باب في المحافظة علي الاعمال -	**5 Hours**
Total	**15 Hours**

Unit: IV	
Topics to be covered	**No .of Hours**
باب في الأمر بالحافظة علي السند و ادابها – باب في وجوب الأنقياد لحكم الله وما يقوله	5 Hours
باب في النهي عن البدع و محدثات الامور – باب في من سن حسنة او سينة	5 Hours
باب في الدلالة علي خير و الدعاء الي هدي او ضلالة	5 Hours
Total	15 Hours

Unit: V	
Topics to be covered	**No .of Hours**
باب في التعون غلي ابر و التقوي – باب في النصيحة	5 Hours
باب في الامر بامعروف و النهي عن المذكر – باب تغليظ عقوبة من امر بمعروف او نهين مذكر وخلف قوله	5 Hours
باب الامر باداب الامان	5 Hours
Total	15 Hours

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Arabic	**Programme : B.A. Arabic**
Course Code: 20UARC62	**Staff Name: A. Rahumath Nisha**
Course Name: Modern Poetry	

Unit: I	
Topics to be covered	**No. of Hours**
الامة العربية	**4 Hours**
الطفل و الطئر السجين	**4 Hours**
دفاع عن الحرية	**4 Hours**
Total	**12 Hours**

Unit: II	
Topics to be covered	**No.of Hours**
سرنديب	**4 Hours**
لبنان و مصر يتصافحان	**4 Hours**
سوريا و مصر	**4 Hours**
Total	**12 Hours**

Unit: III	
Topics to be covered	**No.of Hours**
المال و العلم والأخلاق	**4 Hours**
تربية النساء	**4 Hours**
وصف الطائرة	**4 Hours**
Total	**12 Hours**

Unit: IV	
Topics to be covered	No.of Hours
عمر المختار	4 Hours
عرس المجد	4 Hours
الفاخر بالماضي	4 Hours
Total	12 Hours

Unit: V	
Topics to be covered	No.of Hours
كلنا في الوطن	4 Hours
أخي	4 Hours
تحية الثورة	4 Hours
Total	12 Hours

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Arabic	**Programme: B.A. Arabic**
Course Code: 20UARC63	**Staff Name: M.Rabiyathul Basariya**
Course Name: Women Scholars in Arabic Literature	

Unit: I	
Topics to be covered	**No. of Hours**
The legal conditions for narrating Hadith	**6 Hours**
Women as teachers and transmitters of Hadith	**6 Hours**
Total	**12 Hours**

Unit: II	
Topics to be covered	**No. of Hours**
Occasions,travels,venues for and kinds of Hadith learning	**6 Hours**
The women teachers	**6 Hours**
Total	**12 Hours**

Unit: III	
Topics to be covered	**No. of Hours**
The reading matter	**6 Hours**
Women's role in diffusions knowledge	**6 Hours**
Total	**12 Hours**

Unit: IV	
Topics to be covered	**No. of Hours**
Women's Hadith and narrations	**6 Hours**
Women and Hadith critiuqe	**6 Hours**
Total	**12 Hours**

Unit: V	
Topics to be covered	**No. of Hours**
Overview by period and region	**6 Hours**
Fiqh and Amal	**6 Hours**
Total	**12 Hours**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Arabic	**Programme: B.A. Arabic**
Course Code: 20UARC64	**Staff Name: A.Rahumath Nisha**
Course Name: Life History Of Prophet Mohammed	

Unit: I	
Topics to be covered	**No. of Hours**
Before Deputation, Makkah and the Quraysh	**6Hours**
Quraysh of Makkah	**6Hours**
The first pledge of Aqabah	**3Hours**
Total	**15Hours**

Unit: II	
Topics to be covered	**No. of Hours**
The second pledge of Aqabah	**5Hours**
Brotherhood between the Muhajireen and the Ansaar Document between the Muhajireen and the Ansaar.	**5Hours**
Preparation for battle	**5Hours**
Total	**15Hours**

Unit: III	
Topics to be covered	**No. of Hours**
Life of Prophet Muhammed (sal) at Madinah	**7Hours**
Battle of Badr	**8Hours**
Total	**15Hours**

Unit: IV	
Topics to be covered	**No. of Hours**
The Battle of Uhud	**8Hours**
Ignorant tribalism and revenge In the plains of Uhud	**7Hours**
Total	**15Hours**

Unit: V	
Topics to be covered	**No. of Hours**
Treaty of Hudaybiyyah: the dream of Rasulullaah and preparations of the Muslims to enter Makkah To Makkah after a long time The pledge of Ridwaan	**5Hours**
Victory over Makkah	**5Hours**
Farewell Pilgirimage	**5Hours**
Total	**15Hours**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Arabic	**Programme: B.A. Arabic**
Course Code: 20UARC65	**Staff Name: Dr. R.Minnal Vizhi**
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	**3Hours**
Arabic Language during the British rule	**3Hours**
Arabic Language in independent India	**3Hours**
Role of Madhrasas in the promotion of Arabic language	**3Hours**
Total	**12Hours**

Unit: II	
Topics to be covered	**No. of Hours**
Future of in India	**6Hours**
Life and works of Sayyid Abul Hasan Ali Annadwi	**6Hours**
Total	**12Hours**

Unit: III	
Topics to be covered	**No. of Hours**
Life and works of Anwar Shah Kashmiri	**6Hours**
Life and works of Sheik Abdul Haq - Muhaddith Dehlavi.	**6Hours**
Total	**12Hours**

Unit: IV	
Topics to be covered	**No. of Hours**
Life and works of Sha Waliullah	**6Hours**
Life and works of Ashraf Ali Thanawi.	**6Hours**
Total	**12Hours**

Unit: V	
Topics to be covered	**No. of Hours**
Arabic literature in Tamilnadu.	**3Hours**
Life and works of Shuyab Alim Dr.Tayka Sahib	**3Hours**
Life and works of Umar Al Qahiri (Sheik Sadaqathullah Appa)	**3Hours**
Life and works of S.S. Muhammad Abdul Khader Baqavi	**3Hours**
Total	**12Hours**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Arabic	**Programme: B.A. Arabic**
Course Code: 20UARE62	**Staff Name: A.Rahumath Nisha**
Course Name: Spoken Arabic	

Unit: I	
Topics to be covered	**No. of Hours**
Common Words and phrases in Spoken Arabic-I	**12Hours**
Total	**12Hours**

Unit: II	
Topics to be covered	**No. of Hours**
Common Words and phrases in Spoken Arabic-II	**12Hours**
Total	**12Hours**

Unit: III	
Topics to be covered	**No. of Hours**
Common Words and phrases in Spoken Arabic-III	**12Hours**
Total	**12Hours**

Unit: IV	
Topics to be covered	**No. of Hours**
Common Words and phrases in Spoken Arabic-IV	**12Hours**
Total	**12Hours**

Unit: V	
Topics to be covered	**No. of Hours**
Common Words and phrases in Spoken Arabic-V	**12Hours**
Total	**12Hours**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Arabic	**Programme: B.A. Arabic**
Course Code: 20UARS61	**Staff Name: K.Bushra**
Course Name: Translation Skills –II	

Unit: I	
Topics to be covered	**No. of Hours**
Cultural Problems	**3Hours**
Domestication and Foreignization	**3Hours**
Total	**6Hours**

Unit: II	
Topics to be covered	**No. of Hours**
Drama	**3Hours**
Poetry	**3Hours**
Total	**6Hours**

Unit: III	
Topics to be covered	**No. of Hours**
Economics Texts - Neologism	**3Hours**
Metaphors in economic discourse	**3Hours**
Total	**6Hours**

Unit: IV	
Topics to be covered	**No. of Hours**
Terminology: Marketing	**3Hours**
Terminology: Investment	**3Hours**
Total	**6Hours**

Unit: V	
Topics to be covered	**No. of Hours**
Terminology: Banking	**3Hours**
Terminology: Accounting and Audit	**3Hours**
Total	**6Hours**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ARABIC	**Programme :(Part-I Arabic Language) I B.com (Commerce) , I B.Sc Zoology, I B.Sc Physics, I B.Sc Chemistry**
Course Code: 23UARLL21	**Staff Name: K. Bushra**
Course Name: Prose II	

Unit: I

Topics to be covered	No .of Hours
أجزاء الجملة	6 Hours
أسماء الإشارة	6 Hours
الضمائر	6 Hours
الواحد والمثني والجمع	6 Hours
Total	18 Hours

Unit: II

Topics to be covered	No .of. Hours
الجملة المفيد	6 Hours
المبتدأ والخبر	6 Hours
الجملة الفعلية	6 Hours
الجملة الإسمية	6 Hours
Total	18 Hours

Unit: III	
Topics to be covered	No .of Hours
حروف الجر	6 Hours
الصفة والموصوف	6 Hours
المضاف والمضاف اليه	6 Hours
المعرفة والنكيرة	6 Hours
Total	18Hours

Unit: IV	
Topics to be covered	No .of Hours
تقسيم الفعل بإعتبار زمنه	6 Hours
الفاعل و المفعول	6 Hours
كان و أخواتها	6 Hours
إن وأخواتها	6 Hours
Total	18 Hours

Unit: V	
Topics to be covered	No .of Hours
نواصب الفعل المضارع	6 Hours
جوازم الفعل المضارع	6 Hours
رفع الفعل المضارع	6 Hours
العدد	6 Hours
Total	18 Hours

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ARABIC	**Programme : Part-I Language Paper** **I B.Sc.(Computer Science), I B.A.(Economics),** **I B.A.(English), I B.A.(History), I B.Sc.(Maths)**

Course Code: 23UARLL21	**Staff Name: M.SEYID ABDUL KADHER**

Course Name: Prose II

Unit: I	
Topics to be covered	**No .of Hours**
أجزاء الجملة	**6 Hours**
أسماء الإشارة	**6 Hours**
الضمائر	**6 Hours**
الواحد والمثني والجمع	**6 Hours**
Total	**18 Hours**

Unit: II	
Topics to be covered	**No .of . Hours**
الجملة المفيدة	**6 Hours**
المبتدأ والخبر	**6 Hours**
الجملة الفعلية	**6 Hours**
الجملة الإسمية	**6 Hours**
Total	**18 Hours**

Unit: III	
Topics to be covered	No .of Hours
حروف الجر	6 Hours
الصفة والموصوف	6 Hours
المضاف والمضاف اليه	6 Hours
المعرفة والنكيرة	6 Hours
Total	18Hours

Unit: IV	
Topics to be covered	No .of Hours
تقسيم الفعل باعتبار زمنه	6 Hours
الفاعل و المفعول	6 Hours
كان و أخواتها	6 Hours
إن وأخواتها	6 Hours
Total	18 Hours

Unit: V	
Topics to be covered	No .of Hours
نواصب الفعل المضارع	6 Hours
جوازم الفعل المضارع	6 Hours
رفع الفعل المضارع	6 Hours
العدد	6 Hours
Total	18 Hours

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: ARABIC	**Programme :(Part-I Arabic Language) I B.A Arabic, I B.BA, I Banking, I B.Sc Microbiology, I B.A Tamil,I B.Sc IT**
Course Code: 23UARLL21	**Staff Name: Dr.R.Minnal Vizhi**
Course Name: Prose II	

Unit: I	
Topics to be covered	**No .of Hours**
أجزاء الجملة	6 Hours
أسماء الإشارة	6 Hours
الضمائر	6 Hours
الواحد والمثني والجمع	6 Hours
Total	**18 Hours**

Unit: II	
Topics to be covered	**No .of. Hours**
الجملة المفيدة	6 Hours
المبتدأ والخبر	6 Hours
الجملة الفعلية	6 Hours
الجملة الإسمية	6 Hours
Total	**18 Hours**

Unit: III	
Topics to be covered	No .of Hours
حروف الجر	6 Hours
الصفة والموصوف	6 Hours
المضاف والمضاف اليه	6 Hours
المعرفة والنكيرة	6 Hours
Total	18Hours

Unit: IV	
Topics to be covered	No .of Hours
تقسيم الفعل بإعتبار زمنه	6 Hours
الفاعل و المفعول	6 Hours
كان و أخواتها	6 Hours
إن وأخواتها	6 Hours
Total	18 Hours

Unit: V	
Topics to be covered	No .of Hours
نواصب الفعل المضارع	6 Hours
جوازم الفعل المضارع	6 Hours
رفع الفعل المضارع	6 Hours
العدد	6 Hours
Total	18 Hours

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Arabic	**Programme: II B.A. Economics, II B.A. English, II B.A. History, II B.Sc. Mathematics, II B.Sc. Computer Science**

Course Code: 20UARL41	**Staff Name: Mr. A. Ahamed Faize**

Course Name: Quran & Hadith

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to the Quran and Hadith	3
Revelation and compilation of the Quran and Hadith	3
Short history of Imam Ibnu Abbas (Raz.)	3
Short history of Imam Ibnu Kaseer (Rah.)	3
Introduction to Sihah Sitah	3
Short history of Imam Buhari (Rah.) and Imam Muslim (Rah.)	3
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Surathul Zilzaal	3
Surathul Aadhiyath	3
Surathul Qariyah	3
Surathul Takathur & Surathul Asr	3
Surathul Humazah	3
Surathul Feel & Surathul Quraish	3
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Surathul Maoon	3
Surathul Kawthar & Surathul Kafirun	3
Surathun Nasr	3
Surathul Lahab	3
Surathul Ikhlas & Surathul Falaq	3
Surathun Nas	3
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Hadith No. 1 to Hadith No. 10	6
Hadith No. 11 to Hadith No. 20	6
Hadith No. 21 to Hadith No. 30	6
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Hadith No. 31 to Hadith No. 40	6
Hadith No. 41 to Hadith No. 50	6
Hadith No. 51 to Hadith No. 60	6
Total	**18**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Arabic	**Programme: Part I language Paper** **II B.Sc. Physics, II B.Sc. Chemistry, II B.Sc. Zoology**

