



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution

Affiliated to University of Madras

Arumbakkam, Chennai 600 106

1.1.3 LIST OF COURSES HAVING FOCUS ON EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT DURING THE YEAR 2017-2018

SL. NO	NAME OF THE COURSE	COURSE CODE	EMPLOYABILITY/ ENTREPRENEURSHIP / SKILL DEVELOPMENT	COURSE OUTCOME
	B.A. Economics (SHIFT I) - 01			
1	MICRO ECONOMICS – I	1701101	Employability	The student will understand the basic economic concepts of demand, supply and elasticity which will provide him employment opportunities in the business world.
2	STATISTICS – 1	1701102	Skill Development	The student will develop basic skills in designing a questionnaire and tabulation of data.
3	ENTREPRENEURIAL DEVELOPMENT	1701110	Entrepreneurship	The student will understand the steps involved in starting a new venture and the assistance provided by the government.
4	PRINCIPLES OF MANAGEMENT	1701104	Employability	The student will be acquainted with the steps involved in the management of an organization and enhance his employment potential.
5	MICRO ECONOMICS – II	1701205	Employability	The student will know about cost, revenue and the functioning of markets and increase his employment potential.
6	STATISTICS -II	1701206	Skill Development	The student will acquire skills in forecasting and construction of index numbers.
7	MARKETING	1701207	Employability	The student will get employment opportunities in the marketing sector and learn about the basics of how to market his own product in his own business.
8	BASIS OF CAPITAL MARKET	1701208	Employability	The student will be able to obtain employment in the financial sector.
9	INDIAN ECONOMIC DEVELOPMENT AND POLICY-I	1601309	Employability	The student will be understand about the Indian economy and obtain employment.
10	MONETARY ECONOMICS-I	1601310	Skill Development	The student will acquire skills in calculation of value of money and index numbers.
11	WOMEN AND ECONOMIC DEVELOPMENT	1601311	Employability	The student will obtain employment in the industrial sector.
12	INDIAN ECONOMIC DEVELOPMENT AND POLICY-II	1601412	Employability	The student will understand about the functioning of the industrial sector in India and Tamilnadu economy and enhance his employment potential
13	MONETARY ECONOMICS-II	1601413	Employability	The student will gain knowledge regarding the functioning of commercial banks and Reserve bank and increase his employment potential in the banking sector.
14	ELEMENTS OF INSURANCE	1601414	Employability	The student will learn about the features of the various Insurance policies and get employment as an Insurance Agent.
15	MACRO ECONOMICS - I	1501515	Skill Development	The student will acquire skills in the methods of calculating National Income.
16	FISCAL ECONOMICS - I	1501516	Employability	The student gains knowledge regarding the various types of taxes.

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17	INTERNATIONAL ECONOMICS - I	1501517	Employability	The student learns about tariffs and quotas and increases his employment potential.
18	MANAGERIAL ECONOMICS	1501519	Skill Development	The student gains skills on how to price a product and prepare a capital budget.
19	MACRO ECONOMICS - II	1501620	Employability	The student gains knowledge regarding the macro functioning of the economy.
20	FISCAL ECONOMICS – II	1501621	Employability	The student learns about the different fiscal systems in the economy which enhances his employment potential.
21	INTERNATIONAL ECONOMICS – II	1501622	Employability	The student gains knowledge regarding the determination of exchange rate which improves his employment opportunity.
22	HUMAN RESOURCE MANAGEMENT	1501624	Skill Development	The student learns about methods of improving environment quality and develop skills to calculate subsidies.
23	ENVIRONMENTAL ECONOMICS	1501623	Employability	The student learns about the concepts of HRM which improves his employment prospects.
B.A. Economics (Shift II) - 02				
24	MICRO ECONOMICS-I	1702101	Skill Development, Entrepreneurship	The students developed the skill of analyzing the various aspects of consumer behavior and short run and long run production.
25	STATISTICAL AND MATHEMATICAL METHODS	1702102	Employability, Skill Development	The students will be able to recall and apply the various concepts of statistics and mathematics and its application in Economics
26	FINANCIAL ACCOUNTING-I	1702103	Employability, Skill Development	The students will have a basic understanding about the basics of accounting and single entry and double entry book-keeping systems
27	ECONOMICS OF TOURISM	1702104	Employability, Skill Development	The course promises employability in various sectors of tourism
28	MICRO ECONOMICS-II	1702205	Employability, Entrepreneurship	The students will gain knowledge on various cost concepts and different types of market structures .
29	STATISTICAL METHODS AND OPERATIONS RESEARCH	1702206	Employability, Skill Development	The students will be aware of various statistical tools and its usage under real market conditions
30	FINANCIAL ACCOUNTING II	1702207	Skill Development	The students will have a basic understanding about the basics of accounting procedures different type of partnership firms.
31	COMPUTER AND ITS APPLICATIONS	1702208	Employability	The course offers working knowledge in different domains and promises employability on the completion of the course
32	MARKETING - I	1602309	Entrepreneurship	The students would gain both theoretical and practical knowledge on different concepts of marketing and also encourages the students to transform themselves into entrepreneurs.
33	MONETARY ECONOMICS	1602310	Employability	The course educates the students on the prevailing financial system in the country and also assures employability in the banking sector
34	CORPORATE ACCOUNTING	1602311	Employability	The students will have a basic understanding about the basics of corporate accounting procedures including handling accounts of insurance companies



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35	MARKETING II	1602412	Employability, Skill Development	The students would gain both theoretical and practical knowledge on different concepts of marketing and also encourages the students to transform themselves into entrepreneurs.
36	MANAGERIAL ECONOMICS	1602413	Employability, Entrepreneurship	The students will gain practical knowledge about different concepts like demand forecasting and costing procedures.
37	COST ACCOUNTING	1602414	Employability, Skill Development	The students will theoretical and practical knowledge on different cost concepts
38	MACRO ECONOMICS - I	1502515	Employability, Skill Development	The students will gain in-depth knowledge knowledge in different macro economic concepts and the working of the markets.
39	FISCAL ECONOMICS - I	1502516	Employability	The students will gain knowledge on different concepts of taxation and the course also ensures employability
40	INTERNATIONAL ECONOMICS - I	1502517	Skill Development, Entrepreneurs	The students will gain in-depth knowledge on various concepts of foreign trade
41	HUMAN RESOURCE MANAGEMENT	1502518	Employability, Skill Development	The students will gain knowledge on various practical concepts on job selection and recruitment.
42	INCOME TAX	1502519	Employability, Skill Development	The students will be well aware of various tax related concepts and enables them to attempt various competitive exams
43	MACRO ECONOMICS - II	1502620	Employability, Entrepreneurship	The students will gain in-depth knowledge knowledge in different macro economic concepts and the working of the markets.
44	FISCAL ECONOMICS- II	1502621	Employability	The students will gain knowledge on different concepts on the working of the economyand the course also ensures employability at an administrative level
45	INTERNATIONAL ECONOMICS - II	1502622	Employability, Entrepreneurship	The course educates the students on various international financial agencies and their working and enhances their job opportunities
46	ENTREPRENEURIAL DEVELOPMENT	1502623	Entrepreneurship	The students will be aware of various financial agencies and also encourages entrepreneurship amongst the students.
47	MANAGEMENT ACCOUNTING	1502624	Employability	The students will learn various management accounting concepts and promises employability at various accounting fi
B.B.A - 03				
48	ACCOUNTING FOR MANAGERS –I	1703101	Employability	The Students will gain knowledge on the basics of accounting and will be able to prepare Journal, ledger, trial balance and cash book
49	PRINCIPLES OF MANAGEMENT	1703102	Employability	The Students will be able to understand the nature, scope, role, levels, functions and approaches of management
50	CONSUMER BEHAVIOUR	1703104	Employability	The students will gain knowledge on concepts underlying consumer behavior, involvement, decision making and will also be able to identify and outline the significance of motivation



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51	ACCOUNTING FOR MANAGERS –II	1703205	Employability	The students will be able to Interpret cost sheet, compare cost, management & financial accounting, Calculate fund flow and cash flow statements, Evaluate marginal costing and its components, Analyse the various ratio and compare it with standards to assess deviations
52	E - COMMERCE	1703208	Employability	The Students will be able to understand the framewrok and the business of e-commerce
53	BUSINESS COMMUNICATION	1703206	Skill Development	The course educates the students on the basics of Managerial communication and writing
54	FINANCIAL MANAGEMENT	1603309	Employability	The Students will recognize commonly used financial statements, their components and how information from business transactions flows into these statements
55	MARKETING MANAGEMENT	1603310	Employability	The Students will Understand the fundamental concepts of marketing, application 4P's of marketing and Outline the concepts of buyer behavior, sales management techniques and sales forecasting method
56	HUMAN RESOURCE MANAGEMENT	1603312	Employability	The students will Understand the basic concepts and importance of human resource management and Provide insights on HR planning, recruitment, selection procedures in organization
57	ADVERTISING MANAGEMENT & SALES PROMOTION	1603416	Employability	The course eductaes the students on advertising concepts, its implications, sales promotion techniques ,budgetting and its effectiveness
58	BUSINESS STATISTICS	1603415	Employability	The Students will gain knowledge on different types of data for decision making, analyse the measures of central tendency, will be able to understand the different types of samples to study population
59	BUSINESS TAXATION	1503518	Entrepreneurship	The Students will be able o understand the tax system in India and Outline the Tax audit and relevant taxation procedure
60	BUSINESS LAW	1503519	Entrepreneurship	The students will be able to understand the companies Act, incorporation of companies, contract act and its legal implications
61	ENTREPRENEURIAL DEVELOPMENT	1503520	Entrepreneurship	The Students gain knowledge on the basics of Entrepreneurship, Identify business idea generation techniques and outline project report writing



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62	SERVICES MARKETING	1503521	Employability	The Students will be able to Understand the concepts of service, growth of service sector and Demonstrate service marketing with specific sectors
63	ORGANIZATION PSYCHOLOGY	1503312	Entrepreneurship	The Students will be able to Understand the organizational structure, climate and leadership theories
64	BUSINESS ETHICS AND VALUES	1503623	Entrepreneurship	The Students will Understand the significance of ethics, values and types of issues in a business
65	PERSONALITY DEVELOPMENT	1503624	Skill Development	The Students will be educated on the pattern of thoughts, feelings, behavior and communication. They will also be able to identify their personality and balance EQ/IQ levels
B.Com Banking Management- 04				
66	PRINCIPLES OF FINANCIAL ACCOUNTING	1704101	Employability,Entrepreneurship,S	Enable learners to get theoretical and practical exposure in the financial accounting which develop the skill enhancement of students
67	BUSINESS MANAGEMENT	1704102	Employability,Entrepreneurship,S	Enhances the capability of decision making at personal and professional levels. – Makes students industry ready and develop various managerial and accounting skills for better professional opportunities
68	NME- ESSENTIALS OF LANGUAGE AND COMMUNICATION	1704104	Employability,Entrepreneurship,S	Provides exposure to business writing, presentation of reports and presentation, basic knowledge of Verbal Skills. Develops the students for interviews and Group discussions, develops students for facing the corporate world
69	ADVANCED FINANCIAL ACCOUNTING	1704205	Employability,Entrepreneurship,S	Enable learners to get theoretical and practical exposure in the financial accounting which develop the skill enhancement of students
70	THEORY OF MONEY AND BANKING	1704206	Employability,Entrepreneurship,S	The graduation learners develop a thorough understanding of the fundamentals in banking and insurance area.
71	NME - ESSENTIALS OF SPOKEN AND PRESENTATION SKILLS	****	Employability,Entrepreneurship,S	Provides exposure to business writing, presentation of reports and presentation, basic knowledge of Verbal Skills. Develops the students for interviews and Group discussions, develops students for facing the corporate world
72	CORPORATE ACCOUNTING AND BANK AUDIT	1704309	Employability,Entrepreneurship,S	Enables learners to get theoretical and practical exposure in the corporate accounting and bank audit which develop the skill enhancement of students
73	LEGAL SYSTEM IN BUSINESS	1604310	Employability,Entrepreneurship,S	Enhances the capability of decision making at personal and professional levels. – Makes students industry ready and develop various managerial skill in legal business and skills for better professional opportunities.
74	BANKING THEORY LAW AND PRACTICE	1604311	Employability,Entrepreneurship,S	The graduation learners develop a thorough understanding of the fundamentals in banking and insurance area.



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75	ENTREPRENEURIAL DEVELOPMENT	1604312	Employability,Entrepreneurship,S	Enhances the Entrepreneurial abilities of the students and develops creativity for better functioning of the organisation and Familiarizes students with business planning in different types of entrepreneurs and the evolving concepts of entrepreneurial ship.
76	COMPUTER APPLICATION IN BUSINESS	1604313	Employability,Entrepreneurship,S	Familiarizes students of E-Commerce infrastructure and the use of it in today's Digital age. • Gives knowledge of programming platform to students by use of VB scripting language • Enhances the use of Excel office productivity tools.
77	ADVANCED CORPORATE ACCOUNTING	1604414	Employability,Entrepreneurship,S	Enables learners to get theoretical and practical exposure in the advanced corporate accounting which develop the skill enhancement of students
78	FINANCIAL SERVICES AND BANCASSURANCE	1604415	Employability,Entrepreneurship,S	The graduation learners develop a thorough understanding of the fundamentals in financial services and bancassurance.
79	PRINCIPLES OF INSURANCE	1604416	Employability,Entrepreneurship,S	The graduation learners develop a thorough understanding of the principles of insurance
80	BANKING ADVANCES	1604417	Employability,Entrepreneurship,S	The graduation learners develop a thorough understanding of the advancement in banking sector
81	PRINCIPLES OF HUMAN RESOURCE MANAGEMENT	1604418	Employability,Entrepreneurship,S	On Successful completion of the course the student will be able to enhance the capability of decision making at personal and professional levels and also it makes students industry ready and develop various managerial and accounting skills for better professional opportunities.
82	ENVIRONMENTAL STUDIES	1613412	Employability,Entrepreneurship,S	On Successful completion of the course the student will be able to aware about waste management. And Exposes learners to the impact of Industrial development
83	MANAGEMENT ACCOUNTING	1504519	Employability,Entrepreneurship,S	Enables learners to get theoretical and practical exposure in the management accounting which develop the skill enhancement of students
84	BUSINESS TAXATION	1504520	Employability,Entrepreneurship,S	On successful completion of the course the student will able to understand in-depth study on the various provisions of Indirect Tax
85	MARKETING	1504521	Employability,Entrepreneurship,S	The students gain knowledge about the promotion strategy and marketing skills
86	INVESTMENT MANAGEMENT	1504522	Employability,Entrepreneurship,S	Enhances the capability of decision making at personal and professional levels. – Makes students industry ready and develop various managerial and accounting skills for better professional opportunities.
87	VISUAL BASIC	1504523	Employability,Entrepreneurship,S	The students gain knowledge about the Payroll Processing and Inventory processing
88	COST ACCOUNTING	1504624	Employability,Entrepreneurship,S	Enables learners to get theoretical and practical exposure in the cost accounting which develop the skill enhancement of students



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89	CUSTOMER RELATIONSHIP MANAGEMENT	1504625	Employability,Entrepreneurship,S	Enhances the capability of decision making at personal and professional levels. – Makes students industry ready and develop various managerial and skills for better professional opportunities in CRM
90	BANKING TECHNOLOGY AND PERSONALITY SKILLS	1504626	Employability,Entrepreneurship,S	The graduation learners develop a thorough understanding in various technology updating in Banking sector
91	MARKETING OF BANKING SERVICES	1504627	Employability,Entrepreneurship,S	On successful completion of the course students will able to understand the banking industry and develop various managerial and skills for better professional opportunities in Banking sector
92	INCOME TAX LAW AND PRACTICE	1504628	Employability,Entrepreneurship,S	On successful completion of the course the student will able to understand in-depth study on the Income Tax Provisions
B.Com - General -05				
93	FINANCIAL ACCOUNTING	1705101	Skill Development	To impart basic accounting knowledge as applicable to business.
94	BUSINESS ECONOMICS	1705102	Employability	To acquaint the students with the economic principles applicable to business.
95	BUSINESS MATHEMATICS - I	1708104	Skill Development	To impart basic knowledge on the application of mathematical techniques for decision making in business
96	NME - BASICS OF RETAIL MARKETING	1705103	Employability	To provide basic understanding of the various trends in retail business and motivate them to take up retailing business as their career
97	ADVANCED FINANCIAL ACCOUNTING	1705205	Skill Development	To impart knowledge on accounting and further focus on the accounting procedures applicable to various forms of business
98	BUSINESS COMMUNICATION	1705206	Employability	To develop effective business communication skills among students
99	BUSINESS MATHEMATICS - II	1708211	Skill Development	To understand the fundamentals of Business Mathematics and its application in business.
100	NME - FUNDAMENTALS OF INSURANCE	1705207	Employability	To gain insights on the importance of Insurance sector in India
101	CORPORATE ACCOUNTING I	1605309	Skill Development	To impart knowledge on accounting procedures and standards of Corporate Houses.
102	BUSINESS LAWS	1605310	Employability	To provide an understanding of legal environment in which business is conducted.
103	BANKING THEORY, LAW AND PRACTICE	1605311	Employability	To introduce the students to banking operations and the legal environment.
104	PRINCIPLES OF MANAGEMENT	1605312	Employability	To impart knowledge on the conceptual framework of business management.
105	BUSINESS STATISTICS & O.R - I	1608322	Skill Development	To gain insights on the application of statistics in business operations
106	CORPORATE ACCOUNTING II	1605415	Skill Development	To enable the students to understand the concept of accounting applicable to certain specific types companies.



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107	INDUSTRIAL LAW	1605416	Employability	To familiarize the students on the various Acts applicable to Industries.
108	FINANCIAL SERVICES	1605417	Employability	To provide insights on the role of financial services in the development of the capital market and the economy of the country
109	PRINCIPLES OF MARKETING	1605418	Employability	To acquaint the students about the marketing framework as a means of meeting the needs of customers.
110	BUSINESS STATISTICS & O.R - II	1608427	Skill Development	To gain insights on the application of statistics in business operations.
111	ENVIRONMENTAL STUDIES	1613412	Skill Development	To sensitize students on the issues facing threat to the environment and making them responsible citizens.
112	COST ACCOUNTING	1505521	Skill Development	To explain the basic concepts and the tools used in cost accounting.
113	PRINCIPLES OF FINANCIAL MANAGEMENT	1505522	Skill Development	To explain how finance constitutes the core of any company and emphasize on management of funds
114	PRACTICAL AUDITING	1505523	Employability	To enlighten the students on the various aspects of audit of business accounts.
115	HUMAN RESOURCES MANAGEMENT	1505524	Employability	To examine the various HR practices and techniques.
116	INCOME TAX LAW & PRACTICE I	1505525	Employability	To provide sound knowledge of the important provisions of the Income Tax and their application in solving problems on computation of income of an individual under various heads of income.
117	MANAGEMENT ACCOUNTING	1505626	Skill Development	To provide an understanding of the application of accounting techniques for management.
118	ENTREPRENEURIAL DEVELOPMENT	1505627	Entrepreneurship	To enable students in understanding the issues pertaining to setting up and running of business.
119	COMPANY LAW	1505628	Employability	To enable the students to understand the legal environment of the corporate.
120	INCOME TAX LAW & PRACTICE II	1505629	Employability, Entrepreneurship	To provide sound knowledge of the important provisions of the Income Tax and their application in solving problems on computation of income.



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121	INDIRECT TAXES	1505630	Entrepreneurship	To provide basic knowledge of the important provisions of the Indirect Taxes.
B.Com - Corporate Secretaryship - 06				
122	FINANCIAL ACCOUNTING	1706101	Employability / Skill Development	At the end of the course the student will acquire the skill on classifying the errors and calculating the various methods depreciation and student will also increase his knowledge on Average due date, preparation of final accounts and single entry system through which he can seek employability.
123	COMPANY LAW AND SECRETARIAL PRACTICE - I	1706102	Entrepreneurship	At the end of the course the student will be able to develop the knowledge on basics of Company, formation of a company, Prospectus share capital and members of the Company through which the student can seek employability
124	MARKETING	1706103	Employability	At the end of the course the student will be able to understand the concept of Marketing, Market Environment and why the market has to be segmented and various ways of distributing the products and due to this the student will learn the behavior of the consumer by this he may seek employability
125	NME - IINTRODUCTION TO FINANCIAL MARKETS	1706104	Employability	At the end of the course the student will be able to learn the basics of money Market and Capital market so that he can seek the employability as a stock market broker and much more
126	ADVANCED FINANCIAL ACCOUNTING	1706205	Employability	At the end of the course the student will understand the accounting procedure for different kinds of business like branch, Royalty, Hire purchase Etc.
127	HUMAN RESOURCE MANAGEMENT	1706206	Skill Development	To familiarize students with various techniques in HRM that contributes to the overall effectiveness of the organization, to bring to the attention of the student the latest trends in managing human resources in an organization
128	BUSINESS COMMUNICATION	1706207	Skill Development	At the end of the programme the student will get exposure to business writing, preparation of reports and presentation.
129	NON MAJOR ELECTIVE – II FUNDAMENTALS OF INSURANCE	1706208	Employability	At the end of the course the student will be able to explore his knowledge about various insurance practices with different insurance companies
130	CORPORATE ACCOUNTING	1606309	Employability / Skill Development	To familiarize students with the accounting treatment for issue of shares and debentures to run the company with the long term sources of fund, to Enable the students to prepare financial statements of joint stock companies, to understand the procedure for valuing the good will and shares of companies to acquire a business



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131	COMPANY LAW AND SECRETARIAL PRACTICE - II	1606310	Employability / Skill Development	At the end of the course the student will be able to understand the regulation of registered companies and to provide thorough understanding of the various provisions of the Indian Company law, to provide conceptual understanding of the cases of the company law
132	STATISTICS - I	1606311	Skill Development	To introduce basic concepts of Statistics, to provide statistical techniques for business data analysis
133	CORPORATE FINANCIAL REPORTING	1606412	Skill Development	To enable the student to analyze the financial statement, to understand advanced concepts in accounting and finance to understand the accounting procedure for amalgamation of companies in the nature of merger or purchase
134	BUSINESS MANAGEMENT	1606413	Employability / Skill Development	To enable the students to appreciate the contribution made by management thinkers towards the basic principles and functions of Management, to provide opportunities apply the general functions of management in day to day managerial practice
135	STATISTICS - II	1606414	Skill Development	The student will be able to understand the Statistical techniques for business data analysis
136	COST ACCOUNTING	1506515	Employability / Skill Development	To familiarize the students and the importance of cost ascertainment, reduction and control, to develop the skills needed to apply costing techniques for each element of cost, to help students to understand the procedures to calculate the cost of the product and services
137	BANKING – THEORY, LAW & PRACTICE	1506516	Employability / Skill Development	To expose the students to various concepts Indian banking system, to make the students understand the provision of the banking regulation act 1949
138	INCOME TAX LAW AND PRACTICE - I	1506517	Skill Development	To familiarize the students with the basic concepts of Income tax, to enable the student to compute income from salaries, house properties and business or profession
139	COMMERCIAL LAW	1506518	Entrepreneurship	To assist the students to learn the elements of general contract, to enable the students to understand and deal with various contract in his/her day to day life be it for business or profession, to enable the students to learn and understand the special contracts
140	ENTREPRENEURIAL DEVELOPMENT	1506519	Entrepreneurship	To familiarize the students with the requisites needed for being a successful entrepreneur, to identify the stages involved in the setting of small business unit and to motivate the student to start self-employment
141	MANAGEMENT ACCOUNTING	1506620	Employability / Skill Development	To understand and analyze financial statement to help in managerial decision making, to prepare statements like cash flow and fund flow, budget etc so as to assist the management to take meaningful and correct decision



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142	INDUSTRIAL LAWS	1506621	Employability	To familiarize the students with various labor legislations, to expose the students' legislations relating to welfare of worker
143	INCOME TAX – LAW AND PRACTICE - II	1506622	Skill Development	To enable a student to understand the remaining part of different heads of income, to enable a student to find taxable income
144	INDIRECT TAXES	1506623	Employability / Skill Development	To make the student understand the various indirect taxes in India, to enable the student to understand the indirect tax structure in India
BCA -07				
145	FUNDAMENTALS OF DIGITAL ELECTRONICS	1707101	Employability, Skill Development	1.Express basic concepts and logic circuits. 2. Capable to design different types of digital logic circuit.
146	PROBLEM SOLVING TECHNIQUES	1707102	Employability, Skill Development	1.Distinguish Relevant and Non-Relevant data
147				2. Recognize Explicit and Tacit assumptions
148	NME - I CONTEMPORARY MANAGEMENT SKILLS	1707103	Skill Development	1.Describe the nature of different types of managerial approaches adopted by organisations in contemporary time 2. Understand the purpose of different types of contemporary managerial approaches 3. Examine the different ways that organisations can implement these contemporary managerial approaches in the workplace
149	INTRODUCTION TO C++ PROGRAMMING	1707205	Employability, Skill Development	1.Understand the difference between the top-down and bottom-up approach 2. Apply the concepts of object-oriented programming 3. Illustrate the process of data file manipulations using C++
150	MICROPROCESSOR AND ITS APPLICATIONS	1707206	Employability, Skill Development	1.1.Understand the architecture of 8085 and 8086. 2. Impart the knowledge about the instruction set. 3. Understand the basic idea about the data transfer schemes and its applications
151	NME - II LOGICAL AND ANALYTICAL REASONING	1707207	Skill Development	1.Active learning design principles are evident in each lesson.2.Students will be expected to actively do mathematics—such as analyzing data, constructing, hypotheses, solving problems, reflecting on their work, and making connections.
152	PROGRAMMING IN JAVA	1607414	Employability, Skill Development	1.Use an integrated development environment to write, compile, run, and test simple object-oriented java programs. 2. Read and make elementary modifications to Java programs that solve real-world problems.3.Be able to create an application using string concept.4.Be able to create a program using files in application.5.Be able to create an Applet to create an application. 6. Identify and fix defects and common security issues in code.



