



M.M.E.S. WOMEN'S ARTS AND SCIENCE COLLEGE

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COURSE OUTCOME

		COURSE NAME	COURSE OUTCOME
B.A ENGLISH	SEMESTER I	INTRODUCTION TO LITERATURE	<ul style="list-style-type: none"> • Appreciate and the basic elements of poetry, including meter, rhyme and theme. • Gain knowledge of the elements of fiction including narrative structure, character analysis and comparison between different but related texts. • Explore the features of literary language. • Use library resource store search and develop arguments about literary works. • Work skill fully with in a team, respect co- workers, delegate work and contribute to a group project.
		INDIAN WRITING IN ENGLISH	<ul style="list-style-type: none"> • Appreciate the historical trajectory of various genres of Indian Writing in English from colonial times to till the present. • Analyse Indian literary texts written in English in terms of Colonialism, Post colonialism, regionalism, and nationalism. • Explore the role of English a medium for political a wakening and the use of English in India for creative writing. • Analyse how the sociological, historical, cultural and political context impacted the texts selected for study. • Evaluate critically the contributions of major Indian English Poets and dramatists.
		SOCIAL HISTORY OF ENGLAND-I	<ul style="list-style-type: none"> • Gain knowledge of various features of social and political history of England. • Awareness of the relation between socio-religious events and socio-political works. • Compare history with Literature. • Enable to assess the emergence. Reasons, development and the impact of social movements. • Assess the overall emergence of English society as a nation.
			<ul style="list-style-type: none"> • Demonstrate knowledge of the major social, political, philosophical, and scientific events forming the back drop for the development of early British Literature. • Synthesize, integrate, and connect information by writing essays using techniques of criticism an devaluation. • Read and discuss the themes, approaches. Styles, and contributions to the

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M.M.E.S. Women's Arts & Science College

Melvisharam - 632 509

	SEMESTER II	BRITISH LITERATURE-I	<p>development of British literature from the Medieval Period to the end of the eighteenth-century</p> <ul style="list-style-type: none"> • Distinguish between the characteristics of British Literature movements in discussing and writing about British literature. • Critically appreciate literature using standard literary terminology and other literary conventions.
		AMERICAN LITERATURE	<ul style="list-style-type: none"> • Analyze and discuss works of American literature from arrange of genres (e.g. poetry, non-fiction, slave narrative, captivity narrative, literary fiction, genre fiction, sermon, public proclamation, letters, etc.). • Identify relationships between moments in American history, Colonialism, and culture and their representation in works of American literature. • Articulate ways that American literature reflects complex historical and cultural experiences. • Produce a mix of critical, creative and/or reflective works about American literature to 1865. • Analyse and describe about American literature using standard literary terminology and other literary conventions.
		SOCIAL HISTORY OF ENGLAND-II	<ul style="list-style-type: none"> • Recognize the milestones of British History from 18th century till the modern age and can relate how these movements influence the English society and Literatures of that period. • Identify the various revolutions and movements of English society leading to form a crucial opinion for the benefit of humanity. • Examine the causes and consequences of the war of Americans and French. • Evaluate the effects of the revolutions and their impacts in literature in a better perspective. • Analyse the reforms and the development of education, transport and communication in the modern era.
	SEMESTER	BRITISH LITERATURE -I	<ul style="list-style-type: none"> • Exhibit an understanding of and appreciation for keywords in British literature, as evidenced in daily works and course discussions. • Demonstrate an understanding of periodization, theme, genre, motif, and so on, in British literature. • Establish an understanding that historical,cultural,spiritual,ethical issues, among others, shape human experiences and impact motivation • Respond to literature on important thematic consideration having to do with literary and historical milieu, culture, human responsibility, morality, ethics, and the manner and causes by which humans interact with one another.

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Melvisharam - 632 509

B.A ENGLISH	III		<ul style="list-style-type: none"> • and express about British literature using standard literary lexicon and other literary conventions
		CHILDREN LITERATURE	<ul style="list-style-type: none"> • Recognize the various genres of children's literature. • Acquire values through their reading of the works of children's literature. • Appreciate and criticize the similarities and differences in cultural imaginations. • Recognize the themes similarities and artistic style employed in children's literature. • Critically evaluate the different approaches to children's literature in various countries.
		HISTORY OF ENGLISH LITERATURE - I	<ul style="list-style-type: none"> • Gain extensive insight into the history of English literature, while laying special emphasis on various literary movements, genres and writers that are held to be the representatives of their times. • Evaluate the way socio-cultural and historical phenomena influence the literary production of a particular period. • Familiarize themselves with the socio cultural ambience and the discursive frameworks of various ages. • Develop a critical appreciation of the literary stalwart soft the respective periods. • Gain in-depth understanding on the growth of the English language under the influence of various other language including Latin and French, besides being mentored in the structural nitty-gritties of the language.
	SEMESTER IV	WORLD CLASSICS IN TRANSLATION	<ul style="list-style-type: none"> • Gain an exposure to some Classics in World literature, both in theme and form. • Be able to identify elements of universal literary merit as well as critically compare some of the great works of the East and the West. • Gain an understanding of the works in their cultural\historical contexts and of the enduring human values which unite the different literary traditions. • Pay attention to critical thinking and writing with in a frame work of cultural diversity. • Appreciate and examine the literary, cultural and human significance of the works of the diverse literary traditions.
		LANGUAGE & LINGUISTICS	<ul style="list-style-type: none"> • Comprehend the essential link between language and culture. Gain in-depth understanding on the growth of the English language under the influence of various other languages including Latin and French, besides being mentored in the structural nitty-gritties of the language. • Gain extensive insight into the history of English literature, while laying special emphasis on various literary movement, genres and writers that are held to be the representatives of their times. • Evaluate the way socio-cultural and historical phenomena influence the literary

			<ul style="list-style-type: none"> production of a particular period. Familiarize themselves with the socio-cultural ambience and the discursive frameworks of various ages. Apply critical thinking, independent judgement, intercultural sensitivity and regional, national and global perspectives to identify and solve problems in English Language and Linguistics.
		HISTORY OF ENGLISH LITERATURE-II	<ul style="list-style-type: none"> Gain extensive insight into the history of English literature, while laying special emphasis on various Literary movements, genres and writers that are held to be the representatives of their times. Evaluate the way socio-cultural and historical phenomena influence the literary productions of a particular period. Familiarize themselves with the socio-cultural ambience and discursive frameworks of various ages. Develop a critical appreciation of the literary stalwarts of the respective periods. Gain in-depth understanding on the growth of the English language under the influence of various other languages including Latin and French, besides being mentored in the structural nitty-gritties of the language.
	SEMESTER V	BRITISH LITERATURE	<ul style="list-style-type: none"> Exhibit an understanding of and appreciation for keywords in British literature, as evidenced in daily works and course discussions. Demonstrate an understanding of periodization, theme, genre, motif, and so on, in British literature. Establish an understanding that historical, cultural, spiritual, ethical issues, among others, shape human experiences and impact motivation Respond to literature on important thematic consideration having to do with literary and historical milieu, culture, human responsibility, morality, ethics, and the manner and causes by which humans interact with one another. and express about British literature using standard literary lexicon and other literary conventions .
		SHAKESPEARE	<ul style="list-style-type: none"> Demonstrate an understanding of the historical, cultural and political contexts of the plays discussed. Show evidence of wider reading and a knowledge of Shakespeare scholarship. Articulate ideas that identify analyse and communicate principles and concepts of the plays. Understand the distinctiveness of Shakespeare's works with special references to the immortal characters he created, is intuitive understanding of human nature and the greatness of his craftsmanship. Analyse and appreciate the literary expertise of Shakespeare and his relevance to the current society.



Dr. Fande Gnanaseelvam, Ph.D.,
 Principal

			<p>3. After studied unit-3, the student will be able to create and analyse product positioning, brand building process, with appropriate product portfolio structure which contributes to the success of products or services.</p> <p>4. After studied unit-4, the student will be able to understand the price elasticity and how it can be used to set price for a product. The student will be able to evaluate how to use distribution channels to market the products / services effectively.</p> <p>5. After studied unit-5, the student will be able to use the appropriate promotional tools for the promotion of products/ services.</p>
		BUSINESS LAW	<p>1. After studied unit-1, the student will be able to understand the fundamental legal principles in developing various contracts.</p> <p>2. After studied unit-2, the student will be able to understand the commercial laws in the business world.</p> <p>3. After studied unit-3, the student will be able to identify the common forms of business associations and elements of Corporate Governance.</p> <p>4. After studied unit-4, the student will be able to understand the legality and statute of frauds in contracts.</p> <p>5. After studied unit-5, the student will be able to develop insights regarding the laws and transactions related to sales of goods.</p>
		COST ACCOUNTING	<p>1. The student is able to understand the importance of cost ascertainment, reduction and control</p> <p>2. The student is able to develop the skills needed to apply costing techniques for each element of cost.</p> <p>3. The student is able to know the different method for calculating Methods of pricing and store records.</p> <p>4. The student is able to know the procedures to calculate the cost of the product and service</p>
		COMPUTER APPLICATION IN BUSINESS	<p>1. After studied unit-1, the student will know about the emergence of computers and various software solution used for business</p> <p>2. After studied unit-2, the student will be learn to use MS word and its functions</p> <p>3. After studied unit-3, the students will learn the application of Excel in problem solving and decision</p> <p>4. After studied unit-4, the student will be familiar with uses of PPT and also learn to design presentations</p> <p>5. After studied unit-5, the student will know about the emerging trends of computer applications in business</p>
		HUMAN RESOURCE MANAGEMENT	<p>1. After studied Unit 1, the student understands the concepts and basic functions of Human Resource Management.</p> <p>2. After studied Unit 2, the student learns the implementation and evaluation of</p>



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Principal

SEMESTER III	FINANCIAL ACCOUNTING-I (Allied)	<ul style="list-style-type: none"> To introduce the basic concepts and conventions to the students, this would help in development of accounting knowledge. To understand the concept of Double entry system this helps in preparation of various books of accounts. To develop the capability of students to prepare the Final Accounts of a Small Business Concern. To develop the capability of students to prepare the Final Accounts of a Small Business Concern.
	PROGRAMMING IN JAVA	<ul style="list-style-type: none"> Describe the database architecture and its applications Sketch the ER diagram for real world applications Uses various ER diagram for a similar concept from various sources. Discuss about the relational algebra and calculus Construct various queries in SQL and PL/SQL Compiles various queries in SQL, Relational Calculus and Algebra. Describe the various normalization forms Apply the normalization concepts for a table of data Practices a table and implement the normalization concepts
SEMESTER IV	FINANCIAL ACCOUNTING-II (Allied)	<ul style="list-style-type: none"> To understand the concept of Branch Accounting and enable the students to prepare Accounts for various types of Branches. To enhance the procedure for preparing Departmental Accounts. To Develop the skill of the students in preparing Hire Purchase Accounting, both in the books of Hire Purchaser and Hire Vendor. To Understand the Accounting procedure for Dissolution and Insolvency of a Partner.
	RELATIONAL DATABASE MANAGEMENT SYSTEMS	<ul style="list-style-type: none"> Students will understand the various basic concepts of Data Base System. Difference between file system and DBMS and compare various data models. Classify the different functions and various join operations and enhance the knowledge of handling multiple tables.
SEMESTER V	OPERATING SYSTEM	<ul style="list-style-type: none"> Students will understand the fundamentals of OS and identify the concepts relevant of process, process life cycle, Scheduling Algorithms, Deadlock and Memory management. Know the critical analysis of process involving various algorithms, an exposure to threads and semaphores.
	DESIGN AND ANALYSIS OF ALGORITHMS	<ul style="list-style-type: none"> Students will understand various algorithm design paradigms such as divide-and-conquer, greedy algorithms, dynamic programming, backtracking and brand-and-bound. Students will gain proficiency in identifying and formulating efficient solutions to computational problems, choosing appropriate algorithms and data structure.


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SEMESTER VI	OPEN SOURCE SOFTWARE	<ul style="list-style-type: none"> • Students will gain deep understanding of the philosophy, history, and ethical considerations behind open-source software, including transparency, collaboration, and community-driven development. • Students will develop skills to including bug fixing, feature enhancement, documentation, and communicating effectively within open-source communities.
	PYTHON PROGRAMMING	<ul style="list-style-type: none"> • Students will understand the Python syntax, including variables, data types, control structures and functions, enabling them to write clear and effective code. • Students will develop the ability to break down complex problems into smaller, manageable parts, and apply algorithm thinking to devise solutions using python
	MOBILE COMPUTING	<ul style="list-style-type: none"> • Students will understand the fundamentals concepts of mobile computing, including mobile operating systems, mobile network architectures, and key challenges in mobile environments. • Students will learn to design and develop mobile applications for popular platforms using languages and tools.
	CRYPTOGRAPHY	<ul style="list-style-type: none"> • Students will understand the core concepts in cryptography, including confidentiality, integrity, authentication and non-repudiation. • Students will learn the principles and algorithms of symmetric encryption and asymmetric encryption. To implement and apply the techniques in secure communication


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COURSE OUTCOME

		COURSE NAME	COURSE OUTCOME
B.COM (G)	SEMESTER I	FINANCIAL ACCOUNTING I	<ul style="list-style-type: none"> • The student will be able to Understand the basic fundamentals of Double Entry System Accounting • The student will be able to Prepare Final Accounts • The student will be able to Understand the depreciation accounting • The student will be able to Prepare the accounts in Single Entry system • The student will be able to Understand the importance of Tally Accounting
		PRINCIPLES OF MANAGEMENT	<ul style="list-style-type: none"> • Demonstrate the importance of principals of management • Paraphrase the importance of planning and decision making in an organization • Comprehend the concept of various authorizes and responsibilities of an organization. • Enumerate the various methods of performance appraisal. • Demonstrate the notion of directing co-ordination and control in the management.
		BUSINESS COMMUNICATION	<ul style="list-style-type: none"> • Acquire the basic concepts of business communication • Exposed to effective business letter. • Paraphrase the concept of various correspondences. • Prepare secretarial correspondence like agenda, minutes and various business reports • Acquire the skill of preparing an effective resume


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M.M.E.S. Women's Arts & Science College
 Melvisharam - 632 509

		<ul style="list-style-type: none"> • Differentiate business types, evaluate business organization's importance, analyse ethical considerations in business. • Compare forms of business organizations, assess public and private sector advantages and disadvantages. • Analyze industry location factors, evaluate advantages of large-scale operations, assess industrial estates and district industries centers. • Explain stock exchange functions and regulation, analyze business combinations ,causes, types, and effects. • Discuss Trade Associations and chambers of commerce functions and objectives, evaluate their significance in promoting trade and commerce in India.
SEMESTER II	FINANCIAL ACCOUNTING II	<ul style="list-style-type: none"> • The student will be able to Understand the basic fundamentals of branch accounting • The student will be able to Understand the basic fundamentals of Departmental accounting • The student will be able to Understand the Hire purchase and Installment System of accounting • The student will be able to Prepare the accounts partnership • The student will be able to Understand the basics of Tally Accounting
	BUSINESS LAW	<ul style="list-style-type: none"> • Explain the Objectives and significance of mercantile law. Understand the clauses and exception of Indian Contract Act. Outline the contract of indemnity and guarantee. Familiar with the provision relating to Bailment and pledge. Explain the various provision of sale of Goods Act 1930.
	BUSINESS ENVIRONMENT	<ul style="list-style-type: none"> • Remember the nexus between environment and business. • Apply the knowledge of political Environment in which the business operate. • Analyze the various aspect of social and cultural Environment. • Evaluate the parameters of economic environment. • Create a conducive Technological Environment for business operate globally.