Course Code: 20UARL41	**Staff Name: Mr. M. Seyid Abdul Kader**

Course Name: Quran & Hadith

Unit: I	
Topics to be covered	**No.ofHours**
Introduction to the Quran and Hadith	3
Revelation and compilation of the Quran and Hadith	3
Short history of Imam Ibnu Abbas (Raz.)	3
Short history of Imam Ibnu Kaseer (Rah.)	3
Introduction to Sihah Sitah	3
Short history of Imam Buhari (Rah.) and Imam Muslim (Rah.)	3
Total	**18**

Unit: II	
Topics to be covered	**No.ofHours**
Surathul Zilzaal	3
Surathul Aadhiyath	3
Surathul Qariyah	3
Surathul Takathur & Surathul Asr	3
Surathul Humazah	3
Surathul Feel & Surathul Quraish	3
Total	**18**

Unit: III	
Topics to be covered	**No.ofHours**
Surathul Maoon	3
Surathul Kawthar & Surathul Kafirun	3
Surathun Nasr	3
Surathul Lahab	3
Surathul Ikhlas & Surathul Falaq	3
Surathun Nas	3
Total	**18**

Unit: IV	
Topics to be covered	**No.ofHours**
Hadith No. 1 to Hadith No. 10	6
Hadith No. 11 to Hadith No. 20	6
Hadith No. 21 to Hadith No. 30	6
Total	**18**

Unit: V	
Topics to be covered	**No.ofHours**
Hadith No. 31 to Hadith No. 40	6
Hadith No. 41 to Hadith No. 50	6
Hadith No. 51 to Hadith No. 60	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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 20UBCC62	**Staff Name: R.Vanitha & Dr. S.Deepa**

Course Name: Plant Biochemistry

Unit: I	
Topics to be covered	**No. of Hours**
Translocation of plant – Introduction	2
Direction and path of translocation	2
Mechanism of translocation	5
Ascent of sap, path and mechnism	2
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Photosynthetic apparatus	4
Photosynthesis pigments	4
Light and Dark reactions of photosynthesis C3, C4, and CAM Plants	4
Factors affecting photosynthesis.	2
Photorespiration	1
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Essential mineral nutrients	2
Function, effects of toxicity and deficiency	5
N2 Cycle, N2 Fixation	2
Symbiotic and asymbiotic Nitrogen Fixation	2
Nitrogenase, nitrate assimilation	2
Sulphur and Sulphate assimilation	2
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Natural Growth hormones	2
Auxins	3
GA	2
Cytokines	2
Ethylene and	2
ABA	2
Synthetic growth hormones	2
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Importance of plant tissue culture, Basic requirements formulation of medium, culture of plant tissues, Applications.	5
Seed germination and dormancy.	5
Photoperiodism	5
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 20UBCC63	**Staff Name: Dr. A. Khadira Sereen**

Course Name: Bioststistics

Unit: I	
Topics to be covered	**No. of Hours**
Types of Data	4
Sampling	4
Classification of Data	4
Frequency Distribution	3
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Tabulation	4
Representation of the Data	4
Measures of Central Tendency	3
Measures of Dispersion	4
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**

Dispersion	5
Skewness	5
Kurtosis	5
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Probability Scale - Definition and Explanation of some term	3
Types of probability	2
Theorem of probability - Addition theorem and multiplication theorem.	3
Types of theoretical distribution	2
Application of probability	3
Venn Diagram.	2
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
ANOVA Analysis	5
Correlation	5
Regression analysis	5
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B.Sc**

Course Code:20UBCE62	**Staff Name:M. Kaviyadharshini**

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**

Bacterial Growth	2
Total	**10**

Unit: III	
Topics to be covered	**No. of Hours**
Compound microscope	2
Light and dark field microscope	2
Electron microscope (TEM and SEM)	4
Phase contrast microscope.	2
Total	**10**

Unit: IV	
Topics to be covered	**No. of Hours**
Food spoilage	1
Food poisoning	2
Food preservation	1
Production of ethanol	2
Production of organic acid	2
Production of Penicillin	2
Production of Penicillin	1
Sources of microorganism in milk	1
Factors affecting milk composition	1
Fermentation of milk, proteolysis	1
Butyric acid fermentation	1
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Typhoid	1
Cholera	1
Dysentery	1
Diarrhea	1
Hepatitis	1

Amoebiosis	1
Tuberculosis	1
Pox diseases	1
Diphtheria	1
Poliomyelitis	1
Total	**10**

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TEACHING PLAN

For the Academic Year 2023-24 (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 resources	1
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: M. Kaviyadharshini**

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 2023-24 (EVEN SEMESTER)

Department: Biochemistry	Programme: B. Sc

Course Code: 20UBCC6P	Staff Name: Dr. A. Khadira Sereen

Course Name: Clinical Biochemistry Practical

Topics to be covered	No. of Hours
• **Blood Analysis:** • 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	2
• **Urine analysis** • Normal & Abnormal Analysis of Urine • Collection & Preservation of urine Sample	5
• **Estimation of any two enzymes** • LDH - Serum • Acid phosphates - Serum	5

• Alkaline phosphates - Serum • SGOT - Serum	5
• SGPT- Serum • Amylase - Saliva	5
• Urease – Urine	5
Total	**45**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Biochemistry	Programme: B. Sc

Course Code: 20UBCC46Q	Staff Name: M. Kaviyadharshini

Course Name: **Microbiology Practical**

Unit: I	
Topics to be covered	**No. of Hours**
• Cleaning of glass wares • Sterilization techniques	5

• General Preparation of Media
  • Solid Media Preparation
  • Liquid Media Preparation
	4

• Isolation of microbes - Serial dilution method	4
• Pour plate method • Spread plate method	4
• Streak plate method • Enumeration of *E. coli* in milk and ice cream	4
• Gram's staining • Motility - Hanging drop method	4
• ESR - Erythrocyte Sedimentation rate • Water Quality analysis	4
Total	**45**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Biochemistry	Programme: B. Sc

Course Code: 20UBCC6R	Staff Name: **Dr. S. Deepa**

Course Name: Immuno and Biochemical Techniques

~~Unit: I~~	
Topics to be covered	No. of Hours
• RBC Count	7
• WBC court	7
• Paper chromatography	7
• TLC	7
Demonstration: • SDS PAGE	7
• Agarose gel electrophoresis	5
• Isolation of Genomic DNA	5
Totai	**45**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 20UBCC42	**Staff Name: M. Kaviyadharshini**

Course Name: Microbiology

Unit: I	
Topics to be covered	**No. of Hours**
General classification of microorganisms	2
Cytoplasmic membrane	2
Mesosomes	1
Cell wall - gram positive and negative	2
Capsules and slime layers	2
Flagella and cilia	1
Bacterial chromosomes	2
Plasmids	1
Ribosome's	1
Reserved food endospore	1
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Bacterial Nutrition	2
Bacterial metabolism	3
Bacterial Reproduction	3

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 2023-24 (EVEN SEMESTER)

Department: Biochemistry	Programme: B. Sc

Course Code: **20UBCC4P**	Staff Name: **R.Vanitha**

Course Name: **Quantitative Analysis of Bioorganic Compounds**

~~Unit-I~~	
Topics to be covered	No. of Hours
Estimation of glucose by Phenol sulphuric acid method	4
Estimation of glucose by Anthrone method	4
Estimation of glucose by Benedict's method	4
Estimation of pentose by Bial's method	4
Estimation of fructose by Seliwanoff's method	4
Estimation of reducing sugar in a fruit	4
Estimation of lactose in milk	4
Protein determination - Lowry's method	4
Estimation of total cholesterol.	4
Determination of ascorbic acid (Colorimetry)	4
Protein determination - Biuret method	5
Total	**45**

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TEACHING PLAN

For the Academic Year 2023-24 (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 2023-24 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 23UBCCC21	**Staff Name: Dr. S.Deepa**

Course Name: Cell Biology

Unit: I	
Topics to be covered	**No. of Hours**
Architecture of cells- Structural organization of prokaryotic and eukaryotic cells.	**2**
microbial, plant and animal cells.	**3**
The ultrastructure of nucleus, mitochondria, RER, SER,.	**3**
golgi apparatus, lysosome,	**3**
peroxisome and their functions	**1**
Total	**12**

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.	**2**
Organization of chromatin – histones,	**2**
nucleosome concept, formation of chromatin structure	**3**
Special types of chromosomes – lamp brush chromosomes, polytene chromosomes	**2**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Biomembranes-Structural organization of bilipidlayer	3
modelandbasicfunctions-	3
transport across cell membranes- uniport, symport and antiport.	3
Passive and active transport	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Cell cycle- Definition and Phases of Cell cycle	4
Cell division-Mitosis and Meiosis and its significance	4
Cancer cells- definition, types and characteristics of cancer cells	4
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Extracellular matrix – Collagen, laminin	2
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	2
Total	**12**

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TEACHING PLAN
For the Academic Year 2023-24 (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**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 23UBCSE22	**Staff Name: Dr. A. Khadira Sereen**

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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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Biochemistry	Programme: B. Sc

Course Code: 23UBCSE21	Staff Name: Dr. S.Deepa

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 2023-24 (EVEN SEMESTER)

Department: Biochemistry	Programme: B. Sc

Course Code: 23UBCCC2P	Staff Name: Dr. S. Deepa

Course Name: Practical II Cell Biology

Unit: I	
Topics to be covered	**No. of Hours**
I MICROSCOPYANDSTAININGTECHNIQUES • Study the parts of light and compound microscope • Preparation of Slides and Micrometry	5
• Examination of prokaryotic and eukaryotic cell • Visualization of animal and plant cell by methylene blue	5
• Visualization of nuclear fraction by acetocarmine stain • Staining and visualization of mitochondria by Janus green stain	5
II GROUP EXPERIMENT 7.Identificationofdifferentstagesofmitosisinonionroottip 8.Identification of different stages of meiosis in onion bulb	7
III SPOTTERS 9. a) **Cells**:Nerve,plantandAnimalcell b) **Organelles**:Mitochondria,Chloroplast,Endoplasmicreticulum, c) **Mitosisstages**–Prophase,Anaphase,Metaphase,Telophase	8
Total	**30**

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TEACHING PLAN

For the Academic Year 2023-24 (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 distinquish between aliphatic and aromatic compounds.	8
To distinquish- saturated and unsaturated compounds.	6
Total	**30**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Biochemistry	**Programme: B. Sc**

Course Code: 20UBCC41	**Staff Name: Dr. A. Khadira Sereen**

Course Name: Biometabolism

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to bioenergetics.	**2**
Definition of Phosphorylation.	**1**
High energy and Low energy phosphates.	**2**
Electron Transport chain.	**3**
Oxidative phosphorylation.	**2**
Total	**10**

Unit: II	
Topics to be covered	**No. of Hours**
Metabolism of Carbohydrates	**2**
Glycolysis, TCA cycle	**7**
Gluconeogenesis, HMP shunt	**4**
Glycogenesis, Glycogenolysis	**7**
Total	**20**

Unit: III	
Topics to be covered	**No. of Hours**
Metabolism of Amino acids	2
A brief account of amino acid metabolism	3
Glycine Metabolism	2
Cysteine Metabolism	2
Proline Metabolism	2
Homoserine Metabolism	2
Phenylalanine Metabolism	2
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Metabolism of Lipids	3
Oxidation of fatty acid	3
Energetic of oxidation	3
Ketone body metabolism	2
Glycerate metabolism	2
Structure and biosynthesis of TG	3
Phospholipids	2
Cholesterol metabolism	2
Total	**20**

Unit: V	
Topics to be covered	**No. of Hours**
Metabolism of Nucleic acids.	2
Biosynthesis of Purine (Denova synthesis and Salvage pathway).	4
Biosynthesis of Pyrimidine bases (Denova synthesis and Salvage pathway).	4
Total	**10**

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TEACHING PLAN

For the Academic Year 2023-24 (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	**3**
Synchronous culture.	**3**
Growth Curve and measurement method (turbidity, biomass and cell count).	**3**
Control of microbial growth.	**3**
Total	**12**

Unit: II- Nutrition requirements	
Topics to be covered	**No. of Hours**
Photoautotroph, Photoorganotrophs.	**3**
Chemolithotrophs (Ammonia, Nitrite, Sulfur, Hydrogen, Iron oxidizing Bacteria), Chemoorganotrophs.	**3**
Nutrition transport mechanisms–Passive diffusion and Active transport.	**3**
Factors affecting microbial growth.	**3**
Total	**12**

Unit: III - An overview of Metabolism	
Topics to be covered	**No.of Hours**
Embden Meyerhof Pathway	2
Entner-Doudoroff Pathway, Pentose Phosphate Pathway,	2
Tricarboxylic Acid Cycle.	2
Electron Transport Chain and Oxidative Phosphorylation. ATPsynthesis	3
Fermentation-Homolactic Fermentation, Heterolactic fermentation, Mixed Acid Fermentation, Butanediol Fermentation.	3
Total	**12**

Unit: IV - Photosynthesis	
Topics to be covered	**No.of Hours**
An Overview of chloroplast structure.	3
Photosynthetic Pigments.	3
Light Reaction-Cyclic and non-cyclic Photophosphorylation.	3
Dark Reaction-Calvin Cycle.	3
Total	**12**

Unit: V- Microorganism Reproduction	
Topics to be covered	**No.of Hours**
Bacterial reproduction - Binary fission, Budding,	2
Reproduction through conidia, cyst formation, endospore formation.	2
Fungi asexual and sexual reproduction	2
Microalgae reproduction. Asexual and sexual	3
Reproduction of protozoa.	3
Total	**12**

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TEACHING PLAN

For the Academic Year 2023-23 (EVEN SEMESTER)

Department: Microbiology	**Programme: B.Sc**

Course Code: 23UMBCC2P	**Staff Name: Dr. P. Sivamanikandan**

Course Name: Microbial Physiology and Metabolism Practical

Unit: I	
Topics to be covered	**No. of Hours**
Motility demonstration: hanging drop, wet mount preparation,	3
Semi-solid agar, Craigie's tube method.	3
Staining techniques: Smear preparation, permanent specimen preparation,	3
Capsular, and Acid-fast staining	3
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Direct counts – Direct cell count (Petroff-Hausser counting chamber),	3
Turbidometry. Viable count -	3
Pour plate, spread plate.	3
Bacterial growth curve.	3
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,	3
Morphological variations in fungi and protozoa.	3
Micrometry: Demonstration of the size of yeast,	3
Micrometry: Demonstration of the size of fungal filaments and protozoa.	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Methods of bacterial identification- morphological, physiological, and biochemical methods - IMViC test,	3
H2S, TSI, Oxidase, catalase, urease test,	2
Carbohydrate fermentation test.	2
Maintenance of pure culture- paraffin method.	2
Maintenance of pure culture stab culture, and mold culture	3
Total	**12**

