



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

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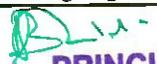
College with Potential for Excellence, Linguistic Minority Institution

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 2018-2019

SL. NO	NAME OF THE COURSE	COURSE CODE	EMPLOYABILITY/ ENTREPRENEURSHIP / SKILL DEVELOPMENT	COURSE OUTCOME
1	BA ECONOMICS (SHIFT I) - 01			
2	MICRO ECONOMICS – I	1801101	Skill Development	The student will understand the basic economic concepts of demand, supply and elasticity which will provide him employment opportunities in the business world
3	STATISTICS – I	1801102	Skill Development	The student will develop basic skills in designing a questionnaire and tabulation of data.
4	ENTREPRENEURIAL DEVELOPMENT	1801110	Employability, Entrepreneurship	The student will understand the steps involved in starting a new venture and the assistance provided by the government
5	PRINCIPLES OF MANAGEMENT	1801104	Employability	The student will be acquainted with the steps involved in the management of an organization and enhance his employment potential.
6	MICRO ECONOMICS – II	1801205	Employability	The student will know about cost, revenue and the functioning of markets and increase his employment potential
7	STATISTICS -II	1801206	Employability, Skill Development	The student will acquire skills in forecasting and construction of index numbers.
8	MARKETING	1801207	Entrepreneurship	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
9	BASIS OF CAPITAL MARKET	1801208	Entrepreneurship	The student will be able to obtain employment in the financial sector
10	INDIAN ECONOMIC DEVELOPMENT AND POLICY-I	1701309	Employability	The student will be understand about the Indian economy and obtain employment
11	MONETARY ECONOMICS-I	1701310	Skill Development	The student will acquire skills in calculation of value of money and index numbers.
12	TOURISM & ECONOMIC DEVELOPMENT	1701311	Employability	The student will obtain employment in the industrial sector.
13	INDIAN ECONOMIC DEVELOPMENT AND POLICY-II	1701412	Employability	The student will understand about the functioning of the industrial sector in India and Tamilnadu economy and enhance his employment potential
14	MONETARY ECONOMICS-II	1701413	Employability	The student will gain knowledge regarding the functioning of commercial banks and Reserve bank and increase his employment potential in the banking sector.
15	ELEMENTS OF INSURANCE	1701414	Employability	The student will learn about the features of the various Insurance policies and get employment as an Insurance Agent.
16	MACRO ECONOMICS - I	1601515	Skill Development	The student will acquire skills in the methods of calculating National Income.
17	FISCAL ECONOMICS - I	1601516	Employability	The student gains knowledge regarding the various types of taxes.


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18	INTERNATIONAL ECONOMICS - I	1601517	Employability	The student learns about tariffs and quotas and increases his employment potential.
19	MANAGERIAL ECONOMICS	1601519	Skill Development	The student gains skills on how to price a product and prepare a capital budget.
20	MACRO ECONOMICS - II	1601620	Employability	The student gains knowledge regarding the macro functioning of the economy.
21	FISCAL ECONOMICS – II	1601621	Employability	the student gains knowledge regarding the macro functioning of the economy.
22	INTERNATIONAL ECONOMICS – II	1601622	Employability	The student gains knowledge regarding the determination of exchange rate which improves his employment opportunity
23	HUMAN RESOURCE MANAGEMENT	1601624	Employability	The student learns about the concepts of HRM which improves his employment prospects.
24	ENVIRONMENTAL ECONOMICS	1601623	Employability, Skill Development	The student learns about methods of improving environment quality and develop skills to calculate subsidies.
B.A., ECONOMICS (SHIFT II) - 02				
25	MICRO ECONOMICS-I	1802101	Skill Development, Entrepreneurship	The students developed the skill of analyzing the various aspects of consumer behavior and short run and long run production.
26	STATISTICAL AND MATHEMATICAL METHODS	1802102	Employability, Skill Development	The students will be able to recall and apply the various concepts of statistics and mathematics and its application in Economics
27	FINANCIAL ACCOUNTING-I	1802103	Employability, Skill Development	The students will have a basic understanding about the basics of accounting and single entry and double entry book-keeping systems
28	ECONOMICS OF TOURISM	1802104	Employability, Skill Development	The course promises employability in various sectors of tourism
29	MICRO ECONOMICS-II	1802205	Employability, Entrepreneurship	The students will gain knowledge on various cost concepts and different types of market structures .
30	STATISTICAL METHODS AND OPERATIONS RESEARCH	1802206	Employability, Skill Development	The students will be aware of various statistical tools and its usage under real market conditions
31	FINANCIAL ACCOUNTING II	1802207	Skill Development	The students will have a basic understanding about the basics of accounting procedures different type of partnership firms.
32	COMPUTER AND ITS APPLICATIONS	1802208	Employability	The course offers working knowledge in different domains and promises employability on the completion of the course
33	MARKETING - I	1702309	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.
34	MONETARY ECONOMICS	1702310	Employability	The course educates the students on the prevailing financial system in the country and also assures employability in the banking sector
35	CORPORATE ACCOUNTING	1702311	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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36	MARKETING II	1702412	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.
37	MANAGERIAL ECONOMICS	1702413	Employability, Entrepreneurship	The students will gain practical knowledge about different concepts like demand forecasting and costing procedures.
38	COST ACCOUNTING	1702414	Employability, Skill Development	The students will theoretical and practical knowledge on different cost concepts
39	MACRO ECONOMICS - I	1602515	Employability, Skill Development	The students will gain in-depth knowledge knowledge in different macro economic concepts and the working of the markets.
40	FISCAL ECONOMICS - I	1602516	Employability	The students will gain knowledge on different concepts of taxation and the course also ensures employability
41	INTERNATIONAL ECONOMICS - I	1602517	Skill Development, Entrepreneurship	The students will gain in-depth knowledge on various concepts of foreign trade
42	HUMAN RESOURCE MANAGEMENT	1602518	Employability, Skill Development	The students will gain knowledge on various practical concepts on job selection and recruitment.
43	INCOME TAX	1602519	Employability, Skill Development	The students will be well aware of various tax related concepts and enables them to attempt various competitive exams
44	MACRO ECONOMICS - II	1602620	Employability, Entrepreneurship	The students will gain in-depth knowledge knowledge in different macro economic concepts and the working of the markets.
45	FISCAL ECONOMICS- II	1602621	Employability	The students will gain knowledge on different concepts on the working of the economyand the course also ensures employability at an administrative level
46	INTERNATIONAL ECONOMICS - II	1602622	Employability, Entrepreneurship	The course educates the students on various international financial agencies and their working and enhances their job opportunities
47	ENTREPRENEURIAL DEVELOPMENT	1602623	Entrepreneurship	The students will be aware of various financial agencies and also encourages entrepreneurship amongst the students.
48	MANAGEMENT ACCOUNTING	1602624	Employability	The students will learn various management accounting concepts and promises employability at various accounting fi
B.B.A. - 03				
49	ACCOUNTING FOR MANAGERS –I	1803101	Employability	The Students will gain knowledge on the basics of accounting and will be able to prepare Journal, ledger, trial balance and cash book
50	PRINCIPLES OF MANAGEMENT	1803102	Employability	The Students will be able to understand the nature, scope, role, levels, functions and approaches of management
51	CONSUMER BEHAVIOUR	1803104	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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52	ACCOUNTING FOR MANAGERS –II	1803205	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
53	E - COMMERCE	1803208	Employability	The Students will be able to understand the framewrok and the business of e-commerce
54	BUSINESS COMMUNICATION	1803206	Skill Development	The course educates the students on the basic and modern communication for Managers in Business
55	FINANCIAL MANAGEMENT	1703309	Employability	The Students will recognize commonly used financial statements, their components and how information from business transactions flows into these statements. They will also be able to analyse ARR, IRR, NPV and PI
56	MARKETING MANAGEMENT	1703310	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. The students will also gain knowledge on the importance of Customer Relationship Management in Marketing.
57	HUMAN RESOURCE MANAGEMENT	1703312	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. They also gain knowledge on Labour Relatons and Human Resource Audit in an organization
58	ADVERTISING MANAGEMENT AND SALES PROMOTION	1703416	Employability	The course eductaes the students on advertising concepts, its implications, sales promotion tools and techniques ,budgetting and its effectiveness
59	BUSINESS STATISTICS	1703415	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 and the analysis of Time Series
60	BUSINESS TAXATION	1603518	Entrepreneurship	The Students will be able o understand the tax system in India and Outline the Tax audit and relevant taxation procedure. They will also gain knowledge on the procedures and issues involved in GST registration



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61	LEGAL ASPECTS OF BUSINESS	1603519	Entrepreneurship	The students will be able to understand the companies Act, incorporation of companies, contract act, sales act and its legal implications
62	ENTREPRENEURIAL DEVELOPMENT	1603520	Entrepreneurship	The Students gain knowledge on the basics of Entrepreneurship, Identify business idea generation techniques, project report writing and to understand the role of EDP in promoting Entrepreneurship
63	SERVICES MARKETING	1603521	Employability	The Students will be able to Understand the concepts of service, growth of service sector, service quality gaps and Demonstrate service marketing with specific sectors
64	ORGANIZATION PSYCHOLOGY	1703312	Entrepreneurship	The Students will be able to Understand the organizational structure, climate, leadership theories and group dynamics
65	BUSINESS ETHICS AND VALUES	1603623	Entrepreneurship	The Students will Understand the significance of ethics, values and types of issues in a business
66	PERSONALITY DEVELOPMENT	1603624	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				
67	PRINCIPLES OF FINANCIAL ACCOUNTING	1804101	Employability,Entrepreneurship,S	Enable learners to get theoretical and practical exposure in the financial accounting which develop the skill enhancement of students
68	BUSINESS MANAGEMENT	1804102	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
69	NME- ESSENTIALS OF LANGUAGE AND COMMUNICATION	1804104	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
70	ADVANCED FINANCIAL ACCOUNTING	1804205	Employability,Entrepreneurship,S	Enable learners to get theoretical and practical exposure in the financial accounting which develop the skill enhancement of students
71	THEORY OF MONEY AND BANKING	1804206	Employability,Entrepreneurship,S	The graduation learners develop a thorough understanding of the fundamentals in banking and insurance area.
72	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