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		INDUSTRIAL LAW	<ul style="list-style-type: none"> Remember and recall the various concepts of factories act 1948. Demonstrate the provisions and concepts of industrial Disputes Act 1947. Analyze the various measures and policies in the Workmen Compensation Act. Examine the different aspects of ESI and EPF Act. Critically evaluate the case studies relating to Bonus Act.
		ADVERTISING	<ul style="list-style-type: none"> Define advertising, analyze its objectives, evaluate its scope and benefits, and identify media elements used in advertising Differentiate types of advertising agencies, assess criteria for selecting agencies, and demonstrate effective client-agency relationship management Analyze ethical and social issues in advertising, evaluate the impact of advertising on Indian values and culture Explain the communication process and analyze advertising's role in brand building and managing brand crises Apply effective copywriting techniques, identify copy elements and types, utilize layout principles and execution styles, and conduct pre-testing and post-testing of advertisements
SEMESTER III		CORPORATE ACCOUNTING -I	<ul style="list-style-type: none"> The student will be able to Understand the basic concepts relating to issue of shares and make accounting entries. The students will be able to make accounting entries for and redemption of preference shares. The students will be able to acquainted with accounting treatment for acquisition of business. The student will be able to Understand the accounting procedures related to Profits Prior to Incorporation. The students will be able to Prepare Company Final Accounts & Company Balance Sheet.


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		LEGAL ASPECTS OF BUSINESS	<ul style="list-style-type: none"> • The students will be able to Know the framework of Indian Contract Act 1872. • The students will be able to Understand the other essential elements of Indian Contract 1872. • The students will be able to Aware the provisions of Special Contracts and Modes of Discharge. • The students will be able to Acquire Knowledge of Sale of Goods Act 1930. • The students will be able to Consciousness on Consumer Protection Act 1986.
		BUSINESS ECONOMICS - I	<ul style="list-style-type: none"> • The student will be able to understand the concept of Business Economics, Objectives and scope. • The student will be able to gain knowledge of the demand and elasticity of demand. • The student will be able to gain knowledge on Utility concept . • The student will be able to acquire Knowledge of Demand forecasting and Demand Forecasting methods. • The student will be able to gain knowledge of Production Function and Returns to scale
	SEMESTER IV	CORPORATE ACCOUNTING -II	<ul style="list-style-type: none"> • The students will be able to Impart the knowledge of valuing shares and goodwill of the company. • The students will be able to Understand the accounting procedures related to Alteration of share capital and Internal Reconstruction. • The students will be able to Be acquainted with accounting procedures for Mergers and acquisitions. • The students will be able to Prepare consolidated financial statements of Holding company and its subsidiary companies. • The students will be able to Know the accounting procedures related to preparation of bank accounts.
		BUSINESS MANAGEMENT	<ul style="list-style-type: none"> • The students will be able to Knowledge pertaining to Fundamentals of management • The students will be able to Knowledge pertaining to develop planning • The students will be able to Understand organising and staffing • The students will be able to Knowledge pertaining to motivation


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			<p>structures.</p> <ul style="list-style-type: none"> The students will be able to Advanced Programming techniques using control and coordination
		BUSINESS ECONOMICS - II	<ul style="list-style-type: none"> The student will be able to understand the Cost and Revenue analysis in Business. The student will be able to gain knowledge of the pricing of perfect competition, monopoly and monopolistic competition. The student will be able to gain knowledge of Theories of Distribution. The student will be able to acquire Knowledge on the capital budgeting. The student will be able to gain knowledge decision making under certainty and uncertainty
	SEMESTER V	COST ACCOUNTING - I	<ul style="list-style-type: none"> The students will be able to taught the Nature and Scope of Cost Accounting, and Computation of Cost Sheet and Tenders. The students will be able to learn the preparation of Material Purchase and Control. The students will be able to impart knowledge about Methods of pricing of Material Issues The students will be able to study about preparation of Labour Cost Control. The student will be able to gain knowledge about Distribution of Overheads.
			PRACTICAL AUDITING


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M.M.E.S. Women's Arts & Science College
Melvisharam - 632 509

		MANAGEMENT ACCOUNTING	<ul style="list-style-type: none"> • The students will be able to learn the preparation of Financial Statement Analysis. • The students will be able to gain effective knowledge about Ratio Analysis • The students will be able to impart knowledge fund flow and cash flow analysis. • The students will be able to study about marginal costing techniques. • The students will be able to know about the preparation of budget and budgetary control.
		INCOME TAX LAW AND PRACTICE I	<ul style="list-style-type: none"> • The students will be able to understand the basic level of Income tax Act. • The students will be able to know the tax calculation on house property income • The students will be able to achieve knowledge on tax calculation of salaried people. • The students will be able to obtain knowledge on income tax of business/ professional income. • The students will be able to understand the administrative set up of income tax department and their powers
		ENTREPRENEURIAL DEVELOPMENT	<ul style="list-style-type: none"> • The students will be able to Understand the basic concepts and theories of entrepreneurship. • The students will be able to establish an enterprise and assessment of project feasibility. • The students will be able to get knowledge about the sources of long and short term finance. • The students will be able to understand incentives and subsidies. • The students will be able to get knowledge about woman entrepreneurs.
	SEMESTER VI	COST ACCOUNTING II	<ul style="list-style-type: none"> • The student will be able to taught the Computation of Job, Batch, Contract Costing • The student will be able to learn the preparation of Process Costing. • The student will be able to impart knowledge about calculation of Operating Costing • The student will be able to study about preparation of

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			<p>Costing.</p> <ul style="list-style-type: none"> The student will be able to gain knowledge about Reconciliation of Cost and Financial Accounts.
		INCOME TAX LAW AND PRACTICE II	<ul style="list-style-type: none"> The student will be able to know the calculation of taxes for gain on capital asset. The student will be able to know the tax on other source and its calculation. The student will be able to know the adjustment of carry forward Income/Expenditure The student will be able to Expertise in preparation of total income of individual/ firm etc. The student will be able to gain knowledge on filing of income tax returns.
		FINANCIAL MANAGEMENT	<ul style="list-style-type: none"> The student will be able to understand the basic Principles and practices of Financial management. The student will be able to Determine the amount of Capital, Organization and Structure. Reduce cost of Capital and Operating Risks The student will be able to have the knowledge and practice of arriving financial Decision makings The student will be able to acquire practical knowledge on Calculation of working capital The student will be able to gain knowledge on leverage and portfolio management
		SERVICE MARKETING	<ul style="list-style-type: none"> The student will be able to understand the concepts and evolution of service marketing The student will be able to Explore the 4 Ps of service marketing The student will be able to perceive the strategies in service marketing The student will be able to explore the quality issues of service marketing The student will be able to understand the different services organizations.
		CUSTOMS AND GOODS AND SERVICE TAX	<ul style="list-style-type: none"> The student will be able to understand the basics of customs and excise duty The student will be able to know the fundamental concepts of Goods and Service tax


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Principal

			<ul style="list-style-type: none">• The student will be able to understand the goods and service tax• The student will be able to analyze the procedures of Levy and Collection of GST• The student will be able to understand the assessment returns and refund of goods and service tax
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COURSE OUTCOME

		COURSE NAME	COURSE OUTCOME
B.COM (COMPUTER APPLICATIONS)	SEMESTER I	FINANCIAL ACCOUNTING - I	<ul style="list-style-type: none"> Understand the basic fundamentals of Double Entry System Accounting the student will Prepare Final Accounts, to understand the depreciation accounting Understand bill of exchange the student will be able to Prepare the accounts in Single Entry system
		PRINCIPLES OF MANAGEMENT	<ul style="list-style-type: none"> Demonstrate the importance of principles of management. Paraphrase the importance of planning and decision making in an organization. Comprehend the concept of various authorizes and responsibilities of an organization. Enumerate the various methods of Performance appraisal Demonstrate the notion of directing, co-coordination and control in the managemen To know VAT, TDS and TCS
		PROGRAMMIN G IN C AND LAB	<ul style="list-style-type: none"> Apply the concept of Control Structures to solve any given problem. Apply the concept of single and multi-dimensional arrays to solve problems related to searching, sorting and matrix operations. Apply the concept of Strings for writing programs related to character array. Write programs using concept of user defined and recursive functions. CO5 Apply concept of structures to write programs.


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		FINANCIAL ACCOUNTING - II	<ul style="list-style-type: none"> • Prepare Branch Accounts, Departmental Accounts • Gain Knowledge about Hire purchase and Installment purchase systems • Prepare Partnership accounts (fundamentals and reconstitution of partnership) • Partnership Accounts (Dissolution of partnership firms)
		OFFICE AUTOMATION LAB	<ul style="list-style-type: none"> • The student will be able to understand the Starting MS-WORD, Creating, Saving, Printing • Create a document, save it and edit the document, Format the document • to gain knowledge about the Using tap settings enhancing the documents , Creating Tables in a document • Know to Drawing flow chart, Create a worksheet, Formatting work sheets. • Database Concept, Creating charts, Using date, time, math's functions: • Prepare MS-POWER POINT: Creating a presentation • TALLY: • 1. Company Information
SEMESTER II		BUSINESS LAW	<ul style="list-style-type: none"> • Explain the Objectives and significance of Mercantile law • Understand the clauses and exceptions of Indian Contract Act. • Outline the contract of indemnity and guarantee • Familiar with the provision relating to Bailment and Pledge • Explain the various provisions of Sale of Goods Act 1930
		PROGRAMMING IN C++ AND LAB	<ul style="list-style-type: none"> • Explain the various basic concepts of Object-orientation. • Write programs to implement static binding • Write programs to implement inheritance and dynamic binding • Write programs to implement templates and exception handling and learn how to use STL class library. • Write programs implementing File and Stream I/O.
SEMESTER III		CORPORATE ACCOUNTING - I	<ul style="list-style-type: none"> • The student will be able to understand about Share capital, Debentures • Know about Acquisition of Business • Prepare Final Accounts • Prepare statement on Amalgamation, Absorption, External


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			reconstruction
		BUSINESS MATHEMATICS & STATISTICS	<ul style="list-style-type: none"> Learn the basics of ratio, proportion, indices and logarithm Familiarize with calculations of simple and compound interest and arithmetic, geometric and harmonic progressions. Determine the various measures of central tendency Calculate the correlation and regression co-efficient. Assess problems on time series analysis.
		WEBTECHNOLOGY (PHP) AND LAB	<ul style="list-style-type: none"> Understand the general concepts of PHP scripting language for the development of Internet websites.\ Understand the basic functions of MySQL database program and XML concepts learn the relationship between the client side and the server side scripts.
		WEB TECHNOLOGY LAB	<ul style="list-style-type: none"> On the completion of this laboratory course the students ought to Obtain knowledge and develop application programs using Python. Create dynamic Web applications such as content management, user registration, and ecommerce using PHP and to understand the ability to post and publish a PHP website. Develop a MySQL database and establish connectivity using MySQL.
	SEMESTER IV	CORPORATE ACCOUNTING - II	<ul style="list-style-type: none"> Understand Methods of Valuation of Goodwill Prepare Liquidator' s Final Statement of Account Prepare Revenue Account , Profit & Loss Account - Balance Sheet (new format). Understand Unrealized Profit - Revaluation of Assets and Liabilities - Bonus Shares - Consolidated Balance Sheet PrepareCAMethod:COA; MWCA;Depreciation Adjustment; Gearing Adjustment.
		COMPANY LAW	<ul style="list-style-type: none"> Understand the classification of companies under the act Examine the contents of the Memorandum of Association & Articles of Association Know the qualification and disqualification of Auditors Understand the workings of National Company Law Appellate Tribunal (NCLAT) Analyse the modes of winding up.

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		RDBMS	<ul style="list-style-type: none"> The students will be able to understand database concepts and database management system software and have a high-level understanding of major DBMS components and their function. The students will be able to understand the E R model and relational model. The students will be able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS. The students will be able to Understand Functional Dependency and Functional Decomposition. The students will be able to understand the architecture of database management system and also understand the various different architecture such as server system architecture, parallel systems and distributed database systems.
		RDBMS LAB	<ul style="list-style-type: none"> The students will be able understand the concepts of DDL/DML/DCL/TCL commands. The students will be able understand the concepts of Join queries. The students will be able understand the concepts of exception handling. The students will be able understand the concepts of cursors. The students will be able understand the concepts of packages.
SEMESTER V		COST ACCOUNTING - I	<ul style="list-style-type: none"> To understand about Costing System Know about Material Control: Levels of Stock and EOQ, Perpetual Inventory System, ABC and VED Analysis, Accounting of Material Losses. Prepare Cost Price Methods Know about Labor Turnover Prepare Allocation Absorption and Appointment of Overhead Costs
		MANAGEMENT ACCOUNTING	<ul style="list-style-type: none"> The students understand Financial Statement Analysis, Comparative and Common size statements, Trend Analysis. Ratio Analysis Prepare Fund Flow and Cash Flow Analysis Prepare Standard Costing - Variance Analysis To gain knowledge about Budget and Budgetary Control
		BUSINESS MANAGEMENT	<ul style="list-style-type: none"> The students understand about the Functions of Management. Know about Planning, Directing, Controlling
		INTERNET & ITS	<ul style="list-style-type: none"> The students understand about the Programming Language Web Browsers - Internet Explorer

		APPLICATIONS	<ul style="list-style-type: none"> Gain knowledge about Electronic Mail HTML headers-marketing Know about Consumer tracking - Electronic advertising search engine Internet and World Wide Web
		INCOME TAX LAW & PRACTICE - I	<ul style="list-style-type: none"> The students understand about Income Tax Act 1961, Basic Concepts, Assessment Year, Salaries Know about Income from House Property Profit and Gains of Business or professional depreciation Gain knowledge about Income tax authorities
SEMESTER VI		COST ACCOUNTING - II	<ul style="list-style-type: none"> The students understand about Job, Batch, Contract Costing Prepare Process Account, Operating Cost Gain knowledge about Marginal Costing Prepare Reconciliation of cost and financial statements
		WEB TECHNOLOGY	<ul style="list-style-type: none"> The students understand about Internet Basic, Style sheet - Style sheet basic Gain knowledge about Object in HTML, HTML server controls Learn about Request and Response Objects, Cookies
		WEB TECHNOLOGY LAB	<ul style="list-style-type: none"> The students understand about Create a simple page, Put an existing image on a web page, Create a new file called index. Html. Gain knowledge on how to Write a script to create an array Create a document that accepts the user's name in a text field form
		INCOME TAX LAW & PRACTICE - II	<ul style="list-style-type: none"> The students understand about Capital gains, Income from other sources Gain knowledge about Clubbing of Incomes and Set off and carry forward of losses & Clubbing of Incomes and Set off and carry forward of losses Know about Assessment of Individuals and Assessment procedures.
		INTERNET OF THINGS	<ul style="list-style-type: none"> Enable students to acquire knowledge on the fundamentals of IoT The student will be able to understand the concepts relating to M2M, IoT Architecture After studied unit-3, the student will be able to impart knowledge about IoT model and views After studied unit-4, the student will be able to develop practical knowledge about IoT protocols

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			<ul style="list-style-type: none">• After studied unit-5, the student will be able to Analyze applications of IoT in real time scenario
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COURSE OUTCOME

COURSE	SEMESTER	COURSE NAME	COURSE OUTCOME
B.Sc BIOTECHNOLOGY	SEMESTER I	CELL AND MOLECULAR DEVELOPMENTAL BIOLOGY	<p>On successful completion of the course, students will be able to</p> <ol style="list-style-type: none"> 1. Have an insight of the cell as the fundamental unit of life and to compare the structure of the Eukaryotic cell with the primitive prokaryotic cell 2. Analyze the structure and obtain a strong foundation about the functional aspects of cell organelles and cell membrane. 3. Study the structure and functions of Nucleic acid and discuss the molecular mechanism of Replication, Transcription and Translation and post translational modifications of proteins. 4. Predict the response of cells to the intra and extracellular environment by studying about the intracellular signaling pathways. 5. Understand the principles and molecular mechanisms involved in cellular differentiation, morphogenesis, growth and Potency of the cell.
		BIOLOGICAL CHEMISTRY	<ol style="list-style-type: none"> 1. Comprehend the importance of Chemistry and Biochemistry through the concept of acids and bases, and chemical bonding. 2. Demonstrates the formation of different types of solutions, concentrations of solution and preparation of buffer solutions 3. Recall the Structure, Classification, Chemistry and Properties of Carbohydrates and Explain Various Biochemical Cycles involved in Carbohydrate Metabolism. 4. Recall the Structure, Classification, Chemistry and Properties of Lipids, Nucleic acid and Explain Various Biochemical Cycles involved in Fatty acid and Nucleic acid Metabolism. 5. Understand the Structure, Classification, Chemistry and Properties of proteins amino acids and Identify and explain nutrients in foods and the specific functions in maintaining health.
	SEMESTER II	GENETICS	<ol style="list-style-type: none"> 1. Learn about the classical genetics and transmission of characters from one generation to the next. 2. Obtain a strong foundation for the advanced genetics.