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TEACHING PLAN

FortheAcademicYear2023-24(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,Goodnutrition,andmalnutrition;BalancedDiet:BasicsofMealPlanning.Carbohydrates,Lipids,ProteinsandVitamins–Functions, dietary sources, effects of deficiency.	2
Macroandmicrominerals–functions,effectsofdeficiency;foodsourcesofCalcium,Potassium,andSodi um;	2
FoodsourcesofIron,Iodine,andZinc.Importanceofwater–functions,sources,requirementsandeffectsof Deficiency	2
Total	6

Unit:II	
Topics to be covered	**No. of Hours**
NutritionforLifeCycle:Balanceddiet-Normal	2
Pregnant,lactatingwomen,Infancy,youngchildrenAdolescents,Adults,andtheElderly;	2
Diet Chart;Nutritivevalueof Indian foods.	2
Total	6

Unit:III	
Topics to be covered	**No. of Hours**
Improperdiets:Definition,Identification,SignsandSymptoms-malnutrition,under-nutrition,	2
Over-nutrition,ProteinEnergyMalnutrition,obesity;NutritionalDisease	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&Publichealth;	2
Health-Education:PrinciplesandStrategies. Health Policy &HealthOrganizations:	2
Health Indicators andNationalHealthPolicyofGovt.ofIndia;Functioning ofvariousnutritionandHealth organizations in India.	2
Total	6

Unit:V	
Topicstobecovered	**No.ofHours**
Hygiene–Definition;Personal,Community,MedicalandCulinary Hygiene; WASH(Water, Sanitation and Hygiene) programme.	2
Rural CommunityHealth:Villagehealthsanitation&Nutritionalcommittee.	2
Community & Personal Hygiene: Environmental Sanitationand Sanitation inPublic places	2
Total	6

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TEACHING PLAN
For the Academic Year 2023-24 (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
Life cycle of silk worm –pupa	1
Life cycle of silk worm –moth	1
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 2023-24 (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 Year2023-24(EVEN SEMESTER)

Department: MICROBIOLOGY	**Programme:** B.Sc
CourseCode:20UMBC62	**Staff Name:** Ms.M.Musbira banu
CourseName: 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 2023-24 EVEN SEMESTER

Department: Microbiology	**Programme: B.Sc**

Course Code: 20UMBC63	**Staff Name: Dr.RM. Lakshmanan**

Course Name: Enzymology and 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

FortheAcademicYear2023-24(EVEN SEMESTER)

Department:MICROBIOLOGY	**Programme: B.Sc**

CourseCode: 20UMBE61	**StaffName: Dr. A. SajithAhamed**

CourseName: Recombinant DNA technology

Unit:I	
Topicstobecovered	**No.ofHours**
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	
Topicstobecovered	**No.ofHours**
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	
Topicstobecovered	**No.ofHours**
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	
Topicstobecovered	**No.ofHours**
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	
Topicstobecovered	**No.ofHours**
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
FortheAcademicYear2023-24(EVEN SEMESTER)

Department: MICROBIOLOGY	**Programme: B.Sc**

CourseCode: 20UMBS61	**Staff Name : Ms.M.Musbirabanu.**

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 management FDA,WHO,AGMARK,ISI-HACCP,GMP	3
Total	6

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TEACHING PLAN
FortheAcademicYear2023-24(EVEN SEMESTER)

Department:Microbiology	**Programme: B. Sc., Microbiology**

CourseCode: 20UMBS62	**StaffName: M. MusbiraBanu**

CourseName: CompetitiveExamination Paper – II

Unit:I	
Topicstobecovered	**No.ofHours**
Basics of Immunology	2
Principles of innate and acquired immunity	2
Cellsandorgansoftheimmune system	2
Total	**6**

Unit:II	
Topicstobecovered	**No.ofHours**
Bacterial diseases	2
Viral diseases	2
Fungal and protozoan diseases	2
Total	**6**

Unit:III	
Topicstobecovered	**No.ofHours**
Multiple Choice Questions from Industrial Microbiology	3
Strain development,preservation-mineral oil and lyophilizationl. Inoculum preparation, Inoculum build-up.	3
Total	**6**

Unit:IV	
Topicstobecovered	**No.ofHours**
Aptitude questions for Multiple choice part 1	3
Aptitude questions for Multiple choice part 2	3
Total	**6**

Unit:V	
Topicstobecovered	**No.ofHours**
Multiple choice question for Reasoning part 1	3
Multiple choice question for Reasoning part 2	3
Total	**6**

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TEACHINGPLAN

FortheAcademicYear2023-24(EVENSEMESTER)

Department:Microbiology	**Programme: B. Sc., Microbiology**
CourseCode: 20UMBC6P	**StaffName: A. SajithAhamed**
CourseName: Agricultural and Environmental Microbiology Practical	

Unit:I	
Topicstobecovered	**No.ofHours**
Isolation and characterization of soil microbes. Serial dilution method for enumeration of soil bacteria	18
Total	**18**

Unit:II	
Topicstobecovered	**No.ofHours**
Identification of microbial pathogen in paddy and vegetable crops (field study)	18
Total	**18**

Unit:III	
Topicstobecovered	**No.ofHours**
Isolation of symbiotic nitrogen fixing bacteria from root nodules – Rhizobium.	9
Isolation of free-living nitrogen fixing bacteria from rhizosphere - Azotobacter	9
Total	**18**

Unit:IV	
Topicstobecovered	**No.ofHours**
Isolation of phosphate solubilizing bacteria – Pseudomonas	18
Total	**18**

Unit:V	
Topicstobecovered	**No.ofHours**
Examination of mycorrhizae – VAM. Potability testing of water (MPN test).	18
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24 (ODD/EVEN SEMESTER)

Department: Microbiology	**Programme: B.Sc**

Course Code: 20UMBC6R	**Staff Name: Dr. 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	**18**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Isolation and identification of *Staphylococcus,*	**9**
Isolation and identification of *Streptococcus*	**9**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Antibiotic susceptibility test: disc diffusion method	**18**
Total	

Unit: IV	
Topics to be covered	**No. of Hours**
Measurement of minimal inhibitory concentration (MIC)	**9**
Measurement of minimal lethal concentration (MLC).	**9**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Enumeration of microbial population in food samples meat,	**6**
Enumeration of microbial population in food samples pickles, ice-cream, fruit juices	**6**
Milk quality test-MBRT	**6**
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24 (~~ODD~~/ EVEN SEMESTER)

Department: Microbiology	**Programme: B.Sc**

Course Code: 20UMBC6Q	**Staff Name: 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.	**6**
Separation of DNA by Agarose gel electrophoresis	**6**
Determination of purity and quantification of DNA	**6**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Isolation and purification of a plasmid DNA	**6**
Restriction Digestion Analysis	**6**
Ligation	**6**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Transformation of *E. coli* using plasmid (pUC18/19)	**6**
Blue-white Selection of transformants	**6**
Crowded plate technique for antibiotics producing microbes	**6**
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Isolation of amylase producing bacteria and fungi	**9**
Isolation of protease producing bacteria and fungi	**9**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Alcohol (ethanol) production	**9**
Immobilization of yeast	**9**
Total	**18**

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TEACHING PLAN
FortheAcademicYear2023-24(EVEN SEMESTER)

Department: MICROBIOLOGY	**Programme: B.Sc**
CourseCode: 20UMBC41	**StaffName: Dr. A. SajithAhamed**
CourseName: Molecular biology & Microbial Genetics	

Unit:I	
Topicstobecovered	**No.ofHours**
Structural aspects of DNA and RNA	3
double helical model	3
various forms of DNA	3
tRNA and rRNA	2
mRNA	2
Genome organization	2
Total	**15 hours**

Unit:II	
Topicstobecovered	**No.ofHours**
Replication- Semi conservative mode of replication	3
Enzymology of Replication	4
The processes of DNA replication	4
Eukaryotic replication	4
Total	**15 hours**

Unit:III	
Topicstobecovered	**No.ofHours**
Process of transcription in Prokaryotes	3
Process of transcription in Eukaryotes	4
Enzymology of Transcription-	4
Factors involved in transcription	4
Total	**15 hours**

Unit:IV	
Topicstobecovered	**No.ofHours**
Translation in prokaryotes	3
Enzymology of Translation	3
Process of translation in prokaryotes	3
Factors involved in translation	3
The triplet nature of genetic codon	3
Total	**15 hours**

Unit:V	
Topicstobecovered	**No.ofHours**
Transformation	3
Griffith experiment	3
conjugation (F^+ x F)	3
conjugation (Hfr^+ x F^-)	3
Transduction –generalized and specialized	3
Total	**15 hours**

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TEACHING PLAN

FortheAcademicYear2023-24(EVEN SEMESTER)

Department: Microbiology	**Programme: B.Sc**
CourseCode:20UMBC42	**Staff Name: MS. M. Musbirabanu**
CourseName: Microbial Physiology	

Unit:I	
Topicstobecovered	**No.ofHours**
Generation of Energy – Entropy,	1
Generation of ATP.	3
Substrate level phosphorylation,	3
oxidative phosphorylation,	3
proton motif force	2
Total	12

Unit:II	
Topicstobecovered	**No.ofHours**
Cell wall synthesis in bacteria	2
Cell division in Bacteria.	2
Life cycle of Bacillus	2
Stages of endospore formation,	2
Germination and outgrowth.	2
Growth curve	2
Total	12

Unit:III	
Topicstobecovered	**No.ofHours**
Photosynthesis in bacteria.	2
Assimilation of inorganic phosphorus	1
Assimilation of sulfur in bacteria	1
Assimilation of nitrogen in bacteria	3
Sulfate reduction pathway.	1
Ammonia assimilation pathway	2
Nitrogenase and nitrogen fixation.	2
Total	12

Unit:IV	
Topicstobecovered	**No.ofHours**
Active transport system	2
Passive transport system	2
Facilitated transport system	2
Chemiosmosis, ion gradient.	2
Secretion in bacteria – Type of secretion systems	4
Total	12

Unit:V	
Topicstobecovered	**No.ofHours**
Life cycle of Hyphobacterium	2
Life cycle of Caulobacter.	2
Gliding bacteria and gliding motility	2
Life cycle of fruiting bacteria –Myxobacteria	3
Sporulation in fungi	3
Total	12

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Microbiology	**Programme: II B.Sc**
Course Code: 20UMBA41	**Staff Name: R.Priya**

Course Name: Genetics and Biostatistics

Unit: I	
Topics to be covered	**No. of Hours**
Mendelian Genetics - Mendel's works	3
Mendelian Genetics - observations and results	3
Mendel's laws – Terms	2
Back cross, Test cross	2
Complete and incomplete dominance - co dominance.	2
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Allelic interaction - Multiple Alleles-blood group inheritance Rh factor	3
Multiple gene inheritance , Genes and chromosomes	3
Crossing over	2
Linkage	2
Chromosomal aberration	2
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Biostatistics – Introduction	3
Data collection	3
Types of data - primary and secondary data	2
sampling and sampling designs ,	2
Random and non-random sampling	2
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Representation of data- Diagrammatic - simple bar diagram, Pie diagram	2
Graphical representation – Histogram , Frequency curve, cumalative frequency curve	2
Measures of central tendency Explanation	3
Types of average	2
Arithmetic mean – Median – Mode Continuous series - Discrete series	3
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Measures of dispersion – Explanation	3
Types – range	3
Mean deviation - Standard deviation	2
Varience - Correlation and regression	2
ANOVA - one way	2
Total	12

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TEACHING PLAN

For the AcademicYear 2023-24 (ODD/EVENSEMESTER)

Department: MICROBIOLOGY	**Programme: B.Sc**
CourseCode: 20UMBC4P	**StaffName: A. Sajith Ahamed**

CourseName: Immunology and Molecular Biology Practical

Unit: I	
Topics to be covered	**No.ofHours**
pH meter- principle and measurements.	4
Estimation of Carbohydrates	4
Estimation of Proteins (Lowry's method)	5
Separation of amino acids by Paper chromatography.	5
Total	**18hours**

Unit: II	
Topics to be covered	**No.ofHours**
Isolation of DNA from E. coli.	6
Separation of DNA by Agarose gel electrophoresis.	6
Separation of Proteins by SDS-PAGE.	6
Total	**18hours**

Unit: III	
Topics to be covered	**No.ofHours**
Separation of serum / plasma.	6
Blood cell count: RBC count.	6
WBC count – Total and differential.	6
Total	**18 hours**

Unit: IV	
Topics to be covered	**No.ofHours**
Blood typing: ABO, Rh.	6
Agglutination tests: Widal test.	6
Precipitation: Ouchterlony's double immune diffusion.	6
Total	**18hours**

Unit: V	
Topics to be covered	**No.ofHours**
Immuno electrophoresis.	6
Effect of temperature on bacterial growth.	6
Effect of pH on bacterial growth.	6
Total	**18 hours**

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TEACHING PLAN
For the Academic Year 2023-24 (ODD /EVEN SEMESTER)

Department: MICROBIOLOGY	**Programme: B. Sc**
Course Code: 20UMBA4P	**Staff Name: Ms. M. Musbirabanu.**
Course Name: Allied Biology Practical	

Unit: I	
Topics to be covered	**No. of Hours**
Vegetative structure in sargassum, yeast,	3
funaria, seleginella and pinus (section cutting of Sargassum and Selaginella, pinus stem and needles)	3
Structure of monocot flower- *Alliumcepa*	3
Study of mitosis by smear technique of *Alliumcepa* root.	3
Total	12

Unit: II	
Topics to be covered	**No. of Hours**
Cockroach-externalanddigestivesystemandreproductivesystem.	3
Frog-External,digestivesystem,urogenitalsystemandbrain(spottersoniy)	3
Morphology of the representative for each phylum spotters only- paramecium, Hydra, Tania, Ascaris,	3
Morphology of the representative for each phylum spotters only- earthworm, Prawn, Pila ,Starfish, rat.	3
Total	12