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73	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
74	LEGAL SYSTEM IN BUSINESS	1704310	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.
75	BANKING THEORY LAW AND PRACTICE	1704311	Employability,Entrepreneurship,S	The graduation learners develop a thorough understanding of the fundamentals in banking and insurance area.
76	ENTREPRENEURIAL DEVELOPMENT	1704312	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.
77	COMPUTER APPLICATION IN BUSINESS	1704313	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.
78	ADVANCED CORPORATE ACCOUNTING	1704414	Employability,Entrepreneurship,S	Enables learners to get theoretical and practical exposure in the advanced corporate accounting which develop the skill enhancement of students
79	FINANCIAL SERVICES AND BANCASSURANCE	1704415	Employability,Entrepreneurship,S	The graduation learners develop a thorough understanding of the fundamentals in financial services and bancassurance.
80	PRINCIPLES OF INSURANCE	1704416	Employability,Entrepreneurship,S	The graduation learners develop a thorough understanding of the principles of insurance
81	BANKING ADVANCES	1704417	Employability,Entrepreneurship,S	The graduation learners develop a thorough understanding of the advancement in banking sector
82	PRINCIPLES OF HUMAN RESOURCE MANAGEMENT	1704418	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.
83	ENVIRONMENTAL STUDIES	1713412	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
84	MANAGEMENT ACCOUNTING	1604519	Employability,Entrepreneurship,S	Enables learners to get theoretical and practical exposure in the management accounting which develop the skill enhancement of students
85	INDIRECT TAXES	1604520	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



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86	MARKETING	1604521	Employability,Entrepreneurship,S	The students gain knowledge about the promotion strategy and marketing skills
87	INVESTMENT MANAGEMENT	1604522	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.
88	VISUAL BASIC	1604523	Employability,Entrepreneurship,S	The students gain knowledge about the Payroll Processing and Inventory processing
89	COST ACCOUNTING	1604624	Employability,Entrepreneurship,S	Enables learners to get theoretical and practical exposure in the cost accounting which develop the skill enhancement of students
90	CUSTOMER RELATIONSHIP MANAGEMENT	1604625	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
91	BANKING TECHNOLOGY AND PERSONALITY SKILLS	18604626	Employability,Entrepreneurship,S	The graduation learners develop a thorough understanding in various technology updating in Banking sector
92	MARKETING OF BANKING SERVICES	1604627	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
93	INCOME TAX LAW AND PRACTICE	1604628	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			
94	FINANCIAL ACCOUNTING	1805101	Skill Development	To impart basic accounting knowledge as applicable to business.
95	BUSINESS ECONOMICS	1805102	Employability	To acquaint the students with the economic principles applicable to business.
96	BUSINESS MATHEMATICS - I	1808104	Skill Development	To impart basic knowledge on the application of mathematical techniques for decision making in business
97	NME - BASICS OF RETAIL MARKETING	1805103	Employability	To provide basic understanding of the various trends in retail business and motivate them to take up retailing business as their career
98	ADVANCED FINANCIAL ACCOUNTING	1805205	Skill Development	To impart knowledge on accounting and further focus on the accounting procedures applicable to various forms of business
99	BUSINESS LAWS	1805206	Employability	To provide an understanding of legal environment in which business is conducted.
100	BUSINESS MATHEMATICS - II	1808211	Skill Development	To understand the fundamentals of Business Mathematics and its application in business.
101	NME - FUNDAMENTALS OF INSURANCE	1805207	Employability	To gain insights on the importance of Insurance sector in India



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102	CORPORATE ACCOUNTING I	1705309	Skill Development	To impart knowledge on accounting procedures and standards of Corporate Houses.
103	BANKING THEORY, LAW AND PRACTICE	1705310	Employability	To provide an understanding of legal environment in which business is conducted.
104	PRINCIPLES OF MANAGEMENT	1705311	Employability	To impart knowledge on the conceptual framework of business management.
105	BUSINESS COMMUNICATION	1705312	Employability	To develop effective business communication skills among students
106	BUSINESS STATISTICS & O.R - I	1708322	Skill Development	To gain insights on the application of statistics in business operations
107	CORPORATE ACCOUNTING II	1705413	Skill Development	To enable the students to understand the concept of accounting applicable to certain specific types companies.
108	COMPANY LAW	1705414	Employability	To enable the students to understand the legal environment of the corporate.
109	FINANCIAL SERVICES	1705415	Employability	To provide insights on the role of financial services in the development of the capital market and the economy of the country
110	PRINCIPLES OF MARKETING	1705416	Employability	To acquaint the students about the marketing framework as a means of meeting the needs of customers.
111	BUSINESS STATISTICS & O.R - II	1708427	Skill Development	To gain insights on the application of statistics in business operations.
112	ENVIRONMENTAL STUDIES	1713412	Skill Development	To sensitize students on the issues facing threat to the environment and making them responsible citizens.
113	COST ACCOUNTING	1605517	Skill Development	To explain the basic concepts and the tools used in cost accounting.
114	INDUSTRIAL LAW	1605518	Skill Development	To familiarize the students on the various Acts applicable to Industries.
115	PRINCIPLES OF FINANCIAL MANAGEMENT	1605519	Employability	To explain how finance constitutes the core of any company and emphasize on management of funds



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116	PRACTICAL AUDITING	1605520	Employability	To enlighten the students on the various aspects of audit of business accounts.
117	INCOME TAX LAW & PRACTICE I	1605521	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.
118	MANAGEMENT ACCOUNTING	1605622	Skill Development	To provide an understanding of the application of accounting techniques for management.
119	HUMAN RESOURCES MANAGEMENT	1605623	Entrepreneurship	To examine the various HR practices and techniques.
120	ENTREPRENEURIAL DEVELOPMENT	1605624	Employability	To enable students in understanding the issues pertaining to setting up and running of business.
121	INCOME TAX LAW & PRACTICE II	1605625	Employability, Entrepreneurship	To provide sound knowledge of the important provisions of the Income Tax and their application in solving problems on computation of income.
122	INDIRECT TAXES	1605626	Entrepreneurship	To provide basic knowledge of the important provisions of the Indirect Taxes.
	B.COM CORPORATE SECRETARYSHIP - 06			
123	FINANCIAL ACCOUNTING	1806101	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.
124	BUSINESS MANAGEMENT	1806102	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
125	MARKETING	1806103	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
126	NME - INTRODUCTION TO FINANCIAL MARKETS	1806104	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
127	ADVANCED FINANCIAL ACCOUNTING	1806205	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.



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128	HUMAN RESOURCE MANAGEMENT	1806206	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
129	BUSINESS COMMUNICATION	1806207	Skill Development	At the end of the programme the student will get exposure to business writing, preparation of reports and presentation.
130	NME II FUNDAMENTALS OF INSURANCE	1806208	Employability	At the end of the course the student will be able to explore his knowledge about various insurance practices with different insurance companies
131	CORPORATE ACCOUNTING	1706309	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
132	COMPANY LAW AND SECRETARIAL PRACTICE - I	1706310	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
133	STATISTICS I	1706311	Skill Development	To introduce basic concepts of Statistics, to provide statistical techniques for business data analysis
134	CORPORATE FINANCIAL REPORTING	1706412	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
135	COMPANY LAW & SECRETARIA PRACTICE II	1706413	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
136	STATISTICS II	1706414	Skill Development	The student will be able to understand the Statistical techniques for business data analysis
137	COST ACCOUNTING	1606515	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
138	BANKING THEORY, LAW & PRACTICE	1606516	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



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139	INCOME TAX LAW AND PRACTICE - I	1606517	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
140	COMMERCIAL LAW	1606518	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
141	ENTREPRENEURIAL DEVELOPMENT	1606519	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
142	MANAGEMENT ACCOUNTING	1606620	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
143	INDUSTRIAL LAWS	1606621	Employability	To familiarize the students with various labor legislations, to expose the students' legislations relating to welfare of worker
144	INCOME TAX – LAW AND PRACTICE - II	1606622	Skill Development	To enable a student to understand the remaining part of different heads of income, to enable a student to find taxable income
145	GOODS AND SERVICE TAX & CUSTOMS LAW	1606623	Skill Development / Entrepreneurship	To enable a student to examine the provisions of GST laws for tax planning, student will relate to the impact of GST on the business sector
	BCA - 07			
146	FUNDAMENTALS OF DIGITAL ELECTRONICS	1807101	Employability, Skill Development	1. Express basic concepts and logic circuits. 2. Capable to design different types of digital logic circuit.
147	PROBLEM SOLVING TECHNIQUES	1807102	Employability, Skill Development	1. Distinguish Relevant and Non-Relevant data 2. Recognize Explicit and Tacit assumptions 3. Explore new Possibilities
148	NME - I CONTEMPORARY MANAGEMENT SKILLS	1807103	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	1807205	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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151	MICROPROCESSOR AND ITS APPLICATIONS	1807206	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
152				
153	NME - II LOGICAL AND ANALYTICAL REASONING	1807103	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.
154	OBJECT ORIENTED PROGRAMMING USING C++	1707309	Employability, 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.
155	MULTIMEDIA	1707310	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 2. Ability to understand how the choice of data structures and the algorithm design methods impact the performance. 3. Apply the concepts multimedia in various circumstances
156	DATA STRUCTURES	1707311	Employability, 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.
157	PROGRAMMING IN JAVA	1707414	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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158	OPERATING SYSTEMS	1707415	Employability, Skill Development	<p>1.To understand the main components of an OS & their functions.2.To study the process management and scheduling.</p> <p>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.</p> <p>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.</p>
159	COMPUTER ARCHITECTURE	1707416	Employability, Skill Development	<p>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.</p>
160	DATABASE MANAGEMENT SYSTEMS	1607519	Employability, Skill Development	<p>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</p> <p>3. To understand and use data manipulation language to query, update, and manage a database</p> <p>4.To develop an understanding of essential DBMS concepts such as: database security, integrity, concurrency.5.5.To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.</p>
161	COMPUTER NETWORKS	1607520	Employability, Skill Development	<p>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).</p> <p>3.To clarify network terminology.</p> <p>4.To provide an opportunity to do network programming using TCP/IP.</p> <p>5.To give the students experience working in programming teams.</p> <p>6.To provide a WLAN measurement experience.</p> <p>7.To expose students to emerging technologies and their potential impact.</p>



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162	COMPUTER GRAPHICS	1607521	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
163	ELECTIVE 1 SOFTWARE ENGINEERING	1607522	Employability, Skill Development	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
164	ELECTIVE 1 OBJECT ORIENTED ANALYSIS AND DESIGN	1607522	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
165	ELECTIVE 1 DATA MINING	1607522	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.