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			<ol style="list-style-type: none"> 3. Explain the properties of genetic materials and storage and processing of genetic information. 4. Acquire knowledge about the Mutagens, Mutations, DNA Repairs and Genetic disorders in human. 5. Categories Eugenics, Euphenics and Euthenics and indepth Knowledge on population Genetics.
		FUNDAMENTALS OF MICROBIOLOGY	<ol style="list-style-type: none"> 1. Understand the classification of Microorganisms and structure of bacteria 2. Understand the various microbiological techniques, different types of media, and techniques involved in culturing microorganisms. 3. Categorize the methods of sterilization and identify the significance of culture media in the growth of different microbes. 4. Exhibit knowledge in analyzing the importance of Bio insecticides, Bio fertilizers prebiotics and probiotics. 5. Distinguish between normal flora and pathogens and describe the role of microbes in food intoxications.
	SEMESTER III	MICROBIOLOGY	<ol style="list-style-type: none"> 1. The student will be able to know classification of microorganisms 2. The student will be able to know the structure of various microorganisms 3. The student will be able to know the growth of microorganisms 4. The student will be able to know factors controlling microbial growth 5. The student will be able to know various disease caused by microbes
		BIostatistics AND COMPUTER APPLICATIONS	<ol style="list-style-type: none"> 1. The student will be able to know about collection of data and presentation of data 2. The student will be able to study measures of central tendency 3. The student will be able to know the types and methods of correlation analysis 4. The student will be able to implant computer knowledge 5. The student will be able to know how to work with excel
	SEMESTER IV	IMMUNOLOGY	<ol style="list-style-type: none"> 1. The student will be able to learn the basics of immunology. 2. The student will be able to learn about the structure of immunoglobulins. 3. The student will be able to know about the details of immune cells. 4. The student will be able to learn about the mhc&autoimmune disease. 5. The student will be able to learn the details of blood grouping and its applications.
		MOLECULAR	<ol style="list-style-type: none"> 1. The student will be able to explain Central Dogma and DNA as a


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		GENETICS	<p>Genetic Material</p> <ol style="list-style-type: none"> The student will be able to understand Replication, Repair and Recombination. The student will be able to know Mutation, Chromosomal Abnormalities The student will be able to understand Genetics of Bacteria and Virus The student will be able to know the Regulation of Gene Expression and Transposable Elements.
SEMESTER V		GENETIC ENGINEERING	<ol style="list-style-type: none"> The student will be able to learn about molecular marker The student will be able to study about the important tools in genetic engineering. The student will be able to learn about different type of cloning vectors. The student will be able to study about principle and different types of polymerase chain reaction The student will be able to study about recombinant DNA technology.
		INDUSTRIAL BIOTECHNOLOGY	<ol style="list-style-type: none"> The student will be able to know about Introduction to biotechnology and products The student will be able to understand Industrially important microorganisms. The student will be able to know Bioreactors / Fermentor: Types The student will be able to know Downstream processing The student will be able to understand Fermented foods and Agricultural products
		BIOINFORMATICS	<ol style="list-style-type: none"> The student will be able to learn the basics of bioinformatics. The student will be able to learn about sequence analysis. The student will be able to bioinformatics tools like Blast and Fasta. The student will be able to learn about protein structure using protein visualizing tools. The student will be able to protein and its prediction
		BIOFERTILIZER TECHNOLOGY	<ol style="list-style-type: none"> The student will be able to understand the Biofertilizers The student will be able to know the Isolation Methods of Biofertilizers . The student will be able to know the Identification Methods of Biofertilizers. The student will be able to know the Large Scale Production Process of Biofertilizers.

			5. The student will be able to know the Large Scale Production Process of Biofertilizers.
	SEMESTER VI	PLANT & ANIMAL BIOTECHNOLOGY	<ol style="list-style-type: none"> 1. The student will be able to know about basic plant tissue media preparation. 2. The student will be able to understand plant tissue culture techniques. 3. The student will be able to know animal cell media preparation and sterilization. 4. The student will be able to know transgenic animals. 5. The student will be able to understand in vitro fertilization.
		ENVIRONMENTAL BIOTECHNOLOGY	<ol style="list-style-type: none"> 1. The student will be able to know ecosystem 2. The student will be able to know waste water treatment 3. The student will be able to know biodegradation of xenobiotics 4. The student will be able to know biofuel production 5. The student will be able to know environmental genetics
		SERICULTURE	<ol style="list-style-type: none"> 1. To learn about History of silkworm & their life cycle. 2. The students able to understand the propagation methods of mulberry. 3. It will be very useful for studying step by step process in rearing technology. 4. And to identify the useful by products of sericulture. 5. To identify the diseases damage the silkworm.
		BIOSAFETY, BIOETHICS & IPR	<ol style="list-style-type: none"> 1. The student will be able to understand about biosafety 2. The student will be able to learn about the biosafety guidelines 3. The student will be able to understand about bioethics 4. The student will be able to learn about IPR 5. The student will be able to learn about patents and patent law


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COURSE OUTCOME

		COURSE NAME	COURSE OUTCOME
B.Sc COMPUTER SCIENCE	SEMESTER I	OBJECT ORIENTED PROGRAMMING CONCEPTS USING C++	<ul style="list-style-type: none"> Remember the program structure of C with its syntax and semantics. Understand the programming principles in C (data types, operators, branching and looping, arrays, functions, structures, pointers, and files) Apply the programming principles learned in real-time problems. Analyze the various methods of solving a problem and choose the best method. Code, debug, and test the programs with appropriate test cases.
		NUMERICAL METHODS-I	<ul style="list-style-type: none"> To Solve practical technical problems using various numerical method formulas. To derive appropriate numerical methods to solve Algebraic and transcendental equations. To know the numerical methods of solving simultaneous linear equations. To acquire knowledge about forward differences and backward differences and their relationship. Knowledge about central difference operators and problems based on various central differences formulae.
	SEMESTER	DATA STRUCTURE AND ALGORITHM	<ul style="list-style-type: none"> Understand the concept of Dynamic memory management, data types, algorithms, and Big O notation. Understand basic data structures such as arrays, linked lists, stacks, and queues. Describe the hash function, concepts of collision, and resolution methods. Solve problems involving graphs, trees, and heaps. Apply algorithms to solve problems like sorting.


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	II		searching, inserting, and deleting data.
		NUMERICAL METHODS- II	<ul style="list-style-type: none"> The student will be able to evaluate derivatives by applying Newton's forward and backward differences formulae. -The student will be able to evaluate integrations by applying the trapezoidal rule, Simpson's rules, and Weddle's rule. The student will be able to find a complete solution to linear difference equations. The student will be able to estimate approximate numerical solutions of ordinary differential equations by Euler, Picard, and Taylor. The student will be able to estimate approximate numerical solutions of ordinary differential equations by Range-kutta methods.
	SEMESTER III	PROGRAMMING IN JAVA	<ul style="list-style-type: none"> The student will be able to understand the concept of general-purpose and purely object-oriented programming language including data types and classes. The student will be able to understand the concept of loops, Arrays, and Files. The student will be able to understand the concept of internet programming using applets and GUI-based.
		STATISTICAL METHODS AND THEIR APPLICATIONS-I	<ul style="list-style-type: none"> Ability to apply mathematical logic to solve problems. To understand sets, relations, functions, and discrete structures. Students can use logical notation to define and reason about fundamental mathematical concepts such as sets, relations, and functions.
	SEMESTER IV	RELATIONAL DATABASE MANAGEMENT SYSTEM	<ul style="list-style-type: none"> Describe the database architecture and its applications. Sketch the ER diagram for real-world applications. Use various ER diagrams for similar concepts from various sources. Discuss relational algebra and calculus. Construct various queries in SQL and PL/SQL.


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			<ul style="list-style-type: none"> • Describe the various normalization forms. • Apply the normalization concepts for a table of data.
		STATISTICAL METHODS AND THEIR APPLICATIONS-II	<ul style="list-style-type: none"> • Describe and discuss the key terminology, concepts tools and techniques used in business statistical analysis. • Critically evaluate the underlying assumptions of analysis tools. • Understand and critically discuss the issues surrounding sampling and significance
	SEMESTER V	MOBILE APPLICATION DEVELOPMENT	<ul style="list-style-type: none"> • Students can understand the basics of smartphones and Android platforms. • To understand the importance of data persistence in a mobile environment. • The student will be able to comprehend Android basics. • The student will be able to develop a simple mobile application using Android.
		DESIGN AND ANALYSIS OF ALGORITHM	<ul style="list-style-type: none"> • The student will be able to gain experience with space and time complexity • The student will be able to understand the concepts of divide and conquer • The student will be able to understand the concepts of greedy method • The student will be able to understand the concepts of multistage graph • The student will be able to understand the concepts of backtracking
		OPERATING SYSTEM	<ul style="list-style-type: none"> • The student will be able to learn about the operating system structure and services. • The student will be able to enrich the process scheduling skills. • The student will be able to know about memory allocation.
		DATA MINING	<ul style="list-style-type: none"> • The student will be able to understand the concept of general-purpose and purely object-oriented programming language including data classes.

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			<ul style="list-style-type: none"> • The student will be able to understand the concept of loops, Arrays and Files. • The student will be able to understand the concept of internet programming using applets and GUI-based.
	SEMESTER VI	OPEN SOURCE PROGRAMMING	<ul style="list-style-type: none"> • The student will be able to build static web pages using HTML and CSS. • The student will be able to understand the Linux File system. • The student will be able to build validation coding using Java script.
		SYSTEM SOFTWARE	<ul style="list-style-type: none"> • The student will be able to analyze CISC and RISC machines. • The student will be able to know how assemblers are working. • The student will be able to distinguish Linker and Loader microprocessor. • The student will be able to understand the functions of compilers.
		PYTHON PROGRAMMING	<ul style="list-style-type: none"> • The student will be able to write simple Python programs giving basic knowledge. • The student will be able to understand control structures. • The student will be able to create functions. • The student will be able to arrange elements through sorting. • The student will be able to handle exceptions.
		CRYPTOGRAPHY	<ul style="list-style-type: none"> • The student will be able to know the security attacks and service Standards. • The student will be able to understand public key cryptographic algorithms. • The student will be able to learn the concept of hash functions. • The student will be able to understand the Email security

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COURSE OUTCOME

		COURSE NAME	COURSE OUTCOME
B.Sc INFORMATION SYSTEM MANAGEMENT	SEMESTER I	Programming in C	<ul style="list-style-type: none"> • Outline the fundamental concepts of C programming languages and their features. • Demonstrate the programming methodology. • Identify suitable programming constructs for problem-solving. • Select the appropriate data representation, control structures, functions, and concepts based on the problem requirement. • Evaluate the program performance by fixing the errors.
		NUMERICAL METHODS	<ul style="list-style-type: none"> • To acquire knowledge of basic concepts of numerical methods, partial differential equations, vector analysis, trigonometry, and complex analysis. • To understand numerical methods, curl and divergence of a vector function, types of PDEs, series expansion, analyticity of a function • To evaluate numerical solutions of ODE by numerical methods, PDEs, line, surface, and volume integrals, series expansion, and complex integration. • To apply various methods in solving the problem
		OBJECT ORIENTED PROGRAMMING CONCEPTS USING C++	<ul style="list-style-type: none"> • Remember the program structure of C++ with its syntax and semantics. • Understand the programming principles in C++(data types, operators, branching and looping, arrays, functions, structures, pointers, and files). • Apply the programming principles learned in real-time problems. • Analyze the various methods of solving a problem And choose the best method. • Code, debug and test the programs with appropriate test Cases.


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	SEMESTER II	Numerical Analysis II	<ul style="list-style-type: none"> • The student will be able to evaluate derivatives by applying Newton's forward and backward differences formulae. • -The student will be able to evaluate integrations by applying the trapezoidal rule, Simpson's rules, and Weddle's rule. • The student will be able to find a complete solution to linear difference equations. • The student will be able to estimate approximate numerical solutions of ordinary differential equations by Euler, Picard, and Taylor. • The student will be able to estimate approximate numerical solutions of ordinary differential equations by Range-kutta methods.
	SEMESTER III	PROGRAMMING IN C	<ul style="list-style-type: none"> • After the completion of this course, the students will be able to develop applications. • Enhance skill in problem-solving by constructing algorithms • Demonstrate the use of strings and string-handling functions
		WEB DESIGNING	<ul style="list-style-type: none"> • Be acquainted with elements, tags and basic structure of html files. • Develop the concept of basic and advanced text formatting. • Practice the use of multimedia components in HTML documents. • Designing of webpage-document layout, working with lists, working with tables. • Practice hyperlinking, designing of webpage-working with frames, forms and controls.
	SEMESTER IV	JAVA PROGRAMMING	<ul style="list-style-type: none"> • Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs. • Read and make elementary modifications to Java programs that solve real-world problems. • Validate input in a Java program.
		OPERATIONS RESEARCH	<ul style="list-style-type: none"> • Identify and develop operational research models from the verbal description of the real system. • Understand the mathematical tools that are needed to solve optimization problems. • Use mathematical software to solve the proposed models.
	SEMESTER V	PRINCIPLES OF MANAGEMENT	<ul style="list-style-type: none"> • Understand the concepts related to business. • Demonstrate the roles, skills and functions of management. • Analyze effective application of ppm knowledge to diagnose and solve organizational problems and develop optimal managerial decisions
DATABASE MANAGEMENT		<ul style="list-style-type: none"> • Define the theoretical models used to construct databases • Develop the necessary skills to construct a theoretical database model given a 	

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COURSE OUTCOME

		COURSE NAME	COURSE OUTCOME
B.Sc., INTERIOR DESIGN AND DECOR	SEMESTER I	FUNDAMENTALS OF ART & DESIGN	The student's will be able to: CO1: Classify design types like structural and decorative design. CO2: Use different elements of design appropriately in creating design objects. CO3: Apply the Art principles in Interior Design. CO4: Apply color harmonies in various rooms. CO5: Explain the principles in planning a life space.
		LIFE SPACE PLANNING	The student's will be able to: CO1: Understand the principles in planning a life space. CO2: Examine the factors to be considered in planning different rooms. CO3: Develop technical terms and construction techniques in buildings. CO4: Discuss the types of life spaces and their application. CO5: Design rainwater harvesting system in residential buildings.
		FOUNDATION COURSE IN INTERIOR DESIGN	The student's will be able to: CO1: Understand the scope of interior design. CO2: Identify the qualities and skills required for interior designer. CO3: Execute the Interior Design path. CO4: Organizing work with co-workers. CO5: Building career in interior design.