Unit: III	
Topics to be covered	**No. of Hours**
Determinationofbloodgroups&Rhfactors.	4
Determination of haemoglobulin.	4
Lawofprobability.	4
Total	12

Unit: IV	
Topics to be covered	**No. of Hours**
Estimation of dissolved Oxygen in different water samples.	4
Estimation of Alkalinity in different water samples.	4
Soil testing for pH, alkalinity, nitrate and phosphates.	4
Total	12

Unit: V	
Topics to be covered	**No. of Hours**
Problems in Measures of central tendencies-Mean, median and Mode.	6
Problems in Measures of dispersion-Standard deviation.	6
Total	12

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**

Course Code:23UCTCC21	**Staff Name: PEERMOHAMED.A**

Course Name: JAVA PROGRAMMING& 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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TEACHING PLAN

For the Academic Year 2023-24 (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 2023-24 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**

Course Code:23UCTCC2P	**Staff Name: PEERMOHAMED.A/R.KARTHIGAI CHELVI/ R.NESHANA**

Course Name: JAVA PROGRAMMING& DATA STRUCTURES PRACTICALS

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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TEACHINGPLAN

For the Academic Year 2023-24(EVEN SEMESTER)

Department: INFORMATION TECHNOLOGY	**Programme: B.Sc., IT**
Course Code: 23UCTSE2P	**Staff Name: A.K.JENARTHANAN C.SHEIK MYDEEN**
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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TEACHINGPLAN

For the Academic Year 2023-24 (ODD 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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**

Course Code:20UCTC41	**Staff Name: K.A. Sheik Fareed**

Course Name: DATABASE MANAGEMENT SYSTEM

Unit: I	
Topics to be covered	**No. of Hours**
Database Concepts: A Relational approach: Database – Relationships – DBMS – Relational Data Model	**4**
Integrity Rules – Theoretical Relational Languages	**2**
Database Design: Data Modelling and Normalization: Data Modelling – Dependency	**2**
Database Design – Normal forms – Dependency Diagrams – De-normalization – Another Example of Normalization.	**2**
Total	**10**

Unit: II	
Topics to be covered	**No. of Hours**
Oracle9i: Overview: Personal Databases – Client/Server Databases – Oracle9i an introduction – SQL *Plus Environment	**3**
SQL – Logging into SQL *Plus - SQL *Plus Commands – Errors & Help – Alternate Text Editors - SQL *Plus Worksheet - iSQL *Plus	**3**
Oracle Tables: DDL: Naming Rules and conventions – Data Types	**2**
Constraints – Creating Oracle Table – Displaying Table Information	**2**
Altering an Existing Table – Dropping, Renaming, Truncating Table – Table Types – Spooling – Error codes.	**2**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Working with Table: Data Management and Retrieval: DML – adding a new Row/Record – Customized Prompts – Updating and Deleting an Existing Rows/Records	3
Retrieving Data from Table – Arithmetic Operations – restricting Data with WHERE clause	3
Sorting – Revisiting Substitution Variables – DEFINE command – CASE structure	2
Functions and Grouping: Built-in functions –Grouping Data.	2
Multiple Tables: Joins and Set operations: Join– Set operations	2
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
PL/SQL: A Programming Language: History – Fundamentals – Block Structure – Comments – Data Types – Other Data Types	3
Declaration – Assignment operation – Bind variables – Substitution Variables – Printing – Arithmetic Operators.	3
Control Structures and Embedded SQL: Control Structures – Nested Blocks – SQ L in PL/SQL – Data Manipulation – Transaction Control statements.	3
PL/SQL Cursors and Exceptions: Cursors – Implicit & Explicit Cursors and Attributes – Cursor FOR loops – SELECT...FOR UPDATE – WHERE CURRENT OF clause	3
Cursor with Parameters – Cursor Variables – Exceptions – Types of Exceptions	2
Total	**14**

Unit: V	
Topics to be covered	**No. of Hours**
PL/SQL Composite Data Types: Records – Tables Varrays.	6
Named Blocks: Procedures – Functions Packages Triggers Data Dictionary Views.	6
Total	**12**

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TEACHINGPLAN

For the Academic Year 2023-24 (Even SEMESTER)

Department: Information Technology	**Programme: II B.Sc**

Course Code: 20UCTC42	**Staff Name: G.Manonmani** **R.Karthigai Chelvi**

Course Name: Operating Systems

Unit: I	
Topics to be covered	**No.of Hours**
Introduction: Computer system organization – system architectures	2
OS structure – operations	2
process management – memory management – storage management	2
OS services and interface	2
System calls	2
types – system programs	2
Total	**12**

Unit: II	
Topics to be covered	**No.of Hours**
Process scheduling	2
operations on process	2
interposes communications	2
Multithreaded programming: Models – thread issues	2
Process scheduling: Basic concepts – criteria	2
Process scheduling algorithms	2
multiprocessor scheduling – thread scheduling	2
Total	**14**

Unit: III	
Topics to be covered	**No.of Hours**
The critical section problem – semaphores	1
system model	1
deadlock characterization	2
methods of handling deadlock - prevention	4
avoidance – detection and recovery from deadlock.	4
Total	**12**

Unit: IV	
Topics to be covered	**No.of Hours**
Swapping	1
contiguous memory allocation - paging	3
structure of the page table – segmentation	2
File system: file concept – access methods	3
directory structure – file system mounting – file sharing – protection	3
Total	**12**

Unit: V	
Topics to be covered	**No.of Hours**
Disk structure	1
disk attachment	2
disk scheduling	2
disk management	2
swap space management	3
Total	**10**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**

Course Code: 20UCTA41	**Staff Name: Dr.J.Thasleen Fathima**

Course Name: Computer Oriented Numerical Methods

Unit: I	
Topics to be covered	**No. of Hours**
Introduction to Computer Arithmetic	1
Floating Point Representation of numbers	1
Arithmetic operations with normalized floating representation of numbers	3
Consequence of normalized floating point representation of numbers	3
Total	**8**

Unit: II	
Topics to be covered	**No. of Hours**
Method of Least Squares	3
Introduction to Algebraic and Transcendental Equations	1
Errors in Numerical Computation	1
Iteration Method	2
Bisection Method	2
Regula Falsi Method	2
Newton- Raphson Method	2
Introduction to Simultaneous Equations	1
Back substitution	2
Gauss Elimination Method	2
Gauss –Jordan Elimination Method	2
Total	**20**

Unit: III	
Topics to be covered	**No. of Hours**
Introduction to Interpolation	2
Newton's Interpolation Formulae	3
Central Difference Interpolation Formulae	4
Lagrange's Interpolation Formulae	3
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Introduction to Numerical Differential and Integration	3
Derivatives Using Newton's Forward Difference Formula	3
Derivatives Using Newton's Backward Difference Formula	3
Derivatives Using Central Difference Formula	3
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Introduction to Numerical Solution of Ordinary Differential Equations	1
Taylor's Series Method	2
Euler's Method	2
Runge-Kutta Method	3
Total	**8**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**
Course Code:20UCTC4P	**Staff Name: K.A. Sheik Fareed**
Course Name: DATABASE MANAGEMENT SYSTEM - LAB	

Unit: I	
Topics to be covered	**No. of Hours**
Foreign Key, On Delete Cascade	**3**
Table Alteration - Rename table and Column name, Add Column, Drop column	**4**
Modify Column size and Data type Drop Table	**3**
Total	**10**

Unit: II	
Topics to be covered	**No. of Hours**
Insertion, Updates, Deletion	**5**
String Operations	**5**
Total	**10**

Unit: III	
Topics to be covered	**No. of Hours**
Set Operations, Tuple Variables	**5**
Aggregate Functions with Grouping and Having Clause	**5**
Total	**10**

Unit: IV	
Topics to be covered	**No. of Hours**
Ordering Tuples	**3**
Nested Sub queries – Set Membership (IN, NOTIN)	**4**
Set Comparison (SOME, ALL Sub-queries in the From Clause	**3**
Join Operations – Equi Join, Left-outer join, Right outer join, Self Join Views	**5**
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Reverse the String, Find Factorial number using Recursive Function	**5**
Prepare Student Mark Sheet.	**5**
Employee Pay Roll, EB – Bill	**5**
Total	**15**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: **Information Technology**	**Programme: B.Sc., IT**

Course Code: 20UCTS4P	**Staff Name: A. PEER MOHAMED, K. ISCAQ FAIZAL.**

Course Name: PYTHON LAB

Unit: I	
Topics to be covered	**No.of Hours**
Program to demonstrate arithmetic operations.	3
Python program to LCM and GCD of two numbers.	3
Total	**6**

Unit: II	
Topics to be covered	**No.of Hours**
Program using string built-in functions	3
Python program to implement the concept lists	3
Total	**6**

Unit: III	
Topics to be covered	**No.of Hours**
Python program to illustrate the use of calendar module and time module	3
Python program to implement the concept of internet module	3
Total	**6**

Unit: IV	
Topics to be covered	**No.of Hours**
Python program to send an e–mail.	3
Python program to implement the concept of multi-threading	3
Total	**6**

Unit: V	
Topics to be covered	**No.of Hours**
Python program to implement Tinder module.	3
Python program to illustrate the concept of exception handling.	3
Total	**6**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**

Course Code:20UCTC61	**Staff Name: PEERMOHAMED.A / Z.ABDUL BASITH**

Course Name: SOFTWARE ENGINEERING

Unit: I	
Topics to be covered	**No.ofHours**
Introduction to Software Engineering	**2**
Definitions, Size factors	**2**
Quality and Productivity Factors	**2**
Managerial Issues	**2**
Defining the Problem	**2**
Developing a Solution Strategy	**2**
Planning the Development Process	**2**
Planning an Organizational Structure	**1**
Total	**15**

Unit: II	
Topics to be covered	**No.of Hours**
Software Cost Estimation	**2**
Software Cost Factors	**2**
Software Cost Estimation Techniques	**2**
Staffing Level Estimation	**2**
Estimating Software Maintenance Costs	**2**
The Software Requirements Specification	**2**
Formal Specification Techniques	**2**
State Oriented Notations	**1**
Total	**15**

Unit: III	
Topics to be covered	**No.of Hours**

Software Design	3
Fundamental design concepts	3
Modules and Modularization criteria	3
Design Notations	3
Design Techniques	3
Total	**15**

Unit: IV	
Topics to be covered	**No.of Hours**
Implementation Issues	2
Structured coding techniques	2
Coding Style	2
Modern programming language Features	2
Type checking	2
User-defined data types	2
Data abstraction	2
Scoping Rules	1
Total	**15**

Unit: V	
Topics to be covered	**No.of Hours**
Verification and Validation Techniques	2
Quality Assurance	2
Walkthroughs and Inspections Unit Testing and Debugging	2
System Testing	2
Formal Verification	2
Software Maintenance	2
Enhancing Maintainability during development	2
Managerial Aspects of Software maintenance	1
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: Information Technology	**Programme: B.Sc**

Course Code: 20UCTC62	**Staff Name : G.Manonmani**

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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: **Information Technology**	**Programme: B.Sc., IT**

Course Code: 20UCTE61	**Staff Name: K. ISCAQ FAIZAL, R. NESHANA**

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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TEACHING PLAN

For the Academic Year 2023-24 (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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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Information Technology	Programme: III - B.Sc. IT

Course Code: 20UCTC6P	Staff Name: G. Manonmani, Z. Abdul Basith

Course Name: DOT NET PROGRAMMING – LAB

Unit: I (HTML)	
Topics to be covered	**No. of Hours**
Timetable 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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TEACHING PLAN
For the Academic Year 2023-24(EVEN SEMESTER)

Department: INFORMATION TECHNOLOGY	**Programme: B.Sc**

Course Code: 20UCTS6P	**Staff Name:K.Iscaq Faizal, R.Neshana**

Course Name: ANIMATION TECHNIQUES -LAB

Unit: I	
Topics to be covered	**No.of Hours**
Handling different file formats and interchanging them, changing the resolution, colour, gray scales and size of the images.	2
Using brushes and creating multicolour 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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TEACHINGPLAN
For the Academic Year 2023-24 (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
neuralnetwork–basedalgorithms–rule-basedalgorithms	4
Combining techniques.	3
Total	**15**

Unit: III	
Topics to be covered	**No.of Hours**
Clustering:Introduction–SimilarityandDistanceMeasures	4
Outliers–HierarchicalAlgorithms-PartitionalAlgorithms.	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**
ContemporaryIssues: Expertlectures,onlineseminars –webinars	3
Total	**3**

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TEACHINGPLAN

For the Academic Year 2023-24 (EVENSEMESTER)

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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TEACHING PLAN

For the Academic Year 2023-24(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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TEACHINGPLAN

For the Academic Year 2023-24 (EVENSEMESTER)

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	1
State space search	2
Production Systems	1
Problem Characteristics	2
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 Isa relationships	1
Computable functions and predicates	1
Resolution	1
Natural deduction	1

Representing knowledge using rules	
Procedural Vs Declarative knowledge	1
Logic programming	1
Forward Vs Backward reasoning	1
Matching	1
Control knowledge	1
	1
Total	**12**

Unit IV	
Topics to be Covered	**No. of Hours**
Understanding Machine Learning	1
What Is Machine Learning?	1
Defining Big Data	1
Big Data in Context with Machine Learning	1
The Importance of the Hybrid Cloud	2
Leveraging the Power of Machine Learning	1
-The Roles of Statistics and Data Mining with Machine Learning	2
Putting Machine Learning in Context	1
Approaches to Machine Learning.	2
Total	**12**

Unit V	
Topics to be Covered	**No. of Hours**
Looking Inside Machine Learning	3
The Impact of Machine Learning on Applications	3
Data Preparation	2
The Machine Learning Cycle	2
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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TEACHINGPLAN

For the Academic Year 2024-25 (EVEN SEMESTER)