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166	.NET PROGRAMMING	1607625	Employability, Skill Development	1.Set up a programming concept using the basic knowledge of HTML2.To learn the data types, different controls inVB.NET 3.Creating ASP.Net applications using standard .net controls to develop a data driven web application for connecting to data sources and managing them.4.To maintain session and controls related information for user used in multi-user web applications.5.To Understand the fundamentals of developing modular application by using object oriented methodologies6.Course outcome s: At the end of course, the student will be able
167	PHP PROGRAMMING	1607626	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
168	DESIGN AND ANALYSIS OF ALGORITHMS	1607627	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
169	ELECTIVE 2 MOBILE COMPUTING	1607628	Employability, Skill Development	1. Able to create Applications for Smart Phones.2.Able to integrate mobile applications with cloud applications
170	ELECTIVE 2 CLIENT-SERVER COMPUTING	1607628	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.



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171	ELECTIVE 2 OPERATION RESEARCH	1607628	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				
172	CLASSICAL ALGEBRA	1808101	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
173	DIFFERENTIAL CALCULUS	1808102	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.
174	TRIGONOMETRY	1808208	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
175	INTEGRAL CALCULUS	1808209	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.
176	DIFFERENTIAL EQUATIONS	1708317	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.
177	VECTOR CALCULUS AND ANALYTICAL GEOMETRY OF THREE DIMENSIONS	1708422	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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178	ALGEBRAIC STRUCTURES	1608527	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
179	OPERATIONS RESEARCH-I	1608531	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.
180	OPERATIOS RESEARCH II	1608636	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.
B.SC. PHYSICS -09				
181	MECHANICS AND PROPERTIES OF MATTER	1809101	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.
182	THERMAL PHYSICS AND ACOUSTICS	1809204	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.
183	OPTICS	1709309	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.
184	ATOMIC PHYSICS	1709411	Employability	This course provides the coherent and concise coverage of the atomic structure, spectra and the applications related to their studies.
185	ELECTRICITY AND ELECTROMAGNETISM	1609515	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.



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186	MATHEMATICAL METHODS IN PHYSICS	1609516	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.
187	SOLID STATE PHYSICS	1609517	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
188	BASIC ELECTRONICS	1609518	Employability/Entrepreneurship	By studying this course the students will acquire the theoretical and practical knowledge on semiconductor devices and their working.
189	APPLIED ELECTRONICS	1609519	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.
190	RELATIVITY AND QUANTUM MECHANICS	1609620	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.
191	NUCLEAR AND PARTICLE PHYSICS	1609621	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.
192	DIGITAL ELECTRONICS	1609622	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.
193	MICROPROCESSOR FUNDAMENTALS	1609623	Employability/Entrepreneurship/ Skill Development	At the end of this course the students are expected to assimilate the basic concepts of microprocessor.
194	ALLIED PHYSICS I - (FOR B.SC CHEMISTRY STUDENTS)	1709310	Employability	They possess basic knowledge of programming instructions and interfacing concepts. Tghey can demonstrate relevant generic skills and global competencies such as problem-solving skills and tackle open ended problems.
195	ALLIED PHYSICS II - (FOR B.SC CHEMISTRY STUDENTS)	1709412	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.
196	ALLIED PHYSICS I - (FOR B.SC MATHS STUDENTS)	1809102	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.



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197	ALLIED PHYSICS II - (FOR B.SC MATHS STUDENTS)	1809205	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.
198	PHYSICS IN EVERYDAY LIFE – I	1809103	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.
199	PHYSICS IN EVERYDAY LIFE – II	1809206	Employability/Skill Development	After completing this course the student will gain confidence in relating the law of nature and daily life.
200	CORE PRACTICAL I	1809207	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.
201	CORE PRACTICAL II	1709413	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.
202	CORE PRACTICAL III	1609624	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 .
203	CORE PRACTICAL IV	1609625	Skill Development	At the end of this course the students acquire the practical knowledge to design basic electrical circuits, digital electronics circuitry etc.
204	CORE PRACTICAL V	1609626	Skill Development	This course provide the practical knowledge to the students to design electronic circuits using operational amplifier, microprocessor and related software.
205	ALLIED PHYSICS PRACTICALS- (FOR B.SC CHEMISTRY STUDENTS)	1709414	Skill Development	This course helps the students to plan and execute Physics related experiment, analyze and interpret the data collected using appropriate methods
206	ALLIED PHYSICS PRACTICALS- (FOR B.SC MATHS STUDENTS)	1809208	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				
207	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.



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208	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.
209	ANALYTICAL CHEMISTRY	1610517	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.
210	APPLIED CHEMISTRY	1610622 (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				
211	NUTRITIONAL BIOCHEMISTRY	1811101	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
212	CHEMISTRY I	1811102	Employability/Skill Development	Firm foundation in the fundamentals/concepts/theories and its applications in solution chemistry. Learn about various dimensions and units used for basic chemical calculations. Understand the concept related to material balance for systems with and without chemical reactions.
213	BASICS OF MEDICAL TERMINOLOGIES	1811103	Employability/Skill Development	Apply Medical Terms in Health Sectors or Medical Reports preparation. Analyze The Functions of Different Parts of Human body. Interpret Normal Values Of Metabolic Parameters in laboratory diagnosis.
214	CELL BIOLOGY	1811204	Employability/Skill Development	Comprehend the structure of prokaryotic and eukaryotic cells and function of their cell organelles. Understand the structure, composition and function of cytoskeleton and extracellular matrix. Explain the ultrastructure of biomembrane and the transport mechanism displayed by it.
215	CHEMISTRY II	1811205	Employability/Skill Development	Realize the concepts of chemistry of coordination compound and Bio inorganic chemistry. Apply the knowledge gained in Industry related Jobs. understand and apply concept of ionic equilibria, salt hydrolysis and buffer solution.



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216	PLANT BIOACTIVE COMPOUNDS IN TRADITIONAL MEDICINE.	1811206	Skill Development	Discuss the plants used in traditional medicine of Ayurveda, siddha, Unani and Greek medicine. Identify the plants used in the treatment of diabetes, arthritis and immune modulation Analyse the plants with different biochemical techniques
217	BIO-INSTRUMENTATION - I	1711309	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.
218	MICROBIOLOGY - I	1711310	Employability/Skill Development	Understand about the microorganisms and its nature. Demonstrate staining procedures. Measure the growth of microorganisms and apply the knowledge in food , Water industry.
219	BIO-INSTRUMENTATION - II	1711411	Employability/Skill Development	Study the interactions of electromagnetic radiation and estimate the biomolecules using UV spectroscopy. Understand safety measures in handling radio isotopes, measure radioactivity using GM counter and Scintillation counter. Understand the basic concepts of computers and use it for education purpose.
220	MICROBIOLOGY - II	1711412	Employability/Entrepreneurship/Skill Development	Understand about the microorganisms and its nature. Demonstrate staining procedures. Measure the growth of microorganisms and apply the knowledge in food , Water industry.
221	ENZYMES	1611515	Employability/Skill Development	Gain fundamental knowledge about the nature, properties, nomenclature and classification of enzymes and coenzymes. Analyze factors affecting enzyme activity, deduce Michaleis Menten equation and apply the understanding on enzyme inhibition in medicine and industry. Relate the use of enzymes and immobilized enzymes in industry.
222	INTERMEDIARY METABOLISM -I	1611516	Employability/Skill Development	Explain how carbohydrates get metabolized in the body via glycolysis, TCA cycle and how we derive energy from it. Understand how ATP is formed through Electron transport chain and oxidative phosphorylation. Describe the metabolism of lipids and nucleic acids.
223	PHYSIOLOGY	1611517	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
224	NUTRITIONAL BIOCHEMISTRY	1611518	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



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225	COMPUTATIONAL METHODS FOR BIOCHEMISTRY	1611519	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.
226	MOLECULAR BIOLOGY	1611620	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
227	CLINICAL BIOCHEMISTRY	1611621	Employability/Entrepreneurship/Skill Development	Understand the pathophysiological processes responsible for common biochemical disorders of carbohydrate, lipid, protein and nucleic acid metabolism Apply the knowledge in lab report analysis during various organ function tests. Clinically assess the role of serum enzyme and isozyme indicators in pathological condition and diseases of heart, bone and liver.
228	IMMUNOLOGY	1611622	Employability/Skill Development	Illustrate various mechanisms that regulate immune responses and maintain tolerance. Apply basic technique to identify Antigen antibody reactions in disease diagnosis. Gain Knowledge in immunological techniques and same can be used in Vaccine production, diagnosis of disease.
229	INTERMEDIARY METABOLISM -II	1611623	Employability/Skill Development	Gain knowledge on the metabolism of amino acids and formation of urea. Understand the catabolic pathways of purine and pyrimidine. Understand the clinical significance of faay acid metabolism.
230	TECHNIQUES IN MOLECULAR BIOLOGY	1611624	Employability/Entrepreneurship/Skill Development	Explain the principles of molecular cloning and PCR, cell transfection and Western blotting. Follow the general safety routines in molecular biology laboratory. Use instrumentation and gene technology methods for separation and analysis of proteins and nucleic acids
B.SC., BIOTECHNOLOGY - 12				
231	CELL BIOLOGY	1812101	Employability, Skill Development	The student will be able to gain knowledge in structure, function and metabolic processes of cell.
232	MICROBIOLOGY	1812102	Employability, Entrepreneurship,	The student will be able to understand various microorganisms and their applications in various fields of biotechnology
233	HERBAL MEDICINE	1812103	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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234	DEVELOPMENTAL BIOLOGY	1812204	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
235	Chemistry	1812205	Employability	The student will be able to understand the basic concepts and principles of atoms, molecules and carbohydrates
236	FOOD TECHNOLOGY	1812206	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.
237	GENETICS	1712209	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
238	BIOCHEMISTRY	1712210	Employability, Entrepreneurship	Students will be able to understand about the biomolecules and its role in various metabolic processes.
239	GENETIC ENGINEERING	1712311	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
240	BIOANALYTICS AND BIOSTATISTICS	1712312	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
241	IMMUNOLOGY	1612520	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
242	BIOINFORMATICS	1612624	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
243	MICROBIAL BIOPROCESS TECHNOLOGY	1612625	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
244	PHARMACEUTICAL BIOTECHNOLOGY	1612521	Employability, Entrepreneurship,	Students will be able to understand the action of drugs in system and by system, drug designing and basics of gene therapy
245	MARINE BIOTECHNOLOGY	1612522	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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246	AGRICULTURAL BIOTECHNOLOGY		Employability, Skill Development	The students will be able to understand the role of biotechnology in developing plants that have resistance to biotic and abiotic stress, promote plant growth by plant growth promoting microorganisms and application of transgenic crops along with its ethical issues
247	ANIMAL BIOTECHNOLOGY AND STEM CELL BIOLOGY	1612518	Employability, Skill Development	: Students will be able to gain knowledge about animal tissue culture, strategies of gene transfer and various types of stem cells
248	PLANT BIOTECHNOLOGY	1612413	Employability, Entrepreneurship,	Students will be able to understand various components required for plant tissue culture and recombinant technology in plants
249	ENVIRONMENTAL BIOTECHNOLOGY	1612519	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
250	INTELLECTUAL PROPERTY RIGHTS, BIOSAFETY AND BIOETHICS	1612626	Employability,	Students will be able to understand the importance of Intellectual property rights, biosafety and bioethics in biotechnology
251	INDUSTRIAL BIOTECHNOLOGY	1712626	Employability, Skill Development	The students will be able to understand about various biotechnology industries and the different industrial products produced by using biotechnological methods.
252	MEDICAL BIOTECHNOLOGY		Employability, Skill Development	To familiarize the role and importance of various biotechnological concepts in the field of medical applications.
B.SC., PLANT BIOLOGY - 13				
253	HORTICULTURE AND MUSHROOM CULTIVATION	1613519/1613517	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
B.SC., VISUAL COMMUNICATION - 14				
254	ART AND AESTHETICS	1814102	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.
255	DRAWING	1814104	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.
256	GRAPHIC DESIGN	1814105	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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257	WRITING FOR MEDIA	1814206	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.
258	PSYCHOLOGY OF MEDIA	1814207	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.
259	MURAL PAINTING	1814208	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.
260	DRAWING II	1814209	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.
261	GRAPHIC DESIGN-II	1814210	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.
262	COMPUTER GRAPHICS	1714313	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.
263	PHOTOGRAPHY	1714314	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.
264	ADVANCED PHOTOGRAPHY	1714416	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.
265	MULTIMEDIA	1714417	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.