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153	OPERATING SYSTEMS	1607415	Employability, Skill Development	1.To understand the main components of an OS & their functions.2.To study the process management and scheduling.3.To understand various issues in Inter Process Communication (IPC) and the role of OS in IPC 4.To understand the concepts and implementation Memory management policies and virtual memory.5.To understand the working of an OS as a resource manager, file system manager, process manager, memory manager and I/O manager and methods used to implement the different parts of OS.
154	COMPUTER ARCHITECTURE	1607416	Employability, Skill Development	1. Understand the Theory and Architecture of CPU. 2. Use appropriate tool to design and test CPU Architecture.3. Learn the concepts of Processes and Pipelining.
155	DATABASE MANAGEMENT SYSTEMS	1507519	Employability, Skill Development	1.To understand the different issues involved in the design and implementation of a database system.2.To study the physical and logical database designs, database modeling, relational, hierarchical, and network models3.To understand and use data manipulation language to query, update, and manage a database4.To develop an understanding of essential DBMS concepts such as: database security, integrity, concurrency.5.To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.
156	COMPUTER NETWORKS	1507520	Employability, Skill Development	1. To develop an understanding of modern network architectures from a design and performance perspective. 2.To introduce the student to the major concepts involved in wide-area networks (WANs), local area networks (LANs) and Wireless LANs (WLANs). 3.To clarify network terminology. 4.To provide an opportunity to do network programming using TCP/IP. 5.To give the students experience working in programming teams. 6.To provide a WLAN measurement experience. 7.To expose students to emerging technologies and their potential impact.



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157	COMPUTER GRAPHICS	1507521	Employability, Skill Development	1.To introduce the use of the components of a graphics system and become familiar with building approach of graphics system components and Algorithms 2Apply the co.ncepts of color models 3 Explain the core concepts of Computer Graphics
158	ELECTIVE 1 OBJECT ORIENTED ANALYSIS AND DESIGN	1507522	Employability, Skill Development	1.Discuss and elaborate the concept of OOAD. 2.Describe the object-oriented approach to system development, modeling objects, relationships and interactions. 3. Use the class design for creating software 4.Use case studies of object orientation on testing for software development
159	ELECTIVE 1 DATA MINING	1507522	Employability, Skill Development	1. To introduce students to the basic concepts and techniques of Data Mining. 2. To develop skills of using recent data mining software for solving practical problems. 3.To gain experience of doing independent study and research. 4. Develop and apply critical thinking, problem-solving, and decision- making skills. 5.Develop and apply enthusiasm for learning. Class participation is encouraged in this course.
160	.NET PROGRAMMING	1507625	Employability, Skill Development	1.Set up a programming concept using the basic knowledge of HTML2.To learn the data types, different controls inVB.NET
161	PHP PROGRAMMING	1507626	Employability, Skill Development	1.Understand the usage of PHP and MySQL in dynamic web development.2.Understand PHP language data types, logic controls, built-in and user-defined functions 3.Be able to setup and configure MySQL, PHP, Apache web server development environment. 4.Select, insert, update and delete data using SQL language. 5.Understand Object oriented programming paradigm in PHP. 6.Build a simple, yet functional web application using PHP/MySQL



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162	DESIGN AND ANALYSIS OF ALGORITHMS	1507627	Employability, Skill Development	1.Ability to analyze the performance of algorithms.2. Ability to choose appropriate algorithm design techniques for solving problems. 3.To clear up troubles the usage of set of rules design methods including the grasping approach, divide and overcome, dynamic programming, backtracking and department and certain
163	ELECTIVE 2 MOBILE COMPUTING	1507628	Employability, Skill Development	1.Able to create Applications for Smart Phones.2.Able to integrate mobile applications with cloud applications
164	ELECTIVE 2 CLIENT-SERVER COMPUTING	1507628	Employability, Skill Development	1.Understand the concept of client-server model.2.Able to problem solving skills through design scenario.3.Understand the concepts of decentralized networks.
165	ELECTIVE 2 OPERATION RESEARCH	1507628	Employability, Skill Development	1.To get in-depth Knowledge about the evolution of operations research and its Features.2. Understand the characteristics of OR 3.How to apply OR in industry 4.Understanding how OR helps in decision making
B.Sc. Mathematics -08				
166	OPERATIONS RESEARCH-I	1508531	Employability	The Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. (i)Improve capabilities in the students for understanding and analyzing different kind of situations in the real-world (ii)Involve limited resources and find the optimal solution within the constraints.
167	OPERATIONS RESEARCH II	1508636	Employability	The Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. (i)To aim at improving capabilities of the students for understanding and analyzing different kind of situations in the real-world. (ii)To cover some analytical methods like sequencing, inventory methods, replacement models to help to make them better decisions.
168	NUMERICAL METHODS I	1608319	Skill Development	The Student will be able to acquire the skill to (i)Solve real world problems using various numerical approximation techniques. (ii)Approximate using various interpolation techniques and solve numerically linear system of equations.



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169	NUMERICAL METHODS II	1608424	Skill Development	The Student will be able to acquire the skill to (i)Solve real world problems using interpolation. (ii)Solve Calculus problems by numerical approximation techniques.
170	DISCRETE MATHEMATICS	1508530	Skill Development	The Student will be able to acquire the skill (i)To summarize the notion of mathematical thinking and algorithmic thinking. (ii)To write and evaluate a proof or outline the basic structure of and give examples. (iii)To define how graph serve as models for many standard problems by classifying as graphs, trees, Euler graph, cut set.
171	CLASSICAL ALGEBRA	1708101	Employability	The Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. (i)Use binomial, exponential and logarithmic series and solve related problems. (ii)Know about various methods to find the roots of the polynomial equations. (iii)Develop the skills of the students in the area of matrices
172	DIFFERENTIAL CALCULUS	1708102	Employability	The Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. (i)To obtain problem solving skills in derivatives in real life application. (ii)To identify and solve problems on derivatives in both Cartesian and polar coordinates with application.
173	TRIGONOMETRY	1708208	Employability	The Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. (i)Acquire the knowledge of circular and hyperbolic trigonometric functions. (ii)Apply various methods to solve problems on summation of series
174	INTEGRAL CALCULUS	1708209	Employability	The Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. (i)Use appropriate tools of Integral Calculus in solving applied problems. (ii)Understand the application of definite integral.
175	DIFFERENTIAL EQUATIONS	1608317	Employability	The Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. (i)Estimate first order and higher order ordinary differential equations using appropriate methods. (ii)Identify and obtain the solutions for PDE of standard types.
176	VECTOR CALCULUS AND ANALYTICAL GEOMETRY OF THREE DIMENSIONS	1608422	Employability	The Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. (i)Exhibit in depth the analytical and critical thinking. (ii)Identify, formulate and solve real world problems.



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177	ALGEBRAIC STRUCTURES	1508527	Employability	The Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. (i)To demonstrate understanding of the relationships between abstract algebraic structures with familiar numbers systems such as the integers and real numbers. (ii)To produce rigorous proofs of propositions arising in the context of abstract algebra
B.Sc. Physics -09				
178	MECHANICS AND PROPERTIES OF MATTER	1709101	Employability	The students who undergo this course are successfully bound to get a better insight and understanding of laws of motion, mechanical behavior and properties of matter.
179	THERMAL PHYSICS AND ACOUSTICS	1709204	Employability	This introductory course helps the students, i.e. the study of thermal physics forms one of the core foundation of modern Physics. Acoustics helps the students to understand the significant of sound in many fields like medicine, geology etc.
180	OPTICS	1609309	Employability	This course will enable the students to use the principle of wave motions and superposition to explain the physics of interference, polarization and diffraction.
181	ATOMIC PHYSICS	1609411	Employability	This course provides the coherent and concise coverage of the atomic structure, spectra and the applications related to their studies.
182	ELECTRICITY AND ELECTROMAGNETISM	1509515	Employability	The aim of this course is to acquire knowledge about chemical effects of electric current and understand various circuit laws.th students get strong foundation in magnetism and apply it in the related fields.
183	MATHEMATICAL METHODS IN PHYSICS	1509516	Employability	This course prepares the students to use mathematical tools like vectors, matrices and special functions to solve various physical phenomena. also educate them with necessary classical dynamics concepts.
184	SOLID STATE PHYSICS	1509517	Employability	On taking this course the students will be able to learn and assimilate the fundamental concepts of crystal structure, the behavior of dielectrics and magnetic materials
185	BASIC ELECTRONICS	1509518	Employability/Entrepreneurship	By studying this course the students will acquire the theoretical and practical knowledge on semiconductor devices and their working.
186	APPLIED ELECTRONICS	1509519	Employability/Entrepreneurship	This course help the students to gain basic ideas of the construction and working of digital electronic devices/ circuits. The students will understand the fundamentals of communication systems and able to design circuits for solving problems.



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187	RELATIVITY AND QUANTUM MECHANICS	1509620	Employability	This course will enable the students to get familiar with relativity concepts and quantum mechanical formulations. This basic course will form a firm basis to understand quantum exactly solvable problems.
188	NUCLEAR AND PARTICLE PHYSICS	1509621	Employability	This course will enable the students to gain an insight of the theories of nuclear structure and radioactivity the students will gain knowledge about various nuclear reactions and their applications.
189	DIGITAL ELECTRONICS	1509622	Employability/Entrepreneurship	By studying this course the students will be able to learn fundamentals of Boolean algebra, synthesis of Boolean functions, combination and sequential circuits.
190	MICROPROCESSOR FUNDAMENTALS	1509623	Employability/Entrepreneurship/ Skill Development	At the end of this course the students are expected to assimilate the basic concepts of microprocessor.
191	ALLIED PHYSICS I - (FOR B.SC CHEMISTRY STUDENTS)	1609310	Employability	They possess basic knowledge of programming instructions and interfacing concepts. They can demonstrate relevant generic skills and global competencies such as problem-solving skills and tackle open ended problems.
192	ALLIED PHYSICS II - (FOR B.SC CHEMISTRY STUDENTS)	1609412	Employability	This course allows the students to have a systematic understanding of the basic concepts of modern Physics and its linkages with related disciplinary areas such as quantum Physics , semiconductor physics etc.
193	ALLIED PHYSICS I - (FOR B.SC MATHS STUDENTS)	1709102	Employability	After completing this course the students will have coherent understanding of basic principles of physics, its different learning areas and applications in fundamental concepts.
194	ALLIED PHYSICS II - (FOR B.SC MATHS STUDENTS)	1709205	Employability	This course allows the students to have a systematic understanding of the basic concepts of modern Physics and its linkages with related disciplinary areas such as quantum Physics , semiconductor physics etc.
195	PHYSICS IN EVERYDAY LIFE – I	1709103	Employability/Skill Development	By studying this course the students will be able to demonstrate relevant generic skills in understanding the facts and ideas on various concepts of Physics.
196	PHYSICS IN EVERYDAY LIFE – II	1709206	Employability/Skill Development	After completing this course the student will gain confidence in relating the law of nature and daily life.
197	CORE PRACTICAL I	1709207	Skill Development	This course opens the window to the students about the methods of experimental Physics. It also helps to demonstrate the ability to use skills in physics and its related areas of technology.
198	CORE PRACTICAL II	1609413	Skill Development	On taking this course the students will be able to plan and execute optics, electricity and magnetism related experiments. They will gain confidence to investigate, analyze and interpret the information collected in the experiments.



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199	CORE PRACTICAL III	1709624	Skill Development	This course opens up the design of concepts of light, electricity and magnetism that are learnt in the theory, providing hands on experience to the students .
200	CORE PRACTICAL IV	1509625	Skill Development	At the end of this course the students acquire the practical knowledge to design basic electrical circuits, digital electronics circuitry etc.
201	CORE PRACTICAL V	1509626	Skill Development	This course provide the practical knowledge to the students to design electronic circuits using operational amplifier, microprocessor and related software.
202	ALLIED PHYSICS PRACTICALS- (FOR B.SC CHEMISTRY STUDENTS)	1609414	Skill Development	This course helps the students to plan and execute Physics related experiment, analyze and interpret the data collected using appropriate methods
203	ALLIED PHYSICS PRACTICALS- (FOR B.SC MATHS STUDENTS)	1709208	Skill Development	This course helps the students to plan and execute Physics related experiment, analyze and interpret the data collected using appropriate methods
B.Sc. Chemistry -10				
204	ALLIED CHEMISTRY – I	1610410	Employability/Skill Development	Demonstrate the usage of various types of preservatives to preserve the specimens and explain the environmental pollutions like water pollution, soil pollution, air pollution and its adverse effects. Analyze the water quality and convert hard water into soft water from the concepts of zeolite, reverse osmosis and demineralization processes.
205	ALLIED CHEMISTRY – II	1610412	Employability/Skill Development	Demonstrate the usage of various types of chromatographic separations and purification techniques used in industries. Also understand the calorific values of fuels and food adulteration. Aware of the adverse effects of preservatives. Analyze the various chemicals present in the plants and their utility as medicine. Analyse the various adulterants present in food.
206	ANALYTICAL CHEMISTRY	1510517(A)	Employability/Skill Development	This course is offered for students to have exposure to the Laboratory safety practices, Instrumental techniques. The student gets clear idea about the principle and Instrumentation of various techniques which are most useful in chemical Industries.
207	APPLIED CHEMISTRY	1510622(A)	Employability/Entrepreneurship/Skill Development	Students acquire well developed knowledge in various aspects of applied chemistry like nano-chemistry and their characterization techniques like SEM, TEM, XRD etc. This course will bring in the values of medicinal plants and various pharmaceutical drugs available in the industry.
B.Sc. Biochemistry -11				
208	CELL BIOLOGY	1711101		



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209	CHEMISTRY I	1711102	Employability/Skill Development	Realize the thermodynamic aspect of various energy Transformations. Apply the concepts of concentration of solution and its redox reactions in Industries
210	BASICS OF MEDICAL TERMINOLOGIES	1711103	Employability	Apply Medical Terms in Health Sectors or Medical Reports preparation. Analyse The Functions of Different Parts of Human body. Interpret Normal Values Of Metabolic Parameters in health related sectors
211	CHEMISTRY OF BIOMOLECULES	1711204	Employability/Skill Development	Understand the classification, structure, functions and the reactions of carbohydrates. Explain amino acids with structure and properties. Gain knowledge on the classification of proteins, levels of structural organization of Proteins, lipids, nucleic acids and its properties
212	EVOLUTIONARY BIOLOGY	1711205	Employability/Skill Development	Understand and explain the terms of evolution Develop and explain the importance of evolutionary studies as a foundation of comparative biology
213	CHEMISTRY II	1711206	Skill Development	Realise the principles of nuclear chemistry with the process involved and have basic knowledge on radioactivity elements. analyse the concepts of chemical kinetics, Interpret the Key Features of Co-ordination Complexes and its biological applications. Understand the chemistry of dyes, sulpham drugs, penicillin and vitamins
214	BIO-INSTRUMENTATION - I	1611309	Employability/Skill Development	Prepare solutions for practicals, measure pH using electrodes. Acquire hands on skills to separate cellular organelles by differential centrifugation. Acquire skills to separate proteins using SDS PAGE and analyze the protein nature.



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215	MICROBIOLOGY - I	1611310	Employability/Skill Development	<p>Understand about the microorganisms and its nature.</p> <p>Demonstrate staining procedures.</p> <p>Measure the growth of microorganisms and apply the knowledge in food , Water industry.</p>
216	BIO-INSTRUMENTATION - II	1611411	Employability/Skill Development	<p>Study the interactions of electromagnetic radiation and estimate the biomolecules using UV spectroscopy.</p> <p>Understand safety measures in handling radio isotopes, measure radioactivity using GM counter and Scintillation counter.</p> <p>Understand the basic concepts of computers and use it for education purpose.</p>
217	MICROBIOLOGY - II	1611412	Employability/Entrepreneurship/Skill Development	<p>Apply knowledge gained about microorganisms in different fields like dairy, food Industry.</p> <p>Understand the role of microbes in infections and diseases.</p> <p>Develop skills to work in Microbial Industrial sector</p>
218	ENZYMES	1511515	Employability/Skill Development	<p>Gain fundamental knowledge about the nature, properties, nomenclature and classification of enzymes and coenzymes.</p> <p>Analyze factors affecting enzyme activity, deduce Michaleis Menten equation and apply the understanding on enzyme inhibition in medicine and industry.</p> <p>Relate the use of enzymes and immobilized enzymes in industry</p>
219	INTERMEDIARY METABOLISM -I	1511516	Employability/Skill Development	<p>Perform tissue slice technique during research work.</p> <p>Explain the pathways of carbohydrate metabolism in clinical conditions.</p> <p>Knowledge gained on understanding of the detoxification of drugs can be applied in medicinal field.</p>



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220	PHYSIOLOGY	1511517	Employability/Entrepreneurship/ Skill Development	Understand the functions of blood and circulatory system. Learn the process of digestion and absorption and it can be applied in the field of medicine. Learn the process of gaseous exchange in tissues and lungs and the mechanism of muscle contraction
221	NUTRITIONAL BIOCHEMISTRY	1511518	Employability/Skill Development	Acquire knowledge about food groups and measure the calorific value of food. Understand the nutritive importance of macronutrients in the body. Comprehend the importance of major and minor trace elements (Minerals), vitamins in the food. Prepare a dietary chart for diabetic and renal failure patients.
222	COMPUTATIONAL METHODS FOR BIOCHEMISTRY	1511519	Employability/Skill Development	Apply the molecular biology, genetics, biomolecules knowledge with computers in medical field. Predict the structure from sequence and afterwards validate the predicted structures in Pharma industry. Understand the principles and some methods of genomics, gene expression and proteomics that aid precision in medicine, modern plant and animal breeding.
223	MOLECULAR BIOLOGY	1511620	Employability/Skill Development	Carry out experiments related to gene expression studies. Develop Medical kits to identify the microorganisms using molecular biology techniques. Understand the concepts of genetic code and relate it to translation process and explain protein biosynthesis



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224	CLINICAL BIOCHEMISTRY	1511621	Employability/Entrepreneurship/ Skill Development	<p>Understand the pathophysiological processes responsible for common biochemical disorders of carbohydrate, lipid, protein and nucleic acid metabolism.</p> <p>Apply the knowledge in lab report analysis during various organ function tests.</p> <p>Clinically assess the role of serum enzyme and isozyme indicators in pathological condition and diseases of heart, bone and liver.</p>
225	IMMUNOLOGY	1511622	Employability/Skill Development	<p>Illustrate various mechanisms that regulate immune responses and maintain tolerance.</p> <p>Apply basic technique to identify Antigen antibody reactions in disease diagnosis.</p> <p>Gain Knowledge in immunological techniques and same can be used in Vaccine production, diagnosis of disease.</p>
226	INTERMEDIARY METABOLISM -II	1511623	Employability/Skill Development	<p>Gain knowledge on the metabolism of amino acids and formation of urea.</p> <p>Understand the catabolic pathways of purine and pyrimidine.</p> <p>Understand the clinical significance of faay acid metabolism.</p>
227	TECHNIQUES IN MOLECULAR BIOLOGY	1511624	Employability/Entrepreneurship/ Skill Development	<p>Explain the principles of molecular cloning and PCR, cell transfection and Western blotting.</p> <p>Follow the general safety routines in molecular biology laboratory.</p> <p>Use instrumentation and gene technology methods for separation and analysis of proteins and nucleic acids</p>
B.Sc. BioTechnology -12				
228	CELL BIOLOGY	1712101	Employability, Skill Development	The student will be able to gain knowledge in structure, function and metabolic processes of cell.
229	MICROBIOLOGY	1712102	Employability, Skill Development	The student will be able to understand various microorganisms and their applications in various fields of biotechnology.
230	HERBAL MEDICINE	1712103	Employability, Entrepreneurship,	Students will be able to understand the role of traditional plants in medicine and common adulterants of herbal medicines.



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231	DEVELOPMENTAL BIOLOGY	1712204	Employability, Skill Development	Students will be able to gain knowledge on the Sequential processes involved in development of an organism from fertilization to organ system formation
232	CHEMISTRY	1712205	Employability,	The student will be able to understand the basic concepts and principles of atoms, molecules and carbohydrates
233	FOOD TECHNOLOGY	1712206	Employability, Entrepreneurship	Students will be able to know about food groups and food industries in India. They will be able to understand about the possible contaminants of food, preservatives to prevent food spoilage and different types of food packaging that protects food from various biotic and abiotic factors during transportation
234	GENETICS	1612311	Employability, Skill Development	Students will be able to understand on the role of biomolecules involved in heredity, principles of gene transfer and the disorders linked with various defects in genes
235	BIOCHEMISTRY	1612312	Employability, Entrepreneurship	Students will be able to understand about the biomolecules and its role in various metabolic processes.
236	GENETIC ENGINEERING	1512623	Employability, Entrepreneurship,	Students will be able to understand about cloning vectors, DNA amplification techniques, screening techniques for identifying recombinants, transfer of recombinants to host cells used in genetic engineering technology
237	BIOANALYTICS AND BIOSTATISTICS	1612414	Employability, Skill Development	Students will be able to gain knowledge on the various analytical techniques such as chromatography, electrophoresis and interpretation of data by statistical applications
238	IMMUNOLOGY	1512520	Employability, Skill Development	Students will be able to gain knowledge on the role of defense mechanism, lymphocytes, antigen antibody reactions and vaccines which is vital to understand immune system of the body
239	BIOINFORMATICS	1512624	Employability, Skill Development	Students will be able to understand about various nucleotide, protein databases, steps in retrieving and analyzing information from databases to understand about an organism or biological molecule.
240	MICROBIAL BIOPROCESS TECHNOLOGY	1512625	Employability, Skill Development	Students will be able to gain knowledge in the role of microbial enzymes and various fermentors used in industrial processes, role of microbes in degradation of toxins and utilization of microbes as biofertilizers
241	PHARMACEUTICAL BIOTECHNOLOGY	1512521	Employability, Entrepreneurship,	Students will be able to understand the action of drugs in system and by system, drug designing and basics of gene therapy
242	MARINE BIOTECHNOLOGY	1512522	Employability, Entrepreneurship,	Students will be able to gain knowledge on the historical background of aquaculture, construction system for aquafarms, cultivation of various aquatic organisms of commercial importance and the application of aquatic organisms in protecting environment from pollutants



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243	ANIMAL BIOTECHNOLOGY AND STEM CELL BIOLOGY	1512518	Employability, Skill Development	Students will be able to gain knowledge about animal tissue culture, strategies of gene transfer and various types of stem cells.
244	PLANT BIOTECHNOLOGY	1612413	Employability, Entrepreneurship,	Students will be able to understand various components required for plant tissue culture and recombinant technology in plants
245	ENVIRONMENTAL BIOTECHNOLOGY	1512519	Employability, Skill Development	Students will be able to know about water and air pollution, hazardous chemicals causing pollution and the role of biotechnology in reducing the ill effects of pollution
246	INTELLECTUAL PROPERTY RIGHTS, BIOSAFETY AND BIOETHICS	1512627	Employability,	Students will be able to understand the importance of Intellectual property rights, biosafety and bioethics in biotechnology
247	INDUSTRIAL BIOTECHNOLOGY	1512626	Employability, Skill Development	The students will be able to understand about various biotechnology industries and the different industrial products produced by using biotechnological methods.
B.Sc Plant Biology & Plant Biotechnology -13				
248	HORTICULTURE AND MUSHROOM CULTIVATION	1513517	Employability/Entrepreneurship/Skill Development	Students after taking this course will be able to apply the vermicomposting process in a smaller areas, promoting natural farming process without any pollution. This will also enable students to start up their own Business
249	VERMITECHNOLOGY (NME)	1713103	Employability/Entrepreneurship	Students after completing this course will acquire skills in techniques of Plant growth & development. They acquire skill knowledge in cultivating Mushrooms. This course will enable them to become a successful Entrepreneur.
B Sc Visual Communication -14				
250	ART AND AESTHETICS	1714102	Employability	The students will be able to understand the aesthetics of a painting or any art work and would be able to incorporate in their work. They become more professional and this in turn helps them to build their career and employment opportunities.
251	DRAWING	1714104	Skill Development	At the end of this course, the students will be able to enhance their drawing skills which thereby helps them to interpret about different shapes and design. The student will be able to identify various patterns and textures, and they would implement in their drawing.
252	GRAPHIC DESIGN	1714105	Skill Development	At the end of the Course, the Student will be able to create company name, brand name, visiting cards, letter head, brochures and posters. This thereby enhances their skill. Also they would be able to analyze print advertisement and the tint preparation as a whole.