Department: Information Technology	**Programme: M.Sc. Computer Science**

Course Code:23PCSDE22	**Staff Name : Z. ABDUL BASITH**

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	3
Mobility Management	3
Frequency Management	2
Cordless Mobile Communication Systems	2
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	2
Changeover from one satellite to other	2
Global Mobile Communication	2
Interferences in Cellular Mobile Communication	1
Total	**15**

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	1
Local Multipoint Distribution Service	2
Wireless Application Protocol	2
Total	**11**

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	2
Fourth Generation Mobile Communication systems	2
Total	**8**

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 2023-24(EVEN SEMESTER)

Department: INFORMATION TECHNOLOGY	Programme: M.Sc., CS
Course Code: 23PCSSE2P	Staff Name: A.K.JENARTHANAN C.SHEIK MYDEEN
Course Name: Data Mining Lab Using R	

Unit I	
Topics to be Covered	**No. of Hours**
Implement Apriority Algorithm to extract association rule of data mining	3
Implement k-means clustering techniques.	3
To check prime number leap year, sum of natural number odd or even number	3
Total	**9**

Unit II	
Topics to be Covered	**No. of Hours**
Implement any one hierarchal Clustering	3
Implement classification on algorithm	3
Decimal to binary using recursion, Factorial	4
Create a table from the existing data set in R and draw the sort	4
Total	**14**

Unit III	
Topics to be Covered	**No. of Hours**
Implement Decision tree	3
Linear Regression	4
Data Visualization	4
Apply K- means algorithm fo IRIS data set and output it in graph	3
Total	**14**

Unit IV	
Topics to be Covered	**No. of Hours**
Find sum mean and Product of vector in R	3
R program to sample from the Population	3

R program sort a Vector	3
Get some input from empty CAR data set and perform analysis	3
	12

Unit V	
Topics to be Covered	**No. of Hours**
To combine the matrix using R Bind and c Bind methods	3
Use seq() to create sequences	4
Program to convert the table data in to data frame	4
Total	**11**

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TEACHINGPLAN

For the Academic Year 2023-24(EVEN SEMESTER)

Department: INFORMATION TECHNOLOGY	**Programme: M.Sc., CS**
Course Code: 23PCSGE2P	**Staff Name: A.K.JENARTHANAN**
Course Name: Advanced Java Programming	

Unit I	
Topics to be Covered	**No. of Hours**
Write a Java Program implement the Swing Components	5
Multithreading Concept	5
Total	**10**

Unit II	
Topics to be Covered	**No. of Hours**
Display a welcome message using Servlet	5
Design a Purchase Order form using HTML form and Servlet	5
Total	**10**

Unit III	
Topics to be Covered	**No. of Hours**
Develop a Program for Calculating the Percentage of marks of student using JSP	5
JDBC Connectivity	5
Write a Program using Java Servlet to Handle From data	5
Total	**15**

Unit IV	
Topics to be Covered	**No. of Hours**
Write a java Program using Cookies Concept	5
Design a Purchase Order From Using HTML and JSP	5
Prepare a Employee pay slip Using JSP	5
	15

Unit V	
Topics to be Covered	**No. of Hours**
Write a Program in JSP by using Session Object	5
Write a program to build a simple Client-Server application using RMI	5
Total	**10**

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: INFORMATION TECHNOLOGY	**Programme: M.Sc., CS**
Course Code: 20PCSC41	**Staff Name: K. A. Sheik Fareed, R. Neshana, Z. Abdul Basith**
Course Name: SOFTWARE ENGINEERING	

Unit I	
Topics to be Covered	**No. of Hours**
Evolving Role of Software	1
Changing Nature of Software Legacy Software	1
Software Myths	1
Prescriptive Models	1
The Water Fall Model	3
Incremental Process Models	2
Evolutionary Process Models.	2
	2
Total	**12**

Unit II	
Topics to be Covered	**No. of Hours**
Software Engineering Practice, Communication Practices	1
Planning Practices	1
Modeling Practices and Construction Practice	1
A Bridge to Design and Construction	1
Requirements Engineering Tasks	1
Eliciting Requirements, Developing Use – Cases	2
Building the Analysis Model	1
Requirements Analysis and Modeling Approaches	2
Data Modeling Concepts	1
Object Oriented Analysis – Scenario	1
Based Modeling, Flow Oriented Modeling and Class Based Modeling	2
Creating a behavioral Model	1
Total	**15**

Unit III	
Topics to be Covered	**No. of Hours**
Design within the Context of Software Engineering	1
Design Process and Design Quality	2
Design Concepts, Models , Pattern Based Software Design	2
Software Architecture	1
Architectural Styles and Patterns, Architectural Design	1
Assessing Alternative Architectural Design	1

Mapping Data Flow into a Software Architecture	1
What is a Component	1
Designing class based Components- Conducting Component	1
Level Design. Object Constraint Language	1
Designing Conventional Components.	1
Rules, User Interface Analysis and Design	1
Interfaces Analysis Interface Design steps – Design Evaluation	1
	2
Total	**16**

Unit IV

Topics to be Covered	No. of Hours
A Strategic Approach to Software Testing – Strategic Issues – Test Strategies	2
Conventional Software – Test Strategies for Object Oriented Software	1
Validation Testing – System Testing – The Art of Debugging	2
Testing Fundamentals, Black - Box and White Box Testing	2
Base path, control structure and block box testing	2
Object Oriented Testing Methods	1
Testing Methods Applicable at the Class Level	1
Interclass Test Case Design	2
Testing for Specialized Environments, Architectures and Applications	2
Testing Pattern.	1
Total	**16**

Unit V

Topics to be Covered	No. of Hours
Software Quality : Framework for Product Metrics, Analysis Model Metrics	2
Metrics for the Design Model- Metrics for Source Code	2
Metrics for Testing- Metrics for Maintenance	2
Attributes of Web-Based Systems and Applications	1
WebApp Engineering Layer	1
The Web Engineering Process and Practices	1
Formulating Web-Based Systems	1
Planning for Web Engineering Projects and Team	2
Project Management Issues for Web Engineering	2
Metrics for Web Engineering and WebApp for WebApp Projects.	2
Total	**16**

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TEACHING PLAN

For the Academic Year 2023-2024 (Even Semester)

Department: INFORMATION TECHNOLOGY	**Programme: M.Sc., CS**
Course Code: 20PCSE41	**Staff Name: C SHEIK MYDEEN**
	A K JENARTHANAN
	Dr. J THASLEEN FATHIMA
Course Name: Computer Graphics and Multimedia	

Unit I	
Topics to be Covered	**No. of Hours**
Computer graphic applications	1
Display System	2
Types of GU	3
Principles for good GUI Design	2
DDA Algorithm	2
Bresenham's Line Drawing Algorithm	2
Bresenham's Circle Generation Algorithm Polygon Filling	3
Total	**15**

Unit II	
Topics to be Covered	**No. of Hours**
Window to Viewport Mapping	3
Sutherland Cohen Subdivision Line Clipping Algorithm	3
Midpoint Subdivision AlgorithmMidpoint Subdivision Algorithm	3
Transformation of points	3
2D Rotation	3
Total	**15**

Unit III	
Topics to be Covered	**No. of Hours**
Representation of 3D object in Matrix form	3
3D Reflectio	2
3D Viewing	2
Orthographic Projection	2
Z Buffer Algorithm	3
A Buffer Algorithm	3
Total	**15**

Unit IV	
Topics to be Covered	**No. of Hours**
Characteristics of Multimedia Presentation	2
Uses of Multimedia	2

Cathode Ray Tube	2
Video Adapter Cable	3
Unicode Standard	3
Text Compression	1
Color Management Systems	2
Total	**15**

Unit V

Topics to be Covered	**No. of Hours**
Fundamental Characteristics of sound – Elements of audio systems	1
MIDI	1
Audio File formats and CODECs	2
Video signal format	2
Lossless Compression Techniques	2
Lossy Compression Techniques	2
JPEG Image Coding Standard	2
MPEG Standards Overview	3
	2
Total	**15**

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TEACHINGPLAN

For the Academic Year 2023-24 (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.ofHours**
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.ofHours**
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.ofHours**
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.ofHours**
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	
Topicsto becovered	**No.ofHours**
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 2023-24 (EVEN SEMESTER)

Department: B.Com Banking	**Programme: B.Com Banking**

Course Code:20UCBC41	**Staff Name:Dr.S.Thowfeek Khan and R.Gulam Riyaz**

Course Name: Banking Law and Practice

Unit: I	
Topicsto becovered	**No.ofHours**
Meaning and Definition of Banker	**2**
Types of bankers	**4**
Relationship between Banker and customer	**4**
Types of customers	**2**
Difference between Banker and customer	**3**
Total	**15**

Unit: II	
Topicsto becovered	**No.ofHours**
Meaning and Definition of Deposit	**4**
Types of Deposit	**4**
Types of bank Accounts	**2**
Types of Crossing	**2**
Difference between Cheque and Bill of exchange	**3**
Total	**15**

Unit: III	
Topicsto becovered	**No.ofHours**
Meaning and Definition of Marking	3
Types of Marking	3
Payment of Honour Cheque	3
Payment in due course	4
Holder in due course	2
Total	**15**

Unit: IV	
Topicsto becovered	**No.ofHours**
Meaning and Definition of Collecting banker	4
Collection of Cheque	2
Employment of funds	3
Types of Negligence	4
Liquidity, Profitability and Safety.	2
Total	**15**

Unit: V	
Topicsto becovered	**No.ofHours**
Loans and Advances	2
Recent development in Banking	5
Meaning and definition of Mutual Funds	4
Types of Mutual Funds	2
Kinds of Loans and Advances.	2
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (ODD / EVEN SEMESTER)

Department: Commerce (Banking)	**Programme: B.Com Banking**
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**
Monetary policy, objectives, Neutrality of money	**3**
Exchange rate stability, price stability	**3**
Full employment and economic growth	**3**
Choosing between conflict objectives	**3**
Role of monetary policy in developing economy	**3**
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
The reserve bank of India, evolution, organization, central board and local board	**3**
Internal organization and management, banking department	**3**
Issue department and department in the central office	**3**
The RBI as currency authority, origin of note issue, issue of currency	**3**
RBI as banker, adviser to the central and state government, RBI as a clearing house	**3**
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Promotion functions of the RBI	**3**
RBI and rural credit	**3**
RBI and Industrial credit	**3**
RBI and Export credit	**3**
RBI and Exchange control	**3**
Total	**15**

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Uthamapalayam, Theni District 625 533.

TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: B.Com Banking	**Programme: B.Com Banking**

Course Code:23UCBSE21	**Staff Name:Dr.N.Thahira and 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 2023-24 (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	
Topicsto becovered	No.ofHours
Introduction about Computer	2
Components of MS Word	2
Features of MS Word	2
Total	6

Unit: II	
Topicsto becovered	No.ofHours
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	6

Unit: III	
Topicsto becovered	No.ofHours
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	
Topicsto becovered	No.ofHours
Introduction about MS Excel	1
Components of MS Excel	2
Types of Charts	3
Total	6

Unit: V	
Topicsto becovered	No.ofHours
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 2023-24 (ODD / EVEN SEMESTER)

Department: B.Com, Banking	**Programme: UG**
Course Code: 23UCBCC22	**Staff Name: Dr .M.KAJA MOHIDEEN**
Course Name: BANKING LAW & 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**
Branch Banking system and unit banking system	**3**
Universal banking inclusion	**3**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Central banking	**3**
Central banking vs commercial banking	**3**
Function of Central banking	**3**
Various types of commercial banking	**3**
Role of banks in economic development	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Types of accounts CASA	3
Types of deposit	3
Loans and advances	3
Repo rate& reverse repo rate	3
Securities of lending	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Negotiable instruments Act	3
Types of Negotiable instruments	3
Crossing of cheques	3
Endorsement of cheques	3
Statutory protection under section 131	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Digital banking meaning	3
E- banking and financial services	3
Internet banking vs traditional banking	3
Mobile banking	3
National electronic funds transfer	3
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (ODD / EVEN SEMESTER)

Department: Commerce (Banking) **Programme: UG**

Course Code: 20UCBC42 **Staff Name: Dr. H. Anis Fathima**

Course Name: Principles of Management Accounting

Unit: I	
Topics to be covered	**No. of Hours**
Management Accounting, Meaning, Function, Role, Scope, Objectives and Limitations	**4**
Management Accounting Vs Financial Accounting, Management Accounting Vs Cost Accounting, Tools and Techniques of Management Accounting.	**3**
The Emerging Pattern and Management Information System.	**2**
Analysis and Interpretation of Financial Statements	**4**
Comparative Financial Statements, Common Size Statements and Trend Analysis	**5**
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Ratio Analysis, Meaning, Nature, Interpretation.	**2**
Classification of Ratios and Computation of Ratios	**2**
Liquidity, Solvency and Profitability	**6**
Fund Flow Statement	**4**
Cash Flow Statement	**4**
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Marginal Costing	**4**
Break Even Analysis	**6**
Profit Planning	**4**
Cost Volume Profit Analysis	**4**
Total	**18**

Unit: IV	
Topics to be covered	**No. of Hours**
Budget and Budgetary Control, Meaning, Concept and Objectives	**2**
Advantages and Limitations of Budgets	**1**
Budgetary Controls, Classification and Preparation of Budgets	**3**
Sales Budget, Selling and distribution overhead budget, Production Budget	**6**
Raw Materials and Raw Materials Procurement Budget, Cash Budget and Flexible Budget	**6**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Standard Costing, Meaning, Concept and Essentials for an effective system of Standard Costing	**4**
Variance Analysis	**4**
Classification of Variances	**10**
Total	**18**

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TEACHING PLAN
For the Academic Year 2023-24 (ODD / EVEN SEMESTER)

Department: B.Com, Banking	**Programme : UG**

Course Code: 20UCBC43	**Staff Name: Dr .M.KAJA MOHIDEEN**

Course Name: FINANCIAL ACCOUNTING -IV

Unit: I	
Topics to be covered	**No. of Hours**
Partnership accounts	**4**
Appropriation of profits	**4**
Past adjustments and guarantee	**4**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Admission of partner	**4**
Adjustment of undistributed profits	**4**
Revaluation of assets and liabilities	**4**
Treatment of goodwill	**4**
Total	**16**