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266	DIGITAL CINEMATOGRAPHY	1714418	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.
267	AUDIO VISUAL TECHNIQUES	1614522	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.
268	3DS MAX AND MAYA	1614524	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				
269	OBJECT ORIENTED PROGRAMMING USING C++	1815205	Employability, Skill Development	1. Discuss and elaborate the concept of OOPs. 2. Analyze the problem and apply the retreated concept in Application areas. 3. Usage of pointers and Outline of files.
270	JAVA PROGRAMMING	1715309	Employability, Skill Development	1. Use an integrated development environment to write, compile, run, and test simple objectoriented 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.
271	WEB DESIGN	1715310	Employability, Skill Development	1. Able to classify the HTML Tags and DHTML Style Sheets 2. Able to create webpages using JavaScript Document Object Model and Event Handling.
272	PROGRAMMINIG IN PHP	1715621	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
273	PYTHON PROGRAMMING	1715622	Employability, Skill Development	1. To acquire programming skills in core Python 2. Apply the OOP concept in Python



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274	ASP.NET PROGRAMMING	1715518	Employability, Skill Development	1. Able to use ASP.NET controls in web applications 2. Apply the concept to create database driven ASP.NET web applications and web services 3. To create applications that use ADO.NET, cookies and web services
	M.COM - 20			
275	ADVANCED CORPORATE ACCOUNTING I	1820101	Skill Development	To impart profound knowledge on accounting procedures and standards of corporate houses.
276	FINANCIAL MANAGEMENT	1820102	Employability	To enable students to acquire knowledge on various tools and techniques in making sound financial decisions.
277	CONSUMER BEHAVIOUR	1820103	Employability	To understand the strategic implications of consumer influences on marketing decisions.
278	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1820104	Employability	To introduce the concept and impact of Logistics and Supply Chain Management with a competitive strategy overview.
279	ADVANCED STATISTICS	1821106	Skill Development	To acquaint students on various advanced statistical techniques applicable in business.
280	ADVANCED CORPORATE ACCOUNTING II	1820205	Skill Development	To enable students in understanding the application of various accounting standards.
281	SERVICE MARKETING	1820206	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.
282	CORPORATE LAWS	1820207	Employability	To gain insight on the various concepts and laws pertaining to corporate houses.
283	CORPORATE GOVERNANCE, ETHICS, AND RESPONSIBILITY OF BUSINESS	1820208	Employability	To educate students on corporate governance and business ethics.
284	RESOURCE MANAGEMENT TECHNIQUE	1821212	Skill Development	To enable students acquire knowledge on various techniques and models relevant in managing resources of the organization.
285	ACCOUNTING FOR MANAGERS - I	1720309	Skill Development	To impart knowledge on various advanced techniques and systems used in cost accounting.
286	RESEARCH METHODOLOGY	1720310	Skill Development	To impart in-depth insights on various methods used in Research
287	TAX MANAGEMENT - DIRECT TAX	1720311	Employability	To impart knowledge of the important provisions pertaining to Direct Taxes.
288	MANAGERIAL ECONOMICS	1720312	Employability	To focus on the application of Economics in Managing Business
289	INDIA'S FOREIGN TRADE AND INVESTMENT	1720313	Employability	Outcome of this course is to acquaint the students with structure and policy framewok of India's Foreign Trade and Investment.
290	ACCOUNTING FOR MANAGERS - II	1720416	Skill Development	To impart indepth knowledge in application of Management tools in Business.



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291	ADVERTISEMENT AND SALESMANSHIP	1720417	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.
292	ORGANIZATIONAL BEHAVIOUR	1720418	Employability	To understand and appreciate individual and group behavior in an organization.
293	INDIRECT TAXES	1720419	Employability	To impart knowledge of the important provisions pertaining to Indirect Taxes.
M.SC., MATHEMATICS - 21				
295	PROBABILITY THEORY	1821103	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.
296	MATHEMATICAL STATISTICS	1821210	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.
297	GRAPH THEORY	1821104	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.
298	FUZZY SETS AND THEIR APPLICATIONS	1821211	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.
299	NUMBER THEORY AND CRYPTOGRAPHY	1721317	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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302	ALGEBRA-I	1721101	Employability	The Student will be able to explain Quadratic forms with suitable examples and apply them to problems
303	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.
304	NUMERICAL ANALYSIS	1821105	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.
305	ALGEBRA-II	1821207	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
306	REAL ANALYSIS-II	1821208	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 .
307	DIFFERENTIAL EQUATIONS	1821209	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.
308	COMPLEX ANALYSIS-I	1721313	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
309	TOPOLOGY	1721314	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.
310	MECHANICS	1721315	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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311	DIFFERENTIAL GEOMETRY	1721316	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.
312	COMPLEX ANALYSIS-II	1721418	Employability	(i) Determine the infinite product representation of Riemann zeta function and explore Riemann mapping theorem for simply connected regions.
313	FUNCTIONAL ANALYSIS	1721419	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.
314	TENSOR ANALYSIS AND THEORY OF RELATIVITY	1721420	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.
315	FLUID DYNAMICS	1721421	Employability	(i) Restate the kinematics of a moving fluid. (ii) Demonstrate the applications of Milne Thomson Circle theorem with examples.
316	INTEGRAL EQUATIONS AND CALCULUS OF VARIATIONS	1721422	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
317	MATHEMATICAL PHYSICS I	1822101	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.
318	CLASSICAL MECHANICS AND RELATIVITY	1822102	Employability/Entrepreneurship/ Skill Development	At the end of the Course, the Student will be able to: The Corlios force in classical mechanics, the significance of conservation laws. Basic ideas about four vectors, Minkowski space. Dynamics of and ideas regarding Eigen values.
319	QUANTUM MECHANICS I	1822103	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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320	INTEGRATED ELECTRONICS	1822104	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.
321	MATHEMATICAL PHYSICS II	1822205	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.
322	QUANTUM MECHANICS II	1822206	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
323	ELECTIVE PAPER I - SPECTROSCOPY	1822207	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
324	EXTRA DISCIPLINARY PAPER I - MICROPROCESSOR FUNDAMENTALS - 8085	1822208	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
325	STATISTICAL MECHANICS	1722311	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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326	ELECTROMAGNETIC THEORY & PLASMA PHYSICS	1722312	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
327	ELECTIVE II - MICROPROCESSOR 8086 AND MICROCONTROLLER 8051	1722313	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
328	EXTRA DISCIPLINARY PAPER II - MATERIALS SYNTHESIS AND CHARACTERIZATION	1722314	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
329	CONDENSED MATTER PHYSICS	1722415	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
330	NUCLEAR AND PARTICLE PHYSICS	1722416	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
331	ELECTIVE III - COMPUTATIONAL METHODS AND C PROGRAMMING	1722417	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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332	BIOMOLECULES	1824101	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
333	INTERMEDIARY METABOLISM	1824102	Employability/Skill Development	Acquire adequate knowledge in various pathways in intermediary metabolism and bioenergetics. Apply the knowledge in Clinical applications. Acquire knowledge about the metabolism of various macromolecules.
334	PLANT BIOCHEMISTRY	1824103	Employability/Entrepreneurship	Discuss Secondary Metabolites In Plants Illustrate Nitrogen Fixation By Symbiosis Biochemistry Of Nitrogen Fixation Evaluate The Anti Oxidant Defense In Plants
335	ENZYMES	1824104	Employability/Skill Development	Enhances their ability in characterization of enzymes and used in R & D industries. Develop new enzymes using available raw materials. Gain knowledge on role of cofactors
336	MEMBRANE BIOCHEMISTRY	1824105	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
337	ANALYTICAL BIOCHEMISTRY	1824206	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.
338	HUMAN PHYSIOLOGY & NUTRITION	1824207	Employability/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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339	MOLECULAR BIOLOGY	1824208	Employability/Skill Development	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. Acquire skills in molecular biology techniques
340	BIOTECHNOLOGY	1824409	Employability/Entrepreneurship/ Skill Development	Learn the basis of genetic engineering and its applications in health, medicine, agricultural and environmental biotechnology and its impact on society Apply the technical skills learnt to set up nurseries for agriculture related activities. Apply the knowledge of IVF in hospitals.
341	BIOETHICS, IPR & HR	1824210	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.
342	CLINICAL BIOCHEMISTRY	1724313	Employability/Entrepreneurship/ Skill Development	Become clinical researcher , clinical Trials and related documentation preparation personnel. Become Entrepreneurs by setting up their own clinical laboratories.
343	BIOSTATISTICS	1724314	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.
344	MICROBIOLOGY	1724315	Employability/Entrepreneurship/ Skill Development	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.
345	CELL & MOLECULAR ENDOCRINOLOGY	1724316	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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346	BIOCHEMISTRY OF CLONING VECTORS	1724317	Skill Development	Develop an understanding of several cloning vectors Design a workflow to carry out recombinant DNA technology experiment. Acquire skills to work in life science related research Institutes.
347	BIOTECHNOLOGY	1724418	Employability/Entrepreneurship/ Skill Development	"Learn the basis of genetic engineering and its applications in health, medicine, agricultural and environmental biotechnology and its impact on society Apply the technical skills learnt to set up nurseries for agriculture related activities. Apply the knowledge of IVF in hospitals."
348	IMMUNOLOGY	1724419	Employability/Skill Development	Understanding of the overview of immune system including cells, organs and vaccines. Expertise in testing Immunological kits. carry out and analyze tests on patients with a range of immune system disorders.
349	BIOINFORMATICS	1724420	Employability/Skill Development	Search large databases, interpret their results during higher studies. Analyze gene expression data from microarrays or RNA sequencing in life science related jobs. Perform alignment using different alignment tools and interpret it in study of evolution.
M.SC., BIOTECHNOLOGY - 25				
350	BIOCHEMISTRY AND BIOMOLECULES	1825101	Employability, Skill Development	The students would learn about composition, structure and functions of biomolecules. Students will understand about various metabolic pathways and importance of biochemistry.
351	MICROBIOLOGY AND IMMUNOLOGY	1825102	Employability, Entrepreneurship,	The students will get basic knowledge about the common most pathogenic microbes and its virulence factors, the immune system and its functions.
352	MOLECULAR CELL BIOLOGY	1825103	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
353	MOLECULAR GENETICS	1825104	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.
354	DEVELOPMENTAL BIOLOGY	1825105	Employability, Skill Development	The students will get introduced to animal development and places special emphasis on vertebrate development. The students will be able to know cellular mechanisms in embryology, essential for doing research in developmental biology field.