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	SEMESTER II	BUILDING FINISHES	<p>The student's will be able to:</p> <p>CO1: Apply the Fundamentals of interior and exterior materials, treatments based on climate, cost, style and location.</p> <p>CO2: Compare the types of structural and applied wall finishes.</p> <p>CO3: Analyze the different treatments of ceiling finish with innovative materials.</p> <p>CO4: Classify the types of Hard, semi-hard and soft floor finishes.</p> <p>CO5: Select and apply the various finishes based on care and maintenance.</p>
	SEMESTER III	COMPUTER AIDED DESIGN - I	<p>The student's will be able to:</p> <p>CO1: Understand the basic concepts and Commands in AutoCAD</p> <p>CO2: Create different objects using modification tools.</p> <p>CO3: Create floor plan using different drafting commands.</p> <p>CO4: Understand the 3D modelling concepts and tools.</p> <p>CO5: Get knowledge on rendering tools.</p>
		INTERIOR DESIGN STUDIO AND BUILDING SYSTEM TECHNOLOGY-I	<p>The student's will be able to:</p> <p>CO1: Gain knowledge in various types of building construction and materials</p> <p>CO2: Learn about various construction techniques in buildings used in brick bonding, flooring and roofing.</p> <p>CO3: Identify various types of doors, windows, arches and partitions.</p> <p>CO4: Design vertical transportation for a building.</p> <p>CO5: Acquire about the ways of storing rain water by installing rain water harvesting system.</p>
	SEMESTER IV	PLANNING THE LIFE SPACE	<p>The student's will be able to:</p> <p>CO1: Understand about concept of space and need for space in house</p> <p>CO2: Draw about different types of house</p> <p>CO3: Gain knowledge in division of space in house</p> <p>CO4: Gain knowledge in principles of house plan</p> <p>CO5: Understand about methods of construction and types of construction.</p>
INTERIOR DESIGN	<p>The student's will be able to:</p>		


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		STUDIO ANDBUILDING SYSTEM TECHNOLOGY-II	<p>CO1: Understand the importance of acoustical design for building</p> <p>CO2: Gain knowledge in features of lighting methods used in building</p> <p>CO3: Learn about requirements of providing good ventilation in a building</p> <p>CO4: Gain knowledge in electrical and plumbing service for building</p> <p>CO5: Learn about summarize the building bye laws.</p>
	SEMESTER V	FURNITURE IN INTERIORS	<p>The student's will be able to:</p> <p>CO1: Identify and select furniture for different areas of residence</p> <p>CO2: Analyse the furniture for the process involved, joints, joineries used and finishes applied in furniture construction</p> <p>CO3: Differentiate or interpret the styles in furniture</p> <p>CO4: Analyse the trends in furniture usage</p> <p>CO5: Care and maintain furniture used in a given area.</p>
		COMPUTER AIDED DESIGN- II	<p>The student's will be able to:</p> <p>CO1: Learn about 3D modeling.</p> <p>CO2: Identify the standard primitive tools.</p> <p>CO3: Know the conversion of 2D models to 3D models.</p> <p>CO4: Understand about rendering in 3D modeling.</p> <p>CO5: Learn the basics of Google Sketch Up.</p>
		FLORICULTURE AND LANDSCAPING	<p>The student's will be able to:</p> <p>CO1: Do floral arrangements based on principles and elements of design.</p> <p>CO2: Classify flowering and ornamental plants.</p> <p>CO3: Make different types of floral arrangements.</p> <p>CO4: Design and plan landscape garden.</p> <p>CO5: Acquire knowledge on modern trends in gardening.</p>
		FUNDAMENTALS OF ARCHITECTURE	<p>The student's will be able to:</p> <p>CO1: Identify the history and development of architecture.</p> <p>CO2: Understand the elementary forms of construction.</p> <p>CO3: Explore the architectural masterpieces of other countries.</p> <p>CO4: Learn the characteristics of Indian architecture.</p> <p>CO5: Know the recent trends in architecture.</p>


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	SEMESTER VI	SOFT FURNISHINGS	<p>The student's will be able to:</p> <p>CO1: Understand the composition, construction, and finishes applied on fabrics for furnishings.</p> <p>CO2: Analyse recent trends in furnishings</p> <p>CO3: Gather information on various household linen, their selection and care.</p> <p>CO4: Adopt various window treatments in interiors.</p> <p>CO5: Calculate the cost of furnishing a house.</p>
		APPLIED ARTS	<p>The student's will be able to:</p> <p>CO1: Appreciate art and evaluate art objects.</p> <p>CO2: Understand the process of enriching wood, metal, ceramics and glass.</p> <p>CO3: Create craft items like macramé collage, decoupage and basket weaving</p> <p>CO4: Understand the importance, selection and placement of accessories.</p> <p>CO5: Know the different styles of food service.</p>


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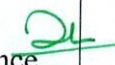


COURSE OUTCOME

		COURSE NAME	COURSE OUTCOME
B.Sc. MATHEMATICS	SEMESTER I	ALGEBRA & TRIGONOMETRY	<ul style="list-style-type: none"> • Classify and Solve reciprocal equations. • Find the sum of binomial, exponential and logarithmic series. • Find Eigen values, eigen vectors, verify Cayley – Hamilton theorem and diagonalize a given matrix. • Expand the powers and multiples of trigonometric functions in terms of sine and cosine. • Determine relationship between circular and hyperbolic functions and the summation of trigonometric series
		DIFFERENTIAL CALCULUS	<ul style="list-style-type: none"> • Find the nth derivative, form equations involving derivatives and apply Leibnitz formula. • Find the partial derivative and total derivative coefficient. • Determine maxima and minima of functions of two variables and to use the Lagrange's method of undetermined multipliers. • Find the envelope of a given family of curves. • Find the evolutes and involutes and to find the radius of curvature using polar coordinates
		NUMERICAL METHODS WITH APPLICATIONS	<ul style="list-style-type: none"> • The student will be able to solve Iteration method- Regula-falsi method- Newton-Raphson method. • The student will be able to calculate interpolation values by applying Gauss-Elimination method, Gauss-Jordan method. • The student will be able to calculate Differences of a polynomial Factorial polynomials- inverse operator Δ^1 Summation Series. • The student will be able to estimate one or more missing terms of the given set of data. • The student will be able to estimate the interpolation value for unequal intervals based on Lagrange's formula of inverse interpolation.


Dr. Freda Gnanaselvam, Ph.D.,
 Principal

		BRIDGE MATHEMATICS	<ul style="list-style-type: none"> • Prove the binomial theorem and apply it to find the expansions of any $(x + y)^n$ and also, solve the related problems • Find the various sequences and series and solve the problems related to them. Explain the principle of counting. • Find the number of permutations and combinations. Apply the principle of counting to solve the problems on permutations and combinations • Explain various trigonometric ratios and find them for angles, including sum of the angles, multiple and submultiple angles, etc. Also, they can solve the problems using the transformations. • Find the limit and derivative of a function at a point, the definite and indefinite integral of a function. Find the points of min/max of a function.
	SEMESTER II	ANALYTICAL GEOMETRY	<ul style="list-style-type: none"> • Understand and apply the concept of homogeneous equations of second degree to represent straight lines in different forms. • Derive polar equations for straight lines, circles, and conic sections, and analyze their geometric properties. • Formulate general equations of planes, calculate angles between two planes, and determine perpendicular distances. • Calculate the angle between a line and a plane, determine the length of perpendiculars, and analyze coplanar and skew lines. • Formulate equations of spheres, determine lengths of tangents, and analyze sections of spheres.
		INTEGRAL CALCULUS	<ul style="list-style-type: none"> • Determine the integrals of algebraic, trigonometric and logarithmic functions and to find the reduction formulae. • Evaluate double and triple integrals and problems using change of order of integration. • Solve multiple integrals and to find the areas of curved surfaces and volumes of solids of revolution. • Explain beta and gamma functions and to use them in solving problems of integration. • Explain Geometric and Physical applications of integral calculus.
		NUMERICAL METHODS - II	<ul style="list-style-type: none"> • The student will be able to evaluate derivatives by applying Newton's forward and backward differences formulae. • The student will be able to evaluate integrations by applying the trapezoidal rule, Simpson's rules, and Weddle's rule. • The student will be able to find a complete solution to linear difference equations.



Dr. Freda Gnanaselvam, Ph.D.,
 Principal

			<ul style="list-style-type: none"> The student will be able to estimate approximate numerical solutions of ordinary differential equations by Euler, Picard and Taylor. The student will be able to estimate approximate numerical solutions of ordinary differential equations by Runge-Kutta methods.
		MATHEMATICS FOR COMPETITIVE EXAMINATIONS - II	<ul style="list-style-type: none"> Make critique of quantitative information using proportional reasoning. Interpret and compare weighted averages, indices, ranking. Identify uses and misuses of percentages related to a proper understanding of the bases. Examining and estimating percentages as rates per 100 Solve for an unknown quantity in proportional situation.
		OFFICE AUTOMATION	<ul style="list-style-type: none"> Understand the basics of computer systems and its components. Understand and apply the basic concepts of a word processing package. Understand and apply the basic concepts of electronic spreadsheet software. Understand and apply the basic concepts of database management system. Understand and create a presentation using PowerPoint tool.
	SEMESTER III	DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORM	<ul style="list-style-type: none"> After studied unit -1, the student will be able to know the various methods of solving the first-order higher degree differential equations. After studied unit -2, the student will be able to carry out the different methods of solving the second order differential equations. After studied unit -3, the student will be able to understand the concepts of total differential equations and solve the problems. After studied unit -4, the student will be able to demonstrate knowledge of Laplace transform and its applications. After studied unit -5, the student will be able to solve partial differential equations.
		MATHEMATICAL STATISTICS - I	<ul style="list-style-type: none"> Understanding Sampling distribution and to Derive the probability density function of distribution functions. Understanding theory of estimation and methods of estimating parameters and also finding maximum likelihood estimator.
	SEMESTER IV	VECTOR ANALYSIS AND FOURIER SERIES	<ul style="list-style-type: none"> Knowing the physical and geometrical meaning of the derivative, divergence and curl. Analyzing the Fourier series in both theory and application level. Knowing the application of Stroke's theorem, Gauss Divergence theorem.

			and Green's theorem
		STATICS	<ul style="list-style-type: none"> • After studied unit -1, the student will be able to know about the forces and equilibrium of a particle. • After studied unit -2, the student will be able to identify the parallel forces and couples and solve related problems. • After studied unit -3, the student will be able to demonstrate knowledge of friction and its applications. • After studied unit -4, the student will be able to find the centre of mass of different laminas. • After studied unit -5, the student will be able to demonstrate knowledge of sag and suspension bridge and solve related problems.
		MATHEMATICAL STATISTICS - II	<ul style="list-style-type: none"> • Understanding concepts of testing hypothesis and applying it to large and small sample. • Understanding interval estimation and finding confidence intervals. Use F-test in Analysis of Variance.
	SEMESTER V	ABSTRACT ALGEBRA	<ul style="list-style-type: none"> • Able to understand groups, subgroups, homomorphism and isomorphism. • Able to understand the basics of rings, ideals and integral domain. • Able to do the problems in permutation.
		REAL ANALYSIS I	<ul style="list-style-type: none"> • Describe fundamental properties of the real numbers that lead to the formal development of real analysis. Comprehend regions arguments developing the theory underpinning real analysis • Demonstrate an understanding of limits and how that are used in sequences, series and differentiation. Construct rigorous mathematical proofs of basic results in real analysis. • Appreciate how abstract ideas and regions methods in mathematical analysis can be applied to important practical problems. Read analyze and write logical arguments to prove mathematical concepts
		COMPLEX ANALYSIS I	<ul style="list-style-type: none"> • Gaining knowledge about complex function and its nature limits and analytic functions • Gaining knowledge about elementary transformation. • Gaining knowledge about line integrals and techniques for solving problem.
	SEMESTER VI	PROGRAMMING LANGUAGE IN C	<ul style="list-style-type: none"> • Understand the fundamentals of solutions of algebraic and transcendental equations by bisection method, iteration method, Regula - falsi method, Newton - Raphson method.

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		<ul style="list-style-type: none"> Acquire knowledge to solve the set of equations by gauss elimination method, gauss Jordan method, gauss sieidal method, crout's method. Learn the concepts of finite differences- E operators and the relation between them topics like differences of a polynomial, factorial polynomial, differences of zero, summation series also discussed to understand the operators better.
	LINEAR PROGRAMMING	<ul style="list-style-type: none"> Understanding various techniques of simplex method and analogies between transportation problem and assignment models. Examine any real world problem as LPP.
	LINEAR ALGEBRA	<ul style="list-style-type: none"> Use technology, where appropriate, to enhance and facilitate mathematical understanding, as well as an aid in solving problems and presenting solutions. Communicate and understand mathematical statements, ideas and results, both verbally and in writing, with the correct use of mathematical definitions, terminology and symbolism. Work collaboratively with peers and instructors to acquire mathematical understanding and to formulate and solve problems and present solutions.
	REAL ANALYSIS II	<ul style="list-style-type: none"> Fundamental objects, techniques and theorems in the mathematical sciences including the fields of analysis. Knowing the difference between continuity, uniform continuity, Riemann integration & its properties. Understanding the concept of complete metric space & problems related to Rolle's theorem, law of mean.
	COMPLEX ANALYSIS II	<ul style="list-style-type: none"> Gaining knowledge about contour integration and problem solving techniques. Gaining knowledge about singularities, Residues and Power Series expansions of analytic functions.
	GRAPH THEORY	<ul style="list-style-type: none"> After studied unit -1, the student will be able to know various graph structures and isomorphism between graphs. After studied unit -2, the student will be able to know the representation of the graphs in matrix form After studied unit -3, the student will be able to know the concepts of connected graph, component, cut point, and bridge of a graph. After studied unit -4, the student will be able to know about trees and their applications.


Dr. Freda Gnanaselvam, Ph.D.,
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| | | | <ul style="list-style-type: none">• After studied unit -5, the student will be able to demonstrate knowledge of Eulerian and Hamiltonian graphs. |
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DEPARTMENT OF NUTRITION, FOOD SERVICE MANAGEMENT & DIETETICS
 COURSE OUTCOME


		COURSE NAME	COURSE OUTCOME
B.Sc. NFSMD	SEMESTER I	HUMAN PHYSIOLOGY	<ul style="list-style-type: none"> Recall the structure and functions of the cell, its organelles and the various tissues Describe the structure and functions of the various organs and systems in the body Identify the microscopic structure of basic tissues, label the parts of primary physiological systems in the body such as nervous, respiratory , digestive, endocrine and reproductive systems Evaluate the role of the nervous and endocrine system in regulating the activities of other systems Perform haematological study of blood such as blood smear, blood count and blood grouping, record pulse, blood pressure and interpret a normal ECG.
		BASICS OF FOOD MICROBIOLOGY	<ul style="list-style-type: none"> Understand the interaction between micro-organisms and food. Obtain a basic understanding of the microbial phenomena occurring in food products and factors affecting the growth of microbes. Recognize the microbes causing food spoilage and food borne illnesses. Explain sources of contamination, principles of preservation and types of spoilage of different foods. Evaluate the role of microorganisms in food safety
		ELECTIVECOURSE-EC1- ALLIED CHEMISTRY-I	<ul style="list-style-type: none"> State the theories of chemical bonding, nuclear reactions and its applications.