Unit: III	
Topics to be covered	**No. of Hours**
Retirement of partner	4
Transfer of balance due to retired partner	4
Death of a partner	4
Treatment of joint life policy	4
Deceased partner	4
Settlement of amount to deceased partner	4
Total	**24**

Unit: IV	
Topics to be covered	**No. of Hours**
Amalgamation	4
Amalgamation of firms	4
Sale to a company	4
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Dissolution of partnership	2
Accounting treatment	2
Insolvency of partners	2
Garner vs Murry	2
Piecemeal distribution	3
Total	**11**

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TEACHING PLAN
For the Academic Year 2023-24 (ODD / EVEN SEMESTER)

Department: Commerce (Banking)	**Programme: B.Com Banking**

Course Code: 20UCB44	**Staff Name: Dr. R. SANKARANARAYANAN**

Course Name: CENTRAL BANKING

Unit: I	
Topics to be covered	**No. of Hours**
Central banking, Evolution, definition, present position of central banking	**3**
Functions of a central bank, central bank as a bank issue,	**3**
government's banker, Agent and adviser	**3**
custodian of cash reserves of commercial banks	**3**
Bank of rediscount and lender of last resort	**3**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Central bank as the controller of credit	**4**
Bank rate policy, open market operations	**4**
Variable reserve requirements	**4**
Other methods of credit control	**3**
Total	**15**

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
Per capita 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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TEACHINGPLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: B.Com Banking	**Programme: B.Com Banking**

Course Code: 20UCBA41	**Staff Name: Dr.N. Thahira and Dr.S.Thowfeek Khan**

Course Name: Business Mathematics

Unit: I	
Topics to be covered	**No. of Hours**
Definition and Elements of Set Theory	**3**
Problems in Roster Method and Rule Method	**3**
Types of sets, Problems in Union and Intersection	**3**
Problems in Sub Sets, Complements, Difference of two sets and Family of sets	**3**
Venn Diagram and De-Morgan's Law	**3**
Total	**15**

Unit: II	
Topics to be covered	**No. of Hours**
Problems in Positive and Fractional Indices	**3**
Problems in Logarithm	**3**
Problems in Common Logarithms	**3**
Problems in Natural Logarithms	**3**
Characteristics and Mantissa and Rules to write	**3**
Total	**15**

Unit: III	
Topics to be covered	**No. of Hours**
Simple Interest and Compound Interest	3
Depreciation and Present Value	3
Discounting and Face Value of Bills	3
Banker's Discount, Gain, Normal due date and Legal Due date	3
Calculation of period for Banker's Discount and True Discount	3
Total	**15**

Unit: IV	
Topics to be covered	**No. of Hours**
Differential Calculus, Sum Rule, Product Rule and Quotient Rule	3
Simple Problems in Rules	3
Maxima and Minima in Single Variable Cases	3
Integral Calculus and Rules	3
Simple problems in Integral Calculus	3
Total	**15**

Unit: V	
Topics to be covered	**No. of Hours**
Determinant and Properties	3
Matrices, Addition and Multiplication	3
Matrix Inversion	3
Rank of Matrix	3
Testing Consistency of Equations	3
Total	**15**

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce (Banking) **Programme: B.Com Banking**

Course Code: 20UCBS41 **Staff Name: Dr. H. Anis Fathima**

Course Name: Corporate Communication

Unit: I	
Topics to be covered	**No. of Hours**
Meaning and objectives of Communication and its importance	1
Overcoming barriers to business Communication	1
Communication Process, Barriers	2
Communication approaches	1
Recent trends in Communication	1
Total	6

Unit: II	
Topics to be covered	**No. of Hours**
Format of Business Letter	1
Application and Sales Letter	2
Circular and Enquiry	1
Offer and Quotation	1
Order, Complaint and Adjustment and Collection Letters	1
Total	6

Unit: III	
Topics to be covered	**No. of Hours**
Correspondence of company secretary with shareholders	1
Correspondence of company secretary with Directors	1
Company meetings, Drafting agenda for board meeting	1
Company meetings	2
Drafting minutes of meeting	1
Total	6

Unit: IV	
Topics to be covered	**No. of Hours**
Report Drafting	2
Forms	1
Structure	1
Types	1
Drafting of Sales Report	1
Total	6

Unit: V	
Topics to be covered	**No. of Hours**
Electronic media in communication	2
Telecommunication	1
Teleconferencing	1
E-data handling	1
Green initiatives	1
Total	6

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TEACHING PLAN
For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce(Banking) **Programme: UG**

Course Code:20UCBC61 **Staff Name: Dr. H. Anis Fathima**

Course Name: Income Tax Law & 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 2023-24 (ODD / EVEN SEMESTER)

Department: B.Com, Banking	**Programme : UG**

Course Code: 20UCBC62	**Staff Name: Dr .M.KAJA MOHIDEEN**

Course Name: RETAIL MARKETING

Unit: I	
Topics to be covered	**No. of Hours**
Introduction	**3**
Retail marketing	**3**
Retailing as an activity	**2**
Consumer behavior	**2**
Retail operations	**2**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Management of service	**3**
Management of quality in retailing	**3**
Retail marketing mix	**3**
Retail product	**3**
Merchandise management	**3**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Retail pricing	**3**
Retail promotion	**3**
Retail logistics	**3**
Retail distribution	**3**
Total	**12**

Unit: IV	
Topics to be covered	**No. of Hours**
Methods and approaches to retail	**2**
Marketing planning	**2**
Retail location strategies	**2**
Retail decisions	**3**
Management of a retail brand and its applications	**3**
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Consumerism and ethics in retailing	**4**
International retailing	**4**
Future of retailing	**4**
Total	**12**

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For the Academic Year 2023-24 (ODD / EVEN SEMESTER)

Department: B.Com, Banking	**Programme: UG**
Course Code: 20UCBC63	**Staff Name: Dr .M.KAJA MOHIDEEN**
Course Name: FINANCIAL MANAGEMENT	

Unit: I	
Topics to be covered	**No. of Hours**
Financial management	**4**
Organization of finance section	**4**
Role and function of Financial manager	**4**
Total	**12**

Unit: II	
Topics to be covered	**No. of Hours**
Capital budgeting	**4**
Average rate of return	**4**
Internal rate of return	**4**
Total	**12**

Unit: III	
Topics to be covered	**No. of Hours**
Capital structure	**4**
Analysis of leverage	**4**
Assumptions	4
Total	12

Unit: IV	
Topics to be covered	No. of Hours
Working capital	4
Classification of working capital	4
Factors determining Working capital requirement	4
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Dividend	**4**
Dividend policy	**4**
Classification of dividend	**4**
Total	**12**

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For the Academic Year 2023-24 (EVEN SEMESTER)

Department: Commerce (Banking)	Programme: B. Com (Banking)

Course Code:20UCBC64	Staff Name: Dr. N. Thahira

Course Name: Auditing

Unit: I	
Topicsto becovered	No.ofHours
Meaning of Auditing	2
Definition of Auditing	1
Functions of Auditing	4
Types of Auditing	4
Advantage and Disadvantage of Auditing	4
Total	15

Unit: II	
Topicsto becovered	No.ofHours
Meaning of Audit Report	2
Types of Audit Report	4
Features of Audit Report	1
Audit Procedures	4
How to file an Audit	4
Total	15

Unit: III	
Topicsto becovered	No.ofHours
Meaning of Internal Check	2
Definition of Internal Check	1
Types of Vouching	4
Importance of Vouching	4
Features of Vouching	4
Total	15

Unit: IV	
Topicsto becovered	No.ofHours
Verification of Assets and Liabilities	2
Valuation of Assets and Liabilities	1
Difference between Auditing Vs Accountancy	4
Difference between Internal Audit Vs External Audit	4
Auditors Duty	4
Total	15

Unit: V	
Topicsto becovered	No.ofHours
Liabilities of Auditor	2
Liabilities for Negligence of an Auditor	4
Liability to Third Party	4
Legal Position of an Auditor	1
Criminal Liability	4
Total	15

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TEACHING PLAN

For the Academic Year 2023-24 (EVEN SEMESTER)

Department: B.Com Banking	Programme: B.Com Banking

Course Code:20UCBE62	Staff Name:Dr.S.Thowfeek Khan and Dr.H.Anis fathima

Course Name: Group Discussion

Unit: I	
Topics to be covered	No. of Hours
Meaning of Self-Assessment	4
How to Prepare own Bio-data	4
Types of Resumes	1
Total	9

Unit: II	
Topics to be covered	No. of Hours
Meaning of Group Discussion	3
Features of Group Discussion	3
Functions of Group Discussion	3
Total	9

Unit: III	
Topics to be covered	No. of Hours
Types of Bio-data	4
Difference between Resume Vs Bio-data	4
Difference between Resume Vs Curriculum Vittate	1
Total	9

Unit: IV	
Topics to be covered	No. of Hours
Hoe to face Interview	3
Types of Interviews	4
Dress Code in the Interview	2
Total	9

Unit: V	
Topics to be covered	No. of Hours
Post Discussion Behavior	3
Merits and Demerits of Group Discussion	4
Types of Group Discussion	
Total	9

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For the Academic Year 2023-24 (EVEN SEMESTER)

Department: B. Com Banking	Programme: B. Com Banking

Course Code: **20UCBS61**	Staff Name: Dr. S. Thowfeek Khan and Dr. R. Sankaranarayanan

Course Name: ENTREPRENEURIAL DEVELOPMENT

Unit: I	
Topics to be covered	No. of Hours
Meaning of Entrepreneur	2
Functions of Entrepreneur	2
Types of Entrepreneurs	2
Total	6

Unit: II	
Topics to be covered	No. of Hours
Factors Affecting Entrepreneurial Growth	2
Difference between Entrepreneur Vs Intrapreneur	1
Theory of Need Achievements	3
Total	6

Unit: III	
Topics to be covered	No. of Hours
Functions of DIC	1
Objectives of KVIC	1
Objectives of SEZ	4
Total	6

Unit: IV	
Topics to be covered	No. of Hours
Starting of New Venture of Business	1
Source of Business Idea	2
Idea Processing and Selection	3
Total	6

Unit: V	
Topics to be covered	No. of Hours
Meaning of Project Report	1
Types of Project Report	1
Contents of Project Report	2
Types of Feasibility	2
Total	6

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TEACHING PLAN

For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 23UCACC21	**Staff Name:** **Mr. K.M.Shibhathullah** **Dr. K. Mohammed Abdul Kader**
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 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 23UCACC22	**Staff Name: Mr. A. JAVITH RAJA**
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 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 23UCAGE2P	**Staff Name: Mr. R. ABIRAMAKRISHNAN, 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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Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 23UCASE21	**Staff Name: Dr. K. Mohammed Abdul Kader**
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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Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 23UCASE2P	**Staff Name: Ms. S. ANGUSELVI**
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 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 20UCAC41	**Staff Name: Mrs. M. PAPATHI**
Course Name: MARKETING MANAGEMENT	

Unit: I

Topics to be covered	No. of Hours
Definition and Meaning of Marketing -Modern Concept of Marketing	3
Functions of Marketing – Marketing -Management – Meaning and Importance	4
Marketing Mix (Product – Price – Place Promotion) – Elements of Marketing Mix	4
Total	**11**

Unit: II

Topics to be covered	No. of Hours
Consumer Behavior – Factors influencing Consum er behavior	3
Market Segmentation Meaning Importance Bases	3
Products – Classification and Development of New Product – Product Diversification, -	3
Product Life Cycle (PLC)	2
Branding – Brand loyalty – Packaging	3
Total	**14**

Unit: III

Topics to be covered	No. of Hours
Pricing: Meaning and Objectives	2
Factors Affecting Pricing Decisions - Procedure for Price Determination	5
Kinds of Pricing	3
Total	**10**

Unit: IV

Topics to be covered	No. of Hours
Channels of Distribution – Meaning and Importance – Factors Determining Choice of Channel	4
Wholesalers– Types of Wholesaler	5
Functions Retailers - Types of Retailer –Functions - Direct Marketing - E- Marketing	5
Total	**14**

Unit: V

Topics to be covered	No. of Hours
Sales Promotion – meaning – definition –Importance	2
Elements of Sales promotion	3
Advertising –Meaning –Types of Advertising– Advertising media - Personal Selling – publicity- Exhibition	6
Total	**11**

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For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE CA	Programme : B.COM CA
Course Code: 20UCAC42	Staff Name: Mr. P. SEENIVASAN Dr. K. MOHAMMED ABDUL KADER Mr. A. JAVITH RAJA
Course Name: MANAGEMENT ACCOUNTING	

Unit: I	
Topics to be covered	**No. of Hours**
Management Accounting – Meaning – Concept , Function, Role– Scope – Objectives & Limitations	2
Management Accounting Vs Financial Accounting – Management accounting Vs Cost Accounting _	3
Tools and Techniques of Management accounting – Theemerging pattern – Management Information System.	5
Total	**10**

Unit: II	
Topics to be covered	**No. of Hours**
Ratio Analysis – Meaning - Nature, interpretation and classification of ratios	5
Computation of Ratios	5
Liquidity,	5
Solvency and Profitability	5
Total	**20**

Unit –III	
Topics to be covered	**No. of Hours**
Funds Flow Statement	10
Cash Flow Statement as per AS3 (simple problems only).	10
Total	**20**

Unit-IV	
Topics to be covered	**No. of Hours**
Marginal Costing and Break Even Analysis	6
Profit Planning	7
Cost Volume Profit Analysis(excluding Income determination under Absorption costing, and Application ofmarginal costing for managerial decision)	7
Total	**20**

Unit-V	
Topics to be covered	**No. of Hours**
Budget and Budgetary Control – Meaning – Concept,Objectives, Advantages and Limitation of Budgets and Budgetary controls – Classification and Preparation of Budgets	5
–Sales Budget, Production Budget, Cash Budget and Flexible Budget – Zero Base Budgeting.	5
Standard Costing – Meaning, Concept and Essentials foran effective system of Standard Costing – Variance Analysis – Classification of Variances	5
Material and Labour Variances only (Simple Problems only)	5
Total	20

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For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE CA	Programme : B.COM (CA)
Course Code: 20UCAC4P	Staff Name: Mr. R. ABIRAMAKRISHNAN Mr. M. ABBAS MANTHRI Ms. S. ANGUSELVI Mr. A. JAVITH RAJA
Course Name: VISUAL BASIC - LAB	