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355	FOOD BIOTECHNOLOGY	1825105	Employability, Entrepreneurship, Skill Development	The students will be able to understand application of biotechnology in Food processing industries. They understand the basic fundamental food quality and control procedures.
356	ANIMAL BIOTECHNOLOGY AND STEM CELL	1825206	Employability, Skill Development	The student gets exposed to the application of culture techniques to improve the quality and quantity of the animal derived product. They will obtain the knowledge on stem cell regeneration therapies and artificial organs.
357	PLANT BIOTECHNOLOGY	1825207	Employability, Entrepreneurship, Skill Development	The students 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.
358	GENETIC ENGINEERING	1825208	Employability, Entrepreneurship, Skill Development	The student will be able to understand the concepts and knowledge about genetic engineering and rDNA technology, molecular techniques involved in it.
359	BIOINFORMATICS	1825209	Employability, Entrepreneurship, Skill Development	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.
360	MARINE BIOTECHNOLOGY	1825210	Employability, Entrepreneurship, Skill Development	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.
361	AGRICULTURAL BIOTECHNOLOGY		Employability, Skill Development	The students will be able to understand the role of biotechnology in developing plants that have resistance to biotic and abiotic stress, promote plant growth by plant growth promoting microorganisms and application of transgenic crops along with its ethical issues
362	MICROBIAL BIOPROCESS TECHNOLOGY	1725313	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.
363	ENVIRONMENTAL BIOTECHNOLOGY	1725315	Employability, Entrepreneurship, Skill Development	The students will be able to learn the techniques involved in environmental sustainability and learn about the microbes prevailing in the environment with beneficial qualities.
364	PHARMACEUTICAL BIOTECHNOLOGY	1725316	Employability, Entrepreneurship, Skill Development	The students understand the basic concepts, scope and applications of Pharmacology, drug designing and gene therapy



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365	-ADVANCED MOLECULAR TECHNIQUES	1725317	Employability, Skill Development	The students will be able to understand the principles of various molecular techniques, imaging and diagnostic techniques and their clinical application
366	MEDICAL BIOTECHNOLOGY		Employability, Skill Development	To familiarize the role and importance of various biotechnological concepts in the field of medical applications.
367	RESEARCH METHODOLOGY, BIOETHICS& BI	1725419	Employability, Skill Development	The students gain the knowledge to identify the overall process of designing a research study and able to identify research problem stated in a study. Students will know about the bioethical issues concerning the reproduction is to be inculcated broadly without any gender bias.
368	TISSUE ENGINEERING	1725418	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., MICROBIOLOGY - 26				
369	FUNDAMENTALS OF MICROBIOLOGY AND MICROBIAL PHYSIOLOGY	1826101	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.
370	MEDICAL MICROBIOLOGY - I	1826102	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.
371	BASICS IN IMMUNOLOGY AND IMMUNOTECHNOLOGY	1826103	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.



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372	MOLECULAR BIOLOGY AND MICROBIAL GENETICS	1826104	Employability, Skill Development	<p>At the end of the course, the student will be able</p> <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.
373	BIOINFORMATICS	1826105	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.
374	FORENSIC BIOLOGY	1826106	Employability, Entrepreneurship, Skill Development	<p>At the end of the course, the student will be able</p> <ul style="list-style-type: none">• To enhance knowledge, in-depth understanding, scope and application of forensic science.• To develop skills in detection of forensic evidence.• To stay in par with recent developments and emerging trends in the field of forensic science.
375	FOOD, DAIRY AND INDUSTRIAL MICROBIOLOGY	1826208	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
376	MEDICAL MICROBIOLOGY - II	1826210	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.



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377	SOIL AND AGRICULTURAL MICROBIOLOGY	1826209	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.
378	PHARMACEUTICAL MICROBIOLOGY	1826211	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.
379	TISSUE BIOTECHNOLOGY	1826212	Employability, Entrepreneurship	<p>At the end of the course, the student will be able</p> <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.
380	RESARCH METHODOLOGY AND BIOSTATISTICS	1826213	Employability, Entrepreneurship, Skill Development	<p>At the end of the course, the student will be able</p> <ul style="list-style-type: none">•To execute an outline for designing a research study and preparing a report following plagiarism ethics.•To Examine and comprehend various types of statistical analysis and tests used to analyze biological data.
381	BIOINSTRUMENTATION	1726316	Employability	<p>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.</p>



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382	RECOMBINANT DNA TECHNOLOGY	1726317	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.
383	ENVIRONMENTAL MICROBIOLOGY	1726318	Employability, Entrepreneurship	On the onset, the student will be able to understand the key habitats present in Earth's ecosystems, emphasizing their superiority over humans, animals, and plants. Outline the structure of food webs and trace the movement of energy across an ecosystem by drawing linkages between predator and prey populations, to describe the diversity of microorganisms in the air and their importance. This creates environmental awareness and key environmental changes such as global warming, greenhouse impact, and ozone depletion.
384	BIOPROCESS TECHNOLOGY	1726319	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.
385	NANOBIOTECHNOLOGY	1726320	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 characterization techniques.
386	MICROBIAL PRODUCTS	1726422	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.
387	BIOSAFETY AND CLINICAL RESEARCH	1726423	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.
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388	DESIGN AND ANALYSIS OF ALGORITHMS	1827101	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
389	PROGRAMMING IN PYTHON	1827102	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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390	COMPUTER NETWORKS	1827103	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.
391	PROGRAMMING IN PHP	1827104	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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392	OBJECT ORIENTED SOFTWARE ENGINEERING	1827105	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 diagram3Concepts 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.
393	DIGITAL IMAGE PROCESSING	1827208	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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394	ADVANCED DATABASE MANAGEMENT SYSTEMS	1827209	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
395	ENTERPRISE COMPUTING	1827210	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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396	DATA WAREHOUSING AND DATA MINING	1827211	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.
397	WAP AND XML	1827212	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.
398	SOFT COMPUTING	1727315	Skill Development	<ol style="list-style-type: none">1.Gain basic knowledge of Artificial Neural Network, Fuzzy logic and Genetic algorithms2.Analyse different neural network architectures3.Get insight into classical sets and fuzzy sets4.Develop the concepts of fuzzy relations and fuzzy propositions5.Gain knowledge of Genetic algorithms and the various operators6.Gain knowledge of various Algorithms



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399	INTERNET TECHNOLOGY	1727316	Employability, Entrepreneurship	<ol style="list-style-type: none">1.Acquire the knowledge of .NET environment. Expertise the fundamental concepts in developing the basics of C# programming2.Develop, compile and execute console application in C# using object-oriented concepts. Construct console application in C# program using delegates and events3.Build a web application in ASP.NET using webserver controls4.Demonstrate web application with database connectivity5.Integrate web application using cookies, sessions and web services6.Create a complete web Application for real-time situations
400	CLOUD COMPUTING	1727317	Employability, Skill Development	<ol style="list-style-type: none">1.Articulate the main concepts, key technologies, strengths, and limitations, the current and future challenges of cloud computing. Analyse various cloud deployment models and their issues on the cloud.2.Identify the architecture and infrastructure of various cloud services including SaaS, PaaS, and IaaS and apply them to develop a applications.3.Analyse the implications of cloud collaboration with other applications.4.Design and develop various algorithms using tools for virtualization in cloud computing and acquire the knowledge of doing research.5.Assess cloud Storage systems and Cloud security, the risks involved, its impact and develop secure cloud applications.6.Develop and deploy cloud applications using modern tools and techniques based on the organizational needs.