Dr. Freda Gnanaselvam, Ph.D.,
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		<ul style="list-style-type: none"> Evaluate the efficiencies and uses of various fuels and fertilizers. Explain the type of hybridization, electronic effect and mechanism involved in the organic reactions. Demonstrate the structure and uses of antibiotics, anesthetics, antipyretics and artificial sugars. Analyse various methods to identify an appropriate method for the separation of chemical components.
	SKILL ENHANCEMENT COURSE-SEC-1-WOMEN, HEALTH AND WELLNESS	<ul style="list-style-type: none"> Define terms related to nutrition, physical, reproductive, mental and social health Discuss the need for right nutrition, exercises and skills needed for the overall well-being of women. Explain the significance of maintaining physical, reproductive, mental and social health for the overall well-being of women. Devise strategies to improve women's health in a holistic manner Recommend simple measures for a healthy lifestyle.
	FOUNDATION COURSE FC – FOUNDATION COURSE IN HOME SCIENCE – NUTRITION, FOOD SERVICE MANAGEMENT AND DIETETICS	<ul style="list-style-type: none"> Describe basic concepts in Food Science, Nutrition, Dietetics and Food Service Management Identify the relationship between food, nutrition, diet and health Explain the concept of Food Services and Food Service Management Analyze the importance of the study of Food Service Management, Human Development, Interior Decoration and Textiles Summarize the career opportunities available in Home Science, Nutrition, Dietetics and Food Service Management
SEMESTER II	FOOD SCIENCE	<ul style="list-style-type: none"> Identify and classify foods based on the food grouping system and illustrate their use Define the foods, describe its structure and distinguish their composition Demonstrate ability to appraise nutritive value of different food groups and select good quality foods. Compare the nutrients present in different types of food and choose foods rich in specific nutrients Analyze the effect of cooking on the quality of food and discriminate the desirable and undesirable changes
	CORE COURSE- CC4 BASIC COOKERY PRACTICAL	<ul style="list-style-type: none"> Identify appropriate methods for weighing dry and wet food ingredients and for cooking different foods. Select suitable methods for cooking cereals, pulses, vegetables, eggs, milk, meat, fish and poultry. Apply the principles of cookery, cooking techniques and suitable


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			<p>ingredients and additives in preparing dishes.</p> <ul style="list-style-type: none"> • Explain the reasons behind the changes that occur during food preparation. • Justify the best preparation and cooking methods for acceptability and retention of nutrients in different dishes
		ELECTIVE / SEC-2: LIFE SKILL STRATEGIES AND TECHNIQUES	<ul style="list-style-type: none"> • Describe different skills and techniques needed to maintain a healthy personal and professional approach to life. • Identify skills needed for a healthy lifestyle • Explain the need to develop various skillsets for a holistic life. • Develop confidence with respect to emotional competency, personal and professional life • Recommend life skill strategies for the holistic development of the individual.
		SKILL ENHANCEMENT COURSE SEC-3 :BASICS IN FOOD PRODUCT DEVELOPMENT	<ul style="list-style-type: none"> • Identify, categorize, and analyze major trends in product development. • Identify the processes & stages for new product development from conception to commercialization. • Understand the role of sensory and objective evaluation in product development, quality control, and research in the food and other consumer industries. • Explain the adequate theoretical background and practical understanding of sensory evaluation of food. • Develop a new food product from concept to prototype or pilot-scale production with the inclusion of a critical analysis of the quality, safety, shelf-life, packaging, labeling, and cost of the product.
SEMESTER III		FOOD SCIENCE	<ul style="list-style-type: none"> • Understand the food groups and their functions • Acquire knowledge on different methods of cooking • Apply process of different foods • Use combination of foods in the development of food products • Understand the principles of sensory analysis
		NUTRITIONAL BIOCHEMISTRY	<ul style="list-style-type: none"> • Understand the basic concepts of biochemistry • Gain knowledge on metabolism of carbohydrate, protein and lipids • Know the mechanism of enzyme action • Understand the inborn errors of metabolism
SEMESTER IV		HUMAN NUTRITION	<ul style="list-style-type: none"> • Explores the various nutrients, their sources, digestion, absorption, metabolism, interaction, storage and excretion.


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		<ul style="list-style-type: none"> • Able to identify what foods are good sources for what nutrients. • Utilize knowledge from the physical and biological sciences as a basis for understanding the role of food and nutrients in health and disease processes.
	FOOD PRESERVATION	<ul style="list-style-type: none"> • Understand what is food preservation, canning, drying food preservation and freezing etc., • Formulate environmental friendly and nutritious food products. • Develop analytical skills to be employed in industries. • Competent to take up careers in academics, researches, health care, processing and preservation industries.
SEMESTER V	DIETETICS-I	<ul style="list-style-type: none"> • Able to understand principles of diet therapy • Able to modify normal diet for therapeutic purpose • Understand the role of dietitian • Gain knowledge about etiology, risk factors and clinical features of various disease conditions
	NUTRITION THROUGH LIFE CYCLE	<ul style="list-style-type: none"> • Know about growth and development from infancy to adolescent • Understand nutrition requirement during pregnancy and lactation • Able to plan and prepare a menu for different age group based on RDA • Able to fulfill the nutritional needs of various age groups
	COMMUNITY NUTRITION	<ul style="list-style-type: none"> • Understand the role of interventions to enhance wellness in diverse individuals and groups • Skills to develop an educational program for a target population • Capable to formulate new food products for a target group • Evaluate impact of nutritional awareness program on Nutritional and health status
	HOSPITAL FOOD SERVICE ADMINISTRATION	<ul style="list-style-type: none"> • Planning of menu to accommodate the nutritional, dietary and medical needs, cultural and religious requirements and personal preferences of clients • Manage nutritional needs of diverse clients in healthcare and other food service settings in collaboration with or under the direction of health care professionals • Promote food and nutrition services and healthy living to support marketing plans and the general well-being of clients
SEMESTER	DIETETICS-II	<ul style="list-style-type: none"> • Gain knowledge on the role of diet therapy for various disease conditions

Dr. Freda Gnanaselvam, Ph.D.,
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M.M.E.S. Women's Arts & Science College
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	VI		<ul style="list-style-type: none"> • Apply the knowledge in planning preparation and distribution of therapeutic diets for various disease conditions • Enable to counsel related to the dietary management • Equip to become a dietitian on hospital industries.
		FOOD SERVICE MANAGEMENT	<ul style="list-style-type: none"> • Establish a food service unit • Manage human resources and solve problems with remedial measures • Analyze and implement quality control in food service institution • Promote the product in the market
		HUMAN DEVELOPMENT AND COUNSELLING	<ul style="list-style-type: none"> • Understand the principles of studying growth and development • Recognize the eight stages of human life span • Know the concept of prenatal and postnatal care • Understand the physical and psychological changes in old age
		FOOD STANDARDS & QUALITY CONTROL	<ul style="list-style-type: none"> • Understand the specification and standards for different products • Comprehend the knowledge gained on food laws and food safety regulations at regional and national level • Monitor and evaluate food laws and standards in food service industry • Acquire knowledge on food hazards and food adulteration
		NUTRACEUTICALS & NUTRIGENOMICS	<ul style="list-style-type: none"> • Understand the developments in the field of nutraceuticals and nutrigenomics • Comprehend the components of functional foods and foods containing of nutraceuticals • Know the importance of probiotics and prebiotics in human health • Understanding the effects of nutrients in molecular level in the body and the effect of phytochemicals in disease in disease conditions • Articulate and advocate the principle of nutrigenomics in controlling life style disease


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COURSE OUTCOME

		COURSE NAME	COURSE OUTCOME
B.A ARABIC	SEMESTER I	GRAMMAR I	<ul style="list-style-type: none"> • Explain flawless sentences in Arabic in line with virtues prescribed in the texts. • Identify grammatical errors in sentences. • Apply their knowledge in writing adverbs and adjectives. • Determine the meanings of vowel-less Arabic sentences. • Analyze the ways and means to develop spoken Arabic ethically.
		ARABIC MORPHOLOGY	<ul style="list-style-type: none"> • Give examples in writing the conjugation of verbs in past tense and problem solving. • Illustrate the conjugation of imperfect tense with a review of literary pieces having a moral meaning. • Explain the conjugation of imperfect verb with review of literary pieces. • Categorize the kinds of verbs focusing on socio-economics concepts. • Assess triliteral verbs and four root lettered verb holding on ethics.
		HISTORY OF PROPHETS-I	<ul style="list-style-type: none"> • Understand the essence of faith ideas and concepts with universal brotherhood. • Examine the importance of zam zam water in good physical condition religiously. • Illustrate the life of the prophet Ibrahim (AS) in bridging differences and strengthening unity. • Categorize incidents of prophrt yusuf s life and point out his polite qualities. • Summarize the nature of characters biographies to guide future generations.
	SEMESTER II	GRAMMAR II	<ul style="list-style-type: none"> • Distinguish Between Transitive And Intransitive Verbs. • Interpret The Conjugation Of Imperfect Tense Verbs. • Dissect The Different Forms Of The Imperfect Tenses. • Appraise The Rules Of Derived Nouns And Adjective Nouns. • Evaluate The Categories Other Than The Trilateral Verbs.
		ARABIC PROSE	<ul style="list-style-type: none"> • Acquire The Skills Of Conjugating Verbs In Arabic. • Construct The Imperative Verbs As Per The Rules. • Practice Creation Of Various Sentences In Arabic

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M.M.E.S. Women's Arts & Science College
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			<ul style="list-style-type: none"> Analyze The Weak Letters In Arabic. Illustrate The Numerals In Arabic.
		HISTORY OF PROPHET II	<ul style="list-style-type: none"> Explain The Creation Of Adam (Pbuh) And Its Purpose. Discuss The Story Of Nooh (Pbuh) Examine The Causes For The Flood During Nooh (Pbuh) Interpret The Transgression Of Nation Of Aad Summarize The History Of Saalih (Pbuh) And His Nation.
SEMESTER III		GRAMMAR III	<ul style="list-style-type: none"> Define the rules related to Mudaf and al-Aasmaa al Khamasa. Distinguish between the signs of feminine in nouns and verbs. Dissect the different forms of pronouns. Apprise the rules of Asmavul Ishrah and Af'aal al istimar. Evaluate the various categories of Maf'ool.
		CLASSICAL PROSE I	<ul style="list-style-type: none"> Translate the meanings of surah ad Duha to al alaq. Appraise the connotations of surah al qariyah to al humaza. Interpret the meanings of surah al feel – al kaafroon. Illustrate the meanings of surah an Nasr to an Naas..
		HISTORY OF PROPHETS-I	<ul style="list-style-type: none"> Explain the settlement of Banu Israyeel in Egypt. Discuss the story of Moosa (pbuh). Examine the causes for the migration of Moosa (pbuh) from Egypt to Madyan. Elucidate the marriage of Moosa (pbuh) and his return to Misr. Summarize the miracles of Moosa (pbuh) in front of firawn and his challenge to him.
SEMESTER IV		GRAMMAR IV	<ul style="list-style-type: none"> Define the various types of Mubthad and khabar. Describe 'mawaliu fatah hamza anna' and 'inna'. Compare the different situations of al dhamayirul baariza. Appraise the different types of verbs in Arabic. Evaluate the definitions of ismul faa'il and ismul mafool..
		CLASSICAL PROSE II	<ul style="list-style-type: none"> Illustrate the basic etiquettes of Islam. Discuss the important characters of a believer. Compare the various aspects of knowledge. Demonstrate doing good to others. Practice the good traits and behaviors.
		HISTORY OF PROPHETS-II	<ul style="list-style-type: none"> Describe the discussion between Moosa and firawn and his foolishness. Review the various kinds of punishments afflicted upon bani Israyeel.


Dr. Freda Granaselvam, Ph.D.,
Principal

		<ul style="list-style-type: none"> • Interpret the end of firawn and the story of the cow. • Analyze the incidents related to the worship of calf. • Evaluate the status of bani Israyeel after Moosa.
SEMESTER V	GRAMMAR -V	<ul style="list-style-type: none"> • Define the rules of Ismul faayil al mutasna. • Demonstrate the signs of al haal and munatha. • Dissect the different conditions of all mamnoo minas sarf. • Distinguish between wavul adhfi va wavul mayiya. • Evaluate the categories of al badhi and al isthifhaam
	ARABIC POETRY	<ul style="list-style-type: none"> • Discuss the style of poems in classical Arabic literature • Analyze the Arabic poetry and its methodology • Describe the power and authority of Allah • Interpret the Arabic poems in a simple manner. • Compose simple poems in Arabic.
	MODERN PROSE	<ul style="list-style-type: none"> • Recognize the style of prose writing in Arabic. • Evaluate the tendencies in modern Arabic prose. • Describe the trends in Modern Arabic Prose. • Interpret the Arabic prose in a simple method. • Construct simple sentences in Arabic language.
	RHETORIC-I	<ul style="list-style-type: none"> • Define Balaga (rhetoric) in Arabic language. • Assess the classification of Arabic rhetoric and its impact in Arabic literature. • Describe the special feature of Ilmu bayan. • Illustrate the various topics in balaga with suitable examples. • Explain similies, metaphors and other topics in Arabic rhetoric.
	SECRETARIAL PRACTICE IN ARABIC	<ul style="list-style-type: none"> • Describe the translation method of advertisements and receipts. • Compose the employments contracts in Arabic. • Interpret the bio data's, visas, and certificates in Arabic. • Demonstrate the present day vocabulary in modern Arabic. • Appraise the idioms, phrases and abbreviations in Arabic.
	COMMUNICATION SKILLS IN ARABIC	<ul style="list-style-type: none"> • Recognize the significance of Arabic communication. • Demonstrate the communication in various situations. • Manage to communicate in day to day situations. • Illustrate the vocabulary related to health service. • Practice the reading ,writing and translation skills in Arabic.
SEMESTER VI	MODERN POETRY	<ul style="list-style-type: none"> • Define the significance of modern Arabic poetry. • Discuss about the various literary schools and trends in Modern Arabic Poetry. • Differentiate between the various forms of poetry.

			<ul style="list-style-type: none"> • Distinguish the different genres of poetry. • Describe the aspects of modern Arabic poetry.
		RHETORIC II	<ul style="list-style-type: none"> • Discuss about the status on ilm al maani in Arabic Rhetoric. • Distinguish between the classification of khabar and inshaa. • Explain the important topics like Fasl, Wasl, Eejaaz and Itnab. • Describe the importance of Ilm al badee in Arabic Rhetoric. • Define sajaa ,tibaag,iqtibaas and usloob al hakeem.
		MODERN ARABIC LITERATURE	<ul style="list-style-type: none"> • Review the concepts of Modern Arabic Literature. • Recognize the significance of Modern Arabic literature. • Record the development of Arabic literature in the modern period. • Recall the important Arabic authors in modern literature. • Restate the main characteristics of prose and poetry in modern era.
		ESSAYS IN ARABIC	<ul style="list-style-type: none"> • Recognize the essay writing skills in Arabic. • Identity the formation of sentences in Arabic language. • Practice the paragraph and essay writing in Arabic. • Demonstrate the writing skills in Arabic language. • Analyze the errors in writing essays and correct them.
		COVERSATIONAL ARABIC	<ul style="list-style-type: none"> • There is almost no shared vocabulary between Arabic and Latin-based language. • Arabic is a highly inflection tongue. • There are ten usual verb pattern. • Plurals and their agreements with numbers are more difficult and complex than what we are used to in English. • Arabic is foreign to English speakers in every sense of the word.