Topics to be covered	No. of Hours
Develop an Application in VB to test the Properties and Methods of Various Standard Controls.	9
Develop to Implement the Mouse and Key Events.	9
Total	18
Topics to be covered	**No. of Hours**
Develop a Program to Implement the Graphics With Timer Control.	9
Create a Report for Student Information	9
Total	18
Topics to be covered	**No. of Hours**
Create an Application to Implement Editor Like Notepad.	9
Preparation of Interest table using Flex grid control	9
Total	18
Topics to be covered	**No. of Hours**
Design and Develop an Application for Inventory Control.	9
Prepare Electricity Bill Data control.	9
Total	18
Topics to be covered	**No. of Hours**
Prepare Mark sheet using Data control.	9
Hotel Management using Menus in MDI Form and Two Sub Forms.	9
Total	18

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Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme : B.Com (CA)**
Course Code:20UCAC43	**Staff Name: Mr. K. M. SHIBHATHLLAH**
Course Name: PARTNERSHIP ACCOUNTS	

Unit: I	
Topics to be covered	**No. of Hours**
Partnership Accounts, Partnership, Definition	3
Provision relating to Partnership Accounting	3
Capital and Current Accounts of partners –Fixed and Floating	4
Appropriation of profits	4
Past adjustments and guarantee	4
Total	**18**

Unit: II	
Topics to be covered	**No. of Hours**
Admission of partner	3
Calculation of new profit sharing ratio	3
Adjustment of undistributed profits, losses and reserves	3
Revaluation of Assets and Liabilities	3
Treatment of Goodwill	3
Adjustment of capitals of partners after admission of a partner	3
Total	**18**

Unit: III	
Topics to be covered	**No. of Hours**
Retirement of Partner	4
Transfer of balance due to retired partner	4
Death of a partner	4
Treatment of joint life policy	4
Settlement of amount due to legal	4
Total	**20**

Unit: IV	
Topics to be covered	**No. of Hours**
Amalgamation of firms	7
Sale to a Company	7
Total	**14**

Unit: V	
Topics to be covered	**No. of Hours**
Dissolution of Partnership	2
Accounting Treatment	2
Insolvency of a Partner or partners	2
Decision in Garner vs. Murray case	2
Insolvency of all partners	2
Gradual Realization of Assets and	2
Piecemeal distribution of Cash	2
Proportionate capital method	3
Maximum loss method	3
Total	**20**

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For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 20UCAA41	**Staff Name: Dr. K. DEEPALAKSHMI,**
Course Name: BUSINESS MATHEMATICS	

Unit: I	
Topics to be covered	**No. of Hours**
Elements of Set theory – Definition – Symbols	3
Roster method and Rule method – Types of sets- Union and Intersection	4
Sub sets – Complements – Difference of two sets – Family of sets	4
Venn Diagram.	2
De- Morgan's law	2
Total	15
Unit: II	
Topics to be covered	**No .of Hours**
Indices – Positive – Fractional	4
Operation with power function. Logarithms	4
Definition – Exponential forms – Laws of logarithms	4
Change of base – Formula – Common logarithmsand natural logarithms	4
Characteristics and mantissa – Rules to write – Practical problems	4
Total	**20**
Unit: III	
Topics to be covered	**No. of Hours**
Commercial Arithmetic – Interest – Simple – Compound – Normal rate – Effective rate	5
Depreciation – Present value – Discounting of bills – Face value of bills - Banker's discount	5
Banker's gain – Normal due date – Legal due date – Calculation of period for banker's discount and true discount.	5
Mathematics for competitive examinations- time and work, time	5
Distance and time and speed- clock problems- finding the day.	5
Total	**25**
Unit: IV	
Topics to be covered	**No. of Hours**
Hours Probability – definition	3
Calculation of probability – Theorems of probability	3
(Classical approach only). Theoretical distribution	3
Binomial, Poisson	3
Normal distribution	3
Total	**15**
Unit: V	
Topics to be covered	**No .of Hours**
Determinants – Properties – Product – Matrices	3
Types – Addition – Multiplication – Matrix Inversion	3
Solving a system of equation using matrix inversion	3
Rank of matrix	3
Testing consistency of equations	3
Total	**15**

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Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 20UCAS41	**Staff Name: Ms. S. ANGUSELVI**
Course Name: COMMERCE PRACTICAL	

Unit: I	
Topics to be covered	**No. of Hours**
Filling up of application forms for admission in Cooperative Societies	2
Filling up of loan application forms and Deposit Challan.	2
Filling up of jewel loan application Format, Procedure for releasing of Jewellery in jewel loans and repayment	2
Total	**6**
Unit: II	
Topics to be covered	**No. of Hours**
Preparation of Agenda and Minutes of Meeting –both general body and board of directors (Student are asking to write agenda and Minutes of their own and should not use printed format)	3
Using Cost Sheets	3
Total	**6**
Unit: III	
Topics to be covered	**No. of Hours**
Preparing of an advertisement Copy, Collection of advertisement in dailies and journals, critically evaluating the advertisement copy	3
Filling up an application for Permanent Account Number	3
Total	**6**
Unit: IV	
Topics to be covered	**No. of Hours**
Procedure for opening a Dmat Account and its uses-SIP-Mutual Fund-E marketing	6
Total	**6**
Unit: V	
Topics to be covered	**No. of Hours**
Fund transfer-NEFT-RTGS-IMPS-Crypto currency	6
Total	**6**

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Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 20UCAC61	**Staff Name:** **Mr. P. SEENIVASAN** **Dr. K. DEEPALAKSHMI**
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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TEACHING PLAN

For the Academic Year 2023-24 (~~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 MANTHRI**
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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TEACHING PLAN

For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code:: 20UCAC63	**Staff Name: Mr. K. M. SHIBHATHULLAH**
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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TEACHING PLAN

For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 20UCAA61	**Staff Name: Dr. K. MOHAMMED ABDUL KADER**
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 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: B.Com (CA)**
Course Code: 20UCAE61	**Staff Name: Mrs. M. PAPATHI** **Mr. A. JAVITH RAJA**
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 2022-23 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE CA	**Programme : B.COM CA**
Course Code: 20UCAS61	**Staff Name:** **Mr. M. ABBAS MANTHRI** **Ms. S. ANGUSELVI**
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 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: M.Com (CA)**
Course Code: 23PCACC21	**Staff Name: Mrs. M. PAPATHI, 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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For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: M.Com (CA)**
Course Code: 23PCACC22	**Staff Name:** **Mr. P. SEENIVASAN** **Mr. A. JAVITH RAJA**
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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For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: M.Com (CA)**
Course Code: 23PCACC23	**Staff Name: Mr. M. ABBAS MANTHIRI, Ms. S. ANGUSELVI**
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**

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TEACHING PLAN

For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: M.Com (CA)**
Course Code: 23PCADE21	**Staff Name: Mr. R. ABIRAMAKRISHNAN**
Course Name: TECHNOLOGY INBANKING	

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 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: M.Com (CA)**
Course Code: 23PCAGE2P	**Staff Name: Mr. M. ABBAS MANTHIRI, Ms. S. ANGUSELVI**
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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For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	Programme: M.Com (CA)
Course Code: 20PCAC41	Staff Name: Mr. P. SEENIVASAN Dr. K. MOHAMMED ABDUL KADER Mr. K. M. SHIBHATHULLAH Mr. A. JAVITH RAJA

Course Name: ADVANCED COST AND MANAGEMENT ACCOUNTING

Unit-I

Topics to be covered	No .of Hours
Introduction – Types of Cost – Methods of Costing	3
Types of Costing – Advantages andLimitation of Costing	3
Preparation of Cost Sheet – Job Costing	3
Features and Objectives of JobCosting – Pre-Requisites	3
Advantages and Disadvantages of Job Costing	3
Total	**15**

Unit-II

Topics to be covered	No. of Hours
Contract Costing – Features – Sub Contracting	4
Escalation Clause – Process Costing.	4
Normal Loss and Abnormal Loss	4
Transfer of Stock – Joint Products	4
By Products – Equivalent Production	4
Total	**20**

Unit-III

Topics to be covered	No. of Hours
Reconciliation of Costing and Financial Results	4
Items of Financial Accounts only – Items of a Cost Account only.	4
Management Accounting - Nature, Scope and Objectives, Management Accounting vs Financialand Cost Accounting	4
Ratio Analysis – Balance Sheet Ratios	4
Profit and Loss Account Ratios	4
Total	**20**

Unit-IV

Topics to be covered	No .of Hours
Fund Flow and Cash Flow Statement – Importance	4
Steps in Preparation, Managerial uses – Budgetary Control – Definition	4
Advantages and Disadvantages – Classification of Budgets	4
Fixed and Flexible Budget – Sales Budget – Production Budget	4
Labour Budget – Cash Budget- Master Budget – ZBB	4
Total	**20**

Unit- V

Topics to be covered	No. of Hours
Marginal Costing – Main Features of Marginal Costing – Advantages and Disadvantages	3
Cost Volume Profit Analysis- Break Even Analysis	3
Profit Volume Ratio –Margin of Safety	3
Decision to Make or Buy	3
Selection of Profitable Product Mix	3
Total	**15**

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For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE CA	**Programme : M.COM CA**
Course Code: 20PCAC42	**Staff Name: Mrs. M.PAPATHI**
Course Name: CUSTOMER RELATIONSHIP MANAGEMENT	

Unit- I	
Topics to be covered	**No. of Hours**
Introduction to CRM -Meaning- Need Nature – Importance of CRM	3
Importance of CRM –Reasons for loss of customers	4
Strategies to prevent defection and recover lapsed customers	4
CRM process CRM and Marketing organisation.	4
Total	15
Unit-II	
Topics to be covered	**No. of Hours**
Implementation of Customer Relationship Management Strategies for Building relationship	6
CRM and Competitors, Cost Supply Chain, Employees, Partnership with customers – organisingcustomer clubs -Complaints monitoring cell	6
Implementing CRM – Customer Acquisition – Inputs.	4
Requisites for effective acquisition – Attention on adoption process	4
Total	20
Unit –III	
Topics to be covered	**No. of Hours**
Customer Interaction Management Routes to CIM.	3
Factors influencing CIM – Electronic Data Interchange (EDI)	5
Specific skills for CIM – Customer Retention	5
Need Specific skills for CIM – Customer Retention	3
Need – Approaches – Stages of Retention in the customer life cycle	4
Total	20
Unit-IV	
Topics to be covered	**No. of Hours**
e-CRM – Evolving e- CRM	4
CRM vs. e-CRM	5
Need to move to online CRM – Basic Requirements of e-CRM	6
e- CRM features – Future of e-CRM.	5
Total	20
Unit-V	
Topics to be covered	**No. of Hours**
Enterprise Resource Planning Meaning Characteristics	3
Benefits – Disadvantages – ERP and modern enterprise	4
CRM - ERP Integration	4
Impact of ERP on vendors, companies and customers	4
Total	15

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TEACHING PLAN

For the Academic Year 2022-23 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE CA	Programme: M.Com (CA)
Course Code: 20PCAC43	Staff Name: Mr. R. ABIRAMAKRISHNAN Mr. M. ABBAS MANTHIRI
Course Name: E-BUSINESS APPLICATION	

Unit-I	
Topics to be covered	No. of Hours
Introduction to E-Commerce-Defining E- Commerce	3
Features, Importance, Objectives of E-commerce- E-Commerce industry framework	4
Types of E-Commerce- Levels- Reasons for growth of E-commerce	5
Applications of E-Commerce-E-Commerce and E-Business	3
Total	15

Unit-II	
Topics to be covered	No. of Hours
Defining E-Business idea	2
E-Business success-Advantages of E-Business	3
Electronic payment methods-overview of EPS	4
Modes of E-payment-(Electronic Debit and Credit card payments)	2
E-Cash-E-Cheque	2
Smart cards-E-Money/cash	2
Total	15

Unit–III	
Topics to be covered	No. of Hours
E-Banking Introduction Concepts and Meaning.	4
Electronic delivery channels-(Automated teller machine (ATM)*	4
Electronic Fund Transfer (EFT)	4
Uses-Computerization in clearing houses	4
Electronic Money Transfer (EMT)	4
Total	20

Unit-IV	
Topics to be covered	No. of Hours
E-Commerce security-Cybercrimes.	4
Types of security	4
Encryption-meaning-Encryption Process	4
Cryptography-Types-Digital and Electronic signature	4
Security precautions in E-Commerce	4
Total	20

Unit-V	
Topics to be covered	No. of Hours
E-Business communication	3
Importance of E-Technology	4
E-Business conferencing-Audio conferencing	4
Tele conferencing-Video Conferencing	3
Advantages and Disadvantages of types ofconferencing	3
Need for Electronic mail	3
Total	20

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TEACHING PLAN

For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	**Programme: M.Com (CA)**
Course Code:: 20PCAE42	**Staff Name: Ms. S. ANGUSELVI Mr. A. JAVITH RAJA**
Course Name: ENTERPRISE RESOURCES PLANNING	

Unit-I	
Topics to be covered	**No. of Hours**
Introduction to ERP Meaning and Definition	3
History and Evolution of ERP	3
Components of ERP Need Functions	3
Role of ERP Characteristics	3
Importance – Features Benefits of ERP	3
Total	**15**

Unit-II	
Topics to be covered	**No. of Hours**
ERP systems and software Meaning Benefits of ERP software	5
ERP software selection criteria	5
Players in the ERP market	5
Procurement process for ERP package	5
Total	**20**

Unit-III	
Topics to be covered	**No. of Hours**
Business process Re-engineering Introduction to BPR	4
Objectives	2
Elements	4
Challenges	4
Success and failure factors in BPR	6
Total	**20**

Unit-IV	
Topics to be covered	**No. of Hours**
Supply chain Management Meaning	5
Objectives- Process Challenges Benefits	6
Difference between ERP and SCM	4
Total	**15**

Unit-V	
Topics to be covered	**No. of Hours**
ERP Implementation Life Cycle & Functional Modules Introduction	5
Objectives	5
Different phases of ERP Implementation	5
Functional Modules of ERP Software	5
Total	**20**