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401	BIG DATA ANALYTICS	1727318	Employability	<ol style="list-style-type: none">1.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.2.Develop HDFS environment using NOSQL. Implementing the queries. Aggregate the data using NOSQL3.Concept of basic Hadoop, data format and analysing the data in the HDFS environment. Implementing the concept Hadoop pipes and implementations and java interfaces. Significance of various methods of compression, serialization4.Apply Mapreduce applications, unit test , MRUnit, Create file using Mapreduce sorting and shuffling process. Creating input and output format of Mapreduce.5.Usage Hadoop related tools. Definition of hbase,Hbase clients, Cassandra, Pig, HiveQL. Life Build data manipulation byHiveQL queries.6.Analyze Life Build data manipulation byHiveQL queries.
402	CRYPTOGRAPHY	1727319	Employability, Skill Development	<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
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403	OPERATING SYSTEM.	1828101	Skill Development	<ol style="list-style-type: none">1.Basic concepts of operating system, process management, Threads - Interprocess Communication. CPU Scheduling2.Discuss various Process Synchronization problems, critical region and monitors3.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
404	COMPUTER ORGANIZATION AND ARCHITECTURE.	1828102	Skill Development	<ol style="list-style-type: none">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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405	DATABASE MANAGEMENT SYSTEMS.	1828103	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>
406	PRINCIPLES OF PROGRAMMING LANGUAGES	1828104	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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407	LINUX SYSTEM ADMINISTRATION	1828105	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
408	DATA STRUCTURES AND ALGORITHMS	1828208	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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409	COMPUTER NETWORKS	1828209	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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410	MICROPROCESSOR AND MICROCONTROLLER	1828210	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.
411	PROGRAMMING IN PHP	1828211	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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412	OBJECT ORIENTED SOFTWARE ENGINEERING	1828212	Employability	<p>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.</p> <p>2.Develop System Concepts for Object Modelling Design and implement a software design concept to meet desired needs and Requirements.</p> <p>3.Design the UML concepts like sequential, Use cases and Activity diagram Concepts of Use cases, actors, and common modelling techniques.</p> <p>4.Implementing the concept use cases, business actors, Significance of identifying the subsystems and business requirements</p> <p>5.Explain Design Workflow and System Design Concept Create Mapping Object Model to Database Schema Testing and verification process Creation.</p> <p>6.Usage of Software Configuration Management Definition and Types of maintenance Life Build Reverse and re-engineering process.</p>
413	ENTERPRISE COMPUTING	1728315	Skill Development,Employability	<p>1.Understand various concepts of Enterprise Computing, analyze and implement the RMI Architecture for the necessary applications.</p> <p>2.Implement Session management using Servlet and implement JDBC for the database connectivity.</p> <p>3.Develop Web applications using JSP and JSP error pages.</p> <p>4.Design an application that sends and receives email with attachments.</p> <p>5.Implement Database connectivity through Hibernate Framework and also build web applications using Spring MVC.</p> <p>6.Study and use modern tools for rapidly building enterprise applications.</p>



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414	PROGRAMMING IN PYTHON	1728316	Employability	<ol style="list-style-type: none">1.To acquire basic programming skills of Python programming language.2.To develop applications using python sequence.3.Implement basic object oriented concepts like inheritance and polymorphism.4.Develop GUI applications using PyGTK. and GUI applications.5.To have basic knowledge of implementing data science in python.6.To use python as a tool for research. <p>"</p>
415	DATA WAREHOUSING AND DATA MINING	1728317	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.



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416	SOFTWARE TESTING	1728318	Employability	<p>1. Discuss about the concept of bugs and analyses the principles in software testing to prevent and remove bugs.</p> <p>2. Discuss about domains and path</p> <p>3. Analyze Linguistic and Structural Metric</p> <p>4. Discuss about Verification and Validation. Analyse various levels of Testing, Testing Approaches, and Types of Testing & Test Plan. Analyse Defect Management</p> <p>5. Discuss about Acceptance testing and special test.</p> <p>6. Analyze various automation testing tools.</p> <p>Gain the knowledge about various testing tools.</p>
417	CRYPTOGRAPHY	1728319	Skill Development, Employability	<p>1. Gain knowledge about Conventional encryption model</p> <p>2. Analyse Euclidean Algorithm and Number theory</p> <p>3. Understanding Key exchanges.</p> <p>4. Detailed representation of Hashing functions.</p> <p>5. Describe the various Digital signatures logic.</p> <p>6. Apply different encryption and decryption techniques</p>
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418	Programming in Java	1829101	Employability, Skill Development	<p>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</p>
419	Computer Organization and Architecture	1829102	Employability, Skill Development	<p>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.</p>
420	Management Information System	1829103	Employability, Skill Development	<p>Interpret and recommend Electronic Commerce Fundamentals and Applications. Apply a framework and process for aligning organization's IT objectives with business strategy.</p>
421	Operating System	1829104	Skill Development	<p>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.</p>
422	NME I: Statistical Methods	1829105	Employability, Skill Development	<p>Distinguish Discrete and continuous distributions. Solve the real time problems involving various distributions like Binomial, Poisson and normal distributions.</p>



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423	Microprocessors and its Applications	1829209	Employability, Skill Development	Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor and microcontroller.
424	Data Structures and Algorithms	1829110	Employability, Skill Development	Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor and microcontroller.
425	Object oriented Analysis and Design	1829211	Employability, Skill Development	Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor and microcontroller.
426	Advanced JAVA	1829212	Employability	Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor and microcontroller.
427	NME II: Optimization Techniques	1829213	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.
428	Database Management System	1729317	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.
429	Programming in PHP	1729318	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.
430	Accounting and Financial Management	1720315	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.
431	Python for Scientific Computing	1729319	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.
432	Digital Image Processing	1729320	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.
433	Data warehousing and Data Mining	1729424	Employability, Skill Development	Have a good knowledge of the preprocessing techniques. To get insights from data using classification and prediction techniques,
434	Computer networks and Mobile Computing	1729425	Employability, Skill Development	Determine and explain Data Communications System and its components. Identify the different types of network topologies and protocols.
435	Organizational Behaviour	1729426	Employability, Skill Development	To analyze and compare different models used to explain individual behaviour related to motivation and rewards



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436	Android Programming	1729427	Employability	Illustrate the use of activities, fragments and intents in Android to invoke Built-in Applications and use of notification in Android.
437	Software Project Management	1729428	Employability, Skill Development	Identify the different project contexts and suggest an appropriate management strategy. Determine an appropriate project management approach through
438	Big Data Analytics	1629532	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.
439	Artificial Neural Networks	1629533	Employability, Skill Development	Develop different single layer/multiple layer Perception learning algorithms. Apply Networking concepts for establishing connectivity among applications with reduced code complexity
440	Cloud Computing	1629534	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.
441	Introduction to Computer Forensics and Bioinforma	1629535	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
442	Internet of Things	1629536	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				
443	MANAGEMENT PROCESS AND ORGANIZATIONAL BEHAVIOUR	1830101	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



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444	STATISTICS FOR MANAGEMENT	1830102	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
445	ECONOMICS FOR MANAGERS	1830103	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 Data software. CO5 Identify the consequence of globalization and role of Banks in International Trade.
446	ACCOUNTING FOR MANAGERS	1830104	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.
447	LEGAL SYSTEMS IN BUSINESS	1830105	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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448	MARKETING MANAGEMENT	1830106	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.
449	ENTREPRENEURSHIP	1830107	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.
450	HUMAN RESOURCE MANAGEMENT	1830208	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
451	RESOURCE MANAGEMENT TECHNIQUES	1830209	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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452	OPERATIONS MANAGEMENT	1830210	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
453	FINANCIAL MANAGEMENT	1830211	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
454	RESEARCH METHODOLOGY	1830212	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
455	MANAGEMENT INFORMATION SYSTEMS	1830213	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.
456	INTERNATIONAL BUSINESS MANAGEMENT	1830214	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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457	STRATEGIC MANAGEMENT	1730315	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
458	TOTAL QUALITY MANAGEMENT	1730316	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
459	INVESTMENT MANAGEMENT	1730317	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.
460	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
461	MERCHANT BANKING AND FINANCIAL SERVICES	1730318	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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462	SERVICES MARKETING	1730319	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.
463	INTEGRATED MARKETING COMMUNICATION	1730428	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.
464	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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465	INTEGRATED SUPPLY CHAIN MANAGEMENT	1730323	Employability	<p>CO1 RecollecttheimplicationsofSCM,networkdesigndecisionsandmodelsandscheming distribution network in supply chainmanagement CO2 Assessthesourcingdecisionsinsupplychainboonsandbanesof3PL/4PLandvarious types of RSP. CO3 Understandthetoolsandtechniquesusefulinimplementingsupplychainmanagement CO4 Analyzeandappraisingtheperformanceofsupplychaintocontroliteffectively. CO5 Understandthekeyconceptsandtechniques thatwillallowyoutoanalyze, manageand improve supply chain processes for different industries and markets.</p>
466	PURCHASING MANAGEMENT	1730324	Employability ,Skill Development	<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>
467	STRATEGIC HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT	1730429	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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468	LABOUR LEGISLATIONS	1730321	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>
469	BIG DATA TECHNOLOGY	SYS-301	Employability	<p>CO1 Workwithbigdataplatfromandexplorethebigdataanalyticstechniquesbusiness applications.</p> <p>CO2 Applythefundamentalsofvariousbigdataanalyticstechniques.</p> <p>CO3 AnalyzetheHADOOPandMapReducetechnologiesassociatedwithbigdata 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>
470	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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471	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>
472	FINANCIAL DERIVATIVES	1730425	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>
473	RISK MANAGEMENT AND INSURANCE	1730426	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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474	CORPORATE TAXATION	FIN-403	Employability, Entrepreneurship	CO1 Evaluate Income Tax and accounting and Income exempted from Tax CO2 Formulate head of income and about salaries and house property CO3 Compare Profits and Gains of business and profession, Capital gains and income from other sources CO4 Appraise Set off and carry forward of losses, assessment of individual & firms and deductions CO5 Formulate Assessment procedures, Tax planning, PAN, Filing of returns and IT authorities
475	SALES AND DISTRIBUTION MANAGEMENT	1730320	Employability, Entrepreneurship, Skill Development	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.
476	RETAIL MANAGEMENT	1730428	Employability, Entrepreneurship	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.
477	CUSTOMER RELATIONSHIP MANAGEMENT	MKT-403	Employability, Entrepreneurship	To provide an understanding of CRM and the tools and techniques to build CRM in organizations



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478	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>
479	INTERNATIONAL LOGISTICS AND MANAGEMENT OF GLOBAL SUPPLY CHAIN	1730431	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>
480	TRANSPORTATION AND WAREHOUSING MANAGEMENT	1730432	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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481	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>
482	TRAINING AND HUMAN PERFORMANCE ENHANCEMENT	1730322	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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483	LEADERSHIP AND ORGANISATIONAL EFFECTIVENESS	1730430	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>
484	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>
485	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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486	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 (SHIFT I) - 31				
487	MICRO ECONOMIC THEORY - I	1831101	Employability, Skill Development	The student will be able to understand and apply the basic concepts of economics and obtain employment
488	STATISTICAL METHODS - I	1831102	Employability, Skill Development	The student would obtain skills in methods of data collection and tabulation.
489	RESEARCH METHODOLOGY	1831103	Employability	The student will understand the methods of processing and application of software techniques and enhance his employment opportunities
490	HEALTH ECONOMICS	1831104	Employability	The student will be able to apply cost benefit analysis to various health issues and obtain employment.
491	ORGANISATION & BEHAVIOURAL ECONOMICS	1831105	Employability	
492	MICRO ECONOMIC THEORY - II	1831206	Employability, Skill Development	The student will be able to understand and apply the basic concepts of economics and obtain employment
493	STATISTICAL METHODS - II	1831207	Skill Development	The student would develop skill sets in selecting sample and forecasting through Time series analysis.
494	INDIAN ECONOMIC DEVELOPMENT & POLICY	1831209	Employability	The student will be able to understand the process of licensing and obtain employment in the industrial sector.
495	MONETARY ECONOMICS	1831208	Employability	The student will be able to understand the way money is measured which will help him in getting employed in the banking sector.
496	MANAGERIAL ECONOMICS	1831210	Skill Development, Entrepreneurship	The student will strengthen his skills in assessing project profitability and determining advertising budget. The knowledge of capital budgeting will help him in starting a new venture
497	MACRO ECONOMIC THEORY - I	1731311	Employability	The student will get to understand and apply the basic economic concepts which will help him in getting employment.