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COURSE OUTCOM

		COURSE NAME	COURSE OUTCOME
M.A.ENGLISH	SEMESTER I	POETRY	<ul style="list-style-type: none"> • Demonstrate knowledge of the movements that influenced the literature beginning from English Poetry starting from Medieval to Modern Period • Trace the evolution of various literary movements .Distinguish and analyse the different genres of writings of the period. • Critically evaluate the literary language of the texts Prescribed. • Compare the literature of the age with the subsequent ages in the history of English Literature and interpret its significance in history. • Exhibit the skill of analyzing literary works and writing effectively.
		DRAMA	<ul style="list-style-type: none"> • Appraise various aspects of drama and theatre • Identify drama and performance as a cultural process and an artistic discourse • Evaluate plot structure ,characterization and dialogue • Interpret drama texts as aesthetic records of their times viz., Elizabethan ,Restoration ,Victorian and Early Modern ages, • Examine the sequential course dealing with Modern and Postmodern British Drama
		FICTION	<ul style="list-style-type: none"> • Acquaint the knowledge about the development of Novel as a literary form. • Identify the characteristic of different periods and Interpret the works of eminent writers. • Categorize the novels of different periods and Interpret

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			<p>the works of feminent writers.</p> <ul style="list-style-type: none"> • Awareness on social, historical, literary and cultural elements of the changes in American Literature • Critically examine the works of the writers prescribed.
	SEMESTER II	INDIAN WRITING IN ENGLISH	<ul style="list-style-type: none"> • Understand the themes of Indian Writing in English • Identify the major trends in Indian Writing in English • Examine the background and settings of the prescribed texts • Evaluate the cultural significance of Indian English Literature • Be exposed to diverse culture and literature that will further enlighten them about socio-cultural scenario in the contemporary era.
		AMERICAN LITERATURE	<ul style="list-style-type: none"> • Recognize the contributions of major American writers and their impact on the development of American Literature • Analyze the movements and trends that shaped American Literature • Gain knowledge about the transcendentalist and Romantics movements • Validate representative socio-political, cultural, racial and gender perspectives in the prescribed texts • Critically analyze the multicultural sensibility of American society
		SHAKESPEARE STUDIES	<ul style="list-style-type: none"> • Identify the social, cultural and political events as represented in the works of Shakespeare • Understand Elizabethan theatre and the theatre's development • Illustrate the linguistic richness and figurative language of the plays • Identify the trends and approach in Shakespeare studies • Critically analyse the works of Shakespeare
	SEMESTER III	POST COLONIAL LITERATURE	<ul style="list-style-type: none"> • Evaluate the political and social background of the third world nations • Identify the emerging trends in Post-Colonial Literature • Examine the problems and consequences of the


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Principal

			<ul style="list-style-type: none"> decolonization of a country, Examine the ethnocentric perspective of different colonial cultures with respect to postcolonial literature Interpret the postcolonial concepts found in different literary genres
		CONTEMPORARY LITERARY CRITICISM	<ul style="list-style-type: none"> Understanding literary text by apply in various critical theories. Develop the objective analysis is of the subject matter Analyza literary text with reference to socio-political issues Evaluate critically and aesthetically the prescribed texts. Demonstrate an understanding of the changing emphasis in the study of literature from text towards context
		LANGUAGE AND LINGUISTICS	<ul style="list-style-type: none"> Understanding literary text by apply in various critical theories. Develop the objective analysis is of the subject matter Analyza literary text with reference to socio-political issues Evaluate critically and aesthetically the prescribed texts. Demonstrate an understanding of the changing emphasis in the study of literature from text towards context
		WRITINGS OF THE MARGINALIZED	<ul style="list-style-type: none"> Understand the historical and political background of Marginalized issues Identify and analyse the texts of the marginalized writers Analyze a Literary text with reference to socio-political Issues Recognize the predicament of the marginalized people Experience the subaltern nation and people through the texts Prescribed.
		COMPARITIVE LITERATURE AND CLASSICS IN TRANSLATION	<ul style="list-style-type: none"> Understand the systematic study of Translation Understanding the dimensions of language and its nuances essential for translation Exposure to effective translation
	SEMESTER IV		


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M.M.E.S. Women's Arts & Science College
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		STUDIES	<ul style="list-style-type: none"> • Equipped in the skills as well as the politics of translation • Exposure to Literature in the regional languages through representative texts in English translation •
		A GLIMPS OF NOBLE LITERATURE	<ul style="list-style-type: none"> • Relate to the outstanding works of Nobel Laureates in an idealistic direction that adds the greatest benefit to humankind • Interpret the works of various Nobel Laureates • Analyse the different themes with regard to social, political and cultural aspects. • Evaluate critically and aesthetically the prescribed texts. • Perceive the influence of Nobel Laureates in Literature •
		PROJECT AND RESEARCH METHODOLOGY	<ul style="list-style-type: none"> • Comprehend the structure of a Research thesis through its formatting process • Acquire the Mechanics of Academic writing • Learn the ethics in Research writing • Familiarize themselves with the documentation methodology • Get acquainted with the importance of citation and its relevant technicalities


Dr. Freda Gnanaselvam, Ph.D.,
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COURSE OUTCOME

COURSE	SEMESTER	COURSE NAME	COURSE OUTCOME
M.Sc BIOTECHNOLOGY	SEMESTER I	BIOCHEMISTRY	<p>At the end of the Course, the Student will be able to:</p> <ol style="list-style-type: none"> 1. To understand the basics of pH and related principles and carbohydrate metabolism. 2. To provide basic knowledge about lipid metabolism and related significance. 3. To enlighten the students on Bio-energetics and Biological oxidation pathways. 4. To update the knowledge on Amino acids and Protein. 5. To assess and appraise the role of Nucleic acids.
		MOLECULAR GENETICS	<p>At the end of the Course, the Student will be able to:</p> <ol style="list-style-type: none"> 1. To acquire good knowledge about the molecular mechanisms of gene expression and understand the theories behind the organization and functions of genetic material in the living world. 2. Identify and distinguish genetic regulatory mechanisms at different levels and explain the processes behind mutations and other genetic changes and study various chromosomal abnormalities. 3. Make the students understand different range of DNA damage and range of their tools for their detection an. 4. Learn the concepts of the transposons and their applications. 5. Detects the Allele frequencies and genotype frequencies in populations and describe the concepts behind the theory of evolution
		MOLECULAR CELL BIOLOGY	<ol style="list-style-type: none"> 1. To understanding of the molecular machinery of living cells and the principles that govern the structures of macromolecules and their participation in molecular recognition. 2. Identify the structures and purposes of basic components in prokaryotic and eukaryotic cells and their molecular mechanism

Dr. Freda Gnanaselvam, Ph.D.,
Principal

			<ol style="list-style-type: none"> 3. Demonstrate knowledge and understanding of the principles and basic mechanisms of nuclear envelope and its functions. 4. Understand the metabolic pathways and the process of transmission of extracellular signals 5. Demonstrate the operation of various microscopes and microtomy in the laboratory
		BIOINSTRUMENTATION	<p>At the end of the Course, the Student will be able to:</p> <ol style="list-style-type: none"> 1. Introduction and various types of Microscopic techniques 2. Impart understanding on centrifugation instruments and techniques 3. Separation of Biomolecules 4. Analytical methods on Spectroscopic Analysis 5. Understand the application and Detection on Bioinstrumentation
		ENZYMOLGY	<ol style="list-style-type: none"> 1. Explain the basics of enzyme nomenclature and properties 2. Classify and Cognize the native and immobilized enzyme 3. Examine the equations of steady state kinetics 4. Assess extraction and downstream processing of enzymes 5. Compile the uses of enzymes and design enzymes for Industrial and Clinical application
	SEMESTER II	MICROBIOLOGY	<ol style="list-style-type: none"> 1. To understand the major discoveries of microbiology and describe microbial diversity, Microbial growth and metabolism. 2. To provide basic knowledge about microbial culture, identification of microbes, principle and working of microscopes and sterilization techniques 3. To enlighten the students on host microbe interaction and Epidemiology of microbial disease 4. To update the knowledge on epidemic and pandemic diseases. 5. To assess and appraise the role of novel microbes in environment and integrate them in specific innovative approaches.
		PLANT AND ANIMAL BIOTECHNOLOGY	<ol style="list-style-type: none"> 1. To impart theoretical knowledge on various techniques of plant biotechnology like tissue culture, plant genetic transformation and their application in industries. 2. Importance of secondary metabolites and production in plants. 3. To develop concepts, principles and processes in animal biotechnology. 4. Concept and different types in Animal Cell Culture and animal cell lines. 5. Use of molecular biology techniques genetically

Dr. Freda Gnanaselvam, Ph.D.,
Principal

			animals to improve sustainability, productivity and suitability for pharmaceutical and industrial applications.
		GENETIC ENGINEERING	<ol style="list-style-type: none"> 1. Understanding the basic steps of gene cloning and the role of enzymes and vectors responsible for gene manipulation, transformation and genetic engineering. 2. Getting detailed knowledge of gene transfer methods and identifying suitable hosts for cloning. 3. Acquiring theoretical knowledge in the techniques, tools, and application and safety measures of genetic engineering. 4. Describes the genome mapping and sequencing and methods for gene therapy. 5. Elucidate different techniques involved in genetic engineering
		REGULATORY AFFAIRS AND INDUSTRIAL STANDARDS	<ol style="list-style-type: none"> 1. Elucidate the basic requirements of establish laboratory for testing samples as per the regulatory body's requirements 2. Describe the Scientific, technical knowledge about various food preservation techniques 3. Describe the basic concepts of packing of food materials, various parameters observed during packaging 4. Describe the testing of food materials and identifying of microbial food contaminant 5. Explain the basic of food safety management system, good manufacturing practice and good hygienic practices
		PHARMACEUTICAL BIOTECHNOLOGY	<ol style="list-style-type: none"> 1. Explain the basic components of pharmaceutical and biotechnology industry and methods and applications of biosensor 2. Describe the Scientific, technical and economic aspects of vaccine & rDNA technology 3. Describe the basic concepts of protein Engineering, therapeutic proteins and enzyme immobilization techniques 4. Describe the concepts of hybridoma technology, microbial biotransformation and microbial bio-transformed products 5. Explain the basic components of somatic gene therapy, Xeno-transplantation and fermenter and bio safety methods
		ENVIRONMENTAL BIOTECHNOLOGY	<p>On successful completion of the course the students will be able to</p> <ol style="list-style-type: none"> 1. explain various waste management methods 2. classify potential methods of biodegrading organic pollutants. 3. examine the techniques involved in remediation of polluted environments 4. assess types of pollution & its control

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			5.compile biotechnological approaches to degrade xenobiotic compounds
		TISSUE ENGINEERING	<ol style="list-style-type: none"> 1. Understand the basics of Basics of Tissue Engineering 2. Apply the knowledge to create tissue culture methods 3. Acquire adequate knowledge in the use of tissue in medical application 4. Evaluate the benefits of Tissue Engineering & Pharmaceutical Products 5. Analyze the importance of applications of tissue engineering
	SEMESTER III	ECOLOGY & ENVIRONMENTAL BIOTECHNOLOGY	<ol style="list-style-type: none"> 1.The students will be able to acquire a complete knowledge about ecosystem and global environmental problems. 2. The students will be able to understand harmful effects of environmental pollution and its methods of control and management. 3. The students will be able to get insight into process involved in wastewater treatment. 4. The student will be understanding the recent developments in solid waste management. 5. The students will be able to learn about bioremediation and use of recombinant organisms for the process.
		PLANT BIOTECHNOLOGY	<ol style="list-style-type: none"> 1.The students will be able to know about genomic interaction 2. The students will be able to understand plant tissue culture techniques 3. The students will be able to know bio chemistry and molecular biology 4. The students will be able to know hybridization technique. 5. The students will be able to understand plant transformation.
		ANIMAL BIOTECHNOLOGY	<ol style="list-style-type: none"> 1.The students will be able to study basic needs of cell culture 2. The students will be able to implant knowledge on media 3. The students will be able to describe genetic engineering in animals 4. The students will be able to know ethical concerns over the use of animal biotechnology. 5. The students will be able to know various biotechnologies available to the animal related fields.
		INDUSTRIAL BIOTECHNOLOGY	<ol style="list-style-type: none"> 1. The students will be able to know about introduction to biotechnology and major classes of commercial products using microorganisms.

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			<p>2. The students will be able to understand introduction to biotechnology and major classes of commercial products using microorganisms.</p> <p>3. The students will be able to know the bioreactors / fermentor: types and microbial culture and its types</p> <p>4. The students will be able to know microbial enzymes in food processing</p> <p>5. The students will be able to understand plant transform biofertilizers and its types</p>
	SEMESTER IV	RESEARCH METHODOLOGY	<p>1. The students will be able to understand the research and its types.</p> <p>2. The students will be able to understand the collection of reviews from various journals.</p> <p>3. The students will be able to learn about writing research proposals.</p> <p>4. The students will be able to know about scientific papers.</p> <p>5. The students will be able to know about the thesis writing and oral and poster presentation.</p>
		BIOSAFETY, BIOETHICS AND IPR	<p>1. The students will be able to understand the basics of biosafety and biodiversity.</p> <p>2. The students will be able to understand the guidelines of biosafety.</p> <p>3. The students will be able to learn about bioethics and socio economics.</p> <p>4. The students will be able to know about patent and intellectual rights.</p> <p>5. The students will be able to know about the patent and patent laws.</p>


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COURSE OUTCOME

M.COM	SEMESTER I	BUSINESS FINANCE	<ul style="list-style-type: none"> • Explain the important finance concepts. • Estimate risk and determine its impact on return. • Examine leasing and other sources of finance for startups. • Summaries cash, receivable and inventory management techniques. • Evaluate techniques of long term investment decision incorporating risk factor.
		BUSINESS FINANCE	<ul style="list-style-type: none"> • Explain the dynamics of digital marketing • Examine online marketing mix • Compare digital media channels • Explain online consumer behavior. • Analyze social media data.
		BANKING AND INSURANCE	<ul style="list-style-type: none"> • Relate the transformation in banking from traditional to new age • Apply modern techniques of digital marketing • Evaluate the role of insurance sector. • Examine the regulatory mechanism. • Assess risk mitigation strategies.
		OPERATION RESEARCH	<ul style="list-style-type: none"> • Apply linear programming • Identify models for problems. • Apply sequencing and game theory. • Apply network analysis to enhance effectiveness • Examine the models for decision making
		STRATEGIC HUMAN RESOURCE MANAGEMENT	<ul style="list-style-type: none"> • Recall the fundamental of strategic human resource management • Examine the conceptual frame work of strategic human resource management models

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			<ul style="list-style-type: none"> • Apply the knowledge of various strategies in human resource management in the corporate • Illustrate drafting of HR policies • Analyze the latest trend in the strategic human resource management
	SEMESTER II	STRATEGIC COST MANGEMENT	<ul style="list-style-type: none"> • Explain strategic cost management and quality control. • Choose the appropriate technique for cost control • Choose different methods of decision making techniques. • Choose transfer pricing methods to solve problems • Make use of activity based costing in practice.
		CORPORATE ACCOUNTING	<ul style="list-style-type: none"> • Determine profit and financial position by preparing financial statements of companies as per schedule III of companies Act,2 • Apply the provisions of IRDA regulations in the preparation of final accounts of Life insurance and general insurance companies • Determine the overall profitability and financial position by preparing consolidated financial statements of holding companies in accordance with AS21 • Analyze contemporary accounting methods • Examine financial reporting based on appropriate accounting standard and provisions of companies Act 2013 with respect to corporate social responsibility
		SETTING UP OF BUSINESS ENTITIES	<ul style="list-style-type: none"> • Compare the various avenues of acquiring finance to setup a business entity • Recall the legal requirements for section 8 company • Examine the provisions for LLP and joint venture • Analyze the registration and licensing procedure • Examine the compliance of regulatory framework regarding environment
		BUSINESS ETHICS AND CORPORATE SUSTAINABILITY	<ul style="list-style-type: none"> • Apply the concepts of business ethics in practice • Demonstrate ethical decision making by applying various theories • Evaluate moral issues relating to business, marketing, advertising, finance, HR and environmental protection

			<ul style="list-style-type: none"> • Explain the concepts of corporate sustainability • Construct reports disclosing sustainability information
		RURAL AND AGRICULTURAL MARKETING	<ul style="list-style-type: none"> • Recall the concepts of rural marketing • Analyze the buying behavior of rural consumers • Develop the strategies relating to rural product, branding, packaging etc • Construct distribution and promotional mix in the rural market relating to food processing industry • Explain the principles and functioning of cooperative marketing
		ADVERTISING AND MEDIA MANAGEMENT	<ul style="list-style-type: none"> • Create their own advertisement copy • Analyze individual media business and understand the economic drivers of the media economy • Gain a perspective on the facets of media • Develop an integrated marketing plan using a wide variety of media • Create their own advertisement copy
	SEMESTER III	GOODS AND SERVICES TAX (GST)	<ul style="list-style-type: none"> • The students will able to know and familiarize with the fundamentals of Taxation. • The students will able to know GST and its history of GST and their types. • The students will able to know the exempted goods and Services under GST Act. • The students will able to know the Administration of GST and Authority. • The students will able to know how to avail the Appeal and Revision under GST Act.
		ORGANISATIONAL BEHAVIOUR	<ul style="list-style-type: none"> • The student will be able to understand the basic concept of organisational behaviour and foundations of individual behavior • The student will be able to develop an idea about different motivational theories and evaluate motivational strategies used in a variety of organizational settings. • The student will be able to understand the foundation of group dynamics and the nature of stress and its management. • The student will be able to evaluate the appropriateness of various leadership styles and how to deal with organizational conflict.