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253	WRITING FOR MEDIA	1714206	Skill Development	At the end of the Course, the Student will be able to develop an idea on how to write a script which thereby enhances his/her skill. Also they would be able to develop content for features and documentary.
254	PSYCHOLOGY OF MEDIA	1714207	Skill Development	At the end of the Course, the Student will be able to identify and discuss the relation between media and psychology and its impact on the community.
255	MURAL PAINTING	1714208	Entrepreneurship/Skill Development	At the end of the Course, the student will be able to imitate original art mix like mosaic, terracotta, tile, etc and excel in contemporary mural painting.
256	DRAWING II	1714209	Employability	At the end of this course, the students will be able to enhance their drawing skills which thereby helps them to interpret about different shapes and design. The student will be able to identify various patterns and textures, and they would implement in their drawing.
257	GRAPHIC DESIGN-II	1714210	Employability	At the end of the Course, the Student will be able to create company name, brand name, visiting cards, letter head, brochures and posters. This thereby enhances their skill. Also they would be able to analyze print advertisement and the tint preparation as a whole.
258	COMPUTER GRAPHICS	1614313	Employability	At the end of the Course, the Student will be able to create a print design, various types of illustrations, print advertisements, newspaper layout and 2D advertisement and Greetings with the help of software from Adobe.
259	PHOTOGRAPHY	1614314	Employability	At the end of the Course, the Student will be able to identify the structure and functions of a DSLR camera. They would be given hands-on training on how to handle a camera and what are the factors that are to be kept in mind while taking a photograph in order to become a professional photographer.
260	ADVANCED PHOTOGRAPHY	1614416	Employability/Entrepreneurship/S	At the end of the Course, the Student will be able to identify the structure and functions of a DSLR camera. They would be given hands-on training on how to handle a camera and what are the factors that are to be kept in mind while taking a photograph in order to become a professional photographer.



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261	MULTIMEDIA	1614417	Employability	At the end of the Course, the Student will be able to create a static multipage website, motion graphics for online media and social network, title design and intro design for movies and TV production, explainer video for a company's product and a full video advertisement with CGI and Motion Graphics.
262	DIGITAL CINEMATOGRAPHY	1614418	Employability/Skill Development	At the end of the Course, the Student will be able to understand cinematic terms. They will enhance their skills by creating radio jingles, PSA, and small budget films or TV series.
263	AUDIO VISUAL TECHNIQUES	1514522	Employability/Skill Development	At the end of the Course, the Student will be able to enhance their skill on computing and creating short films. They will be able to indicate the social issues and relate them with the usage of audio visual concepts.
264	3DS MAX AND MAYA	1514524	Employability	At the end of the Course, the Student will be able to apply audio and video production techniques to an Animation project. This adds up to their employability skills. They would be able to develop portfolios based on texturing, creating anatomy models, portfolios based on rigging and set modelling.
B Sc Computer Science -15				
265	FUNDAMENTALS OF DIGITAL ELECTRONICS	1715101	Employability, Skill Development	1. Express basic concepts and logic circuits. 2. Capable to design different types of digital logic circuit
266	PROBLEM SOLVING TECHNIQUES	1715102	Employability, Skill Development	1. Distinguish Relevant and Non-Relevant data 2. Recognize Explicit and Tacit assumptions 3. Explore new Possibilities
267	NME I: LOGICAL AND ANALYTICAL REASONING	1715103	Employability, Skill Development	1. Active learning design principles are evident in each lesson. 2. Students will be expected to actively do mathematics—such as analyzing data, constructing hypotheses, solving problems, reflecting on their work, and making connections.
268	INTRODUCTION TO C++ PROGRAMMING	1715205	Employability, Skill Development	1. Understand the difference between the top-down and bottom-up approach 2. Apply the concepts of object-oriented programming. 3. Illustrate the process of data file manipulations using C++



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269	MICROPROCESSOR AND ITS APPLICATIONS	1715206	Employability, Skill Development	<ol style="list-style-type: none">1. Understand the architecture of 8085 and 8086.2. Impart the knowledge about the instruction set.3. Understand the basic idea about the data transfer schemes and its applications
270	CONTEMPORARY MANAGEMENT SKILLS	1715207	Employability, Skill Development	<ol style="list-style-type: none">1. Describe the nature of different types of managerial approaches adopted by organisations in contemporary time2. Understand the purpose of different types of contemporary managerial approaches3. Examine the different ways that organisations can implement these contemporary managerial approaches in the workplace
271	OBJECT ORIENTED PROGRAMMING USING C++	1615309	Employability, Skill Development	<ol style="list-style-type: none">1. Describe the OOP approach connection with C++2. Apply the concepts of OOP.3. Illustrate the process of data and file Manipulation.
272	DATA STRUCTURES AND ALGORITHMS	1615310	Employability, Skill Development	<ol style="list-style-type: none">1. Understand and remember algorithms and its analysis procedure.2. Introduce the concept of data structures through ADT including List, Stack, Queues3. To design and implement various data structure algorithms.4. To introduce various techniques for representation of the data in the real world.5. To develop application using data structure algorithms
273	JAVA PROGRAMMING	1615412	Employability, Skill Development	<ol style="list-style-type: none">1. Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.2. Read and make elementary modifications to Java programs that solve real-world problems.3. Be able to create an application using string concept.4. Be able to create a program using files in application.5. Be able to create an Applet to create an application.6. Identify and fix defects and common security issues in code.
274	COMPUTER ARCHITECTURE	1615413	Employability, Skill Development	<ol style="list-style-type: none">1. Understand the Theory and Architecture of CPU.2. Use appropriate tool to design and test CPU Architecture.3. Learn the concepts of Processes and Pipelining.
275	OPERATING SYSTEM	1515515	Employability, Skill Development	<ol style="list-style-type: none">1. To understand the main components of an OS & their functions.2. To study the process management and scheduling.3. To understand various issues in Inter Process Communication (IPC) and the role of OS in IPC.4. To understand the concepts and implementation Memory management policies and virtual memory.5. To understand the working of an OS as a resource manager, file system manager, process manager, memory manager and I/O manager and methods used to implement the different parts of OS.



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276	DATABASE MANAGEMENT SYSTEMS	1515516	Employability, Skill Development	<ol style="list-style-type: none">1. To understand the main components of an OS & their functions.2. To study the process management and scheduling.3. To understand various issues in Inter Process Communication (IPC) and the role of OS in IPC.4. To understand the concepts and implementation Memory management policies and virtual memory.5. To understand the working of an OS as a resource manager, file system manager, process manager, memory manager and I/O manager and methods used to implement the different parts of OS.
277	COMPUTER GRAPHICS	1515517	Employability, Skill Development	<ol style="list-style-type: none">1. To introduce the use of the components of a graphics system and become familiar with building approach of graphics system components and Algorithms2. Apply the concepts of color models3. Explain the core concepts of Computer Graphics
278	VISUAL PROGRAMMING	1515518	Employability, Skill Development	<ol style="list-style-type: none">1. To Develop an Event Planning Chart based on problem description so as to define the processing that is to occur based on specific events.2. Apply Graphical User Interface (GUI) based on problem description.
279	DATA COMMUNICATION AND NETWORKING	1515621	Employability, Skill Development	<ol style="list-style-type: none">1. To develop an understanding of modern network architectures from a design and performance perspective.2. To introduce the student to the major concepts involved in wide-area networks (WANs), local area networks (LANs) and Wireless LANs (WLANs).3. To clarify network terminology.4. To provide an opportunity to do network programming using TCP/IP.5. To give the students experience working in programming teams.6. To provide a WLAN measurement experience.7. To expose students to emerging technologies and their potential impact.
280	WEB PROGRAMMING	1515622	Employability, Skill Development	<ol style="list-style-type: none">1. Structuring the HTML tags, Lists, Tables, Frames, Forms and Forms elements.2. Emphasizing the DHTML Style Sheets, linking a Style Sheet and Web page designing3. To point out Form object, User Defined Object and Cookies.4. Creating ASP.Net applications using standard .net controls to develop a data driven web application for Connecting to data sources and managing them.
281	SOFTWARE ENGINEERING	1515623	Employability, Skill Development	<ol style="list-style-type: none">1. To introduce the students to a branch of study associated with the development of a software product.2. To gain basic knowledge about the pre-requisites for planning a software project.3. To gain knowledge about the project scheduling concept in software engineering.4. To learn how to design of software.5. To enable the students to perform testing of a software.



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282	PHP PROGRAMMING	1515624	Employability, Skill Development	1. To make the students learn best practices in programming approach 2. Enable the students to create attractive web pages using hypertext
M.Com -20				
283	ADVANCED CORPORATE ACCOUNTING I	1720101	Skill Development	To impart profound knowledge on accounting procedures and standards of corporate houses.
284	FINANCIAL MANAGEMENT	1720102	Employability	To enable students to acquire knowledge on various tools and techniques in making sound financial decisions.
285	CONSUMER BEHAVIOUR	1720103	Employability	To understand the strategic implications of consumer influences on marketing decisions.
286	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1720104	Employability	To introduce the concept and impact of Logistics and Supply Chain Management with a competitive strategy overview.
287	ADVANCED STATISTICS	1721106	Skill Development	To acquaint students on various advanced statistical techniques applicable in business.
288	ADVANCED CORPORATE ACCOUNTING II	1720205	Skill Development	To enable students in understanding the application of various accounting standards.
289	SERVICE MARKETING	1720206	Employability	To introduce the concepts of service marketing, explain how service features result in certain unique problems in marketing and provide an insight into the marketing strategies.
290	CORPORATE LAWS	1720207	Employability	To gain insight on the various concepts and laws pertaining to corporate houses.
291	CORPORATE GOVERNANCE, ETHICS, AND RESPONSIBILITY OF BUSINESS	1720208	Employability	To educate students on corporate governance and business ethics.
292	RESOURCE MANAGEMENT TECHNIQUE	1721212	Skill Development	To enable students acquire knowledge on various techniques and models relevant in managing resources of the organization.
293	ACCOUNTING FOR MANAGERS - I	1620309	Skill Development	To impart knowledge on various advanced techniques and systems used in cost accounting.
294	RESEARCH METHODOLOGY	1620310	Skill Development	To impart in-depth insights on various methods used in Research
295	TAX MANAGEMENT - DIRECT TAX	1620311	Employability	To impart knowledge of the important provisions pertaining to Direct Taxes.
296	MANAGERIAL ECONOMICS	1620312	Employability	To focus on the application of Economics in Managing Business
297	INDIA'S FOREIGN TRADE AND INVESTMENT	1620313	Employability	Outcome of this course is to acquaint the students with structure and policy framewok of India's Foreign Trade and Investment.
298	ACCOUNTING FOR MANAGERS - II	1620416	Skill Development	To impart indepth knowledge in application of Management tools in Business.



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299	ADVERTISEMENT AND SALESMANSHIP	1620417	Employability	To develop an in-depth understanding of the modern concepts and latest techniques of advertising, personal selling and sales force management which constitute a fastgrowing area of marketing.
300	ORGANIZATIONAL BEHAVIOUR	1620418	Employability	To understand and appreciate individual and group behavior in an organization.
301	INDIRECT TAXES	1620419	Employability	To impart knowledge of the important provisions pertaining to Indirect Taxes.
M.Sc. Mathematics -21				
302	PROBABILITY THEORY	1721103	Employability	The Student will be able to (i) Restate the probability concept with reference to Borel fields and categorize the discrete and continuous distributions by analyzing their characterization and structure. (ii) Demonstrate the application of Limit theorem in various situations. (iii) Prepare a probability model for any given real-life situation through survey.
303	MATHEMATICAL STATISTICS	1721210	Employability	The Student will be able to (i) Summarize the importance of sampling distributions and their classifications. (ii) Appraise the parameter value of any given distribution using statistical tools. (iii) Use the hypotheses testing technique to sample (Variable or Constant in size) collected from real life situation and compare the outcome with the existing one.
304	GRAPH THEORY	1721104	Skill Development	The Student will be able to (i) Apply the different concepts of Graph Theory and its application in day today life. (ii) Enable the students to model the real-world problems into Graph Theory problems and get solutions.
305	FUZZY SETS AND THEIR APPLICATIONS	1721211	Skill Development	The Student will be able to (i) Apply the concepts of fuzzy sets and fuzzy relations. (ii) Apply analysis of function of fuzzy variable using fuzzy logic.
306	NUMBER THEORY AND CRYPTOGRAPHY	1621317	Skill Development	The student will be able to (i) Restate the number theory concept with reference to numbers in different bases and categorize the Euclidean Algorithm and congruences by analyzing their characteristics and structure. (ii) Demonstrate the application of some simple cryptosystem using matrices. (iii) Prepare a formula for primality test and application of elliptic curves in cryptography.



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309	ALGEBRA-I	1721101	Employability	The Student will be able to explain Quadratic forms with suitable examples and apply them to problems
310	REAL ANALYSIS-I	1721102	Employability	The Student will be able to (i) Explain point set topology and functions of bounded variation with suitable examples and apply them to problems (ii) Apply the concept of Riemann – Stieltjes integrals.
311	NUMERICAL ANALYSIS	1721105	Employability, Skill Development	The Student will be able to (i) Solve nonlinear equations and system of nonlinear equations. (ii) Apply Interpolation for unequal and equal intervals and Compute derivatives using numerical differentiation. (iii) Develop numerical techniques to solve calculus problems.
312	ALGEBRA-II	1721207	Employability	The Student will be able to (i) Restate the ideas of Extension Fields, Galois Theory, Finite Fields, Wedderburn's Theorem for finite division rings and Four Squares Theorem. (ii) Understand Algebra and Linear Algebra at Advanced level and apply it in various branches of Engineering and Science
313	REAL ANALYSIS-II	1721208	Employability	The Student will be able to (i) Analyze the ideas of Measure Theory, Lebesgue Integrals, Functions of Several Variables and Fourier Series, Fourier Integrals and their convergence aspects. (ii) Apply The Riesz-Fischer Theorem and Taylor's theorem for functions of R_n to R_1 .
314	DIFFERENTIAL EQUATIONS	1721209	Employability	The Student will be able to (i) Apply the fundamental concepts and the techniques for solving ordinary differential equations in standard forms and using power series. (ii) Analyze non-homogeneous linear systems with constant coefficients. (iii) To know the role of PDE in modern Mathematics. (iv) Solve standard second order PDE by variable separable method.
315	COMPLEX ANALYSIS-I	1621313	Employability	Students will be able to (i) Demonstrate the knowledge of functions of a complex variable. (ii) Analyze the behavior of an analytic function and harmonic function in specified domain
316	TOPOLOGY	1621314	Employability	The Student will be able to (i) Apply the concept of convergence, completeness and continuous mappings in metric spaces. (ii) To demonstrate the applications of topological spaces, compact spaces and connected spaces.
317	MECHANICS	1621315	Employability	The Student will be able to (i) Use basic concepts and principles of classical mechanics, and apply them to simple examples. (ii) Apply the equations of motion for complicated mechanical systems using the Lagrangian and Hamiltonian formulation of classical mechanics



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318	DIFFERENTIAL GEOMETRY	16121316	Employability	The student will be able to (i) Examine and describe the concepts of curves, surfaces, involutes, evolutes, surface of revolution. (ii) Demonstrate the application of geodesic on a surface and Gaussian curvature.
319	COMPLEX ANALYSIS-II	1621418	Employability	(i) Determine the infinite product representation of Riemann zeta function and explore Riemann mapping theorem for simply connected regions.
320	FUNCTIONAL ANALYSIS	1621419	Employability	(i) Apply the concepts of Banach spaces, Hilbert spaces and Banach Algebras. (ii) To explain the importance of the Hahn-Banach theorem, Open mapping theorem in Functional Analysis.
321	TENSOR ANALYSIS AND THEORY OF RELATIVITY	1621420	Employability	(i) Formulate and express a physical law in terms of tensors and simplify it by use of the common form which is independent of the reference coordinate system (ii) Restate the Relativistic Doppler effect with examples.
322	FLUID DYNAMICS	1621421	Employability	(i) Restate the kinematics of a moving fluid. (ii) Demonstrate the applications of Milne Thomson Circle theorem with examples.
323	INTEGRAL EQUATIONS AND CALCULUS OF VARIATIONS	1621422	Employability	(i) Recognize and solve initial value problems and boundary value problems (ii) Explore the methods for finding extreme values of functionals (iii) Demonstrate the application of variational problems with moving boundaries and field of extremals using Jacobi and Legendre conditions
M.Sc. Physics - 22				
324	MATHEMATICAL PHYSICS I	1722101	Employability/Entrepreneurship/Skill Development	Course Outcomes: At the end of the Course, the Student will be able to: Learn about Gradient, Divergence, Curl, Laplace and their typical applications in Physics. Learn about all matrices that are relevant in Physics. Understand Bernoulli, Toricelli theorem and its significance. Get introduced Dirac delta function. Knowledgeable with symmetry operations in order to construct a character table for different compounds.
325	CLASSICAL MECHANICS AND RELATIVITY	1722102	Employability/Entrepreneurship/Skill Development	At the end of the Course, the Student will be able to: The Coriolis force in classical mechanics, the significance of conservation laws. Basic ideas about four vectors, Minkowski space. Dynamics of and ideas regarding Eigen values.
326	QUANTUM MECHANICS I	1722103	Employability/Entrepreneurship/Skill Development	At the end of the Course, the Student will be able to: Theory of simple harmonic oscillator and its application, concepts of perturbation theory, the derivation of Schrodinger formulations of time development and their applications, realize the industrial applications of Stark effect and also the usefulness of Eigen values.



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327	INTEGRATED ELECTRONICS	1722104	Employability/Entrepreneurship/ Skill Development	At the end of the Course, the Student will be able to: Field effect transistors (FET), MOSFET, UJT, SCR, their principles and applications, transducer bridge and their working in detail, the application of operational amplifier in filter circuits and timer 555 as VCO, the basis of digital electronics is the use of logic gates as flip flops and realizing how flip flops are used in the construction of counters and registers.
328	MATHEMATICAL PHYSICS II	1722205	Employability/Entrepreneurship/ Skill Development	At the end of the Course, the Student will be able to: know the method of Fourier transform to evaluate definite integrals of varying complexity, having gained ability to apply Laurent's and Taylor's series to Physics problems, deeper understanding of tensors and probability theory, another interesting aspect is the study of full-wave rectifier.
329	QUANTUM MECHANICS II	1722206	Employability/Entrepreneurship/ Skill Development	At the end of the Course, the Student will be able to: Relativistic Quantum Mechanics using Dirac equation, Dirac matrices, the Klein Gordon equation, etc., perturbation theory and Einstein's coefficient which are mathematical quantities, a measure of probability of absorption or emission of light useful in lasers, realizing in Physics the optical theorem helps to understand the wave-scattering theory
330	ELECTIVE PAPER I - SPECTROSCOPY	1722207	Employability/Entrepreneurship/ Skill Development	At the end of the Course, the Student will be able to: know about centrifugal distortion and zero-point energy of simple-harmonic oscillator, having gained the ability to apply the techniques of Raman, IR activity to elucidate the structure of molecules, be able to apply the principle of Raman spectroscopy, UV-Vis and FTIR its applications in the different field of Science and technology, to become familiar with different resonance spectroscopic techniques and its applications
331	EXTRA DISCIPLINARY PAPER I - MICROPROCESSOR FUNDAMENTALS - 8085	1722208	Employability/Entrepreneurship/ Skill Development	At the end of the Course, the Student will be able to: learn assembly language programming and arithmetic, aware of memory interfacing, and different data transfer schemes, learn interfacing with peripheral I/O devices, the relevance of RAM and ROM in microprocessor, the hierarchy of interrupts, learn common applications of microprocessors
332	STATISTICAL MECHANICS	1622311	Employability/Entrepreneurship/ Skill Development	At the end of the Course, the Student will be able to: Define the Fermi-Dirac and Bose-Einstein distributions, state where they are applicable, understand how they differ and show when they reduce to Boltzmann's distribution, apply the Fermi-Dirac distribution of thermal properties of electrons in metals, explain thermodynamics as a logical consequence of the postulates of statistical mechanics



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333	ELECTROMAGNETIC THEORY & PLASMA PHYSICS	1622312	Employability/Entrepreneurship/ Skill Development	At the end of the Course, the Student will be able to: understand the rather complex physical phenomena observed in plasma, have grasped the idea of electromagnetic wave propagation through wave guides, they will be able to distinguish between Coulomb and Lorentz gauge, know the Biot-Savart law and Ampere's law, they will also be able analyze the nature of the dielectric field in different systems
334	MICROPROCESSOR 8086 AND MICROCONTROLLER 8051	1622313	Employability/Entrepreneurship/ Skill Development	At the end of the Course, the Student will be able to: learn assembly language programming and arithmetic, aware of memory interfacing, and different data transfer schemes, learn interfacing with peripheral I/O devices, the relevance of RAM and ROM in microprocessor, the hierarchy of interrupts, learn common applications of microprocessors
335	EXTRA DISCIPLINARY PAPER II - MATERIALS SYNTHESIS AND CHARACTERIZATION	1622314	Employability/Entrepreneurship/ Skill Development	At the end of the Course, the Student will be able to: Carryout crystal growth practically in a lab, to describe the formation and use of X-rays in Material Science and Engineering Applications, the mechanism of crystal growth and the parameters that can influence the crystal growth, by knowing the different crystal growth techniques, the students can seek a job both in the semiconductor industry and national labs, design nanotubes for specific applications for specific applications
336	CONDENSED MATTER PHYSICS	1622415	Employability/Entrepreneurship/ Skill Development	At the end of the Course, the Student will be able to: have a basic knowledge of crystal systems and spatial symmetries, account how crystalline materials are studied using Bragg's law, be able to differentiate Type I and Type II superconductivity and realize the current applications of high temperature superconductors, derive Kronig-Penney equation and understand how the periodic structure of a crystal behaves in an electromagnetic field
337	NUCLEAR AND PARTICLE PHYSICS	1622416	Employability/Skill Development	At the end of the Course, the Student will be able to: have a basic knowledge of nuclear size, shape, binding energy, Q-value, etc., the characteristics of nucleon-nucleon in detail, be able to gain knowledge about magic numbers, have a wide understanding regarding Fermi's theory of beta decay, understand the basic forces in nature and classification of particles
338	ELECTIVE III - COMPUTATIONAL METHODS AND C PROGRAMMING	1622417	Employability/Entrepreneurship/ Skill Development	At the end of the Course, the Student will be able to: Gets a wide knowledge of numerical methods in Computational Physics, understand and construct flow chart and have a strong base in C language, solve problems using bisection and Newton-Raphson, Lagrangian, Trapezoidal and Simpson's rule
M.Sc. Biochemistry -24				



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339	BIOMOLECULES	1724101	Employability	obtain knowledge on levels of structural organization of proteins, lipids. Carbohydrates and enable them to work in food related Industries. Skills acquired can be used to analyze the properties of macromolecules Relate the knowledge of biomolecular structure to applications in medicine
340	INTERMEDIARY METABOLISM -I	1724102	Employability	Acquire adequate knowledge in various pathways in intermediary metabolism and bioenergetics. Apply the knowledge in Clinical applications. Acquire skill to develop drugs and trace the metabolism.
342	INTERMEDIARY METABOLISM-II	1724103	Employability	Use the skills in blood report analysis Trace the anabolic and catabolic pathways of purine and pyrimidine synthesis Comprehend the metabolism of amino acids.
343	ENZYMES	1724104	Employability/Skill Development	Enhances their ability in characterization of enzymes and used in R & D industries. Develop new enzymes using basic raw materials. Gain knowledge on role of cofactors
344	MEMBRANE BIOCHEMISTRY	1724105	Employability/Skill Development	Acquire knowledge about the composition, properties, models of membrane and functions Develop skills to isolate, membrane proteins from RBC and its structure and functions Learn the structure and functions of cell organelles, plant cell walls and bacterial membrane Understand the mechanism of transport across membrane
345	ANALYTICAL BIOCHEMISTRY	1724206	Employability/Entrepreneurship/ Skill Development	Perform organ and tissue slice techniques during animal handling in higher studies. Acquire analytical skills to separate molecule using various chromatographic techniques Separate proteins, DNA various electrophoretic techniques in identification of genetic disorders.
346	PHYSIOLOGY	1724207	Employability/Entrepreneurship/ Skill Development	Apply the physiological concepts in various industries such as pharmaceutical companies & R & D areas in various institutes and companies. Acquire knowledge to carry out blood grouping experiments in blood samples.