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498	PUBLIC ECONOMICS - I	1731312	Employability, Skill Development	The student will acquire skill set in doing a cost benefit analysis of public expenditure
499	INTERNATIONAL ECONOMICS - I	1731313	Employability	The student will understand and apply the basic economic theories which will provide him employment opportunities
500	FINANCIAL MARKETS & SERVICES - I	1731314	Employability	The student will be able to obtain employment in stock exchanges .
501	ENTREPRENEURIAL DEVELOPMENT	1731315	Employability, Skill Development	The student will be able to understand the steps involved in starting a new business venture.
502	MACRO ECONOMIC THEORY - II	1731416	Employability	The student will get to understand and apply the basic economic concepts which will help him in getting employment.
503	PUBLIC ECONOMICS - II	1731417	Employability	The student will understand the various types of taxes, its features and be able to get employment with tax consultants.
504	FINANCIAL MARKETS AND SERVICES - II	1731419	Employability	The student will be able to understand and apply the process of underwriting, factoring and leasing which will increase his employment opportunities.
505	HUMAN RESOURCE MANAGEMENT	1731420	Employability	The student will be able to understand the methods of recruitment, selection and motivation which will give him employment in the HR department.
	MSW - 33			
506	SOCIAL WORK PROFESSION	1833101	Employability, Skill Development	· Understand the values, ethics and integrate into social work Practice.
507	METHODS OF SOCIAL WORK	1833012	Employability, Entrepreneurship, Skill Development	To enable the student to practice Social Case work, group work in different settings
508	SOCIAL POLICY AND SOCIAL LEGISLATION	1833103	Employability, Skill Development	Understand the legal framework and protective services for the vulnerable groups in the society
509	HUMAN BEHAVIOUR	1833104	Employability, Skill Development	To understand the magnitude and impact of Social Problems
510	SOCIAL WORK RESEARCH	1833206	Entrepreneurship, Skill Development	Develop competence in conceptualizing, designing and implementing research using both quantitative and qualitative methods
511	WELFARE ADMINISTRATION	1833207	Employability, Entrepreneurship, Skill Development	Acquire skill on the establishment of non profit organisation
512	INDUSTRIAL SOCIAL WORK	1833208	Employability, Entrepreneurship, Skill Development	Conceptual learning and practice of Corporate Social Responsibility
513	ENTREPRENEURSHIP	1833209	Employability, Entrepreneurship, Skill Development	Identify personal attributes that enable best use of entrepreneurial opportunities



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514	LABOUR LEGISLATION	1733311	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
515	HUMAN RESOURCE MANAGEMENT	1733212	Employability, Entrepreneurship, Skill Development	To learn the sub functions of HRM like Manpower planning, Recruitment, talent management, Learning and development, Compensation management etc
516	WORK PLACE COUNSELING	1733313	Employability, Skill Development	Learn the various theories of Counselling and develop the skill in counselling practice
517	EMPLOYEE RELATIONS MANAGEMENT	1733314	Employability, Skill Development	· Able to summerise the welfare and social security provisions in labour legislation
518	HUMAN RESOURCE DEVELOPMENT	1733416	Employability, Entrepreneurship, Skill Development	· To build an understanding and perspective of Human Resource Development as discipline appreciating learning
519	ORGANISATIONAL BEHAVIOUR & ORGANISATIONAL DEVELOPMENT	1733417	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				
520	MANAGERIAL CONCEPT AND BUSINESS ETHICS	1834101	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.
521	EMPLOYEE RELATIONS AND EMPLOYEE WELFARE	1834102	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.
522	HUMAN BEHAVIOUR	1834103	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
523	LABOUR LEGISLATIONS	1834104	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
524	LEARNING AND DEVELOPMENT	1834206	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



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525	INDUSTRIAL RELATIONS	1834207	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.
526	ORGANISATIONAL BEHAVIOUR	1834208	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.
527	PERFORMANCE MANAGEMENT SYSTEM	1834209	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.
528	CORPORATE SOCIAL RESPONSIBILITY	1834210	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.
529	ORGANIZATIONAL COUNSELING	1834211	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.
530	ORGANISATIONAL DEVELOPMENT	1734419	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.
531	STRATEGIC HUMAN RESOURCE MANAGEMENT	1734313	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
532	HUMAN RESOURCE DEVELOPMENT	1734314	Employability, Skill Development	Acquire the skill to manage the human capital in an organization and also the competency and profiling architecture. Enable oneself to get exposed to instructional designs and the HRD processes. Venture oneself effectively at times of mergers and acquisition.



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533	INDUSTRIAL LAW	1734315	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.
534	MANAGERIAL ECONOMICS	1734317	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.
535	COMPENSATION BENEFITS ANALYSIS	1734316	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
536	GLOBAL HRM	1734418	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.
537	RESEARCH METHODOLOGY	1734312	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,
538	TOTAL QUALITY MANAGEMENT	1734420	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
539	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
540	INDUSTRIAL RELATIONS AND EMPLOYEE WELFARE	1834206	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				
541	FINANCIAL ACCOUNTING I	1835111	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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542	BANKING THEORY LAW & PRACTICE	1835112	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.
543	MARKETING	1835113	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.
544	BUSINESS ECONOMICS	1835114	Employability	Students can able to analyze various laws such as law of demand, supply, return to scale, variable proportion and market structure.
545	CORPORATE COMMUNICATION	1835115	Employability, Skill Development	Students can able to apply the formal and informal communication in their personal and corporate life
546	FINANCIAL ACCOUNTING II	1835216	Employability, Skill Development	Students can able to prepare accounting for partnership firm, branches & hire purchases
547	PRINCIPLES OF MANAGEMENT	1835217	Employability, Skill Development	Students can able to apply the functions of management such as planning, organizing, control, coordination, motivation, leadership style in the business.
548	SERVICES MARKETING	1835218	Employability	Students can able to build strategies for service organization such as banking, insurance, education & tourism with appropriate mix
549	BUSINESS POLICY AND ENVIRONMENT	1835219	Entrepreneurship	Students can able to build strategies for service organization such as banking, insurance, education & tourism with appropriate mix
550	E-COMMERCE	1835220	Entrepreneurship	Students can able to examine the pros and cons of E-Commerce industry and its significance in present era
551	COMPANY LAW	1735322	Employability, Entrepreneurship	Students can able to explain the legal provisions relating to incorporation, MOA & AOA, meetings and the liquidation of the company.
552	COST ACCOUNTING	1735323	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
553	INSURANCE & RISK MANAGEMENT	1735324	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
554	CORPORATE ACCOUNTING	1735325	Employability	Students can able to do accounting for companies from its inception to winding up
555	PRACTICAL AUDITING	1735326	Employability, Entrepreneurship	Students can able to demonstrate the process of auditing and able to prepare & maintain various documents while auditing
556	BUSINESS MATHEMATICS	1735313	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.
557	FINANCIAL SERVICES	1735428	Employability, Entrepreneurship	Students can able to explain the various types of financial services and evaluate the significance of the same



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558	INTERNATIONAL TRADE	1735429	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.
559	SPECIAL ACCOUNTS	1735430	Employability	Students can able to prepare accounting for special types of business such as banking, insurance, holding & contracts
560	BUSINESS STATISTICS & O R	1735418	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.
561	BUSINESS LAW	1735431	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
562	HUMAN RESOURCE MANAGEMENT	1735432	Employability	Students can able to apply the knowledge such as process of recruitment, selection, training & development, performance appraisal in their organization.
563	ACCOUNTING FOR DECISION MAKING	1635534	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
564	CORPORATE ETHICS AND GOVERNANCE	1635535	Entrepreneurship	Students can able to demonstrate the significance of ethical practices, social responsibility and governance
565	TAXATION - I	1635536	Employability	Students can able to determine the residential status, income from salary, house property and business and also able to understand the registration process under GST.
566	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1635537	Employability	Students can able to explain and analyze the elements of logistics and supply chain management for the business
567	ENTREPRENEURIAL DEVELOPMENT	1635538	Entrepreneurship	Students can able to highlight the qualities of successful entrepreneur and also able to identify the challenges and suggest the solutions for it.
568	RESEARCH METHODOLOGY	1635539	Employability	Students can able to explain the appropriate methodology to conduct a successful research
569	FINANCIAL MANAGEMENT	1635641	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.
570	TAXATION - II	1635642	Employability, Skill Development	Students can able to determine the taxable income/supply and the value of tax under income tax act GST act.
571	ACCOUNTING STANDARDS	1635643	Employability	Students can able to use accounting standards appropriately while maintaining the books of accounts
572	CUSTOMER RELATIONSHIP MANAGEMENT	1635644	Employability	Students can able to explain the significance of customer relationship management practices in a business