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TEACHING PLAN

For the Academic Year 2023-24 (~~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 2023-24(~~ODD~~ / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**

Course Code:20UBAC41	**Staff Name: S.ASHA BANU**

Course Name:BUSINESS LAW - II

Unit: I	
Topics covered	**No. of Hours**
Factories Act, 1948 – Inspecting Staff	3
Health-Safety – Welfare –	3
Working Houses of Adults	3
Industrial Disputes Act – Grievance Settlements – Tribunal	3
Retreatment – Penalties.	3
Total	**15 hrs**

Unit: II	
Topics covered	**No. of Hours**
Industrial Employment Act, 1946	4
Trade Unions Act, 1926	3
Standing Orders – Trade Union	4
Amalgamation and Dissolution.	4
Total	**15 hrs**

Unit: III	
Topics covered	No. of Hours
Payment of Wages Act – Inspectors	3
Advisory Boards – Payment of Gratuity	3
Employees Provident Fund Scheme	3
Pension Scheme	3
Insurance Scheme.	3
Total	15 hrs

Unit: IV	
Topics covered	No. of Hours
Workmen's compensation Act 1923,	4
Amount of compension	4
Distribution of compension	4
Enforcement of Act.	3
Total	15 hrs

Unit: V	
Topics to be covered	No. of Hours
Payment of Bonus Act – Meaning, Definition	4
Eligibility for Bonus –	4
Disqualification for bonus	4
Consumer Protection Act.	3
Total	15 hrs

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TEACHING PLAN

For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**
Course Code: 20UBAC42	**Staff Name: Mr.M.Gulam Riyaz**
Course Name: Banking Theory Law and Practice	

Unit: I	
Topics covered	**No. of Hours**
Definition of banking commercial	3
RBI and Commercial Bank	3
Industrial Development Banks (IDBI, ICICI)	3
Recent trends in commercial banks in India.	3
Central banking	3
	15

Unit: II	
Topics covered	**No. of Hours**
Definition – Banker And Customer.	3
E-Resources Relationship between banker and customer	3
opening and closing of accounts	3
book entries, special types of customers	3
Minors, Lunatic, Drunkard, Partnership firm.	3
Total	15

Unit: III	
Topics covered	**No. of Hours**
Negotiable Instrument	3
Negotiable Instrument -features	2
Negotiable Instrument – types	2

promissory note, Bill of Exchange, cheque	4
Classification of Negotiable Instruments.	4
Total	**15**

Unit: IV	
Topics covered	**No. of Hours**
Classification of Negotiable Instruments.	3
Difference between cheque and bill of Exchange	4
salient features of a cheque, drawing of a cheque, Precautions before honoring a cheque,	4
Dishonoring of a cheque. Kinds of crossing – Essentials and significance.	4
Total	15

Unit: V	
Topics to be covered	**No. of Hours**
Principles of sound ending	3
Unsecured Advances – secured Advances – forms of advances	4
Modes of charging security (Lien, Pledge, Hypothecation)	4
Guarantee and Indemnity – definition, differences between guarantee and indemnity.	4
Total	**15**

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TEACHING PLAN

For the Academic Year 2023-24(~~ODD~~ / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**

Course Code: 20UBAC43	**Staff Name: A. ABDUL HAKEEM /Dr.P.KAVIMANI**

Course Name: MANAGEMENT ACCOUNTING

Unit: I	
Topics covered	**No. of Hours**
Management Accounting – Meaning, Nature, Function.	5
Scope , Advantages and Disadvantages , Management Accounting Vs Financial Accounting	4
Cost Accounting - Financial Statement Analysis	3
Common Size Statement – Trend Analysis.	3
Management Accounting – Meaning, Nature, Function.	3
Total	**18**

Unit: II	
Topics covered	**No. of Hours**
Ratio Analysis – Meaning - Nature, interpretation.	4
classification of ratios – Computation of Ratios	5
Liquidity, Solvency and Profitability	3
Funds Flow Statement	3
Cash Flow Statement	3
Total	**18**

Unit: III	
Topics covered	**No. of Hours**
Marginal Costing	**5**
Break Even Analysis	**3**
Profit Planning	**3**
Cost Volume Profit Analysis	**3**
Application of marginal costing for managerial decision	**4**
Total	**18**

Unit: IV	
Topics covered	**No. of Hours**
Budget and Budgetary Control – Meaning – Concept, Objectives, Advantages and Limitation of Budgets and Budgetary controls.	**5**
Classification and Preparation of Budgets –Sales Budget	**4**
selling and distribution overhead budget, Production Budget, Raw Materials and Raw Materials Procurement Budget	**5**
Cash Budget and Flexible Budget.	**4**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Standard Costing – Meaning, Concept.	**4**
Essentials for an effective system of Standard Costing	**5**
Variance Analysis	**4**
Classification of Variances (material and Labour Variances only)	**5**
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**

Course Code: 20UBAC44	**Staff Name: A. ABDUL HAKEEM /Dr.P.KAVIMANI**

Course Name: COMPUTER APPLICATION IN BUSINESS- II

Unit: I	
Topics covered	**No. of Hours**
MS-Power Point – Meaning.	**5**
Presentation of MS-Power Point	**4**
Features of MS-Power Point	**3**
Inserting	**3**
Running	**3**
Total	**18**

Unit: II	
Topics covered	**No. of Hours**
MS ACCESS – Introduction to Access and Database	**5**
Creating tables	**3**
Data types	**4**
Creating Forms – Creating queries	**3**
Types of queries – Creating reports.	**3**
Total	**18**

Unit: III	
Topics covered	**No. of Hours**
Introduction to Internet - Connection of Internet	**3**
History of Internet	**5**
Uses and advantages of Interne	**3**
WWW – Web Pages	**3**
Email and Voicemail.	**4**
Total	**18**

Unit: IV	
Topics covered	**No. of Hours**
E-Commerce – Introduction	**5**
E-Commerce –definition	**4**
Nature and Scope of E-Commerce	**4**
E-Commerce Models.	**5**
Total	**18**

Unit: V	
Topics to be covered	**No. of Hours**
Electronic Payment Systems – Type	**3**
Electronic Fund Transfer	**4**
Smart Cards and Debit Cards on Internet	**5**
Electronic Data Interchange	**4**
Value Added Networks	**2**
Total	**18**

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TEACHING PLAN

For the Academic Year 2023-24(~~ODD~~ / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BBA**

Course Code:20UBAA41	**Staff Name:L.SARAVANAPRIYA**

Course Name: BUSINESS MATHEMATICS

Unit: I	
Topics covered	**No. of Hours**
Elements of Set theory – Definition – Symbol	**5**
Roster method and Rule method	**4**
Types of sets- Union and Intersection – Sub sets – Complements	**3**
Difference of two sets – Family of sets	**3**
In Venn Diagram – De- Morgan's law.	**3**
Total	**18 hrs**

Unit: II	
Topics covered	**No. of Hours**
Indices – Positive – Fractional – Operation with power function	**5**
Logarithms – Definition	**4**
Exponential forms – Laws of logarithms – Change of base	**3**
Common logarithms and natural logarithms – Characteristics	**3**
Mantissa – Rules to write – Practical problems.	**3**
Total	**18 hrs**

Unit: III	
Topics covered	**No. of Hours**
Commercial Arithmetic – Interest – Simple – Compound	5
Normal rate – Effective rate – Depreciation	3
Present value – Discounting of bills – Face value of bills	4
Banker's discount – Banker's gain – Normal due date – Legal due date – Calculation of period for banker's discount and true discount	3
Mathematics for competitive examinations- time and work, time and distance and time and speed- clock problems- finding the day	3
Total	18 hrs

Unit: IV	
Topics covered	**No. of Hours**
Differential calculus (excluding trigonometric functions) – Rules – Sum rule	5
Product rule – Quotient rule, function of a function rule (Simple problems only)	4
Maxima and Minima (Single variable cases)	5
Methods of integral calculus – Rules (Excluding integration by parts of Fractions) – Simple problems	4
Total	18 hrs

Unit: V	
Topics to be covered	**No. of Hours**
Determinants – Properties – Product – Matrices	5
Types – Addition – Multiplication	4
Matrix Inversion – Solving a system of equation using matrix inversion	4
Rank of matrix – Testing consistency of equations	5
Total	18 hrs

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TEACHING PLAN

For the Academic Year 2023-24(~~ODD~~ / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**

Course Code: 20UBAS41	**Staff Name: S.ASHA BANU**

Course Name: COMMUNICATIVE SKILLS

Unit: I	
Topics covered	**No. of Hours**
Introductory Grammar- Parts of Sentences/Speech	**2**
Noun, Adjective, Pronoun, Verb, Adverb,Preposition,	**2**
Conjunction, Interjection- Active Voice and Passive Voice	**2**
Total	**6 Hrs**

Unit: II	
Topics covered	**No. of Hours**
Introductory Grammar -Tenses and its kinds,	**2**
Degrees of Comparison,	**2**
Direct and Indirect speech	**2**
Total	**6 Hrs**

Unit: III	
Topics covered	**No. of Hours**
Communication- Characteristics,	**2**
limitations, barriers- listening skills,	**2**
Presentation skills and e-Communication.	**2**
Total	**6 Hrs**

Unit: IV	
Topics covered	**No. of Hours**
Writing Skills- Preparation of CVs (Application for jobs)	3
Official letters- Circular, Agenda, Notice, preparation of reports	3
Total	**6 Hrs**

Unit: V	
Topics to be covered	**No. of Hours**
Business Communication- Letter to vendors,	2
offers, quotation, status enquiry, orders,	2
cancellation of orders, complaints and adjustments.	2
Total	**6 Hrs**

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TEACHING PLAN

For the Academic Year 2023-24(~~ODD~~ / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BBA**

Course Code:23UBACC21	**Staff Name: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 marketingcommunication) - Definition, Process	3
Need & Significance -CRM – Importance.	2
Total	15 hrs

Unit: V	
Topics to be covered	**No. of Hours**
Sales Force Management	3
Personal Selling Process	4
Motivation, Compensation and Control of Sales Force	4
Digital Marketing: Introduction- Applications & Benefits -	4
Total	15hrs

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TEACHING PLAN

For the Academic Year 2023-24 (~~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	**2**
Cost accounting functions	**2**
Need importance and limitations	**3**
Cost concepts and classification	**3**
Cost sheets – Tenders & Quotation	**2**
Total	**12**

Unit: II	
Topics covered	**No. of Hours**
Management accounting – Meaning, nature, scope and functions	**3**
Need, importance and limitations	**2**
Management Accounting vs. Cost Accounting. Management Accounting vs. Financial Accounting	**2**
Analysis and Interpretation of financial statements – Nature, objectives, essentials and tools	**3**
Comparative Statements, Common Size statement and Trend analysis.	**2**
Total	**12**

Unit: III	
Topics covered	**No. of Hours**
Ratio Analysis – Interpretation	1
Benefits and limitations	2
Classification of ratios	3
Liquidity, Profitability, turnover	3
Cash flow and Funds flow statement	3
Total	**12**

Unit: IV	
Topics covered	**No. of Hours**
Budgets and budgetary control – Meaning, objectives	4
Merits and demerits Budgets	4
Sales, Production, flexible budgetsand cash budget	4
Total	**12**

Unit: V	
Topics to be covered	**No. of Hours**
Marginal Costing	2
CVP analysis	5
Break even analysis	5
Total	12

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TEACHING PLAN

For the Academic Year 2023-24 (~~ODD~~ / 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.	3
Total	12

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TEACHING PLAN

For the Academic Year 2023-24(~~ODD~~ / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**

Course Code:23UBASE21	**Staff Name: S.ASHA BANU**

Course Name: NME- 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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TEACHING PLAN

For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**
Course Code: 23UBASE22	**Staff Name: Dr. R. Sankaranarayanan/Mr.M.Gulam Riyaz**

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 covered	No. of Hours
Telephone Etiquette,email etiquette and DisabilityEtiquette	2
Mastering the telephone courtesy, handling rude or impatient 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 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 2023-24 (~~ODD~~ / 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 2023-24 (~~ODD~~ / 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
M M 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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For the Academic Year 2023-24 (~~ODD~~ / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**

Course Code: 20UBAC63	**Staff Name: P. Kavi Mani/ Mr.M.Gulam Riyaz**

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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For the Academic Year 2023-24(~~ODD~~/ EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	**Programme: BUSINESS ADMINISTRATION**

Course Code: 20UBAC64	**Staff Name: 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 2023-24(~~ODD~~ / EVEN SEMESTER)

Department: BUSINESS ADMINISTRATION	Programme: BUSINESS ADMINISTRATION

Course Code: 20UBAE62	Staff Name: S.ASHA BANU / Dr.R.SANKARANARAYANAN

Course Name: E-BUSINESS

Unit: I	
Topics covered	**No. of Hours**
E – Business basics – internet	4
world wide web – definition – global economy	4
advantages – disadvantages – E – Business models .	4
Total	**12 Hrs**

Unit: II	
Topics covered	**No. of Hours**
E- Business idea - the entrepreneur	3
process – factors affecting E- Business	3
E-Business plan – operational ,financing ,management plans	3
legal forms – risk management.	3
Total	**12 Hrs**

Unit: III	
Topics covered	**No. of Hours**
Operating E – Business – copy rights	3

Trademarks – front end – back end	3
E – Business – systems – technology – outsourcing	3
E – Business – marketing plan –research tools.	3
Total	**12 Hrs**

Unit: IV	
Topics covered	**No. of Hours**
Electronic payment methods – types of electronic payment –	4
credit – debit and charge card ,payment – security in E-Business –	4
Records management – security risk – remedies – network & websites	4
Total	**12 Hrs**

Unit: V	
Topics to be covered	**No. of Hours**
Designing website – planning	3
Organization structure – HTML	3
Images & multimedia – website tools – testing	3
Website bench marking – performance measurement – accuracy .	3
Total	**12 Hrs**

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Department: BUSINESS ADMINISTRATION	Programme: BUSINESS ADMINISTRATION

Course Code: 20UBA061	Staff Name: A. Asha Banu \Mr.M.Gulam Riyaz

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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