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347	MOLECULAR BIOLOGY	1724208	Employability	Gain in-depth knowledge of the core principles of biological and/or medicinal processes to manipulate genes. Learn the insight of most significant molecular and cell based methods used in biotechnology industries.
348	FOOD & NUTRITION	1724209	Employability/Skill Development	Gain knowledge on the physiological significance of carbohydrates, proteins and fats in the body and can be used in nutrition related fields. Understand the biological significance of phytochemicals. Prepare a dietary chart for diabetic and renal failure patients and can become nutritionist.
349	BIOETHICS, IPR & HR	1724210	Employability/Skill Development	Analyze The Bioethics Of Cloning And Recombinant Drugs Production Apply Article 21 In Different Case Studies And IPR and IPP. Prioritize Biosafety Measures From Biohazards.
350	CLINICAL BIOCHEMISTRY	1624313	Employability/Entrepreneurship/ Skill Development	Become clinical researcher , clinical Trials and related documentation preparation personnel. Become Entrepreneurs by setting up their own clinical laboratories.
351	BIOSTATISTICS	1624314	Employability/Skill Development	Develop the problem-solving skills which will enable independent practice as a specialist. Develop related transferable skills such as correct use of statistics Carry out clinical correlations in a better way.
352	MICROBIOLOGY	1624315	Employability/Entrepreneurship	understand the concept of recombination, elucidate gene transfer mechanisms Understand the host microbe interaction in and knowledge can be employed in health and disease sector. Set up small scale industries related to dairy products.
353	CELL & MOLECULAR ENDOCRINOLOGY	1624316	Employability	Apply the knowledge in assessing hormonal levels during lab diagnostics. Develop professional competencies of medical graduates in allied areas to understand the pathophysiology, investigation and management of endocrine disorders



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354	BIOCHEMISTRY OF CLONING VECTORS	1624317	Skill Development	Develop an understanding of several cloning vectors Design a workflow to carry out recombinant DNA technology experiment. Acquire skills to work in lifescience related research Institutes.
355	BIOTECHNOLOGY	1624418	Employability/Entrepreneurship/ Skill Development	Apply protocols for basic experimental work within the field of molecular biology and biochemistry Gain work experience in Food, animal, and environmental science Learn and apply IVF techniques and procedures in hospitals.
356	IMMUNOLOGY	1624419	Employability/Skill Development	Understanding of the overview of immune system including cells, organs and vaccines. Expertise in testing Immunological kits. carry out and analyse tests on patients with a range of immune system disorders
357	BIOINFORMATICS	1624420	Employability/Skill Development	Search large databases, interpret their results during higher studies. Analyze gene expression data from microarrays or RNA sequencing in lifescience related jobs. Perform alignment using different alignment tools and interpret it in study of evolution.
M.Sc. BioTechnology -25				
358	BIOCHEMISTRY AND BIOMOLECULES	1725101	Employability, Skill Development	The students get the basic understanding of enzyme function as biocatalysts and fermentation in various aspects of biotechnology.
359	MICROBIOLOGY AND IMMUNOLOGY	1725102	Employability, Entrepreneurship,	The students will get basic knowledge about the common most pathogenic microbes and its virulence factors and also will gain clear knowledge on the immune system and its functions
360	MOLECULAR CELL BIOLOGY	1725103	Employability, Skill Development	Students will be able to emphasize conceptual appreciation of the molecular interplays which are the basis of "chemical processes" in living systems and its relationship with biotechnology.
361	MOLECULAR GENETICS	1725104	Employability, Skill Development	The students will be able to the study of genetic material, the gene as a unit of recombination, mutation, genetics which helps to understand how traits are inherited and to use this understanding in analyses (to solve problems and complete pedigrees) Linkage, Crossing over and population genetics.
362	DEVELOPMENTAL BIOLOGY	1725105	Employability, Skill Development	The students will be able to know cellular mechanisms in embryology, essential for doing research in developmental biology field
363	ANIMAL BIOTECHNOLOGY AND STEM CELL	1725206	Employability, Entrepreneurship,	The student will get exposed to the application of culture techniques to improve the quality and quantity of the animal derived products



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364	PLANT BIOTECHNOLOGY	1725207	Employability, Entrepreneurship,	The students will get knowledge in advanced techniques including micropropagation and genetic transformation methods, propagation of disease-free plants, molecular markers for identification of traits in genome and also useful tool for somaclonal variation.
365	GENETIC ENGINEERING	1725208	Employability, Entrepreneurship,	The student will be able to understand the concepts and knowledge about genetic engineering and rDNA technology, molecular techniques involved in it.
366	BIOINFORMATICS	1725209	Employability, Entrepreneurship,	Students will be able to learn sequence alignment, gene finding, genome assembly, drug design, drug discovery, protein structure alignment, protein structure prediction, prediction of gene expression and they will be able to perform mapping and analyzing DNA and protein sequences, aligning DNA and protein sequences to compare them, and creating and viewing 3-D models of protein structures
367	MARINE BIOTECHNOLOGY	1725210	Employability, Entrepreneurship,	The students will gain knowledge on marine biodiversity and its economy in context to global change. They get better understanding about marine bioresources and its biotechnological application
368	MICROBIAL BIOPROCESS TECHNOLOGY	1625313	Employability, Skill Development	The students will get an up-to-date knowledge of upstream and downstream processing technology and the key process design concepts relating to the production of biomolecules of industrial importance.
369	ENZYMES AND ENZYME TECHNOLOGY	1625314	Employability, Entrepreneurship,	The students get the basic understanding of enzyme function as biocatalysts and fermentation in various aspects of biotechnology.
370	ENVIRONMENTAL BIOTECHNOLOGY	1625315	Employability, Entrepreneurship,	The students will be able to learn the techniques involved in environmental sustainability and learn about the microbes prevailing
371	PHARMACEUTICAL BIOTECHNOLOGY	1625419	Employability, Entrepreneurship,	The students will be able to understand the basic concepts, scope and applications of Pharmacology, drug designing and gene therapy
372	ADVANCED MOLECULAR TECHNIQUES	1725317	Employability, Entrepreneurship,	The students will be able to understand the principles of various molecular techniques, imaging and diagnostic techniques and their clinical application
373	RESEARCH METHODOLOGY, BIOETHICS & BI	1625316	Employability, Skill Development	The students will gain the knowledge to identify the overall process of designing a research study and able to identify research problem stated in a study



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374	TISSUE ENGINEERING	1625418	Employability, Skill Development	The students will learn about key technologies used in tissue engineering and regenerative medicine, will deal with the basic and clinical aspects of stem cell research, the conversion of stem cell types into a variety of suitable tissues and gain state-of-the-art knowledge on the potential of stem cells for the regeneration of a wide range of tissues and organs.
M.Sc. Applied Microbiology -26				
378	FUNDAMENTALS OF MICROBIOLOGY AND MICROBIAL PHYSIOLOGY	1726101	Employability	At the end of the course, the student will be able <ul style="list-style-type: none"> •To emphasize the Classification Principles, and learn about the techniques to study the bacterial cell structure, nutritional requirements growth. •Master in aseptic techniques and be able to safely and successfully perform routine culture handling duties. •Understand how different types of microscopes work and how to use them for microbiological work.
379	MEDICAL MICROBIOLOGY - I	1726102	Employability, Entrepreneurship	At the end of the course, the student will be able <ul style="list-style-type: none"> • Assess the role of normal flora in the human body and gain knowledge of the human infections. • Apply appropriate conventional and modern microbiological techniques, methodologies, instrumentation in accordance with diagnostic procedures.
380	BASICS IN IMMUNOLOGY AND IMMUNOTECHNOLOGY	1726103	Employability, Skill Development	At the end of the course, the student will be able <ul style="list-style-type: none"> •Investigate the immune system's various cells, as well as their responses to humoral and cell-mediated immunity and immunodeficiency diseases. •To gain a better understanding on vaccine production and immunization schedule. •Understand the various mechanisms involved in tissue and organ transplantation, immune response to tumor antigens and how immune responses have a role in hypersensitivity.
381	MOLECULAR BIOLOGY AND MICROBIAL GENETICS	1726104	Employability, Skill Development	At the end of the course, the student will be able <ul style="list-style-type: none"> •Understand the notion of molecular biology's basic dogma, have a conceptual understanding of DNA as a genetic material and can describe the structure and function of DNA and RNA in a cell. •To explain the significance of gene transfer mechanism. •Understand the molecular mechanisms involved in transcription and translation in prokaryotes and eukaryotes.



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382	BIOINFORMATICS	1726105	Employability, Entrepreneurship, Skill Development	<p>At the end of the course, the student will be able</p> <ul style="list-style-type: none">•Assess the computational methods, tools, and algorithms used in biological data interpretation, as well as phylogenetic analysis strategies and tools.•To gain knowledge on existing software techniques to predict and understand the interaction between the genome's secondary protein structure,•To assess various concepts, advanced technological docking tools, and QSAR research in computational drug development.
383	FOOD, DAIRY AND INDUSTRIAL MICROBIOLOGY	1726207	Employability, Entrepreneurship	<p>At the end of the course, the student will be able</p> <ul style="list-style-type: none">•Understand the mechanism of food deterioration and food preservation.•Recognize the role of microorganisms in fermented foods and dairy products.•Understand the relevance food safety regulations, regulatory bodies, and quality assurance programs such as FDA, HACCP, BIS, and FSSAI.
384	MEDICAL MICROBIOLOGY - II	1726209	Employability, Skill Development	<p>At the end of the course, the student will be able</p> <ul style="list-style-type: none">•Learn about the parasitic infections in terms of identification, pathogenicity and diagnosis and treatment.•To inculcate knowledge on various viral diseases and diagnostic procedures.
385	SOIL AND AGRICULTURAL MICROBIOLOGY	1726208	Employability	<p>At the end of the course, the student will be able</p> <ul style="list-style-type: none">•To gain knowledge on nitrogen fixers and phosphorus solubilizers in terms of soil fertility.•To understand microbe-animal and plant interactions, positive and negative associations and biogeochemical cycles.•To emphasize microbial biodegradation of organic and agricultural products.
386	PHARMACEUTICAL MICROBIOLOGY	1726210	Employability, Skill Development	<p>At the end of the course, the student will be able</p> <ul style="list-style-type: none">•Acquire indepth knowledge in spoilage and contamination of pharmaceutical products.•To gain knowledge on production of antibiotics, therapeutic enzymes and other pharmaceutical formulations.•To emphasize quality assurance and quality management in pharmaceuticals according to various national and international standards.



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387	TISSUE BIOTECHNOLOGY	1726211	Employability, Entrepreneurship	At the end of the course, the student will be able <ul style="list-style-type: none"> •Discover the techniques and aseptic procedures involved in tissue culture. •To gain knowledge on plant and animal cell culture. •Understand the advantages of cloning and hybridoma technologies, Stem cell cultures and Therapeutic cloning.
388	BIOINSTRUMENTATION	1626316	Employability	At the end of the course, the student will be able examine the significance of advanced biochemical instrumentation techniques in modern research and their applications by learning about the concepts, applications, benefits, and limitations of typical biological lab tools. Understand various molecular spectroscopy's concepts, principles, instruments, operations, and applications in biomedical sciences. Improve the ability to carry out research activities by learning basic and advanced chromatographic purification processes, gel electrophoresis.
389	RECOMBINANT DNA TECHNOLOGY	1626317	Employability, Skill Development	At the end of the course, the student will be able to validate knowledge of genetic engineering tools and techniques, as well as the usage of various cloning vectors and understand the fundamentals and concepts of rDNA cloning techniques. Learn about the many ways of gene transfer. Educate advanced molecular techniques like DNA finger printing, RFLP and their biological applications to meet international standards.
390	MICROBIAL PRODUCTS	1626318	Employability, Entrepreneurship	At the end of the course, the student will be able to boost entrepreneurial skills in developing various economically important products from microorganisms. To gain an understanding in various quality assurance concepts.
391	BIOPROCESS TECHNOLOGY	1626319	Employability, Skill Development	At the end of the course, the student will be able to develop skills on various upstream and downstream processes. To understand the implementation of various techniques in bioprocess industries.
392	NANOBIOTECHNOLOGY	1626320	Employability, Skill Development	At the end of the course, the student will be able to understand the interactions between biomolecules and nanoparticle surfaces, as well as their applications, by learning about the many methods of nanoparticle creation, including physical, chemical, and biological processes. Gain a solid understanding of the principles of a variety of physical and chemical characterisation techniques.
393	BIOSAFETY AND CLINICAL RESEARCH	1626422	Employability, Entrepreneurship, Skill Development	At the end of the course, the student will be able to develop knowledge on laboratory risks and implementation of biosafety procedures. To independently execute bioassay techniques for biotherapeutics, nutraceutical products, vaccines and antibiotics.
M.Sc. Computer Science -27				



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394	DESIGN AND ANALYSIS OF ALGORITHMS	1727101	Employability, Skill Development	<ol style="list-style-type: none">1. Know the essentials of algorithms. Analyze the asymptotic performance of algorithms. Gain insights into randomized algorithms and primality testing.2. Describe the divide-and-conquer and greedy paradigm. Explain when an algorithmic design situation calls for it. Recite algorithms that employ this paradigm. Synthesize divide-and-conquer, greedy algorithms and analyse them.3. Discuss the dynamic-programming paradigm and implementation of dynamic programming in various algorithmic design and analyze them.4. Define the design of backtracking, branch and bound paradigm. Describe the algorithms using this paradigm. Synthesize and analyze them.5. Know the concepts of non-deterministic algorithms, Lower bounds theory problems and the classes NP-hard and NP-complete problems. Synthesize appropriate algorithm for a design situation
395	PROGRAMMING IN PYTHON	1727102	Employability	<ol style="list-style-type: none">1. Understand the basic concepts of various operating systems and data types.2. Illustrate the concept of strings and its manipulation.3. Illustrate python for file handling in databases.4. Understand the various graphic methods to solve different problems.5. Interpret data exploration and data munging.6. Gain knowledge on data science.



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396	COMPUTER NETWORKS	1727103	Employability	<ol style="list-style-type: none">1. Have knowledge of the basic principles, concepts of computer networks and the design of OSI layers.2. To get insights into the Data Link Layer protocols3. To provide overview of the Protocols of Medium Access sub layer4. To identify the design issues and solutions in the Network Layer5. To have basic knowledge of TCP protocol6. Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies.
397	PROGRAMMING IN PHP	1727104	Employability	<ol style="list-style-type: none">1. Develop the knowledge of Hardware and Software requirements, Installation of PHP, data types, different types of operators and Control Structures in PHP.2. Implementation of arrays, Looping Structures, Functions in PHP.3. Learn the concepts of File System. Working with Forms and Implementation of Regular Expressions in Forms.4. Gain the Knowledge of OOPS concept.5. Implementation of Database Connectivity using MYSQL and Learn the concepts of Cookies.6. Implementation of Session and AJAX



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398	OBJECT ORIENTED SOFTWARE ENGINEERING	1727105	Employability	<ol style="list-style-type: none">1.Knows the reason about the basic Software life cycle models. Importance of various kinds of Project Management methods, Tracking Software Quality, Quality Standards and Metrics.2.Develop System Concepts for Object Modelling. Design and implement a software design concepts to meet desired needs and Requirements. Design the UML concepts like sequential, Use cases and Activity diagram3.Concepts of Use cases, actors, and common modelling techniques. Implement the concept use cases, business actors , Significance of identifying the subsystems and business requirements4.Explain Design Workflow and System Design Concept. Create Mapping Object Model to Database Schema Testing and verification process.5.Usage of Software Configuration Management. Define maintenance and its types. Build Reverse and re-engineering process.6.Create projects using tools of software engineering and techniques.
399	DIGITAL IMAGE PROCESSING	1727208	Skill Development	<ol style="list-style-type: none">1.Describe the fundamentals of image processing and its applications.2.Gain adequate knowledge of Image enhancement techniques in spatial domain3.Detailed classification of Image enhancement techniques in frequency domain and compare with spatial domain techniques4.Analyze the Image restoration and degradation concepts Identify the fundamentals techniques in image segmentation5.Acquire a good knowledge of Image compression techniques6.Interpret Image segmentation, restoration and compression techniques



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400	ADVANCED DATABASE MANAGEMENT SYSTEMS	1727209	Employability	<ol style="list-style-type: none">1.Describe the characteristics of Database Management Systems and about the concepts and models of database.2.Design ER-models to represent simple database application scenarios.3.Convert the ER-model to relational tables, populate relational database. Improve the database design by normalization.4.Describe the fundamental elements of Object and Object relational database management systems.5.Get the knowledge of Data Warehousing And Distributed DBMS6.Analyse and describe the Management issues of Mobile databases and Multimedia Databases
401	ENTERPRISE COMPUTING	1727210	Employability, Entrepreneurship	<ol style="list-style-type: none">1.Understand various concepts of Enterprise programming, analyze and implement the RMI Architecture for the necessary applications.2.Implement Session management using Servlet and implement JDBC for the database connectivity.3.Develop Web applications using JSP and JSP error pages.4.Design an application that sends and receives email with attachments.5.Implement Database connectivity through Hibernate Framework and also build web applications using Spring MVC.6.Study and use modern tools for rapidly building enterprise applications.



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402	DATA WAREHOUSING AND DATA MINING	1727211	Employability, Skill Development	<ol style="list-style-type: none">1.Appreciate the basic principles, concepts and applications of data warehousing and data mining2.Have a good knowledge of the preprocessing techniques3.Perform Data Mining using association rules4.Get insights from data using classification and prediction techniques5.Acquire knowledge of clustering techniques and outliers6.Apply data mining techniques to real world data by cleaning the data, integrating the data from different sources, predicting a model to group the data tuples into classes, discovering patterns using association rule mining and grouping the data set into clusters.
403	WAP AND XML	1727212	Employability, Skill Development	<ol style="list-style-type: none">1.Develop knowledge of basic wireless environment, Wireless applications protocol.2.Have a good knowledge of WAP gateway and their functionalities.3.Construct the Wireless Markup Language and its applications.4.Gain the knowledge of XML applications and Preparing style sheets.5.Implementation of XSLT.6.Compare accepted standards and guidelines to select appropriate applications of XML to meet specified performance requirements.
404	SOFTWARE TESTING	1627315	Employability,Skill Development	<ol style="list-style-type: none">1.To study fundamental concepts in software testing2.To discuss various software testing issues and solutions in software unit test, integration and system testing.3.To expose the advanced software testing topics, such as object-oriented software testing methods.
405	DATA MINING	1627316	Employability,Skill Development	<ol style="list-style-type: none">1.Appreciate the basic principles, concepts and applications of data warehousing and data mining.2.Have a good knowledge of the preprocessing techniques.3.Perform Data Mining using association rules.
406	WEB FRAMEWORKS	1627317	Employability	<ol style="list-style-type: none">1.Build their own beautiful, fully-functioning, full-stack websites as quickly as possible.



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407	SOFT COMPUTING	1627318	Skill Development	1.Gain basic knowledge of Artificial Neural Network, Fuzzy logic and Genetic algorithms 2.Analyse different neural network architectures 3.Get insight into classical sets and fuzzy sets
408	CYRPTOGRAPHY	1627319	Employability,Skill Development	1.Gain knowledge about Conventional encryption model. 2.Analyse Euclidean Algorithm and Number theory. 3.Understanding Key exchanges.
M.Sc. Information Technology -28				
409	OPERATING SYSTEM.	1728101	Skill Development	1.Basic concepts of operating system, process management, Threads - Interprocess Communication. CPU Scheduling 2.Discuss various Process Synchronization problems, critical region and monitors 3.Discuss about Deadlock Characterization, Methods for handling Deadlocks, Prevention, Avoidance, and Detection of Deadlock and Recovery from deadlock. 4.Analyse the Memory Management and its allocation policies. 5.Evaluate the various Page Replacement Algorithms handled by Operating System. 6.Analyse the Virtual memory and Thrashing concepts. 7.Interpret the mechanisms adopted for File Sharing in Distributed Applications. 8..Demonstrate the basic concepts of operating system
410	COMPUTER ORGANIZATION AND ARCHITECTURE.	1728102	Skill Development	1.Detailed representation about number systems and boolean algebra. 2.Describe the various types of flip flops, registers and circuit system. 3.Analyse the stack organization and identify the addressing modes. 4.Interpret peripheral devices with memory access. 5.Acquire a good knowledge about memory hierarchies and mapping. 6.Gain knowledge about Virtual memory and data manipulation



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411	DATABASE MANAGEMENT SYSTEMS.	1728103	Employability	<p>1.Describe a database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.</p> <p>2.Design ER-models to represent simple database application scenarios.</p> <p>Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data for current needs.</p> <p>Develop applications using DDL, DML queries.</p> <p>Identifies the Functional dependencies, decompositions, lossless join, and dependency preserving decomposition. Classify the various normalization techniques and improve the database design by applying it.</p> <p>Use the concept of a transaction and design the database using some tools which satisfies the ACID properties when concurrent transaction occurs in a database. Evaluate the sophisticated access protocols to control access to the database.</p> <p>Identifies the suitable File organization methods and access methods and design the database for storing the data.</p> <p>Develop and evaluate a real database application using a database management system.</p>
412	PRINCIPLES OF PROGRAMMING LANGUAGES	1728104	Skill Development,Employability	<p>1.Gain knowledge on programming in different paradigms. Express syntax and semantics in formal notation. Design features of programming languages, and justify their design decisions</p> <p>2.Explain the general concepts of data types, Statements and Expressions and identify the design issues.</p> <p>3.Identify the design issues of Subprograms and Blocks in programming languages</p> <p>4.Compare the concepts of concurrency control and exception handling for various programming Languages.</p> <p>5.Analyze and compare functional programming languages and the scripting languages.</p> <p>6.Analyze a problem, and identify and define the computing requirements appropriate to its solution</p>



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413	LINUX SYSTEM ADMINISTRATION	1728105	Employability	<ol style="list-style-type: none">1. Gain knowledge insights of Linux environment basics2. Operate running Linux systems by managing the file system mounts and monitoring, concepts related to user and groups3. Configure Linux packages and kernel and backup management using bacula4. Acquire knowledge on shell commands, scripts, managing files, pipes and redirections. Choose appropriate Linux commands to make effective use of the environment to solve problems5. Configure and manage simple TCP/IP network services, file system and web hosting on a Linux system6. Effectively use the Linux system to accomplish typical personal, office, technical, and software development task
414	DATA STRUCTURES AND ALGORITHMS	1728208	Employability	<ol style="list-style-type: none">1. Define data structures like array, stack, queues and linked list.2. Explain insertion, deletion and traversing operations on data structures.3. Identify the asymptotic notations to find the complexity of an algorithm.4. Compare various searching and sorting techniques.5. Choose appropriate data structure while designing the algorithms.6. Design advanced data structures using nonlinear data structures.



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415	COMPUTER NETWORKS	1728209	Employability	<ol style="list-style-type: none">1. Gain a basic knowledge of Networking and functions of each layer in OSI and TCP/IP model. Demonstrate the network topology.2. Diagnose the problems of a Current Multiplexing Techniques.3. Classify the various multiple access protocols and identify the deficiencies in existing protocols, and then go onto formulate new and better protocols.4. Apply the mathematical background of routing protocols. Analyze the collision occurred in current networks.5. Classify the classes of IP protocols and select the IP addresses for the given network.6. Describe the issues surrounding in Session layer and Transport layer and identify how to rectify. <p>Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies.</p>
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416	MICROPROCESSOR AND MICROCONTROLLER	1728210	Employability	<ol style="list-style-type: none">1. Recognize 8086 microprocessor simulator, knowledge of 8086 instruction set and ability to utilize it in assembly language programming.2. Importance of various kinds of Project Management methods, Tracking Software Quality, Quality Standards and Metrics.3. Assess and solve basic binary math operations using the microprocessor and explain the microprocessor's and Microcontroller's internal architecture and its operation within the area of manufacturing and performance.4. Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor and microcontroller.5. Analyze assembly language programs; select appropriate assemble into machine a cross assembler utility of a microprocessor and microcontroller.6. Compare accepted standards and guidelines to select appropriate Microprocessor (8085 & 8086) and Microcontroller to meet specified performance requirements. Design electrical circuitry to the Microprocessor I/O ports in order to interface the processor to external devices. Evaluate assembly language programs and download the machine code that will provide solutions real-world control problems.
417	PROGRAMMING IN PHP	1728211	Employability	<ol style="list-style-type: none">1. Develop the knowledge of Hardware and Software requirements, Installation of PHP, data types, different types of operators and Control Structures in PHP.2. Implementation of arrays, Looping Structures, Functions in PHP.3. Learn the concepts of File System. Working with Forms and Implementation of Regular Expressions in Forms.4. Gain the Knowledge of OOPS concept.5. Implementation of Database Connectivity using MYSQL and Learn the concepts of Cookies.6. Implementation of Session and AJAX



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418	OBJECT ORIENTED SOFTWARE ENGINEERING	1728212	Employability	<ol style="list-style-type: none">1.Knows the reason about the basic Software life cycle models Importance of various kinds of Project Management methods, Tracking Software Quality, Quality Standards and Metrics.2.Develop System Concepts for Object Modelling Design and implement a software design concept to meet desired needs and Requirements.3.Design the UML concepts like sequential, Use cases and Activity diagram Concepts of Use cases, actors, and common modelling techniques.4.Implementing the concept use cases, business actors, Significance of identifying the subsystems and business requirements5.Explain Design Workflow and System Design Concept Create Mapping Object Model to Database Schema Testing and verification process Creation.6.Usage of Software Configuration Management Definition and Types of maintenance Life Build Reverse and re-engineering process.
419	ENTERPRISE COMPUTING	1628315	Skill Development,Employability	<ol style="list-style-type: none">1.Understand various concepts of Enterprise Computing, analyze and implement the RMI Architecture for the necessary applications.2.Implement Session management using Servlet and implement JDBC for the database connectivity.3.Develop Web applications using JSP and JSP error pages.4.Design an application that sends and receives email with attachments.5.Implement Database connectivity through Hibernate Framework and also build web applications using Spring MVC.6.Study and use modern tools for rapidly building enterprise applications.