Dr. Freda Gnanaselvam, Ph.D.,
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			<ul style="list-style-type: none"> The student will be able to understand different types of organizational structures and importance of organizational
		ADVANCED COST ACCOUNTING	<ul style="list-style-type: none"> The student will be able to understand the basic concepts in Cost Accounting and also familiarizing with the preparation of Cost Sheets, Tenders and Quotations. The student will be able to understand Preparation of Process Costing. The student will be able to Know the Standard Costing and Variance Analysis The student will be aware of the Cost control and Cost Reduction. The student will be able to develop the knowledge about Activity based costing.
		RESEARCH METHODOLOGY	<ul style="list-style-type: none"> The student will be able to understand the basics of Research Methodology. The student will be able to know the Data Collection and Sampling The student will have understanding of Processing Data. The student will be able to have the awareness of Data Analysis through opt Statistical Tools The student will be able to know about Research Report and SSPS package.
		SERVICES MARKETING	<ul style="list-style-type: none"> The student will be able to understand the Essential Elements of marketing mix in Service marketing The student will be able to develop an idea about marketing strategies for various services marketing-mix. The student will be able to know and learn about Product support services and Identify the problems of Service quality management The student will be able to learn the of Marketing of financial services. The student will be able to acquire the knowledge about CRM.
	SEMESTER IV	DIRECT TAXES	<ul style="list-style-type: none"> The Students we able to Contrast The Different Basic Concepts In Income Tax The Students we able to understand and Compute Salary Income And Income From House Property The Students we able to understand and Construct The Statements For Business. Income, Professional Income And Capital Gains The Students we able to understand and Compute Income From Other Sources And Total Income Of Individuals


Dr. Freda Gnanaselvam, Ph.D.,
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			<ul style="list-style-type: none"> The Students we able to understand and Trace Assessment Procedure and Familiarizing Tax Planning
		INVESTMENT & PORTFOLIO MANAGEMENT	<ul style="list-style-type: none"> Making the students being well aware of types of financial markets Testing the knowledge of students about measurement of risk and return. Asses the performance of students in relation to Fundamental Analysis, Economic Analysis, Industry Analysis and Company Analysis. Evaluate student's knowledge on valuation of equity shares, preference shares, debentures and bonds Getting the students to familiarize Efficient Market Hypothesis
		PROJECT DEVELOPMENT	<ul style="list-style-type: none"> The students will be able to understand the Project and its development: The students will be able to understand the Capital expenditure decisions of projects. The students will be able to understand the Economic Viability of the project. The students will be able to understand the Sources of Project Finance. The students will be able to understand the Project schedule and control mechanism.
		ENTREPRENEURIAL DEVELOPMENT	<ul style="list-style-type: none"> The students will be able to acquire the basic knowledge and understand the types of Contract and agreement The student will be able to know to identify the essential elements of contract and rules as to offer The student will be able to have to understanding of law relating to Indemnity and guarantee The student will able to know about law of agency The student will be able to know the duties and rights of the bailor and bailee and agent and principal
		INVESTMENT & PORTFOLIO MANAGEMENT	<ul style="list-style-type: none"> To infuse basic knowledge in proposed investors as to select the better investment proposal. To create awareness among the investors about unscrupulous trade practices happening in the security market thereby protecting the investor


Dr. Freda Gnanaseivam, Ph.D.,
 Principal

			<p>interests.</p> <ul style="list-style-type: none"> • To Impart the students about basic Fundamental Analysis, Economic Analysis and Technical Analysis. • To facilitate the students about Valuation of Securities, ABM, YBM, FVM. • To Let students to know about Efficient Market Hypothesis, Random Walk Theory, Markowitz Theory.
		<p>PROJECT DEVELOPMENT</p>	<ul style="list-style-type: none"> • To study Project development cycle, Project Appraisal, Project Financing and Selection and Risk Management. • To Enhance the knowledge about the types of Appraisals. • To facilitate the students to the understanding Project cost and Social cost. • To enable the students Learn Selection of Project and Programming. • To Impart Knowledge on Project control and budgetary control.
		<p>ENTREPRENEURIAL DEVELOPMENT</p>	<ul style="list-style-type: none"> • To enhance the deep understanding of the Entrepreneur and Entrepreneurship Qualities. • To extend the knowledge of devaluations of Joint Rights, liabilities and Discharge of contract. • To facilitate the students to have the understanding about Indemnity and Guarantee • To enable the students to know about Bailment and pledge • .To let students to know about Contract of Agency and Termination agency.


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COURSE OUTCOME

		COURSE NAME	COURSE OUTCOME
M.Sc COMPUTER SCIENCE	SEMESTER I	ANALYSIS AND DESIGN OF ALGORITHM	<ul style="list-style-type: none"> • Get knowledge about algorithms and determine their time complexity. Demonstrate specific search and sort algorithms using the divide and conquer technique. • Gain a good understanding of the Greedy method and its algorithm. • Able to describe graphs using dynamic programming techniques. • Demonstrate the concept of backtracking & branch and bound technique. • Explore the traversal and searching technique and apply it to trees and graphs
		OBJECT ORIENTED ANALYSIS AND DESIGN & C++	<ul style="list-style-type: none"> • Understand the concept of Object-Oriented development and modeling techniques. • Gain knowledge about the various steps performed during object design. • Abstract object-based views for generics of Software systems. • Link OOAD with C++ language. • Apply the basic concept of OOPs and familiarize myself with writing C++ programs.
		PYTHON PROGRAMMING	<ul style="list-style-type: none"> • Understand the basic concepts of Python Programming. • Understand File operations, Classes, and Objects. • Acquire Object Oriented Skills in Python. • Develop web applications using Python. • Develop Client Server Networking applications.


Dr. Freda Gnanaselvam, Ph.D.,
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 Melvisharam - 632 509

	SEMESTER I	PRINCIPLES OF COMPILER DESIGN	<ul style="list-style-type: none"> • Understand the phases and tools available in Compiler. • Design and implement a Lexical Analyzer. • Compare and analyze different types of Compilers. • Specify appropriate translations to generate Intermediate Code. • Identify sources for Code Optimization.
		ADVANCED JAVA PROGRAMMING	<ul style="list-style-type: none"> • Understand the advanced concepts of Java Programming. • Understand JDBC and RMI concepts. • Apply and analyze Java in the Database. • Handle different events in Java using the delegation event model, event listener, and class. • Design interactive applications using Java Servlet, JSP, and JDBC.
		ADVANCED OPERATING SYSTEMS	<ul style="list-style-type: none"> • Understand the design issues associated with operating systems. • Master various process management concepts including scheduling, deadlocks, and distributed file systems. • Prepare Real-Time Task Scheduling. • Analyze Operating Systems for Handheld Systems. • Analyze Operating Systems like LINUX and IOS.
		WEB SERVICES	<ul style="list-style-type: none"> • Understand web services and its related technologies • Understand XML concepts • Analyze on SOAP and UDDI model • Demonstrate the road map for the standards and future of web services • Analyze QoS-enabled applications in web services
M.Sc COMPUTER SCIENCE	SEMESTER II	DATA MINING USING R	<ul style="list-style-type: none"> • Able to write programs using R for Association rules, Clustering techniques • To implement data mining techniques like classification, and prediction. • Able to use different visualization techniques using R. • To apply different data mining algorithms to solve real-world applications.


Dr. Freda Gnanaselvam, Ph.D.,
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 Meivisharam - 632 509

M.Sc COMPUTER SCIENCE	SEMESTER III	DISTRIBUTED OPERATING SYSTEM	<ul style="list-style-type: none"> • Students can understand the foundations of Distributed Systems. • Students can get the idea of memory management. • Students can comprehend the input and output process in detail. • Students can learn the concept of multimedia operating systems. • Students can understand the concept of security mechanisms in distributed operating systems
		XML AND WEB SERVICES	<ul style="list-style-type: none"> • Students can understand fundamental XML technology. • Students can understand the use of JSON. • Students can design collaborating web services according to a specification. • Students can know the concepts of SOAP, WSDL, and UDDI. • Students can see the role of web services in CMS.
		PROGRAMMING USING PYTHON	<ul style="list-style-type: none"> • Students can explore the fundamental concepts of Python. • Students can understand the Basics of Python programming language. • Students can solve simple problems using Python. • Students can understand modules and packages. • Students can understand the concept of Object Oriented Programming.
		NETWORK SECURITY	<ul style="list-style-type: none"> • Students can identify some of the deriving factors needed for network security. • Students can identify and classify attacks and threats. • Students can compare and contrast symmetric and asymmetric encryption. • Students can identify the web systems vulnerable to attack • Students can use appropriate secure mail applications and security protocols.
	SEMESTER IV	MOBILE APPLICATION DEVELOPMENT	<ul style="list-style-type: none"> • Students can learn about the mobile application development environment. • Students are able to develop interfaces and designs to use the techniques in mobile applications.
		SOFTWARE PROJECT MANAGEMENT	<ul style="list-style-type: none"> • Students can understand the activities during the project scheduling of any software application. • Students can learn the risk management activities and the resource allocation for the projects
		ARTIFICIAL	<ul style="list-style-type: none"> • Students are able to apply these techniques in applications which involve perception, reasoning and learning.


Br. Freda Ghanaselvam, Ph.D.,
 Principal

		INTELLIGENCE	<ul style="list-style-type: none">• Students are able to explain the role of agents and how it is related to environment and the way of evaluating it and how agents can act by establishing goals.
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COURSE OUTCOME

		COURSE NAME	COURSE OUTCOME
M.Sc MATHEMATICS	SEMESTER I	ALGEBRAIC STRUCTURES	<ul style="list-style-type: none"> Recall basic counting principle, define class equations to solve problems, explain Sylow's theorems and apply the theorem to find number of Sylow subgroups Define Solvable groups, define direct products, examine the properties of finite abelian groups, define modules Define similar Transformations, define invariant subspace, explore the properties of triangular matrix, to find the index of nilpotence to decompose a space into invariant subspaces, to find invariants of linear transformation, to explore the properties of nilpotent transformation relating nilpotence with invariants. Define Jordan, canonical form, Jordan blocks, define rational canonical form, define companion matrix of polynomial, find the elementary devices of transformation, apply the concepts to find characteristic polynomial of linear transformation. Define trace, define transpose of a matrix, explain the properties of trace and transpose, to find trace, to find transpose of matrix, to prove Jacobson lemma using the triangular form, define symmetric matrix, skew symmetric matrix, adjoint, to define Hermitian, unitary, normal transformations and to verify whether the transformation in Hermitian, unitary and normal
		REAL ANALYSIS I	<ul style="list-style-type: none"> Analyze and evaluate functions of bounded variation and Rectifiable Curves. Describe the concept of Riemann-Stieltjes integral and its properties. Demonstrate the concept of step function, upper function, Lebesgue function and their integrals. Construct various mathematical proofs using the properties of Lebesgue integrals and establish the Levi monotone convergence theorem. Formulate the concept and properties of inner products, norms and


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 Principal

M.M.E.S. Women's Arts & Science College
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			measurable functions.
		ORDINARY DIFFERENTIAL EQUATIONS	<ul style="list-style-type: none"> • Establish the qualitative behavior of solutions of systems of differential equations . • Recognize the physical phenomena modeled by differential equations and dynamical systems. • Analyze solutions using appropriate methods and give examples. • Formulate Green's function for boundary value problems. • Understand and use various theoretical ideas and results that underlie the mathematics in this course.
		NUMBER THEORY AND CRYPTOGRAPHY	<ul style="list-style-type: none"> • Acquire the knowledge of elementary number theory • Apply various cryptosystems and understand the concepts of quadratic, residues and reciprocity • Develop the idea of public key cryptography, RSA Algorithms. • Solve problems using the continued fraction method and the quadratic sieve method. • Demonstrate ability to apply concepts of Fermat factorization and factor bases.
		MATHEMATICAL PROGRAMMING	<ul style="list-style-type: none"> • To know about integer programming. • To know about optimization methods for solving non linear programming problems. • To know simplex method for solving linear programming problems. • To know revised simplex method for solving linear programming problems. • To know parametric linear programming problems.
	SEMESTER II	ADVANCED ALGEBRA	<ul style="list-style-type: none"> • Prove theorems applying algebraic ways of thinking. • Connect groups with graphs and understanding about Hamiltonian graphs. • Compose clear and accurate proofs using the concepts of Galois Theory. • Bring out insight into Abstract Algebra with focus on axiomatic theories. • Demonstrate knowledge and understanding of fundamental concepts including extension fields, Algebraic extensions, Finite fields, Class equations and Sylow's theorem.
		REAL ANALYSIS II	<ul style="list-style-type: none"> • Understand and describe the basic concepts of Fourier series and Fourier integrals with respect to orthogonal system.


Dr. Freda Gnanaselvam, Ph.D.,
 Principal

			<ul style="list-style-type: none"> Analyze the representation and convergence problems of Fourier series. Analyze and evaluate the difference between transforms of various functions. Formulate and evaluate complex contour integrals directly and by the fundamental theorem. Apply the Cauchy integral theorem in its various versions to compute contour integration.
		PARTIAL DIFFERENTIAL EQUATIONS	<ul style="list-style-type: none"> To understand and classify second order equations and find general solutions To analyse and solve wave equations in different polar coordinates To solve Vibrating string problem, Heat conduction problem, to identify and solve Laplace and beam equations To apply maximum and minimum principle's and solve Dirichlet, Neumann problems for various boundary conditions To apply Green's function and solve Dirichlet, Laplace problems, to apply Helmholtz operation and to solve Higher dimensional problem.
		R PROGRAMMING LANGUAGE (ONLY PRACTICAL)	<ul style="list-style-type: none"> Familiarize with basics of R software and built in function of R. Identify the characteristics of datasets and plot the datasets in R using graphical methods. Demonstrate understanding and use data frames. Implement the learning techniques and computing environment that are suitable for the applications under consideration. Compute vectors and matrices, matrix inverse, eigen values and eigen vectors.
		DIFFERENCE EQUATIONS	<ul style="list-style-type: none"> Solve problems on Linear Difference Equations of Higher order. Understand the system of Linear Difference Equation Apply Z-transform techniques indifference equations. Explain on Oscillation Theory. Discuss on Asymptotic Behavior of Difference Equation.
	SEMESTER III	COMPLEX ANALYSIS I	<ul style="list-style-type: none"> Understanding the differentiability and analytic functions, comprehend the elementary function and complex integration. Analyzing the maximum principle, Schwartz's lemma and Liouville's theorem. Gaining the knowledge of conformal mapping and Mobius

			transformations.
		TOPOLOGY	<ul style="list-style-type: none"> • Knowing the basics of open and closed sets and the significance of the topological spaces. • Understanding the concepts of connected spaces, connected subspace, components and local connectedness. • Understanding the concept of compactness, compact subspaces, limit point compactness and local compactness.
		DIFFERENTIAL GEOMETRY	<ul style="list-style-type: none"> • Understanding the characteristics of curves and surfaces in space and also the fundamental existence theorem for space curves. • Understanding the concept of Hilbert's lemma and the fundamental existence theorem for surface theory. • Gaining knowledge about geodesics and its normal properties and familiar with Gauss Bonnet theorem.
		OPERATION RESEARCH	<ul style="list-style-type: none"> • Understanding the concepts of network techniques, inventory control and functional role of inventory. • Analyzing various inventory control modules and performance of queueing models. • Examine the maintenance models in replacements.
	SEMESTER IV	COMPLEX ANALYSIS II	<ul style="list-style-type: none"> • Understanding the concepts of conformal mappings, normal families and Riemann mapping theorem. • Understanding the concepts of residues, entire and meromorphic functions.
		FLUID DYNAMICS	<ul style="list-style-type: none"> • Understanding the concepts of kinematics of fluid in motions, three dimensional flows and deriving Stoke's theorem. • Analyzing the examples related to the equation of continuity and acceleration of a fluid. • Gaining knowledge about two-dimensional flows, the stream function, the Milne Thompson Circle theorem, the viscous flows and Navier-Stokes equations of motion of a viscous fluid.
		FUNCTIONAL ANALYSIS	<ul style="list-style-type: none"> • Gaining knowledge about open mapping theorem, orthonormal complements and orthonormal sets. • Understanding the concepts of Banach space and Banach space with the Hilbert space. • Understanding the natural embedding N in N^{**} and solving

Dr. G. Srinivasan
Principal

			Neumark theorem.
		CALCULUS OF VARIATION AND INTEGRAL EQUATIONS	<ul style="list-style-type: none"> • Understanding the concepts of calculus of variation and its applications. • Analyzing the various types of integral equations, the methods of successive approximations and fredholm theory. • Gaining knowledge on applications to Ordinary Differential Equations.


Dr. Freda Gnanaselvam, Ph.D.
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 M.M.E.S. Women's Arts & Science College
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COURSE OUTCOME

		COURSE NAME	COURSE OUTCOME
M.Sc., INTERIOR DESIGN AND DECOR	SEMESTER I	HISTORY OF DESIGN	The student's will be able to: CO1: Understand the architectural features of prehistoric & Egyptian period. CO2: Analyze the different European styles of architecture. CO3: Interpret the colonial and oriental influence in interiors. CO4: Compose modern architecture based on the Indian historical features. CO5: Illustrate the modern and post-modern styles of interiors
		APPLICATION OF ART & DESIGN	The student's will be able to: CO1: Understand and apply the art and design in interiors and exteriors. CO2: Create innovative flower arrangement styles and apply them in various occasions and needs. CO3: Develop or schemes using color palette and suggesting them in various areas of interiors and exteriors. CO4: Apply proper lighting for efficient lighting in interiors and exteriors. CO5: Understand and apply various accessories and pictures in selection and arrangement with relation to the background of interiors.

Dr. Freda Gnanaselvam, Ph.D.,
 Principal
 M.M.E.S. Women's Arts & Science College
 Melvisharam - 632 509

	SEMESTER II	RESEARCH METHODOLOGY AND STATISTICS	<p>The student's will be able to:</p> <p>CO1: Understand Research and its characteristic features and explore the different types of research design. Analyze the research problems and formulate suitable Hypothesis.</p> <p>CO2: Analyze different sampling techniques and selecting the suitable sampling technique for data collection.</p> <p>CO3: Identify methods of Data collection using scaling techniques and assessment of data.</p> <p>CO4: Process and Analyze data through statistical analysis and SPSS software.</p> <p>CO5: Present research data in a scientific manner and understand the key elements of a research report.</p>
		TEXTILE SCIENCE	<p>The student's will be able to:</p> <p>CO1: Recall the basic concepts of classification and properties of textile fibers and describe the method of manufacture.</p> <p>CO2: Classify the various types of yarn and summarize the steps of yarn manufacture.</p> <p>CO3: Illustrate the parts of a loom and weaving mechanism and categorize the different types of weaves.</p> <p>CO4: Analyze the concepts of dyeing, printing and compile them according to their application, manufacture on the environment and utility.</p> <p>CO5: Evaluate the impact of fabric finishes for home furnishings.</p>
	SEMESTER III	ERGONOMICS IN INTERIOR DESIGN	<p>The student's will be able to:</p> <p>CO1: Concept of ergonomics design</p> <p>CO2: Applying proper posture to avoid health issues.</p> <p>CO3: Perform work space design considering physical space and inter personal space.</p> <p>CO4: Design or Redesign Workstation using Ergonomically Knowledge.</p>


Dr. Freda Gnanaselvam, Ph.D.,
 Principal

			<p>CO5: Design work space considering physical space and inter personal space.</p>
		<p>HOUSEHOLD EQUIPMENT</p>	<p>The student's will be able to:</p> <p>CO1: Identify factors influencing the choice of consumer durables. CO2: Design base materials used in the construction of utensils and major equipment and finishes applied. CO3: Manage small electrical appliances for food preparation. CO4: Operate the major equipment with proper usage. CO5: Apply the knowledge of using Renewable energy equipment's.</p>
		<p>BUILDING MATERIALS AND FINISHES</p>	<p>The student's will be able to:</p> <p>CO1: Identify and select proper construction materials and finishes for building construction. CO2: Demonstrate knowledge of properties of various building materials. CO3: Describe usage and characteristics of building materials and finishes for strength, durability and aesthetics. CO4: Explain the components of a building and analyse the availability of materials for building construction. CO5: Interpret construction materials Vs finishes and interior Vs exterior materials.</p>
		<p>BASICS OF ARCHITECTURE</p>	<p>The student's will be able to:</p> <p>CO1: Locate the influence of man's desire for comfort and convenience over and above functionality. CO2: Learn the features of temple architecture of India. CO3: Understand trends created in capitalizing the advancements in science and technology in use of materials and methods used for construction. CO4: Visualize futuristic concepts in the field of architecture and building construction. CO5: Envisage challenges for modern day architects and civil engineers.</p>

Dr. Freda Gnanaselvam, Ph.D.,
Principal

M.M.E.S. Women's Arts & Science College
Melvisharam - 632 509

	SEMESTER IV	PROFESSIONAL PRACTICE AND ESTIMATION	<p>The student's will be able to:</p> <p>CO1: Know how to understand and conduct oneself as business person.</p> <p>CO2: Update about client's expectation and legal and ethical operation</p> <p>CO3: Gain knowledge on collaborating with industry cohorts and prepare quotation for works.</p> <p>CO4: Estimate the cost of various works</p> <p>CO5: Generate bills of estimates.</p>
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COURSE OUTCOME

		COURSE NAME	COURSE OUTCOME
M.A ARABIC	SEMESTER I	GRAMMAR -I	<ul style="list-style-type: none"> Recognize the Grammatical rules of sentence formation. Apply the grammatical rules in sentence formation. Analyze the grammatical aspects of any Arabic text. Simplify the grammatical rules with his mother language. Evaluate all the grammatical rules.
		CLASSICAL PROSE - I	<ul style="list-style-type: none"> Identify the style of Classical prose. Classify the different Classical styles of prose. Compare the different styles in Classical prose. Construct sentences of different Classical styles. Predict the different style of writings in Classical prose.
		CLASSICAL ARABIC LITERATURE	<ul style="list-style-type: none"> Identify the style of Classical Arabic literature Combine the different classical styles of Arabic language Compare the different ways in Classical Arabic literature Construct and translate sentences of various classical styles of Arabic literature Estimate the Arabic style of writings of Classical Prose for competitive exams
		TRANSLATION & INTERPRETATION	<ul style="list-style-type: none"> Acquire The Basics Of Translation Skills. Classify The Different Types Of Texts. Apply The Various Terminologies In Arabic Translation. Construct The Translated Sentences From Various Forms Of Texts. Appraise the modern method of Arabic Interpretations.
		COMMERCIAL AND	<ul style="list-style-type: none"> Compose Various Types Of Letters For Official Purpose.


Dr. Freda Gnanasolvam, Ph.D.
 Principal
 M.M.E.S. Women's Arts & Science College
 Melvisharam - 632 509

	BUISNESS ARABIC	<ul style="list-style-type: none"> • Construct Letters To Banks And Insurance Companies. • Formulate Job Applications And Leave Letters. • Evaluate The Various Kinds Of Advertisements. • Prepare Tenders For Auction And Authorization Letters.
SEMESTER II	COMPRENSIVE GRAMMAR II	<ul style="list-style-type: none"> • Distinguish Between Transitive And Intransitive Verbs. • Interpret The Conjugation Of Imperfect Tense Verbs. • Dissect The Different Forms Of The Imperfect Tenses. • Appraise The Rules Of Derived Nouns And Adjective Nouns. • Evaluate The Categories Other Than The Trilateral Verbs.
	CLASSICAL ARABIC PROSE-II	<p>Acquire The Basic Knowledge About The Saheehul Bukhari</p> <p>Determine The Importance Of Hadeeth In Framing Islamic Rules.</p> <ul style="list-style-type: none"> • Assess The Rulings From Quran And Sunnah. • Evaluate The Sources Of Islamic Manners. • Discuss About The Issues In Which The Good Characters
	CLASSICAL ARABIC POETRY	<ul style="list-style-type: none"> • Examine And Understand The Logic Poetry In Jahiliyya Period. • Explain The Style Of “Shihru Naqail” In Abbasid Period. • Investigate The Structure, Usages Of Words In Poems Of Classical Arabic. • Criticize And Compare The Style Of Writings Of Different Poets. • Evaluate The Legend Arabic Poets From Jahiliyya To Abbasid Period.
	CULTURAL HISTORY OF ISLAM	<ul style="list-style-type: none"> • Discuss the ethical personalities of Prose Writers. • Collect Knowledge about Scientific literary & Arabic. • Compare among the history Poets and their Skills. • Create interest in reading and analyzing astronomy. • Choose the talent of development of fine arts.
	COMMUNICATIVE ARABIC	<ul style="list-style-type: none"> • Practice the interrogative articles in Arabic. • Demonstrate the questions in conversations. • Apply usages like Amama, Khalfa in sentences. • Illustrate the usage of Arabic Numerals. • Construct the simple sentences in Arabic language.
	ARABIC PROVERBS AND SHORT STORIES	<ul style="list-style-type: none"> • Understand the essence of faith ideas and concepts. • Examine the importance of proverbs for life guideline

		<ul style="list-style-type: none"> • Illustrate the learning with short stories • Categorize the events of short stories with polite qualities
SEMESTER III	HISTORY OF 20TH CENTURY	<ul style="list-style-type: none"> • Learn the history of the development of Hadith literature. • Understand the relevance of Hadith to the Islamic Shariah. • Know the modern methodology of Hadith literature. • Know the principal textual sources of the Islamic tradition: The Qur'an and the Hadith. • Know the role of Hadith in the synthesis of Islamic faith and practice.
	MODERN ARABIC PROSE	<ul style="list-style-type: none"> • Identify the style of modern prose. • Classify the different styles of modern prose. • Apply the motivating factors mentioned by the author in life. • Differentiate between modern prose and classical prose. • Evaluate the writing style of Muhammad Raabih Al Hasani An Nadwi
	RESEARCH MYTHODOLOGY	<ul style="list-style-type: none"> • Acquire basic knowledge of various methodologies of research. • Investigate Research problems and formulate possible solutions. • Develop Intellectual Creativity and Innovative Thinking in Research. • Generate the Research Process and Investigation Procedures. • Evaluate appropriate Research topics.
	INDIAN WRITING IN ARABIC	<ul style="list-style-type: none"> • Explain the impact of Arabic language on the Indian Culture. • Classify the different spiritual qualities of humanity in Islamic Culture. • Justify different problems in India by Islamic Scholars. • Derive importance of journals and its establishment. • Compare the different groups and movements in the cause of Arabic Language.
	ESSAYS IN ARABIC	<ul style="list-style-type: none"> • Construct essays in Arabic on various topics. • Illustrate the different vocabularies in Arabic. • Apply the new terminologies in the Arabic essays • Demonstrate the language skills and communication skills in Arabic. • Evaluate the essays written in Arabic on various aspects.
	COMMUNICATIONS SKILLS IN ARABIC	<ul style="list-style-type: none"> • Understand the sounds and phrasing of Arabic language. . • Acquire new vocabulary and apply in context. • Develop communication skills in Arabic. • Understand the different aspects of communication. • Learn to communicate in everyday interactions.
	MODERN ARABIC	<ul style="list-style-type: none"> • Define various dimensions of modern Arabic poetry.


Dr. Freda Gnanaselvam, Ph.D.,
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 M.M.E.S. Women's Arts & Science College
 Meivisharam - 632 509

SEMESTER IV	POETRY	<ul style="list-style-type: none"> • Discuss the different school of thoughts and literary movement. • Criticize and compare the themes †language usages †style of writing. • Experiment social aspects and humanitarian feelings †thoughts. • Evaluate the performance of modern Arabic poets.
	JOURNALISTIC ARABIC	<ul style="list-style-type: none"> • Recognize the basics of business correspondence in Arabic Translation. • Demonstrate the types of translation of nominal and verbal sentences. • Translate simple sentences in Arabic to English and vice versa. • Interpret & comprehend the importance of Arabic as a language of commerce. • Illustrate the translation skills and appraise the relevant skills.
	LITERACY PROJECTS IN ARABIC	<ul style="list-style-type: none"> • The Project work may commence in the 3rd semester and its report has to be submitted for evaluation at the end of the 4th semester. • To ensure that the student can apply and supplement what he learnt in the classrooms and outside to real life situations, occasions, efforts and problem solving. • The project work may be: Collection and evaluation of data / information or Text based language study / Translation. • Importance of the work and the study design. Conclusions drawn .Adequacy of information and references / bibliography. • Clarity of language and explanation. Organization of the report and overall presentation.
	ARABIC FOR COMPETITIVE EXAM	<ul style="list-style-type: none"> • Identify the different types of Masterpieces in the Arabic literature. • Recognize the Important historical events in Arabic literature according to its period. • Analyze the Arab Writers according to their contributions for Arabic literature. • Assemble the Arab poets according to their writing styles. • Assess the Importance of the different subjects of Arabic literature.
	FUNCTIONAL ARABIC	<ul style="list-style-type: none"> • Able to use Arabic correctly and confidently in writing and speech. • Know the advanced areas of Arabic grammar and usage. • Able to use Arabic language in daily life. • Understand the usage of Arabic language in various situation and occasions. • Obtain the skills in professional and functional Arabic.


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