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420	DATA WAREHOUSING AND DATA MINING	1628317	Skill Development,Employability	<ol style="list-style-type: none">1.To appreciate the basic principles, concepts and applications of data warehousing and data mining2.Have a good knowledge of the preprocessing techniques3.To perform Data Mining using association rules4.To get insights from data using classification and prediction techniques5.Knowledge of clustering techniques and outliers6.To be able to apply data mining techniques to real world data by cleaning the data, integrating the data from different sources, predicting a model to group the data tuples into classes, discovering patterns using association rule mining and grouping the data set into clusters.
421	SOFTWARE TESTING	1628318	Employability	<ol style="list-style-type: none">1.Discuss about the concept of bugs and analyses the principles in software testing to prevent and remove bugs.2.Discuss about domains and path3.Analyze Linguistic and Structural Metric4.Discuss about Verification and Validation. Analyse various levels of Testing, Testing Approaches, and Types of Testing & Test Plan. Analyse Defect Management5.Discuss about Acceptance testing and special test.6.Analyze various automation testing tools. Gain the knowledge about various testing tools.
422	CRYPTOGRAPHY	1628319	Skill Development,Employability	<ol style="list-style-type: none">1.Gain knowledge about Conventional encryption model2.Analyse Euclidean Algorithm and Number theory3.Understanding Key exchanges.4.Detailed representation of Hashing functions.5.Describe the various Digital signatures logic.6.Apply different encryption and decryption techniques
M.C.A.(SHIFT - I) - 29				
423	Programming in Java	1729101	Employability, Skill Development	Illustrate and implement the concepts of Packages, Interfaces, Threads and Exception Handling in Java. Apply Networking concepts for establishing connectivity among applications with reduced code complexity and develop network applications



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424	Computer Organization and Architecture	1729102	Employability, Skill Development	Design basic electronic Circuits(combinational circuits), Learn the concepts of parallel processing, pipelining and inter processor communication Summarize the architecture and functionality of central processing unit.
425	Management Information System	1729103	Employability, Skill Development	Interpret and recommend Electronic Commerce Fundamentals and Applications.Apply a framework and process for aligning organization's IT objectives with business strategy.
426	Operating System	1729104	Skill Development	Acquire the knowledge of process synchronization and illustrate the critical section problems and ways to handle the dead lock problems with the help of algorithms.
427	NME I: Statistical Methods	1729105	Employability, Skill Development	Distinguish Discrete and continuous distributions. Solve the real time problems involving various distributions like Binomial, Poisson and normal distributions.
428	Microprocessors and its Applications	1729209	Employability, Skill Development	Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor and microcontroller.
429	Data Structures and Algorithms	1729110	Employability, Skill Development	Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor and microcontroller.
430	Object oriented Analysis and Design	1729211	Employability, Skill Development	Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor and microcontroller.
431	Advanced JAVA	1729212	Employability	Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor and microcontroller.
432	NME II: Optimization Techniques	1729213	Employability, Skill Development	An ability to design and conduct experiments, as well as to analyze and interpret data.The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
433	Database Management System	1629317	Skill Development	Analyze the concepts about data storage on disks and Files, RAID management, file organizations and application of Indexing to improve performance while searching using Tree structured indexing and Hash Based indexing.
434	Programming in PHP	1629318	Employability, Skill Development	Understand the use of PHP with HTML. Develop Database connectivity using MySQL. Acquire the knowledge about the features for MySQL and its types.
435	Accounting and Financial Management	1620315	Employability, Skill Development	Prepare ledger accounts using double entry bookkeeping and record journal entries accordingly.Explain the purpose of double entry system to understanding the accounting system properly.



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436	Python for Scientific Computing	1629319	Employability	Prepare ledger accounts using double entry bookkeeping and record journal entries accordingly. Explain the purpose of double entry system to understanding the accounting system properly.
437	Digital Image Processing	1629320	Employability, Skill Development	Prepare ledger accounts using double entry bookkeeping and record journal entries accordingly. Explain the purpose of double entry system to understanding the accounting system properly.
438	Data warehousing and Data Mining	1629424	Employability, Skill Development	Have a good knowledge of the preprocessing techniques. To get insights from data using classification and prediction techniques,
439	Computer networks and Mobile Computing	1629425	Employability, Skill Development	Determine and explain Data Communications System and its components. Identify the different types of network topologies and protocols.
440	Organizational Behaviour	1629426	Employability, Skill Development	To analyze and compare different models used to explain individual behaviour related to motivation and rewards
441	Android Programming	1629427	Employability	Illustrate the use of activities, fragments and intents in Android to invoke Built-in Applications and use of notification in Android.
442	Software Project Management	1629428	Employability, Skill Development	Identify the different project contexts and suggest an appropriate management strategy. Determine an appropriate project management approach through
443	Big Data Analytics	1529532	Employability, Skill Development	Knows the reason about the evolution of data science and its development. Study the basic of big data analytics and to develop the code. Importance of various kinds of data comparing the other language.
444	Artificial Neural Networks	1529533	Employability, Skill Development	Develop different single layer/multiple layer Perception learning algorithms. Apply Networking concepts for establishing connectivity among applications with reduced code complexity
445	Cloud Computing	1529534	Employability, Skill Development	Analyse the core concepts of the cloud computing paradigm: how and why this paradigm shift came, the characteristics, advantages and challenges brought about by the various models and services in cloud computing.
446	Introduction to Computer Forensics and Bioinforma	1529535	Employability, Skill Development	Demonstrate competency in the principles of crime scene investigation, including the recognition, collection, identification, preservation, and documentation of physical evidence. Classify and apply the acquisition tools
447	Internet of Things	1529536	Employability, Skill Development	Interpret the vision of IoT from a global context. Illustrate the application of IoT in Industrial Automation and identify Real World Design Constraints.
MBA -30				



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449	MANAGEMENT PROCESS AND ORGANIZATIONAL BEHAVIOUR	1730101	Employability, Skill Development	CO1 Apply the Principles of Management and effective Decision making and critical thinking and strategy formulation. CO2 Demonstrate the applicability of the concept of OB to analyze the behavior of people in the Organization. CO3 Analyze Individual Behavior, Job Satisfaction and the importance of Motivation. CO4 Exposure on Group Behavior and the need of Leadership and to handle stress CO5 Evaluate Organization needs, structure and its effectiveness
450	STATISTICS FOR MANAGEMENT	1730102	Employability	CO1 Recall and solving problems based on the addition theorem, multiplication theorem, conditional probability and Baye's theorem. Restate the Discrete distributions such as Binomial and Poisson distribution. CO2 Differentiate the univariate and bivariate analysis. Explain correlation, rank correlation and regression analysis by numerical example CO3 Summarize the concept of sampling, Null Hypothesis, alternative Hypothesis, type I and type II errors, sampling errors and standard errors. CO4 Distinguish between small samples and large samples. Summarize the concept of parametric test z-test, t-test, F-test and non parametric test chi-square test by given examples. CO5 Demonstrate the analysis of variance of one way classification and two way classification with numerical examples
451	ECONOMICS FOR MANAGERS	1730103	Employability, Entrepreneurship	CO1 Analyse Market demand and supply patterns through forecasting techniques. CO2 Evaluate National Income using techniques and underlying policies. CO3 Compare market structures and different pricing methods. CO4 Analyse and evaluate demand pattern using Date software. CO5 Identify the consequence of globalization and role of Banks in International Trade.
452	ACCOUNTING FOR MANAGERS	1730104	Employability, Entrepreneurship	CO1 Apply the conceptual framework of accounting, and apply the comprehensive treatment of accounting principles and standards. CO2 Analyze the financial concepts and interpret the Financial statements CO3 Analyze and Evaluate financial data of Company. CO4 Apply the cost principles for production of products. CO5 Apply Analytical techniques to generate financial statements through technology application.
453	LEGAL SYSTEMS IN BUSINESS	1730105	Employability, Entrepreneurship, Skill Development	CO1 Examine the relevance of business law to individuals and businesses and the role of law in an economic, political and social context CO2 Identify the legal principles governing contractual agreements. CO3 Apply the principles of company law in Incorporation process. CO4 Implement appropriate laws in IR. CO5 Analyze and evaluate Consumer Protection Laws.



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454	MARKETING MANAGEMENT	1730106	Employability, Entrepreneurship	CO1 Formulate a marketing plan including marketing objectives, marketing mix, statistics and evaluate competition CO2 Identify and demonstrate the dynamic nature of the environment in which marketing decisions are taken. Formulate marketing plan including marketing objectives, marketing mix, strategies, and budgetary considerations. CO3 Determine strategies for developing new products and services relevant to evolving market needs and develop pricing policies CO4 Develop plans for efficient distribution CO5 Establish the usage of social media, internet to explore new markets.
455	ENTREPRENEURSHIP	1730107	Entrepreneurship	CO1 Imbibe entrepreneurial concept and models, and Develop skill CO2 Differentiate entrepreneurs and Entrepreneurs skill CO3 Establish records for small business, relating to legal aspects and other functional management practices CO4 Mobilize resources for ED in an Optimum way CO5 Identify and Utilize the support eco-system for managing the business and start a New Business Model.
456	HUMAN RESOURCE MANAGEMENT	1730208	Employability, Skill Development	CO1 Evaluate the HR Environment and develop HR policies with IR factors and solve HR Problems CO2 Analyze the dynamics in HR environment and contribute to development, implementation and evaluation of Employee recruitment, selection and retention plans and process CO3 Develop relevant skills necessary for application in HR related issues CO4 Develop, implement and evaluate employee orientation, training and development process CO5 Facilitate and support effective employee and labor relations
457	RESOURCE MANAGEMENT TECHNIQUES	1730209	Employability	CO1 Formulate the Linear programming problem and solve by graphical method, simplex method, Big Method. CO2 Define transportation and assignment problem. Demonstrate the balanced, unbalanced, maximization and minimization assignment problems with illustration. Differentiate Transportation problem and assignment problem CO3 Recall the concept of Critical Path Method and Programme Evaluation Review Technique. Solving real time problems using critical path method and Programme evaluation technique CO4 Explain the queuing theory concept. List the out the models of queuing theory and discuss with numerical examples. CO5 Restate the concept of sequencing problem in Business. Distinguish between n jobs two machines, n jobs three machines, n jobs m machines and 2 jobs n machines by giving examples and illustrate.



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458	OPERATIONS MANAGEMENT	1730210	Employability	CO1 Identify the elements of operations management and various transformation process to enhance productivity and competitiveness CO2 Analyze and evaluate various facility alternatives and their capacity decisions, develop a PPC,MPS, scheduling and sequencing techniques CO3 Manage the scope, cost, timing and quality of the project and focus on suitable quality control methods CO4 Plan and implement suitable inventory/material handling principles and practices CO5 Utilize and Implement systems integrated managerial functions
459	FINANCIAL MANAGEMENT	1730211	Employability, Skill Development	CO1 Enables knowledge on Strategic Financial Policy and Planning and various Financial Models involved in it. Importance of Capital Budgeting in Finance. CO2 Evaluate the Investment Decision and to enrich their knowledge on Risk, Uncertainty and Time value of Money. CO3 Analyze the role of Capital Structure and Restructuring CO4 Plan and Implement the required Working Capital and Cash Management CO5 Explore on Securities and Commercial Paper
460	RESEARCH METHODOLOGY	1730212	Employability	CO1 Analyze the impact of research in business and evaluate research problems and develop hypothesis CO2 Apply the appropriate research design and construct a measurement scale. CO3 Develop a valid instrument/Questionnaire for data collection using sampling technique CO4 Apply the SPSS for data analysis CO5 Apply SPSS for data analysis and develop a report using APA format
461	MANAGEMENT INFORMATION SYSTEMS	1730213	Employability, Skill Development	CO1 Develop leadership qualities through Management Information system in achieving business competitive advantage through informed decision making. CO2 Develop logical models for the information systems based on stated user requirement. CO3 Select and apply appropriate programming structure and techniques based on specific problem context. CO4 Modify implementation plan appropriately in response to unexpected requirement or environmental change. CO5 Perform common business transaction as an end user in an ERP system.
462	INTERNATIONAL BUSINESS MANAGEMENT	1730214	Employability, Entrepreneurship	CO1 Recognize challenges and opportunities for Foreign Trade markets CO2 Critically analyze the procedures in Exports and Imports CO3 Explore strategies and analyze the impact of Global strategies in International Business CO4 Apply the concept of globalisation techniques to support problems in MNC management CO5 Evaluate the impact of statutory and regulatory compliances on an organizations integrative trade initiatives



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463	STRATEGIC MANAGEMENT	1630315	Employability, Skill Development	CO1 Evaluate the strategies implemented by organizations and to analyze the mission, vision and their objectives CO2 Analyse micro and macro environmental issues CO3 Identify strategic capabilities and gap and resolve them by applying suitable strategies CO4 Apply control techniques/audit performance of strategy implemented CO5 Analyze the issues faced by the organization
464	TOTAL QUALITY MANAGEMENT	1630316	Employability, Entrepreneurship	CO1 Relate Philosophies of Quality Management with organization performance CO2 Demonstrate tools and techniques of Quality Management and Implementation CO3 Analyze the various types of techniques are used to measure quality and create customer satisfaction CO4 Use quality management methods analyzing and solving problems of organization; CO5 Critically appraise the organizational, communication and teamwork requirements for effective quality management
465	INVESTMENT MANAGEMENT	1630317	Employability, Entrepreneurship, Skill Development	CO1 Analyze the investment securities and settings CO2 Appraise about capital market and SEBI CO3 Evaluate about Economy Analysis and Industry life cycle CO4 Create Fundamental analysis and Technical analysis for their investment CO5 Analyze the Portfolio theory and the mutual funds benefits and impact.
466	INTERNATIONAL FINANCIAL MANAGEMENT	FIN-302	Employability, Entrepreneurship, Skill Development	CO1 Compare Finance Functions nationally and Internationally and also to Analyze the International Monetary System CO2 Evaluate Foreign Exchange Market and FOREX CO3 Design International Long Term Finance by Analyzing various Banks both Nationally and Internationally CO4 Distinguish cross border Financing Decision and also about Working Capital Management CO5 Analyze the International Taxation and International Accounting
467	MERCHANT BANKING AND FINANCIAL SERVICES	1630318	Employability, Entrepreneurship	CO1 Analyses various Financial Services and Products available in the market. CO2 Evaluate about the Functions and Role of Merchant Banker CO3 Appraise their credentials for credit Rating and also about Mergers and Acquisitions CO4 Analyse the concept of Factoring, Financing and Evaluation. CO5 Evaluate about Consumer credit and Venture Capital



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468	SERVICES MARKETING	1630319	Employability, Entrepreneurship	CO1 Interpret the growth of service economy and design service quality measurements to build customer loyalty. CO2 Demonstrate a knowledge of the extended marketing mix for services. CO3 Create service blueprinting and adopt positioning strategies for better service. CO4 Recognize the challenges faced in services delivery as outlined in the services gapmodel. CO5 Identify and formulate Marketing strategies for different service sectors.
469	INTEGRATED MARKETING COMMUNICATION	1630428	Employability, Entrepreneurship	CO1 Demonstrate a comprehensive understanding of Marketing Communications theories and concepts. Understand primary marketing communication models the marketer's use. CO2 Develop suitable promotional objective and strategy for the Marketing campaign. CO3 Describe a range of Advertising media and methods available to marketers. Analyse and evaluate the cost effectiveness of various forms of media. CO4 Formulate appropriate promotional tool for a product or service. CO5 Conceive the issues of the Promotional activities.
470	E- MARKETING	MKT-303	Employability	CO1 Apply the principles of E marketing in context- convergence, strategic E marketing, for effective marketing in domestic market. CO2 Apply all Political, legal and regulatory compliances while marketing indifferent countries. CO3 Develop skills in researching and analyzing trends in Global markets and in modern marketing places overall strategies CO4 Apply the principles of Marketing mix for effective campaign. CO5 Assess an organization's ability to enter and compete in international markets.



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471	INTEGRATED SUPPLY CHAIN MANAGEMENT	1630323	Employability	<p>CO1 RecollecttheimplicationsofSCM,networkdesigndecisionsandmodelsa ndscheming distribution network in supply chainmanagement CO2 Assessthesourcingdecisionsinsupplychainboonsandbanesof3PL/4PLa ndvarious types of RSP. CO3 Understandthetoolsandtechniquesusefulinimplementingsupplychain management CO4 Analyzeandappraisingtheperformanceofsupplychaintocontroliteffecti vely. CO5 Understandthekeyconceptsandtechniques thatwillallowyoutoanalyze, manageand improve supply chain processes for different industries and markets.</p>
472	PURCHASING MANAGEMENT	1630324	Employability ,Skill Develpoment	<p>CO1 Learn to analyze and develop a company's purchasing processes and organization CO2 Understand the companies' purchasing decisions and to compare Local, Nation wide and World wide suppliers CO3 Understand the role of purchasing in successful cooperation between companies CO4 Design purchasing profit centric models and perform cost analysis CO5 Know the best practices in Negotiations, ethics in purchasing and code of conduct for suppliers</p>
473	STRATEGIC HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT	1630429	Employability	<p>CO1 Analyse the HR Framework in an organization and assess the HRD needs CO2 Apply digital techniques for HR functions like Recruitment and selection CO3 Identify the consequences of cultural diversity issues CO4 Design and optimize career development/planning CO5 Implement best practices of skill development to employees</p>



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474	LABOUR LEGISLATIONS	1630321	Employability	<p>CO1 To review the perspectives, theories and concepts in the field of labor and employment relations</p> <p>CO2 To interpret the salient features of welfare and wage Legislations</p> <p>CO3 To inspect the laws relating to Industrial Relations, Social Security and Working conditions and working conditions in different settings.</p> <p>CO4 To execute labor law and individual employment rights</p> <p>CO5 To assess the developments and changes that have taken place in the field of labour law from time to time</p>
475	BIG DATA TECHNOLOGY	SYS-301	Employability	<p>CO1 Workwithbigdatapatformandexplorethebigdataanalyticstechniquesbusiness applications.</p> <p>CO2 Applythefundamentalsofvariousbigdataanalyticstechniques.</p> <p>CO3 AnalyzetheHADOOPandMapReducetechnologiesassociatedwithbig data analytics.</p> <p>CO4 Design efficient algorithms for mining the data from large volumes</p> <p>CO5 Differentiate various big data technologies like Hadoop , Pig, Hive, Hbase and No-SQL</p>
476	DATA MINING AND WAREHOUSING	SYS-302	Employability, Entrepreneurship	<p>CO1 Analze the basic concepts of data warehousing and the required skills to develop and use them.</p> <p>CO2 Apply the methods and techniques for preprocessing of data.</p> <p>CO3 Describe the designing of Data Warehousing to solve the root problems.</p> <p>CO4 Explain different methodologies used in data mining and data ware housing</p> <p>CO5 Compare differentapproaches of data ware housing and data mining with various</p> <p>Analze the basic concepts of data warehousing and the required skills to develop and technologies.</p>



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477	CLOUD COMPUTING	SYS-303	Employability, Entrepreneurship	<p>CO1 Describe the key technologies, architecture, strengths, limitations and applications of cloud computing and explain the types and service models of cloud.</p> <p>CO2 Deploy application over commercial cloud computing infrastructure such as Amazon Web Services, Windows Azure, and Google AppEngine.</p> <p>CO3 Communicate through cloud for the management and improvement of business or an organisation.</p> <p>CO4 Understand different CPU, memory and I/O virtualization techniques that serve in offering software, computation and storage services on the cloud</p> <p>CO5 Describe the core issues such as security, privacy, and interoperability in cloud platform.</p>
478	FINANCIAL DERIVATIVES	1630425	Employability, Skill Development	<p>CO1 Analyse the various types of derivatives and its types</p> <p>CO2 Evaluate the value of forward contracts, hedging and limitations</p> <p>CO3 Appraise about Future contracts and its nature</p> <p>CO4 Critically examine the options and its values and strategies</p> <p>CO5 Develop knowledge on Swaps its principle and valuation and construct a swap model</p>
479	RISK MANAGEMENT AND INSURANCE	1630426	Employability	<p>CO1 Analyze the various types of risk and also to measure risk.</p> <p>CO2 Evaluate the value of Risk, its avoidance, retention, diversifying and Controlling.</p> <p>CO3 Apply Risk Management tools and Hedging. It also gives exposure to Forward and Future Contracts</p> <p>CO4 Evaluate an exposure on Insurance sector and IRDA</p> <p>CO5 Evaluate on Insurance Policies, its process of claim, Foreign Insures in India and Bank Assurance</p>



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480	CORPORATE TAXATION	FIN-403	Employability, Entrepreneurship	<p>CO1 Evaluate Income Tax and accounting and Income exempted from Tax</p> <p>CO2 Formulate head of income and about salaries and house property</p> <p>CO3 Compare Profits and Gains of business and profession, Capital gains and income from other sources</p> <p>CO4 Appraise Set off and carry forward of losses, assessment of individual & firms and deductions</p> <p>CO5 Formulate Assessment procedures, Tax planning, PAN, Filing of returns and IT authorities</p>
481	SALES AND DISTRIBUTION MANAGEMENT	1630320	Employability, Entrepreneurship, Skill Development	<p>CO1 Apply the concept of sales and demonstrate the roles and responsibilities of sales person as a KEY individual to achieve the Organization goal. CO2 Describe and Formulate strategies to effectively manage company's sales operations. CO3 Illustrate the fundamentals of Distribution channels and channel members. CO4 Identify the Channel intermediary and apply new strategies to pitch new market. CO5 Perceive digital tools to enhance logistics management.</p>
482	RETAIL MANAGEMENT	160428	Employability, Entrepreneurship	<p>CO1 Discuss the concept of retailing, its evolution in Global retailing, and India's trend in Retailing. Importance of retail in the distribution component of the marketing mix. CO2 Conceive the complexity of retail channels (store and non-store) used as alternative routes to market, and evaluate the merits of alternative strategies for different types of retail business. CO3 Interpret and implement effective retail strategies for better Store Management. CO4 Apply the core Marketing strategies for effective Retail Shop Management. CO5 Apprehend emerging trends in Retailing and correlate the factors influencing Retail shopper's behavior.</p>
483	CUSTOMER RELATIONSHIP MANAGEMENT	MKT-403	Employability, Entrepreneurship	<p>To provide an understanding of CRM and the tools and techniques to build CRM in organizations</p>



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484	SOCIAL MEDIA MARKETING	MKT-404	Entrepreneurship	<p>CO1 Develop effective social media marketing strategies for various types of industries and businesses. CO2 Apply all Political, legal and regulatory compliances while marketing in different countries. CO3 Describe the major social media marketing portals that can be used to promote a company, brand, product, service or person. CO4 To work cooperatively within social media community by observing and listening critically with openness, then act ethically and follow through on commitments when communicating with various audience and build positive reputation within the community. CO5 Develop social media marketing plan and track progress in achieving goals with a variety of measurement tools, services, and metrics.</p>
485	INTERNATIONAL LOGISTICS AND MANAGEMENT OF GLOBAL SUPPLY CHAIN	1630431	Employability, Entrepreneurship	<p>CO1 Analyse the global movement of goods and compare the size of Industry with different Industries. CO2 Evaluate the low cost sourcing from different countries and their challenges faced. CO3 Implement Green supply chain movement of goods. CO4 Design Global network to achieve Seamless performance across the market. CO5 Design Supply chain mapping for the process.</p>
486	TRANSPORTATION AND WAREHOUSING MANAGEMENT	1630432	Employability	<p>CO1 Apply the flow of goods, Ordering rules and Information transmission methods. CO2 Evaluate the different types of transportation and Insurance procedure to ship the goods. CO3 Plan Warehouse and Logistics operations for optimum utilization of resources. Learn more about technology enabled fulfillment centers. CO4 Analyze and Interpret different types of Machinery used to process material and for stock storage and revival. CO5 Apprehend different Transportation and Warehousing Management Systems and its usage in Shipment of goods.</p>



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487	KNOWLEDGE MANAGEMENT	HR-401	Employability	<p>CO1 Analyze the different knowledge types and explain how they are addressed by knowledge management</p> <p>CO2 Examine how valuable individual, group and organizational knowledge is managed throughout the knowledge management cycle</p> <p>CO3 Interpret the major roles and responsibilities in knowledge management implementations</p> <p>CO4 Identify some of the key tools and techniques used in knowledge management applications.</p> <p>CO5 Formulate and empower employees to solve customer problems in organizations</p>
488	TRAINING AND HUMAN PERFORMANCE ENHANCEMENT	1630322	Employability, Skill Development	<p>CO1 Discuss various aspects of the training design process and describe the strategic training and development process.</p> <p>CO2 Identify different methods used in needs assessment and discuss the role of organizational analysis, individual analysis and task analysis in needs assessment.</p> <p>CO3 Discuss the strength and weakness of traditional training methods and the new technology training methods</p> <p>CO4 Design a program for preparing for cross cultural assignments and able to discuss the potential legal issues that relate to training</p> <p>CO5 Effectively perform the manager's role in career management and design an effective socialization program for employees</p>



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489	LEADERSHIP AND ORGANISATIONAL EFFECTIVENESS	1630430	Employability, Skill Development	<p>CO1 Interpret the importance of Leader with the theories applied, grid and models.</p> <p>CO2 Analyze the complexities associated with management of the group behavior in the organization.</p> <p>CO3 Develop own strategies for team leadership and influence them</p> <p>CO4 Examine relevant issues in applied management and leadership; including ethics, globalization, and strategic management.</p> <p>CO5 Generate ideas Managerial Effectiveness through group influences, negotiation skills and knowledge Management.</p>
490	E – COMMERCE TECHNOLOGY AND MANAGEMENT	SYS-401	Employability, Entrepreneurship	<p>CO1 Identify and describe the unique features of e-commerce technology and discuss their business significance</p> <p>CO2 Discuss the influence of electronic retailing, marketing and advertising on Business.</p> <p>CO3 Describe the business models and recognize business models in other emerging areas of e-commerce</p> <p>CO4 Identify the key security threats in business environment and understand the major e- commerce payment mechanism.</p> <p>CO5 Appreciate the importance of policies , procedures and laws in creating security.</p>
491	EMERGING TECHNOLOGIES FOR MANAGEMENT	SYS-402	Employability, Entrepreneurship	<p>CO1 Explain the basic concepts of mobile computing, mobile security mobile OS and mobile database</p> <p>CO2 Describe the wireless architecture, tis benefits, applications and limitations.</p> <p>CO3 Discuss the WAP architecture , development tools and software and apply them in business management.</p> <p>CO4 Identify and analyse the environmental impact of the Information and Communication Technology and current mechanisms to reduce the energy consumption of ICT products</p> <p>CO5 Discuss the privacy risk and security management in the cloud.</p>



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492	ENTERPRISE RESOURCE PLANNING	SYS-403	Employability, Entrepreneurship	<p>CO1 Describe the fundamental technology, issues in planning design and the implementation of ERP systems.</p> <p>CO2 Analyse the business process and able to redesign and restructure the organization.</p> <p>CO3 Discuss the role of customers, vendors and employees, the key issues, the implementation methodology and the guidelines for the ERP implementation.</p> <p>CO4 Explain the post implementation phase, success, failures and costs and risks of failure in ERP implementation.</p> <p>CO5 Explore the emerging trends in ERP.</p>
M.A. Economics (Day) -31				
493	MICRO ECONOMIC THEORY - I	1731101	Employability	The student will be able to understand and apply the basic concepts of economics and obtain employment .
494	STATISTICAL METHODS - I	1731102	Skill Development	The student would obtain skills in methods of data collection and tabulation
495	RESEARCH METHODOLOGY	1731103	Employability	The student will understand the methods of processing and application of software techniques and enhance his employment opportunities.
496	HEALTH ECONOMICS	1731104	Employability	The student will be able to apply cost benefit analysis to various health issues and obtain employment.
497	ORGANISATION & BEHAVIOURAL ECONOMICS	1731105	Employability	The student will understand the role of individuals in the functioning of an organization ,its culture and design which would improve his employment potential.
498	MICRO ECONOMIC THEORY - II	1731206	Employability	The student would understand the functioning of the different market structures and apply them in real business situation for profit maximization.
499	STATISTICAL METHODS - II	1731207	Skill Development	The student would develop skill sets in selecting sample and forecasting through Time series analysis.
500	<u>INDIAN ECONOMIC DEVELOPMENT & POLICY</u>	1731209	Employability	The student will be able to understand the process of licensing and obtain employment in the industrial sector.
501	MONETARY ECONOMICS	1731208	Employability	The student will be able to understand the way money is measured which will help him in getting employed in the banking sector.
502	MANAGERIAL ECONOMICS	1731210	Skill Development	The student will strengthen his skills in assessing project profitability and determining advertising budget. The knowledge of capilt budgeting will help him in starting a new venture



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503	MACRO ECONOMIC THEORY - I	1631311	Employability	The student will get to understand and apply the basic economic concepts which will help him in getting employment.
504	PUBLIC ECONOMICS - I	1631312	Skill Development	The student will acquire skill set in doing a cost benefit analysis of public expenditure.
505	INTERNATIONAL ECONOMICS - I	1631313	Employability	The student will understand and apply the basic economic theories which will provide him employment opportunities.
506	FINANCIAL MARKETS & SERVICES - I	1631314	Employability	The student will be able to obtain employment in stock exchanges .
507	ENTREPRENURIAL DEVELOPMENT	1631315	Entrepreneurship	The student will be able to understand the steps involved in starting a new business venture.
508	MACRO ECONOMIC THEORY - II	1631416	Employability	The student would be able to understand and apply the basic macro economic concepts which would help him get employment in high schools.
509	PUBLIC ECONOMICS - II	1631417	Employability	The student will understand the various types of taxes,its features and be able to get employment with tax consultants
510	FINANCIAL MARKETS AND SERVICES - II	1631419	Employability	The student will be able to understand and apply the process of underwriting,factoring and leasing which will increase his employment opportunities.
511	HUMAN RESOURCE MANAGEMENT	1631420	Employability	The student will be able to understand the methods of recruitment,selection and motivation which will give him employment in the HR department.
M.A. Social Work - 33				
512	SOCIAL WORK PROFESSION	1733101	Employability, Skill Development	· Acquire the knowledge on history of Social Work in India and abroad
513	METHODS OF SOCIAL WORK	1733012	Employability, Entrepreneurship, Skill Development	To enable the student to practice Social Case work,group work in different settings
514	SOCIAL POLICY AND SOCIAL LEGISLATION	1733103	Employability, Skill Development	Understand the legal framework and protective services for the vulnerable groups in the society
515	HUMAN BEHAVIOUR	1733104	Employability, Skill Development	To understand the magnitude and impact of Social Problems
516	SOCIAL WORK RESEARCH	1733206	Entrepreneurship, Skill Development	Develop competence in conceptualizing, designing and implementing research using both quantitative and qualitative methods
517	WELFARE ADMINISTRATION	1733207	Employability, Entrepreneurship, Skill Development	Acquire skill on the establishment of non profit organisation
518	INDUSTRIAL SOCIAL WORK	1733208	Employability, Entrepreneurship, Skill Development	Conceptual learning and practice of Corporate Social Responsibility



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519	ENTREPRENEURSHIP	1733209	Employability, Entrepreneurship, Skill Development	Identify personal attributes that enable best use of entrepreneurial opportunities
520	LABOUR LEGISLATION	1633311	Employability, Skill Development	To equip to handle industrial disputes with detailed knowledge of actual organization scenarios and long-term impact of resolutions of both employees and employer
521	HUMAN RESOURCE MANAGEMENT	1633212	Employability, Entrepreneurship, Skill Development	To learn the sub functions of HRM like Manpower planning, Recruitment, talent management, Learning and development, Compensation management etc
522	WORK PLACE COUNSELING	1633313	Employability, Skill Development	Learn the various theories of Counselling and develop the skill in counselling practice
523	EMPLOYEE RELATIONS MANAGEMENT	1633314	Employability, Skill Development	· Able to summarise the welfare and social security provisions in labour legislation
524	HUMAN RESOURCE DEVELOPMENT	1633416	Employability, Entrepreneurship, Skill Development	· To build an understanding and perspective of Human Resource Development as discipline appreciating learning
525	ORGANISATIONAL BEHAVIOUR & ORGANISATIONAL DEVELOPMENT	1633417	Employability, Entrepreneurship, Skill Development	· To enable the students to perceive and develop the attitude required for the successful application of Personal management and organizational behavior
M.A. HRM -34				
526	MANAGERIAL CONCEPT AND BUSINESS ETHICS	1734101	Employability, Skill Development	Apply the concepts in a business setting to sustain in the ever changing market scenario and also to enable them to start a new venture thereby promoting self reliance and critical thinking too assess the prevalence and relevance of these concepts.
527	EMPLOYEE RELATIONS AND EMPLOYEE WELFARE	1734102	Employability, Skill Development	Apply the concept learnt in the course in an organizational setting especially at times of organizational change and also to position oneself as an effective human relations Manager capable of bringing in a paradigm shift in the employee engagement and motivation.
528	HUMAN BEHAVIOUR	1734103	Employability, Skill Development	Acquire the skills to assess the behavior of an employee when under the auspices of an organization and to effectively communicate , delegate and extract profitable amount of productivity by enhancing one's own competency
529	LABOUR LEGISLATIONS	1734104	Employability, Skill Development	Apply the provisions of the Acts pertaining to labour welfare and its implementation in an organization and to enhance the capability to track and make the company to adhere to rules and regulations and be informed with due process involved in adherence



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530	LEARNING AND DEVELOPMENT	1734206	Employability, Skill Development	Enhance the training effectiveness and thereby promote productivity and performance of an employee in an organization and also to acquire the skill for the students to prepare training need analysis and also designing and customizing training module and content
531	INDUSTRIAL RELATIONS	1734207	Employability, Skill Development	Examine the theories of collective bargaining and its functionality in India and also to investigate the various approaches of Industrial relations in the context of present day market scenario and `carve out a method for effective maintenance of Industrial relations.
532	ORGANISATIONAL BEHAVIOUR	1734208	Employability, Skill Development	Acquire the skills to assess the behavioural patterns of employees in an organization and to apply the theories of leadership such as contingency theories to effectively administer the organization and to extract performance and develop positive reinforcement and competency.
533	PERFORMANCE MANAGEMENT SYSTEM	1734209	Employability, Skill Development	Learn the intricacies involved in Performance Management of an employee, the biases involved and also apply the concept learnt to process and apprise the performance of an employee without ambiguity in terms of psychological and social divisions and thus ensure fairness and transparency in the process.
534	CORPORATE SOCIAL RESPONSIBILITY	1734210	Employability, Skill Development	Sketch and construct the CSR Policy in an Organisation that is already established or in a new venture and thereby enhance oneself in terms of competency and employability. Investigate the process and the principles followed in Social auditing and also the standardization process to be equipped with.
535	ORGANIZATIONAL COUNSELING	1734211	Employability, Skill Development	Execute the role of a counselor in order to make the employees move out of mental blocks and to enhance the productivity. Practice diligently the different steps involved in counseling process and customize the same to be implemented in a workplace.
536	ORGANISATIONAL DEVELOPMENT	1634419	Employability, Skill Development	Enhance the competency to be an OD consultant and thereby offer sustainable solutions to many of the sticking problems in the organizations. Acquisition of skills to develop techniques and programs for organizational development and also learn and apply the concepts pertaining to workgroups and teams.
537	STRATEGIC HUMAN RESOURCE MANAGEMENT	1634313	Employability, Skill Development	Enable to strategise the function of HR in an Organisation and also be inclusive in terms of workforce diversity and also be knowledgeable in terms of the functioning of WTO. Enhance one's capability towards employment by getting introduced to online recruitment , Voluntary retirement schemes , mergers and acquisition



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538	INDUSTRIAL LAW	1634315	Employability, Skill Development	Acquire the necessary expertise in terms of the Indian constitution and its associated facets involved and also to acquire the caliber to interpret the laws in terms of its original provisions and its recent amendments and thereby the legal compliance and pursuance of the same is ensured.
539	MANAGERIAL ECONOMICS	1634317	Employability, Skill Development	Possess the skills needed to become a professional economic affair manager by being able to theorise the nature and scope of the subjects concerned. Enhance the employability by gaining mastery of the concepts of equi marginalism, price elasticity and the patterns of industrial growth.
540	COMPENSATION BENEFITS ANALYSIS	1634316	Employability, Skill Development	Enable oneself to gain mastery over the administration of compensation and benefit and acquire the necessary competence with regard to job analysis and payroll management. Investigate also the National wage board policy and its implementation
541	GLOBAL HRM	1634418	Employability, Skill Development	Acquire the knowledge to know about the basic functioning of globalization and the business environment. Enable oneself to start a venture as he or she is exposed to international functioning of business organizations and learn the knitty grities of international compensation.
542	RESEARCH METHODOLOGY	1634312	Employability, Skill Development	Acquire the skill by knowing the meaning and defining the research design. Apply the concept involved in terms of Hypothesis and the principles of sampling. Enable the necessary acumen to quantify a data and also for undertaking a research project or survey,
543	TOTAL QUALITY MANAGEMENT	1634420	Employability, Skill Development	Venture into a new business by initiating TQM techniques. Acquisition of professional competence to function in a quality circle. Learn and apply the concepts involved in terms of zero defect and quality techniques and control measures
544	FUNDAMENTALS OF HUMAN RESOURCE MANAGEMENT	1734105	Employability, Skill Development	Summarize the fundamental concepts, principles, techniques, judgments in supply and demand forecasting in determining manpower planning. Develop, analyze, organize, conduct and evaluate
545	INDUSTRIAL RELATIONS AND EMPLOYEE WELFARE	1734206	Employability, Skill Development	Apply the concept learnt in the course in an organizational setting especially at times of organizational change and also to position oneself as an effective human relations Manager capable of bringing in a paradigm shift in the employee engagement and motivation.
B.Com Honours -35				
546	FINANCIAL ACCOUNTING I	1735111	Employability	Students can able to prepare accounting for sole trading, non profit organization and able to determine the profit for incomplete records & insurance claim



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547	BANKING THEORY LAW & PRACTICE	1735112	Employability	Students can able to critically examine the role of Commercial Banks and Reserve Bank of India & they can also explain the various activities held in banks.
548	MARKETING	1735113	Employability	Students can able to classify the whole market into homogeneous aspects and also able to build strategies for product, pricing, place and physical distribution.
549	BUSINESS ECONOMICS	1735114	Employability	Students can able to analyze various laws such as law of demand, supply, return to scale, variable proportion and market structure.
550	CORPORATE COMMUNICATION	1735115	Employability, Skill Development	Students can able to apply the formal and informal communication in their personal and corporate life
551	FINANCIAL ACCOUNTING II	1735216	Employability, Skill Development	Students can able to prepare accounting for partnership firm, branches & hire purchases
552	PRINCIPLES OF MANAGEMENT	1735217	Employability, Skill Development	Students can able to apply the functions of management such as planning, organizing, control, coordination, motivation, leadership style in the business.
553	SERVICES MARKETING	1735218	Employability	Students can able to build strategies for service organization such as banking, insurance, education & tourism with appropriate mix
554	BUSINESS POLICY AND ENVIRONMENT	1735219	Entrepreneurship	Students can able to build strategies for service organization such as banking, insurance, education & tourism with appropriate mix
555	E-COMMERCE	1735220	Entrepreneurship	Students can able to examine the pros and cons of E-Commerce industry and its significance in present era
556	COMPANY LAW	1635322	Employability, Entrepreneurship	Students can able to explain the legal provisions relating to incorporation, MOA & AOA, meetings and the liquidation of the company.
557	COST ACCOUNTING	1635323	Employability	Students can able to determine the cost for a product and also able to classify the cost on the basis of direct and indirect
558	INSURANCE & RISK MANAGEMENT	1635324	Employability	Students can able to explain the essential elements of insurance, significance of LIC & GIC and can able to identify the risk and know how to manage it
559	CORPORATE ACCOUNTING	1635325	Employability	Students can able to do accounting for companies from its inception to winding up
560	PRACTICAL AUDITING	1635326	Employability, Entrepreneurship	Students can able to demonstrate the process of auditing and able to prepare & maintain various documents while auditing
561	BUSINESS MATHEMATICS	1635313	Employability	Students can able to attain basic knowledge & mathematical skills in set theory, relations, functions & matrices and also enhance the logical & critical thinking and problem solving skills in ratio, proportion, series & different calculus which has real time applications.
562	FINANCIAL SERVICES	1635428	Employability, Entrepreneurship	Students can able to explain the various types of financial services and evaluate the significance of the same



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563	INTERNATIONAL TRADE	1635429	Employability	Students can able to examine the procedures for export and import and also able to demonstrate the significance of international agencies such as IMF, IFC and World Bank.
564	SPECIAL ACCOUNTS	1635430	Employability	Students can able to prepare accounting for special types of business such as banking, insurance, holding & contracts
565	BUSINESS LAW	1635431	Employability	Students can able to explain the essential elements of a valid contract as per Indian Contract Act 1872 and explain the sections under Sale of Goods Act 1930
566	HUMAN RESOURCE MANAGEMENT	1635432	Employability	Students can able to apply the knowledge such as process of recruitment, selection, training & development, performance appraisal in their organization.
567	BUSINESS STATISTICS & O R	1635418	Employability	Students can able to summarize the data numerically & build models according to the data, apply the necessary tools of inference to obtain the requirement, develop linear programming models & solve problems geographically and finding optimal solution in transportation & assignment problems.
568	ACCOUNTING FOR DECISION MAKING	1535534	Employability	Students can able to prepare cash flows statement, funds flow statement and budgeting for an organization and also able to calculate & interpret the financial statement through ratio analysis
569	CORPORATE ETHICS AND GOVERNANCE	1535535	Entrepreneurship	Students can able to demonstrate the significance of ethical practices, social responsibility and governance
570	INCOME TAX THEORY LAW AND PRACTICE	1535536	Employability	Students can able to identify the residential status of an individual and determine the taxable income and value of tax
571	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1535537	Employability	Students can able to explain and analyze the elements of logistics and supply chain management for the business
572	ENTREPRENEURIAL DEVELOPMENT	1535538	Entrepreneurship	Students can able to highlight the qualities of successful entrepreneur and also able to identify the challenges and suggest the solutions for it.
573	RESEARCH METHODOLOGY	1535539	Employability	Students can able to explain the appropriate methodology to conduct a successful research
574	FINANCIAL MANAGEMENT	1535641	Employability	Students can able to manage the finance of an organization effectively and efficiently and also able to take a decision with respect to capital, dividend and investment.
575	BUSINESS TAXATION	1535642	Employability, Skill Development	Students can able to determine the value of excise duty, customs duty, service tax and value added tax
576	ACCOUNTING STANDARDS	1535643	Employability	Students can able to use accounting standards appropriately while maintaining the books of accounts
577	CUSTOMER RELATIONSHIP MANAGEMENT	1535644	Employability	Students can able to explain the significance of customer relationship management practices in a business
578	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	1535645	Employability	Students can able to plan their investment by analyzing various avenues and also know how to manage their portfolio

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B.Sc. Mathematics with Computer Application -36				
579	CLASSICAL ALGEBRA	1736101	Employability	At the end of the course, the Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. Ø Use binomial, exponential and logarithmic series and solve related problems. Ø Know about various methods to find the roots of the polynomial equation Ø Develop the skills of the students in the area of matrices
580	DIFFERENTIAL CALCULUS	1736102	Employability	COURSE OUTCOME: At the end of the course, the Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. Ø To obtain problem solving skills in derivatives in real life application. Ø To identify and solve problems on derivatives in both Cartesian and polar coordinates with application.
581	PROGRAMMING IN C	1736103	Employability / Skill Development	Ø To enhance some knowledge in C Programming, To be familiar with pointers and structures in C Programming.
582	NME I - COMPUTER FUNDAMENTALS	1736103	Employability	At the end of the Course, the Student will be able to acquire the skill to Ø Simplify Boolean expressions and implement them in digital circuits. Ø Learn to design flowcharts and algorithms.
583	TRIGONOMETRY	1736104	Employability	At the end of the course, the Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. Ø Acquire the knowledge of circular and hyperbolic trigonometric functions. Ø Apply various methods to solve problems on summation of series



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584	INTEGRAL CALCULUS	1736208	Employability	At the end of the course, the Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. Ø Use appropriate tools of Integral Calculus in solving applied problems. Ø Understand the application of definite integral.
585	OBJECT ORIENTED PROGRAMMING WITH C++	1736209	Employability/Skill Development	Ø On taking this course the student will be able to familiarize the usage of arrays and strings in C++, enhance the concept of constructors and its types, construct programs in C++, and master file handling techniques in C++
586	NME II - STATISTICAL METHODS	1736211	Employability	At the end of the Course, the Student will be able to acquire the skill to Ø Solve problems on measures of central tendency and measures of dispersion. Ø Apply the techniques of index numbers and time series in business environment.
587	DIFFERENTIAL EQUATIONS	1636312	Employability	At the end of the course, the Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. Ø Estimate first order and higher order ordinary differential equations using appropriate methods. Ø Identify and obtain the solutions for PDE of standard types.
588	MATHEMATICAL STATISTICS	1636313	Employability	At the end of the course, the Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. Ø Demonstrate knowledge of probability and standard statistical distribution Ø Demonstrate knowledge of small sample and large sample statistical properties of points and interval estimation



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589	MULTIMEDIA	1636314	Employability	<p>Ø On taking this course the student will be able to Develop a comprehensive understanding of multimedia tools, technologies and techniques, Develop an understanding of the process of making multimedia by introducing the multimedia building blocks of text, images, sound, video and animation and to Foster the development of critical-thinking and communication skills in creating a multimedia project.</p>
590	NUMERICAL METHODS - I	1636315	Skill Development	<p>At the end of the Course, the Student will be able to acquire the skill to</p> <p>Ø Solve real world problems using various numerical approximation techniques.</p> <p>Ø Approximate using various interpolation techniques and solve numerically linear system of equations.</p>
591	VECTOR CALCULUS, ANALYTICAL GEOMETRY OF THREE DIMENSIONS	1636417	Employability	<p>On taking this course the student will be able to</p> <p>Ø Exhibit in depth the analytical and critical thinking to identify, formulate and solve real world problems</p> <p>Ø Demonstrate properties like gradient, divergence, curl associated with derivatives of vector point functions and integrals of vector point functions</p> <p>Ø Also develop the mathematical knowledge in evaluating multiple integrals and their usage also vector differential calculus and vector integral calculus.</p>
592	TRANSFORMS AND FOURIER SERIES	1636418	Employability	<p>On taking this course the student will be able to</p> <p>Ø Demonstrate the application of Fourier series and transforms in various fields.</p> <p>Ø Develop the proficiency in problem solving.</p> <p>Ø Have an insight into Fourier series, Inverse Laplace transform, Laplace transforms and Inverse Fourier transforms.</p>



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593	PROGRAMMING IN JAVA	1636419	Employability/ Skill Development	On taking this course the student will be able to Ø Get in-depth Knowledge about the evolution of JAVA and its Features Ø Bring out the difference and similarities between C, C++ and java Ø Develop programmers in Java with its special Features Ø Implementing the code in internet using Applet with AWT controls
594	NUMERICAL METHODS - II	1636420	Skill Development	At the end of the Course, the Student will be able to acquire the skill to Ø Solve real world problems using interpolation. Ø Solve Calculus problems by numerical approximation techniques.
595	ALGEBRAIC STRUCTURES	1536522	Employability	At the end of the course, the Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. Ø To demonstrate understanding of the relationships between abstract algebraic structures with familiar numbers systems such as the integers and real numbers. Ø To produce rigorous proofs of propositions arising in the context of abstract algebra
596	REAL ANALYSIS	1536523	Employability	On taking this course the student will be capable of Ø Analyzing any given sequence and series Ø Distinguish between limit superior, limit inferior and limit of a sequence Ø Constructing the proof techniques of the theorems in sequences and series Ø Illustrating the alternating series and differentiate absolute and conditional convergent series.



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597	DISCRETE MATHEMATICS	1536524	Employability	<p>At the end of the Course, the Student will be able to acquire the skill</p> <ul style="list-style-type: none">Ø To summarize the notion of mathematical thinking and algorithmic thinking.Ø To write and evaluate a proof or outline the basic structure of and give examples.Ø To define how graph serve as models for many standard problems by classifying as graphs, trees, Euler graph, cut set.
598	OPERATIONS RESEARCH I	1536525	Employability	<p>At the end of the course, the Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields.</p> <ul style="list-style-type: none">Ø Improve capabilities in the students for understanding and analyzing different kind of situations in the real-world,Ø Involve limited resources and find the optimal solution within the constraints.
599	WEB TECHNOLOGY	1536526	Employability/ Skill Development	<p>Explain the history of World Wide Web and their related concepts that are vital in understanding Web development. Demonstrate the important HTML tags for designing web pages and separate design from content using Cascading Style Sheet. Design an Interactive website using JavaScript language by implementing their functions.</p>



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600	LINEAR ALGEBRA	1736228	Employability	<p>On taking this course the student will be able to</p> <ul style="list-style-type: none"> Ø Demonstrate understanding of the relationships between abstract structures with familiar numbers systems such as the integers and real numbers. Ø Produce rigorous proofs of propositions arising in the context of Linear algebra. Ø Recognize and use the properties of Polynomial Rings, Vector Spaces, Inner product spaces and Linear Transformations.
601	COMPLEX ANALYSIS	1536629	Employability	<p>On taking this course the student will be able to</p> <ul style="list-style-type: none"> Ø Restate the concept of analyticity, Cauchy Riemann equations in Cartesian, polar coordinate and Harmonic functions Ø Evaluating the line integral using Cauchy's integral theorem. Ø Demonstrating theorems related to derivatives of analytic functions, Taylor series, Laurent's series, Cauchy Residue theorem. Ø Explain the concept of contour integration and evaluate the improper integrals. Describe mapping of linear and bilinear transformation and discuss the transformation $z \rightarrow 1/z$
602	MECHANICS	1536630	Employability	<ul style="list-style-type: none"> Ø To demonstrate the application of Mechanics in various fields. To develop the proficiency in problem solving. Ø To have an insight into Types of forces, Moments, kinematics, projectiles and moment of Inertia.
603	OPERATIONS RESEARCH II	1536631	Employability	<p>At the end of the course, the Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields.</p> <ul style="list-style-type: none"> Ø To aim at improving capabilities of the students for understanding and analyzing different kind of situations in the real-world. Ø To cover some analytical methods like sequencing, inventory methods, replacement models to help to make them better decisions.



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604	DOT NET PROGRAMMING	1536632	Employability/Skill Development	Explain the fundamentals of HTML and .NET programming, Demonstrate the concept of ASP.NET and its validation controls and Design an Interactive website using applications of VB.NET
BSc Physics With Computer Application -37				
605	MECHANICS AND PROPERTIES OF MATTER	1737101	Employability/Entrepreneurship/Skill Development	Upon completion of syllabus, students will be able to <ul style="list-style-type: none"> ❖ Apply the Bernouille's theorem in the field of aerodynamics, concept of surface tension in detergent formulation and incorporate the idea of viscosity in heavy machinery lubricants. ❖ By applying the principle of Venturimeter, students will be able to construct gas flow meter and with the knowledge of Hooke's Law, students will be able to analyse the elasticity nature in strings and pendulums. ❖ With the knowledge of bending of beams, students imbibe the elastic behavior of cantilevers.
606	MATHEMATICS PAPER - I	1736106	Employability/Entrepreneurship/Skill Development	The Student will be able to acquire the skill to Solve real world problems.
607	THERMAL PHYSICS AND ACOUSTICS	1737203	Employability/Entrepreneurship/Skill Development	After completion of the syllabus, students able <ul style="list-style-type: none"> ❖ to acquire the knowledge of determining temperature co-efficient of resistance, to understand the concept of resonance through Lissajou's figures, ❖ to venture in the field of solar radiation with the knowledge of Pyroheliometer ❖ to employ themselves in sound engineering and to control environmental noise.
608	MATHEMATICS PAPER - II	1736212	Employability/Entrepreneurship/Skill Development	The Student will be able to acquire the skill to Solve real world problems.
609	OPTICS	1637306	Employability/Entrepreneurship/Skill Development	Course outcome: At the end of completion of syllabus, students able to <ul style="list-style-type: none"> ❖ design polaroid films with principle of polarization ❖ Construct high monochromatic and intense beams with principle of LASER. ❖ Interpret the wave propagation of light.
610	BASIC ELECTRONICS	1637307	Employability/Entrepreneurship/Skill Development	After the completion of syllabus, students able to <ul style="list-style-type: none"> ❖ Examine the biasing technique in transistors and oscillators ❖ Design an amplifier to control the electronic circuits ❖ Separate the synchronized signals from composite picture signals using clipper and clamper



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611	DATA STRUCTURES	1637308	Employability/Entrepreneurship/ Skill Development	1. Understand and remember algorithms and its analysis procedure. 2. Introduce the concept of data structures through ADT including List, Stack, Queues. 3. To design and implement various data structure algorithms. 4. To introduce various techniques for representation of the data in the real world. 5. To develop application using data structure algorithms.
612	OBJECT ORIENTED PROGRAMMING USING C++	1637309	Employability/Entrepreneurship/ Skill Development	1. Describe the OOP approach connection with C++ 2. Apply the concepts of OOP. 3. Illustrate the process of data and file Manipulation.
613	ATOMIC PHYSICS	1637412	Employability/Entrepreneurship/ Skill Development	Upon completion of syllabus, students will be able to ❖ Determine the atomic masses using Bainbridge Spectrometer ❖ Inquire knowledge about various coupling schemes in atoms and to know about the influence of magnetic field in spectral lines. ❖ Construct solar panels with the knowledge of photo electric cells.
614	ELECTIVE 1-INTEGRATED ELECTRONICS	1637413	Employability/Entrepreneurship/ Skill Development	Upon completion of syllabus, students will be able to ❖ Understand about the voltage gain and ensure the maximum undistorted voltage ❖ Construct circuits to convert finite data to continually varying signals and vice versa with D/A and A/D convertor respectively. ❖ Design a analog frequency meters and flip-flop elements.
615	OPERATING SYSTEMS	1637414	Employability/Entrepreneurship/ Skill Development	1. To understand the main components of an OS & their functions. 2. To study the process management and scheduling. 3. To understand various issues in Inter Process Communication (IPC) and the role of OS in IPC. 4. To understand the concepts and implementation Memory management policies and virtual memory. 5. To understand the working of an OS as a resource manager, file system manager, process manager, memory manager and I/O manager and methods used to implement the different parts of OS.



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616	DATABASE MANAGEMENT SYSTEM	1637415	Employability/Entrepreneurship/ Skill Development	1. To understand the different issues involved in the design and implementation of a database system. 2. To study the physical and logical database designs, database modeling, relational, hierarchical, and network models 3. To understand and use data manipulation language to query, update, and manage a database 4. To develop an understanding of essential DBMS concepts such as: database security, integrity, concurrency. 5. To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.
617	NUCLEAR PHYSICS AND PARTICLE PHYSICS	1537518	Employability/Skill Development	Upon completion of syllabus, students will be able to ❖ Acquire the science behind the formation of nucleus and concept of magic numbers. ❖ Understand the different kinds of radiation and devices used for detecting them. ❖ Work in nuclear power stations and breeder reactors.
618	SOLID STATE PHYSICS	1537519	Employability/Entrepreneurship/ Skill Development	Upon completion of syllabus, students will be able to ❖ Interpret the atomic structure of various molecules ❖ Find applications in energy storage devices ❖ Work in field of magnetic resonance and particle accelerator.
619	ELECTIVE II-MICROPROCESSOR FUNDAMENTALS	1537520	Employability/Entrepreneurship/ Skill Development	Upon completion of syllabus, students will be able to ❖ understand the architecture of 8085 through pin out diagram and its different instructions ❖ design a program for various mathematical operations. ❖ Do read/write operations using control signals.
620	PROGRAMMING IN JAVA	1537521	Employability/Entrepreneurship/ Skill Development	1. Use an integrated development environment to write, compile, run, and test simple object-oriented java programs. 2. Read and make elementary modifications to Java programs that solve real-world problems. 3. Be able to create an application using string concept. 4. Be able to create a program using files in application. 5. Be able to create an Applet to create an application. 6. Identify and fix defects and common security issues in code.
621	ELECTRICITY AND ELECTROMAGNETISM	1537623	Employability/Entrepreneurship/ Skill Development	Upon completion of syllabus, students will be able to ❖ Observe the significance of single and three phase alternating current power. ❖ Understand the working of transformers with the basics of Faraday's Law of electromagnetism. ❖ to protect transformers, motors and power system from over-current conditions.



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622	RELATIVITY AND QUANTUM MECHANICS	1537624	Employability/Entrepreneurship/ Skill Development	Upon completion of syllabus, students will be able to ❖ Justify the wave nature of light with application like electron microscope. ❖ Interpret the energy levels of free particle using Schrodinger equation. ❖ Examine the energy values of different observables.
623	MATHEMATICAL PHYSICS & NUMERICAL METHODS	1537625	Employability/Entrepreneurship/ Skill Development	Upon completion of syllabus, students will be able to ❖ Analyse different types of matrices and account for its properties. ❖ Solve Simultaneous Algebraic equations. ❖ Fit the series of data using curve fitting techniques.
624	DIGITAL ELECTRONICS	1537626	Employability/Entrepreneurship/ Skill Development	By studying this course the students will be able to learn fundamentals of Boolean algebra, synthesis of Boolean functions, combination and sequential circuits.
B.A. Tamil Literature -38				
625	இக்கால இலக்கியம் - 1	1738101	Employability & Skill Development	புதுக்கவிதைகளைச் சமகாலப் பொருண்மைகளை மையமாகக் கொண்டு கவிதைகளைப் படைத்து வெளியிடுதல், ஊடகங்களில் பணியாற்றல்.
626	நன்னூல் - எழுத்ததிகாரம்	1738102	Employability & Skill Development	நன்னூல் எழுத்திலக்கணம் அறிந்துகொள்வது தமிழ் இலக்கண மரபை அறிந்துகொள்வதோடு போட்டித் தேர்வுகளுக்கும் உதவும் வகையில் உள்ளது.
627	தமிழக வரலாறும் பண்பாடும் - 1	1738103	Employability & Skill Development	பழந்தமிழர் /தமிழகத் தொன்மை, தனித்தன்மை, இயற்கை அமைப்பு, அயல்நாட்டுத் தொடர்புகள், வாழ்க்கைமுறை, சமூக நிலை, அறவுணர்வு, கலைகள் ஆகியனவற்றை அறிவதன்வழி தம் அடையாளத்தை அறிதலை நோக்கமாகக் கொண்டு இப்பாடம் அமைக்கப்பட்டுள்ளது.
628	சுற்றுலாவியல் (NME - I)	1738104	Employability, Entrepreneurship &	தமிழகச் சுற்றுலாத் தலங்கள், அதன் சிறப்புகள் குறித்து புரிந்துகொள்ளல், சுற்றுலா வணிகச் சந்தையைப் பயன்படுத்தி தொழில்முனைவோராக ஆதல்.
629	இக்கால இலக்கியம் - II	1738205	Employability & Skill Development	சிறுகதை, புதினம் முதலான இலக்கியப் படைப்பு உத்திகளை அறிந்துகொள்ளுதல்.
630	நன்னூல் - சொல்லதிகாரம்	1738206	Employability & Skill Development	நன்னூல் சொல்லதிகாரம் அடிப்படையில் மொழியைத் திறம்பட வெளிப்படுத்தல்.
631	தமிழக வரலாறும் பண்பாடும் - 2	1738207	Employability & Skill Development	தமிழக வரலாற்றையும் பண்பாட்டையும் அறிந்துகொள்ளவும் போட்டித் தேர்வுகளில் வெற்றிபெறவும் வகையில் அமைக்கப்பட்டுள்ளது.
632	வைணவம் (NME - 2)	1738208	Employability & Skill Development	வைணவத்தின் கொள்கைகளையும் பாரம்பரியத்தையும் அறிந்துகொள்வதோடு பக்தியுடனும் ஒழுக்கத்துடனும் வாழப் பழகுதல்.



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633	பக்தி இலக்கியமும் சிற்றிலக்கியமும்	1738209	Employability & Skill Development	தமிழர்களின் வாழ்வியல் பக்தியோடும் சார்ந்த வாழ்வியல் என்பதை மாணவர்கள் அறிந்துகொள்ளுதல்.
634	நம்பியகப்பொருள்	1638310	Employability & Skill Development	தலைவன், தலைவி இல்லற நெறிமுறைகளைப் பின்பற்றி ஒழுகும் கற்பு, அகப்பாட்டு உறுப்புக்கள், உத்திகள் ஆகியவற்றையும் கற்று, தமிழ் இலக்கியங்களைப் புரிந்துகொள்வதற்கும் படைப்பதற்கும் பயன்படுத்தல்
635	தமிழ் இலக்கிய வரலாறு - I	1638311	Employability & Skill Development	தமிழ் இலக்கியத்தின் மிகப்பெரும் பரப்பை மாணவர்கள் அறிந்துகொண்டு போட்டித் தேர்வில் வெற்றி பெறல்.
636	காப்பியம்	1638412	Employability & Skill Development	ஆசிரியர் பணிக்கான தேர்வுகளுக்குரிய நுழைத்தேர்வை எதிர்கொள்ளப் பயன்படுத்தல்.
637	புறப்பொருள் வெண்பாமாலை	1638413	Employability & Skill Development	புற இலக்கண மரபு கூறும் வீர உணர்வையும் சுவையான உத்திகளையும் தமிழ் இலக்கியப் பாடல்களோடு ஒப்பிட்டு மாணவர்கள் அறிந்துகொள்ளல்.
638	தமிழ் இலக்கிய வரலாறு - II	1638414	Employability & Skill Development	தமிழ் இலக்கியத்தின் மிகப்பெரும் பரப்பை மாணவர்கள் அறிந்துகொண்டு போட்டித் தேர்வில் வெற்றி பெறல்.
639	சங்க இலக்கியம் - அகம்	1638415	Employability & Skill Development	சங்க அகப்பாடல்களின் மூலகமாக பழந்தமிழனின் களவு, கற்பு வாழ்க்கைமுறைகளையும், சமூக நிலை போன்றவற்றை அவற்றின் பின்னணியோடு அறிந்துகொண்டு அதனைப் பகுப்பாய்வு செய்வது அறிவாற்றலை வளர்க்கும்.
640	யாப்பருங்கலக்காரிகை	1538516	Employability & Skill Development	யாப்பின் உறுப்புகளை அறிந்துகொண்டு பழந்தமிழ் நூல்களை யாப்பறிந்து, சீர் பிரித்து எளிதில் புரிந்துகொள்ளல்; மரபுக்கவிதை
641	தமிழ்மொழி வரலாறு	1538517	Employability & Skill Development	தமிழ் மொழியின் தொன்மை, நாகரிகத்தின் அடையாளம், மொழிக்கு உரிய சிறப்புகள், வாழ்வியல் சார்ந்தும்/ நிலப்பரப்பு சார்ந்த மொழி கூறுகளில் ஏற்படும் மாற்றங்கள் போன்றவற்றை அறிந்து கொள்ளுதல்.
642	தமிழ் இலக்கியத் திறனாய்வு	1538518	Employability & Skill Development	இலக்கியங்களைத் திறனாய்வு செய்யவும் அதனை எவ்வாறு படைப்பது என்பது குறித்த படைப்பாற்றலும் வளர்த்தல்.
643	தமிழகக் கோயிற்கலை	1538519	Employability & Skill Development	தமிழகத்தின் தொன்மையான, சிறந்த கட்டடக் கலை குறித்து அறிதல், இந்து சமய அறநிலையத்துறையில் வேலைவாய்ப்பு பெறும் வகையில் தன்னைத் தயார்படுத்திக் கொள்ளல்.

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644	சங்க இலக்கியம் - புறம்	1538520	Employability & Skill Development	பழந்தமிழனின் கலை மற்றும் பண்பாட்டு ஆய்வுகளில் ஈடுபடத் தூண்டும்.
645	தண்டியலங்காரம்	1538521	Employability & Skill Development	பல்வகை அணிகளையும் அதன் அமைப்புமுறைகளையும் மாணவர்கள் அறிந்துகொண்டு பழந்தமிழ் நூல்களில் புதைந்துள்ள அணிகளைச் சுவைத்தல், ஆராய்தல், எளிதில் புரிந்துகொள்தல், அணியிலக்கணம் தோய்ந்த மரபுக்கவிதை இயற்ற்தல்.
646	திராவிட மொழிகளின் ஒப்பாய்வு	1538622	Employability & Skill Development	மொழியியல் ஆய்வின் அடிப்படையில் திராவிட மொழிகளின் இயல்புகளைத் தனித்தனியாக விளக்கி, மொழிக்கும் மனித சமூகத்துக்கும் இடையிலான பிணைப்பை அறிவியல்முறை ஆய்வின் மூலம் அறிந்துகொள்ளுதல்.
647	நாட்டுப்புறவியல்	1538623	Employability & Skill Development	மாணவர்கள் இன்றைய ஊடகங்களில் பணி வாய்ப்பைப் பெறும்பொழுது நாட்டுப்புறக் கதைகள், பாடல்களை நிகழ்த்தி தனிப்பட்ட ஆளுமையாளராக சிறப்பைப் பெறுதல்
648	அடிப்படைக் கணினியியல்	1538624	Employability, Entrepreneurship & Skill Development	கணினியின் அமைப்பு, கணினியின் தலைமுறைகள், கல்விசார்ந்து கணினியின் பயன்பாடு, இணையத்தமிழ் வளர்ச்சி ஆகியனவற்றைப் பற்றிப் புரிந்துகொள்வதோடு பங்களிப்பு செய்வதையும் அறிந்துகொள்ளல்.
B.A. Tamil Literature -38				
625	Paper – 1 – Contemporary Literature - I (Poem & Prose)	1738101	Employability & Skill Development	Creating and publishing poems with a focus on contemporary contents, working in the media.
626	Grammer – I - Nannool – Ezhuththadhigaram	1738102	Employability & Skill Development	This subject helps in understanding the Tamil grammatical tradition and also helps in competitive examinations.
627	History and Culture of Tamil Nadu– I	1738103	Employability & Skill Development	This Subject is aimed at identifying oneself with the knowledge of ancient Tamil Language / Tamil antiquity, uniqueness, Landscape, foreign relationships, lifestyle, social status, Ethics, Arts.
628	Tourism	1738104	Employability, Entrepreneurship & Skill Development	Understanding of Tamil Nadu Tourist Places and Its Features, become an Entrepreneurship Using the Tourism Business Market.
629	Contemporary Literature – II (Short Stories, Novels, Dramas)	1738205	Employability & Skill Development	Understanding literary creation techniques such as short stories and novels.
630	Grammer – II- Nannool – Cholladhigaram	1738206	Employability & Skill Development	Effective expression of language based on Nannool : Solladhigaram.
631	Thamizhaga varalaarum panpaadam – II	1738207	Employability & Skill Development	It is set up to know the history and culture of Tamil Nadu and to win the competitive examinations.



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632	Vainavam (NME -2)	1738208	Employability & Skill Development	To know the principles and traditions of Vaishnavism and to live with devotion and morality.
633	Devotional literature and Prabandhangal	1738209	Employability & Skill Development	Students understanding that the life of Tamils is based on devotion and life.
634	Grammer – III – Nambiyagapporul	1638310	Employability & Skill Development	Nambiyagapporul used for understanding and creation of Tamil literature.
635	History of Tamil Literature – I	1638311	Employability & Skill Development	Students know the vast area of Tamil literature and win the competitive examination.
636	Epics	1638412	Employability & Skill Development	Used to face entrance exams for teaching jobs.
637	Grammer – IV – Purapporul venpamalai	1638413	Employability & Skill Development	Students learn about the heroic feeling and delicious techniques of the "Pura" grammatical tradition by comparing it with Tamil literary songs.
638	History of Tamil Literature – II	1638414	Employability & Skill Development	Students know the vast area of Tamil literature and win the competitive examination.
639	Sangam Literature - Agam	1638415	Employability & Skill Development	Knowing and analyzing the "Kalavu Valkai", "Karpu Vazhkai" and social status of Ancient Tamils as an element of Sangam incarnations will develop cognition.
640	Yaapparungalak kaarigai	1538516	Employability & Skill Development	To understand the elements of Yappu and the Ancient Tamil Texts easily; Creating of Traditional Poem.
641	History of Tamil Language	1538517	Employability & Skill Development	To know the antiquity of the Tamil language, the identity of the civilization, the peculiarities of the language, changes in the biological / geographical features of the language, etc.
642	Tamil Literary Review	158518	Employability & Skill Development	Developing reviewing knowledge of literature and know how to create literature.
643	Temple Art of Tamils	1538519	Employability & Skill Development	To know about the ancient and best architecture of Tamil Nadu and to prepare oneself for employment in the Hindu Religious and Charitable Endowments Department.
644	Sangam Literature – Puram	1538520	Employability & Skill Development	Encourages to engage in art and cultural studies of Ancient Tamils.
645	Thandiyalangaram	1538521	Employability & Skill Development	Students learn about the various Ani (Aesthetic) and their structures, taste, explore, easily understand the Ani buried in the ancient Tamil texts. And they can compose grammatical poetry.
646	Dravidian languages and analogy	1538622	Employability & Skill Development	Explaining the nature of Dravidian languages individually on the basis of linguistic study and understanding the link between language and human society through scientific study.
647	Folkloristics	1538623	Employability & Skill Development	Performing folk tales and songs while students get a job in today's media and some students will excel as a personality.
648	Basic Computing	1538624	Employability, Entrepreneurship &	Understand and contribute to computer system, computer generation, computer usage in educational field, and Internet development.
B.A. English Literature -39				



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654	INDIAN WRITING IN ENGLISH	1739101	Employability, Skill Development	The students will be able to analyse the theme of Indianness and the contributions made by the great writers to the history of Indian Writing in English.
655	CHILDREN'S LITERATURE	1739102	Employability	The students will be able to explain the history of children's Literature and the importance and need for a study of Children's literature
656	SOCIAL HISTORY OF ENGLAND-I	1739103	Employability	The students will be able to evaluate the various poetic forms specific to the age and the writers of the prescribed periods in the history of English Literature
657	ADVERTISING AND PUBLIC RELATIONS	1730104	Employability, Entrepreneurship	The students will be able to understand the history of advertising and the importance of advertisements and PR
658	ELIZABETHIAN AGE	1739205	Employability	The students will be able to categorize the major forms and present a picture of the Elizabethan period
659	THE AUGUSTUAN AGE	1739206	Employability	The students will be able to categorize the major forms and present a picture of the Augustan period
660	SOCIAL HISTORY OF ENGLAND-II	1739207	Employability	The students will be able to evaluate the various poetic forms specific to the age and the writers of the prescribed periods in the history of English Literature
661	COMMUNICATION AND BROADCASTING AND TELECASTING	1739208	Employability, Entrepreneurship, S	The students will be able to understand the importance of telecasting and identify the various methods in the process of developing the performance skills
662	THE ROMANTIC AGE	1639309	Employability	The students will be able to describe the famous works of William Wordsworth, William Blake and their contemporaries.
663	THE VICTORIAN AGE	1639310	Employability	The students will be able to describe and analyse the famous works of Victorian Age writers.
664	LITERARY FORMS	1639311	Employability	The students will be able to evaluate the various poetic forms specific to the age and the writers of the period
665	THE MODERN AGE	1639412	Employability	The students will be able to identify the features of the Modern period against the historical and political background
666	ENGLISH LANGUAGE AND LINGUISTICS	1639413	Employability, Entrepreneurship	The students will be able to apply the knowledge of linguistics and explore the methodologies related to word formation and grammar
667	JOURNALISM	1639414	Employability, Skill Development	The students will be able to understand the basic principles of Journalism and mass communication
668	ENGLISH LANGUAGE AND TEACHING	1539515	Employability, Entrepreneurship, S	The students will be able to analyse and understand the various levels of development in the field of ELT
669	SHAKESPEARE	1539516	Employability	The students will be able to analyse the works of Shakespeare, the Theatre and Audience during his life time
670	AMERICAN LITERATURE	1539517	Employability	The students will be able to analyse and appreciate the history and works of American Literature



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671	POST COLONIAL LITERATURE	1539518	Employability	The students will be able to identify the predominant themes and writings of postcolonial literature
672	DEVELOPING LANGUAGE SKILLS	1539519	Employability, Entrepreneurship,	The students will be able to identify and understand the importance of developing the language skills
673	CANADIAN LITERATURE	1539620	Employability	The students will be able to identify the predominant themes and writings of Canadian literature
674	WOMEN STUDIES	1539621	Employability	The students will be able to understand the emergence and objectives of Women's studies
675	CLASSICAL AGE	1539622	Employability	The students will be able to understand classicism and identify the historical and cultural contexts of the classical age
676	TRANSLATION STUDIES	1539623	Employability, Entrepreneurship,	The students will be able to understand the importance of Translation and identify the various methods in the process of translating texts
677	ENGLISH FOR CAREER	1539624	Employability, Entrepreneurship,	The students will be able to understand the importance of English and identify the various career opportunities.
B.A. Business Economics -41				
678	MICRO ECONOMICS-I	1741101	Skill Development, Entrepreneurship	The students developed the skill of analyzing the various aspects of consumer behavior and short run and long run production.
679	STATISTICAL AND MATHEMATICAL METHODS	1741102	Employability, Skill Development	The students will be able to recall and apply the various measures of measuring dispersion and estimate/evaluate their effectiveness. This will enable them to get employment.
680	FINANCIAL ACCOUNTING-I	1741103	Employability, Skill Development	The students will be able to prepare trading, profit and loss account and balance sheet and this will enable them to get employment.
681	ECONOMICS OF TOURISM	1741104	Employability, Skill Development	The students will learn the details relating to tourism promotion through which they can get employment.
682	MICRO ECONOMICS-II	1741205	Employability, Entrepreneurship	The students will learn about different market structures which is prevalent in the market. This will enable them to start business.
683	STATISTICAL METHODS AND OPERATIONS RESEARCH	1741206	Employability, Skill Development	The student will acquire skills about PERT and CPM
684	FINANCIAL ACCOUNTING II	1741207	Skill Development	The students will acquire skills relating to preparation of departmental accounts
685	COMPUTER AND ITS APPLICATIONS	1741208	Employability	The student will acquire the computing skills through which they will get employment
686	MARKETING - I	1602309	Entrepreneurship	The students will learn about the process involved in new product development which will help them start while doing the business.
687	MONETARY ECONOMICS	1641310	Employability	The student learns the functions of RBI and commercial banks which will fetch them employment.



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688	CORPORATE ACCOUNTING	1641311	Employability	The student will be able to prepare the final accounts of banking and insurance companies. This will be helpful in getting employment.
689	MARKETING II	1641412	Employability, Skill Development	The students will acquire the skills relating to e-marketing.
690	MANAGERIAL ECONOMICS	1641413	Employability, Entrepreneurship	The student learns about profit planning and capital management which will be helpful when he starts a new venture.
691	COST ACCOUNTING	1641414	Employability, Skill Development	The students will be able to prepare cost sheet and labour cost. He will be able to get employment after learning this.
692	MACRO ECONOMICS - I	1541415	Employability	The student acquires the skills relating to investment function and employment determination.
693	FISCAL ECONOMICS - I	1541516	Employability	The student learns about individual tax, wealth tax and property tax which will be helpful for employment
694	INTERNATIONAL ECONOMICS - I	1541517	Employability, Entrepreneurship	The student acquired the skill of understanding the tariffs and balance of payment
695	INDIAN ECONOMY AND ECONOMIC REFORMS	1541518	Employability	The student will get to know about the importance of agriculture and industry in economic development.
696	HRD - I	1541519	Employability	The students will learn about the different methods of training and selection which will help them fetch employment.
697	MACRO ECONOMICS - II	1541620	Employability	The student learnt the objective and importance of macro economic policy which will be helpful while he starts a new venture.
698	FISCAL ECONOMICS -II	1541621	Employability	The student learnt the objectives and instruments of fiscal policy which will be helpful for employment.
699	INTERNATIONAL ECONOMICS – II	1541622	Skill Development, Entrepreneurs	The student learnt about the different types of exchange rates which will be helpful when he starts a new venture
700	HUMAN RESOURCE DEVELOPMENT - II	1541623	Employability	The student will learn about career planning and factors of productivity
701	PRINCIPLES OF MANAGEMENT	1541624	Employability, Entrepreneurship	The student will get to know about organizational hierarchy in large organisations
B.A. Criminology & Police Administration -42				
702	PRINCIPLES OF CRIMINOLOGY	1742101	Skill development	Apply the crime prevention methods to prevent crimes in their locality
703	CRIMINAL LAW	1742102	Skill development	Know all the important sections, concepts, principles and doctrines from the major laws by the end of the syllabus
704	DOCUMENT EXAMINATION	1742103	Skill development	Learning this paper will enhance student's skill set in various document examination and verification
705	NME- VICTIMOLOGY	1742104	Skill development	Understand the necessity of victim assistance in the Criminal Justice System
706	VIGILANCE AND SECURITY MANAGEMENT	1742205	Skill development, Employability,	Learning and understanding vigilance and security aspects in this paper increases student's employability chances.
707	PRINCIPLES OF PSYCHOLOGY	1742206	Skill development	Apply the theories of personality in real world



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708	SPECIAL LAWS	1742207	Skill development	Acquiring knowledge in special laws will helps the students to work efficiently in policy making process or other fields related to criminal justice system
709	NME 2- MEDIA AND CRIME	1742208	Skill development	Learning techniques and styles of writing for various types of media , editing, concise writing
710	HUMAN RIGHTS IN CRIMINAL JUSTICE ADMINISTRATION	1642309	Skill development	Understand the role of Human rights in Criminal Justice
711	SOCIAL PROBLEMS	1642310	Skill development	Understand the various violence committed against the vulnerable groups in the society
712	FUNDAMENTALS OF STATISTICS	1642311	Skill development	Demonstrate the difference between the various types of research and design and formulate hypothesis
713	PRISON ADMINISTRATION	1642412	Skill development	Recognize the various types of correctional methods and typology of prisons, prisoners
714	CYBERCRIME	1642413	Skill development	Knowledge about Tracking & Tracing Emails, Recovery of Digital Evidence, Setting up a Cyber Crime Investigation Cell
715	GUIDANCE AND COUNSELING	1642414	Skill development, Employability	Apply the techniques of counseling in communication and interpersonal conversation in personal and professional setups.
716	POLICE ADMINISTRATION	1542516	Skill development	Realize the significance of different records maintained at the police station
717	POLICE STATION MANAGEMENT	1542517	Skill development	Remember the daily routine of the police station and understand the importance of modernization of police
718	VICTIMOLOGY	1542518	Employability	Understand the necessity of victim assistance in the Criminal Justice System
719	COMPUTER APPLICATION IN CRIMINAL JUSTICE	1542519	Skill development	Learning on computerisation of Police Station records and use of Computers for effective Management of Police Stations
720	COMMUNITY POLICING	1542621	Skill development	Recognize the various community policing methods adopted in the various parts of the state.
721	CONTEMPORARY FORMS OF CRIME	1542622	Skill development	Learn about organized crimes the problems and difficulties in identification, preventing Organized crimes
722	PRIVATE DETECTIVE AND INVESTIGATION	1542623	Skill development, Employability,	Design and conduct investigations independently
B.A. Sociology -43				
	PRINCIPLES OF SOCIOLOGY I	1743101	Skill development	Understand about the relationship between individual and society, Classification of Group, Types and agencies of Socialization
723	INDIAN SOCIETY	1743102	Employability	known about the ethical composition of Indian Society and major social changes in Indian Society
724	SOCIAL PSYCHOLOGY	1743103	Skill development	Learning the methods and importance of social psychology, about personality, leadership, attitude and public opinion
725	NME I MASS MEDIA AND DEVELOPMENT	1743104	Skill development	Students will learn the ethics, social issues, functions of mass media



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726	PRINCIPLES OF SOCIOLOGY II	1743205	Skill development, Employability	Acquiring the knowledge of socialization, social change and development of sociology
727	SOCIAL PROBLEMS IN INDIA	1743206	Employability	Students realize about important social problems
728	SOCIAL ANTHROPOLOGY	1743207	Skill development	Students got more information about the life of tribes and community.
729	NME II ELEMENTS OF INSURANCE	1743208	Employability	Students' expertise about Insurance and its usage.
730	CLASSICAL SOCIAL THINKERS	16/43309	Skill development, Employability	Students able to understand about the pioneers of Sociologists and their contribution
731	SOCIAL MOVEMENTS IN INDIA	1643310	Employability	Students understand about the various social movements in India
732	SOCIAL DEMOGRAPHY	1643311	Skill development, Employability	Students got the skill of utilizing demographic profile and its importance
733	MODERN SOCIOLOGICAL THEORIES	1643412	Skill development, Employability	Students acquired the modern sociological theoretical concepts.
734	RESEARCH METHODOLOGY AND STATISTICS	1643413	Skill development, Employability	Students trained about research methodology and statistics.
735	POLITICAL SOCIOLOGY	1643414	Skill development	Students able to know about the political system of India.
736	RURAL SOCIOLOGY	1543515	Skill development, Employability	Students able to get aware about the Rural Life and its Changes.
737	URBAN SOCIOLOGY	1543516	Skill development, Employability	Students understand about urban way of life.
738	INDUSTRIAL SOCIOLOGY	1543517	Skill development, Employability	Students got specialized about the industries and its function.
739	SOCIOLOGY OF DEVELOPMENT	1543518	Skill development, Employability	Students able to get knowledge about various development in society.
740	MEDICAL SOCIOLOGY	1543619	Skill development, Employability	Students get aware about the importance of health and its related issues.
741	COMMUNICATION, MEDIA AND SOCIETY	1543620	Skill development, Employability	Students got the skill of communication and role of media.
B.A.Tourism & Travel Management -44				
742	TOURISM BUSINESS I	1744101	Employability	To get employment in the tourism industry
743	TOURISM PRODUCT I	1744102	Employability	To gain knowledge regarding the various tourism product and get employed
744	BIODIVERSITY OF INDIAN SUB-CONTINENT	1744103	Employability	To know about tourism in India and increases the employment potentials
745	ECONOMICS OF TOURISM	1744104	Employability	To promote tourism at minimum cost
746	TOURISM BUSINESS II	1744205	Employability	To get employment in the tourism industry
747	TOURISM PRODUCT II	1744206	Employability	To gain knowledge regarding the various tourism product and get employed
748	BASICS OF ARCHAEOLOGY	1744207	Employability	To learn more about Indian archaeology and get employed as tourist guide
749	Travel agencies and Tour operators II	1644309	Employability, Entrepreneurship	To get the techniques to be employed as tour operator
750	MARKETING MANAGEMENT	1644310	Employability	To know about the marketing environment and techniques
751	ART AND ARCHITECTURE IN ANCIENT INDIA	1644311	Employability	To learn more about Indian architecture and get employed as tourist guide



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752	TRAVEL AGENCIES AND TOUR OPERATORS II	1644412	Employability	To get the techniques to be employed as tour operator
753	TOURISM MARKETING	1644413	Employability	To know about the marketing environment and techniques of tourism
754	ART AND ARCHITECTURE IN MEDIEVAL INDIA	1644414	Employability	To learn more about Indian architecture and get employed as tourist guide
755	GLOBAL TOURISM	1544515	Employability	To learn more about the world tourist places and get employed as tourist guide
756	SOCIAL AND CULTURAL HISTORY OF INDIA	1544516	Employability	To learn more about Indian social culture and get employed as tourist guide
757	HOTEL MANAGEMENT AND CATERING	1544517	Employability	To learn about system of catering and services
758	PERSONNEL MANAGEMENT	1544620	Employability	To learn about the human resources development
759	FRONT OFFICE MANAGEMENT	1544621	Employability	To know the techniques and get employed in hospitality sectors
760	ECO TOURISM	1544622	Employability	To develop about the green tourism
761	AIR TICKETING AND FARE CONSTRUCTION	1544626	Employability	To learn the process of air ticketing
B.Com - Accounts & Finance- 45				
762	FINANCIAL ACCOUNTING	1745101	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding bank reconciliation statement, preparation of final accounts, depreciation, this will enable them to become employable and acquire entrepreneurship quality.
763	BUSINESS ECONOMICS	1745102	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding economies of scale and methods of demand forecasting this will enable them to become employable and acquire entrepreneurship quality.
764	BUSINESS MATHEMATICS- I	1708108	Employability, skill development	The student will be able to enhance their knowledge regarding this will set theory, ratio, proportion and variations, this will enable them to become employable and acquire entrepreneurship quality.
765	BASICS OF RETAIL MARKETING	1745103	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding functions of retailing, franchising concept, this will enable them to become employable and acquire entrepreneurship quality.
766	ADVANCED FINANCIAL ACCOUNTING	1745204	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding branch account and hire purchase accounts, this will enable them to become employable and acquire entrepreneurship quality.



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767	PRINCIPLES OF MANAGEMENT	1745205	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding role and skills of manager and importance of planning, this will enable them to become employable and acquire entrepreneurship quality.
768	BUSINESS MATHEMATICS- II	1708211	Skill development	The student will be able to enhance their knowledge regarding integral calculus and application in business, this will enable them to acquire skills.
769	FUNDAMENTALS OF BUSINESS INSURANCE	1745208	Employability	The student will be able to enhance their knowledge regarding principles of insurance and life insurance products, this will enable them to become employable.
770	CORPORATE ACCOUNTING	1645309	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding profit prior to incorporation, computation of managerial remuneration this will enable them to become employable and acquire entrepreneurship quality.
771	LEGAL SYSTEM IN BUSINESS	1645310	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding sale of goods act and conditions & warranties, this will enable them to become employable and acquire entrepreneurship quality.
772				
773	BANKING THEORY LAW AND PRACTICE	1645311	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding banking regulation act and online enquiry, this will enable them to become employable.
774				
775	ENTREPRENEURIAL DEVELOPMENT	1645312	Entrepreneurship	The student will be able to enhance their knowledge regarding factors promoting entrepreneurship and generating ideas, this will enable to acquire entrepreneurship quality.
776	BUSINESS STATISTICS OR- I	1645313	Employability, skill development	The student will be able to enhance their knowledge time series analysis and game theory, this will enable them to become employable and acquire entrepreneurship quality.
777	ADVANCED CORPORATE ACCOUNTING	1645414	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding accounting standards and final statements of banking & insurance, this will enable them to become employable and acquire entrepreneurship quality.
778	FINANCIAL SERVICES	1645415	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding merchant banking and underwriting, this will enable them to become employable and acquire entrepreneurship quality.



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779	PRINCIPLES OF MANAGEMENT	1645416	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding role and skills of manager and importance of planning, this will enable them to become employable and acquire entrepreneurship quality.
780	BUSINESS COMMUNICATION	1645417	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding effective communication and report writing, this will enable them to become employable and acquire entrepreneurship quality.
781	BUSINESS STATISTICS OR- II	1645418	Skill Development	The student will be able to enhance their knowledge regarding integral calculus and application in business, this will enable them to acquire skills.
782	PRACTICAL AUDITING	1545519	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding internal check and online computer system audit, this will enable them to become employable and acquire entrepreneurship quality.
783	COST ACCOUNTING	1545520	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding cost analysis and cost analysis, this will enable them to become employable and acquire entrepreneurship quality.
784	INCOME TAX LAW AND PRACTICE I	1545521	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding computation of income under various heads and online return filing this will enable them to become employable and acquire entrepreneurship quality.
785	FINANCIAL MANAGEMENT	1545522	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding cost of capital and working capital, this will enable them to become employable and acquire entrepreneurship quality.
786	INVESTMENT MANAGEMENT	1545523	Employability, Entrepreneurship	To enable students to understand the concepts, theories & practices applied in investment management, to help students understand the relationship between risk and return in investment and familiarize them with the various investment avenues available in India
787	MANAGEMENT ACCOUNTING	1545624	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding marginal costing and BEP, this will enable them to become employable and acquire entrepreneurship quality.



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788	ADVANCED COST ACCOUNTING	1545625	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding introduction to costing techniques, this will enable them to become employable and acquire entrepreneurship quality.
789	INCOME TAX LAW AND PRACTICE II	1545626	Employability, Entrepreneurship, skill development	The student will be able to enhance their knowledge regarding set off, carry forward and assessment procedure, this will enable hem to become employable and acquire entrepreneurship quality.
790	WORKING CAPITAL MANAGEMENT	1545627	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding cash management, inventory management and working capital management, this will enable them to become employable and acquire entrepreneurship quality.
791	CORPORATE FINANCE	1545628	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding functions of finance manager and corporate finance planning, this will enable them to become employable and acquire entrepreneurship quality.
B.Sc Interior Design & Décor -46				
792	PRINCIPLES OF INTERIOR DECORATION	1746101	Employability	The student will be able to get employment in interior designer
793	BASICS OF LIFE SPACE PLANNING	1746102	Employability	The student enhances the ideas of planning buildings
794	INTERIOR DESIGN STUDIO AND BUILDING SYSTEM TECHNOLOGY- I	1746103	Employability	The student learn the techniques of construction and can get employment
795	PRINCIPLES OF INTERIOR DESGIN- I	1746205	Employability	The student will be able to get employment in interior designer
796	PRINCIPLES OF INTERIOR DESGIN- II	1746206	Employability , Entrepreneurship	The student can begin his own venture in designing interior in commerical areas
797	INTERIOR DESIGN STUDIO AND BUILDING SYSTEM TECHNOLOGY- II	1746207	Employability	The student learn the techniques of construction and can get employment
798	APPLIED ART ON TEXTILES- I	1646309	Employability	The student will learn to apply art work on Textiles and get employment in designing textilegarments.
799	INTERIOR DESIGN AND APPLIED ARTS (MINOR ARTS)	1646310	Entrepreneurship	The student can begin his own venture in designing interior
800	BASIC COMPUTER APPLICATION AND AUTOCAD- I	1646311	Employability	The student will gain knowlledge on software designing
801	INTERIOR DESIGN AND APPLIED ARTS (MAJOR ARTS)	1646411	Skill Development	The student can develop his skills on creating different kinds of inteirc
802	APPLIED ART ON TEXTILES- II	1646412	Employability	The students will learn about green environment and can get employed in Corporates



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803	BASIC COMPUTER APPLICATION AND AUTOCAD- II	1646413	Employability	The student will gain knowledge on software designing
804	HUMAN DEVELOPMENT	1546515	Entrepreneurship	The student learn the stages of development of humans
805	TEXTILES AND CLOTHING-I	1546516	Employability	The student will learn to apply art work on Textiles and get employment in designing textilegarments.
806	FINE ARTS DRAWING, SCULPTURE AND PAINTING	1546517	Employability	The student will learn to apply art work on sculptures and get employment in designing.
807	FUNDAMENTALS OF FOOD AND NUTRITION	1546518	Employability	The students will learn about all aspects of nutrition and get employed as a dietician.
808	MASS COMMUNICATION	1546519	Entrepreneurship	The student learn about the social media techniques
809	TEXTILES AND CLOTHING-II	1546620	Employability	The student will learn to apply art work on Textiles and get employment in designing textilegarments.
810	FINE ARTS DRAWING, SCULPTURE AND PAINTING II	1546621	Entrepreneurship	The student will learn to apply art work on sculptures and get employment in designing.
811	PRINCIPLES OF RESOURCE MANAGEMENT	1546622	Skill Development	The student will learn to complete the work with minimum resources
812	COMMUNICATION AND GRAPHIC DESIGN	1546623	Skill Development	The student will develop the skills in graphic designing
813	FAMILY STUDIES	1546624	Skill Development	The student understands the skills required for family bonding and unity.
B.Sc. Psychology -47				
814	GENERAL PSYCHOLOGY- I	1747101	Employability, Skill development	Understand the Scope and branches of psychology and various applications of Learning theories and Memory improving techniques
815	BIOLOGICAL BASIS OF BEHAVIOR - 1	1747102	Employability, Entrepreneurship	Able to design and conduct research with ethical knowledge. Understand Structure, Function and process of Nervous system
816	PRINCIPLES OF SOCIOLOGY	1747103	Employability	Able to analyse the dynamics of society and human interaction in a multicultural setting and to imply inclusivity in diversity.
817	NME:- ORGANISATIONAL BEHAVIOR	1747104	Employability	Critically analyse and evaluate various leadership styles, teamwork process in work setting and to investigate the role of culture and climate in organisational development and change
818	GENERAL PSYCHOLOGY -2	1747205	Employability, Skill development	Understand and evaluate the major concepts of Psychology like Intelligence, Emotions, Motivation, Personality and its measures
819	BIOLOGICAL BASIS OF BEHAVIOR - 2	1747206	Employability, Entrepreneurship,	Able to develop intricate understanding about human sensory - neural system and various forms of disorders. Also gain knowledge on what brain damage mean, what it can lead to it and how it can be prevented?
820	FUNDAMENTALS OF SOCIAL ANTHROPOLOGY	1747207	Employability, Entrepreneurship	Able to deduce the role of Family, Kinship , Marriage and political setup in Human Development and Examine the nature of reward and punishment in the development of antisocial behaviour and assessing various methods to prevent it.



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821	NME - ELEMENTS OF INSURANCE	1747208	Employability	Able to gather valuable information on Life insurance products- term-whole life- endowment
822	DEVELOPMENTAL PSYCHOLOGY 1	1647309	Employability, Entrepreneurship,	Able to display the Knowledge on various stages of human development from fertilization until adolescence, and critically analyse the challenges faced at each developmental stage and appraise methods to deal with the challenges.
822	EXPERIMENTAL PSYCHOLOGY	1647311	Employability, Skill development	Able to use various test batteries to measure psychological concepts like memory, intelligence, attention,etc., interpret results and to write report
823	DEVELOPMENTAL PSYCHOLOGY 2	1647412	Employability, Skill development	Able to display the Knowledge on various stages of human development from adolescence to old age and critically analyse the challenges faced at each developmental stage and appraise methods to deal with the challenges.
824	MARKETING AND CONSUMER BEHAVIOR	1647413	Employability, Entrepreneurship	Able to analyse the dynamics of market and marketing strategies to enhance consumer behaviour.
825	PSYCHOLOGICAL ASSESSMENT	1647414	Employability, Skill development	Able to interpret Validity, Reliability of various Psychological measures and to administer these questionnaires to measure concepts like Personality, anxiety, anger, self- Esteem,etc.,with results analyses and discussion.
826	PSYCHOPATHOLOGY I	1547515	Employability, Entrepreneurship	Understand the etiology and risk factors of abnormal behaviour. able to imply the knowledge of DSM categorisation of abnormality. analyse various type of anxiety , somatoform disorders. Able to critically evaluate various preventive and treatment procedures
827	PSYCHOLOGICAL RESEARCH AND MEASUREMENT	1547516	Employability, Entrepreneurship,	Able to conduct and write a complete research report by gaining knowledge of various research designs, sampling techniques and methodologies
828	APPLIED PSYCHOLOGY	1547517	Employability, Entrepreneurship,	Sketch and determine the role of psychology and psychologists in various spectrums like cognitive psychology, community psychology , school psychology
829	SOCIAL PSYCHOLOGY I	1547518	Employability, Entrepreneurship	Understanding human behaviour in social setting. Analyse various social psychology concepts like social cognition, Attitude formation in explaining human behaviour.
830	PSYCHOPATHOLOGY II	1547620	Employability, Entrepreneurship	Critically analyse the etiology and Sympyoms of various disorders like, mood discorders, Schizophrenia, personality disorders, drug addiction behaviour and sexual dysfunctions. Able to critically evaluate various preventive and treatment procedures
831	ORGANISATIONAL PSYCHOLOGY	1547621	Employability, Entrepreneurship	Critically analyse and evaluate various leadership styles, teamwork process in work setting and to investigate the role of culture and climate in organisational development and change



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832	SOCIAL PSYCHOLOGY - 2	1547622	Employability, Entrepreneurship	Understanding human behaviour in social setting. Analyse various social psychology in explaining human behaviours like Prejudicism, stereotyping, aggression etc
M.A. Journalism -48				
832	HUMAN COMMUNICATION	1748101	Employability	Enable effective communication, Enhance group output
833	REPORTING AND WRITING SKILLS	1748102	Employability, Skill Development	Enhance the reporting skills, Develop effective writing skills
834	EDITING SKILLS	1748103	Employability, Skill Development	Improve editing skills in print media, Design and create page layouts
835	INFORMATION AND COMMUNICATION TECHNOLOGY	1748104	Employability	Using ICTs for effective communication, Empowering students with Developmental communication skills
836	PHOTOGRAPHY	1748105	Employability, Entrepreneurship, Skill Development	Developing photography skills, Enabling a student to be a photojournalist
837	MEDIA SKILLS	1748106	Employability	Improve Designing Skills, Journal Publication
838	MASS COMMUNICATION THEORIES	1748207	Employability	Analyze News, Develop public communication strategies
839	MEDIA, CULTURE AND SOCIETY	1748208	Employability	Analyze media content, Create effective media text
840	COMMUNICATION RESEARCH METHODS	1748209	Employability	Device effective sampling techniques for research, Ability to collect data for research
841	NEWS PRODUCTION	1748210	Employability, Skill Development	Gather News, Create News Content for radio and television
842	ONLINE JOURNALISM AND WEB MANAGEMENT	1748211	Employability, Entrepreneurship, Skill Development	Expertise in Online Journalism tools, Creating content for online media
843	COMMUNICATION RESEARCH METHODS I	1648313	Employability	Device effective sampling techniques for research, Ability to collect data for research
844	FILM STUDIES	1648314	Employability	Identify the elements of film and appreciate the nuances of film making, Ability to critically analyze a film
845	PUBLIC RELATIONS AND CORPORATE COMMUNICATION	1648315	Employability	Enabling the student to be an effective corporate communicator, Develop public relation skills, Ability to design and execute media campaigns



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846	BROADCAST PRODUCTION TECHNIQUES	1648316	Employability	Public speaking skills, Effective Non- Verbal Communication, Ability to conduct interviews
847	TECHNICAL COMMUNICATION	1648317	Employability	Develop designing skills, Develop Image editing Skills, Create content for online platform and print.
848	COMMUNICATION RESEARCH METHOD II	1648419	Employability	Design and conduct research, Data analysis skills
849	CROSS CULTURAL COMMUNICATION	1648420	Employability	Enable student to communicate beyond the cultural barriers, Enhance Negotiation skills
850	MEDIA ANALYSIS TECHNIQUES	1648421	Employability	Analyze Media content, Create meaningful media text
851	PRACTICE JOURNAL	1648423	Employability	Journal Publication, Develop narrative skills in print media
M.Phil Economics - 51				
852	INTRODUCTION TO RESEARCH METHODS IN ECONOMICS	1751101	Skill Development	The student acquires skills to analyse cross section data
853	ECONOMIC THEORY	1751102	Employability	The student learns about the behavior under uncertainty which improves his employment potential.
854	SELECTED ISSUES IN INDIAN ECONOMIC DEVELOPMENT	1751103	Employability	The student learns about the functioning of the Indian economy and the Indian Financial system which improves his employment opportunities.
M.Phil Commerce -52				
855	RESOURCE METHODOLOGY	1752101	Employability	Identify appropriate research topic and to create an understanding on measurement and scaling techniques. Analyse the importance of Hypothesis and apply and test Hypothesis. Evaluating the various Methods of Data collection for business and social science research and conduct pilot study. Processing and Analysing Data using Appropriate Statistical ToolsApply principles of report writing and Draft Dissertation



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856	ADVANCED FINANCIAL MANAGEMENT	1752102	Employability	Generate ideas on appropriate source and application of funds towards effective financial management, Evaluate the various investment options based on specified criteria Identify the various assumptions pertaining to different dividend policies selection of appropriate policy. Assess the factors affecting working capital and its calculation. AdditionaTo deliberate on merger/ acquisition options, and the role of different finaservices. Construct a security portfolio considering relevant theories and their implications. Critically evaluate the impact of financial decisions on the strategic direof the organisation Analyse the company's performance and make proper recommendations.
857	ADVANCED MARKETING	1752103	Employability	Familiarize with the fundamentals of marketing of product, securities, services and market segmentation. Understand the nuances and complexities involved in product, pricing distribution and promotion policies. Analyze the distribution cost and risk management. Demonstrate the marketing ethics and legal provision of marketing, Introduce the concept of Supply Chain Management, Retail Marketing, Branding. Develop market analysis skills to capture market opportunities. Articulate in-depth understanding of a range of contemporary markeissues, theories & practices.
M.Phil Biochemistry -55				
858	RESEARCH METHODOLOGY	1755101	Employability, Skill Development	Employ the correct sampling techniques and use statistical tools appropriate for the same Demonstrate the ability to choose appropriate methods to achieve research aims and objectives Develop advanced critical thinking skills and enhanced scientific writing skills Understand intellectual property rights and how to protect the same
859	ADVANCED BIOCHEMISTRY	1755102	Employability, Skill Development	Understand the major metabolic pathways of carbohydrate, lipid, nucleic acid and amino acid metabolism. Apply modern techniques to investigate interactions between macromolecules (DNA, RNA and proteins). Demonstrate the types of plant and animal tissue culture and can become entrepreneurs
860	DNA TECHNIQUES AND ITS CLINICAL APPLICATIONS	1755103	Employability, Skill Development	Understand the applications of DNA technology in basic and applied experimental biology. Gain Proficiency in designing and conducting experiments involving genetic manipulation. Employ PCR, nucleic acid hybridization and sequencing technologies for detection and diagnostics.



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution

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861	ENZYMES & ENZYME TECHNOLOGY	1755103	Employability, Skill Development	Explore the extraction of enzymes and down streaming process Understand the types and techniques employed in immobilization Learn the principle and application of ELISA and EMIT in clinical analysis, types of biosensor. Biochips and it applications. Exposure to the nature of non-protein enzymes such as ribozymes and abzymes. Explore the role of enzymes in in rDNA technology.
862	PLANT BIOCHEMISTRY & PLANT THERAPEUTICS	1755103	Employability, Skill Development	Explore the chemical events that cause biological phenomena in living organisms Carry out experiments in R & D. Work with Rsearch guides to produce GMO'S.
M.Phil Microbiology -56				
863	RESEARCH METHODOLOGY AND ITS APPLICATIONS	1756101	Employability, Skill Development	At the end of the course, the student will able to •To execute research by applying the principles of research methodology. •To apply various analytical techniques for research. •Explore and recognize the statistical modeling and computer application concepts for research.
864	ADVANCES IN MICROBIOLOGY	1756102	Employability, Entrepreneurship, Skill Development	At the end of the course, the student will able to •Understand the concepts and significance of industrially important products from microbes. •Describe the different biofuels, their advantages and applications. •Exemplify the effect of biomolecules and nanoparticles to imply on innovative applications.
865	INDUSTRIAL AND PHARMACEUTICAL MICROBIOLOGY	1756103	Employability	At the end of the course, the student will able to •Identify the ethics of significant unit processes used in downstream processing for a range of commercially significant products. •Formulate antibiotics, therapeutic enzymes and immunological products and apply Standard procedures in pharmaceutical industry •Build knowledge with the basics of Pharmaceutical safety regulations, control agencies of quality control and gain knowledge about sterilization control
866	BIOREMEDIATION	1756104	Employability	At the end of the course, the student will able to •To understand the importance and concepts of bioremediation process. •Provide appropriate scientific knowledge on real-world applications of bioremediation

PRINCIPAL
 Dwarka Doss Goverdhan Doss
 Vaishnav College
 Arumbakkam, Chennai