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573	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	1635645	Employability	Students can able to plan their investment by analyzing various avenues and also know how to manage their portfolio
B.SC., MATHEMATICS WITH CA - 36				
574	CLASSICAL ALGEBRA	1836101	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
575	DIFFERENTIAL CALCULUS	1836102	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.
576	PROGRAMMING IN C	1836103	Employability / Skill Development	Ø To enhance some knowledge in C Programming, To be familiar with pointers and structures in C Programming.
577	NME I - COMPUTER FUNDAMENTALS	1836103	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.
578	TRIGONOMETRY	1836104	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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579	INTEGRAL CALCULUS	1836208	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.
580	OBJECT ORIENTED PROGRAMMING WITH C++	1836209	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++
581	NME II - STATISTICAL METHODS	1836211	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.
582	DIFFERENTIAL EQUATIONS	1736312	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.
583	MATHEMATICAL STATISTICS	1736313	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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584	MULTIMEDIA	1736314	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>
585	NUMERICAL METHODS - I	1736315	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>
586	VECTOR CALCULUS, ANALYTICAL GEOMETRY OF THREE DIMENSIONS	1736417	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>
587	TRANSFORMS AND FOURIER SERIES	1736418	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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588	PROGRAMMING IN JAVA	1736419	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
589	NUMERICAL METHODS - II	1736420	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.
590	ALGEBRAIC STRUCTURES	1636522	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
591	REAL ANALYSIS	1636523	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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592	DISCRETE MATHEMATICS	1636524	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.
593	OPERATIONS RESEARCH I	1636525	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.
594	WEB TECHNOLOGY	1636526	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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595	LINEAR ALGEBRA	1636228	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.
596	COMPLEX ANALYSIS	1636629	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 $z \rightarrow 1/z$
597	MECHANICS	1636630	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.
598	OPERATIONS RESEARCH II	1636631	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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599	DOT NET PROGRAMMING	1636632	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
B.SC., PHYSICS WITH COMPUTER APPLICATION - 37				
600	MECHANICS AND PROPERTIES OF MATTER	1837101	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.
601	MATHEMATICS PAPER - I	1836106	Employability/Entrepreneurship/Skill Development	The Student will be able to acquire the skill to Solve real world problems.
602	THERMAL PHYSICS AND ACOUSTICS	1837203	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.
603	MATHEMATICS PAPER - II	1836212	Employability/Entrepreneurship/Skill Development	The Student will be able to acquire the skill to Solve real world problems.
604	OPTICS	1737306	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.
605	BASIC ELECTRONICS	1737307	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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606	DATA STRUCTURES	1737308	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.
607	OBJECT ORIENTED PROGRAMMING USING C++	1737309	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.
608	ATOMIC PHYSICS	1737412	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.
609	ELECTIVE 1-INTEGRATED ELECTRONICS	1737413	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.
610	OPERATING SYSTEMS	1737414	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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611	DATABASE MANAGEMENT SYSTEM	1737415	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.
612	NUCLEAR PHYSICS AND PARTICLE PHYSICS	1637518	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.
613	SOLID STATE PHYSICS	1637519	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.
614	ELECTIVE II-MICROPROCESSOR FUNDAMENTALS	1637520	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.
615	PROGRAMMING IN JAVA	1637521	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.
616	ELECTRICITY AND ELECTROMAGNETISM	1637623	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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617	RELATIVITY AND QUANTUM MECHANICS	1637624	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.
618	MATHEMATICAL PHYSICS & NUMERICAL METHODS	1637625	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.
619	DIGITAL ELECTRONICS	1637626	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				
620	இக்கால இலக்கியம் - 1	1838101	Employability & Skill Development	புதுக்கவிதைகளைச் சமகாலப் பொருண்மைகளை மையமாகக் கொண்டு கவிதைகளைப் படைத்து வெளியிடுதல், ஊடகங்களில் பணியாற்றல்.
621	நன்னூல் - எழுத்ததிகாரம்	1838102	Employability & Skill Development	நன்னூல் எழுத்திலக்கணம் அறிந்துகொள்வது தமிழ் இலக்கண மரபை அறிந்துகொள்வதோடு போட்டித் தேர்வுகளுக்கும் உதவும் வகையில் உள்ளது.
622	தமிழக வரலாறும் பண்பாடும் - 1	1838103	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.
623	சுற்றுலாவியல் (NME - I)	1838104	Employability, Entrepreneurship &	தமிழகச் சுற்றுலாத் தலங்கள், அதன் சிறப்புகள் குறித்து புரிந்துகொள்ளல், சுற்றுலா வணிகச் சந்தையைப் பயன்படுத்தி தொழில்முனைவோராக ஆதல்.
624	இக்கால இலக்கியம் - II	1838205	Employability & Skill Development	சிறுகதை, புதினம் முதலான இலக்கியப் படைப்பு உத்திகளை அறிந்துகொள்ளுதல்.
625	நன்னூல் - சொல்லதிகாரம்	1838206	Employability & Skill Development	நன்னூல் சொல்லதிகாரம் அடிப்படையில் மொழியைத் திறம்பட வெளிப்படுத்தல்.
626	தமிழக வரலாறும் பண்பாடும் - 2	1838207	Employability & Skill Development	தமிழக வரலாற்றையும் பண்பாட்டையும் அறிந்துகொள்ளவும் போட்டித் தேர்வுகளில் வெற்றிபெறவும் வகையில் அமைக்கப்பட்டுள்ளது.
627	வைணவம் (NME - 2)	1838208	Employability & Skill Development	வைணவத்தின் கொள்கைகளையும் பாரம்பரியத்தையும் அறிந்துகொள்வதோடு பக்தியுடனும் ஒழுக்கத்துடனும் வாழப் பழகுதல்.



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628	பக்தி இலக்கியமும் சிற்றிலக்கியமும்	1838209	Employability & Skill Development	தமிழர்களின் வாழ்வியல் பக்தியோடும் சார்ந்த வாழ்வியல் என்பதை மாணவர்கள் அறிந்துகொள்ளுதல்.
629	நம்பியகப்பொருள்	1738310	Employability & Skill Development	தலைவன், தலைவி இல்லற நெறிமுறைகளைப் பின்பற்றி ஒழுகும் கற்பு, அகப்பாட்டு உறுப்புக்கள், உத்திகள் ஆகியவற்றையும் கற்று, தமிழ் இலக்கியங்களைப் புரிந்துகொள்வதற்கும் படைப்பதற்கும் பயன்படுத்தல்
630	தமிழ் இலக்கிய வரலாறு - I	1738311	Employability & Skill Development	தமிழ் இலக்கியத்தின் மிகப்பெரும் பரப்பை மாணவர்கள் அறிந்துகொண்டு போட்டித் தேர்வில் வெற்றி பெறல்.
631	காப்பியம்	1738412	Employability & Skill Development	ஆசிரியர் பணிக்கான தேர்வுகளுக்குரிய நுழைத்தேர்வை எதிர்கொள்ளப் பயன்படுத்தல்.
632	புறப்பொருள் வெண்பாமாலை	1738413	Employability & Skill Development	புற இலக்கண மரபு கூறும் வீர உணர்வையும் சுவையான உத்திகளையும் தமிழ் இலக்கியப் பாடல்களோடு ஒப்பிட்டு மாணவர்கள் அறிந்துகொள்ளல்.
633	தமிழ் இலக்கிய வரலாறு - II	1738414	Employability & Skill Development	தமிழ் இலக்கியத்தின் மிகப்பெரும் பரப்பை மாணவர்கள் அறிந்துகொண்டு போட்டித் தேர்வில் வெற்றி பெறல்.
634	சங்க இலக்கியம் - அகம்	1738415	Employability & Skill Development	சங்க அகப்பாடல்களின் மூலகமாக பழந்தமிழனின் களவு, கற்பு வாழ்க்கைமுறைகளையும், சமூக நிலை போன்றவற்றை அவற்றின் பின்னணியோடு அறிந்துகொண்டு அதனைப் பகுப்பாய்வு செய்வது அறிவாற்றலை வளர்க்கும்.
635	யாப்பருங்கலக்காரிகை	1638516	Employability & Skill Development	யாப்பின் உறுப்புகளை அறிந்துகொண்டு பழந்தமிழ் நூல்களை யாப்பறிந்து, சீர் பிரித்து எளிதில் புரிந்துகொள்ளல்; மரபுக்கவிதை
636	தமிழ்மொழி வரலாறு	1638517	Employability & Skill Development	தமிழ் மொழியின் தொன்மை, நாகரிகத்தின் அடையாளம், மொழிக்கு உரிய சிறப்புகள், வாழ்வியல் சார்ந்தும்/ நிலப்பரப்பு சார்ந்த மொழி கூறுகளில் ஏற்படும் மாற்றங்கள் போன்றவற்றை அறிந்து கொள்ளுதல்.
637	தமிழ் இலக்கியத் திறனாய்வு	1638518	Employability & Skill Development	இலக்கியங்களைத் திறனாய்வு செய்யவும் அதனை எவ்வாறு படைப்பது என்பது குறித்த படைப்பாற்றலும் வளர்த்தல்.
638	தமிழகக் கோயிற்கலை	1638519	Employability & Skill Development	தமிழகத்தின் தொன்மையான, சிறந்த கட்டடக் கலை குறித்து அறிதல், இந்து சமய அறநிலையத்துறையில் வேலைவாய்ப்பு பெறும் வகையில் தன்னைத் தயார்படுத்திக் கொள்ளல்.

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639	சங்க இலக்கியம் - புறம்	1638520	Employability & Skill Development	பழந்தமிழனின் கலை மற்றும் பண்பாட்டு ஆய்வுகளில் ஈடுபடத் தூண்டும்.
640	தண்டியலங்காரம்	1638521	Employability & Skill Development	பல்வகை அணிகளையும் அதன் அமைப்புமுறைகளையும் மாணவர்கள் அறிந்துகொண்டு பழந்தமிழ் நூல்களில் புதைந்துள்ள அணிகளைச் சுவைத்தல், ஆராய்தல், எளிதில் புரிந்துகொள்ள்தல், அணியிலக்கணம் தோய்ந்த மரபுக்கவிதை இயற்றுதல்.
641	திராவிட மொழிகளின் ஒப்பாய்வு	1638622	Employability & Skill Development	மொழியியல் ஆய்வின் அடிப்படையில் திராவிட மொழிகளின் இயல்புகளைத் தனித்தனியாக விளக்கி, மொழிக்கும் மனித சமூகத்துக்கும் இடையிலான பிணைப்பை அறிவியல்முறை ஆய்வின் மூலம் அறிந்துகொள்ளுதல்.
642	நாட்டுப்புறவியல்	1638623	Employability & Skill Development	மாணவர்கள் இன்றைய ஊடகங்களில் பணி வாய்ப்பைப் பெறும்பொழுது நாட்டுப்புறக் கதைகள், பாடல்களை நிகழ்த்தி தனிப்பட்ட ஆளுமையாளராக சிறப்பைப் பெறுதல்
643	அடிப்படைக் கணினியியல்	1638624	Employability, Entrepreneurship & Skill Development	கணினியின் அமைப்பு, கணினியின் தலைமுறைகள், கல்விசார்ந்து கணினியின் பயன்பாடு, இணையத்தமிழ் வளர்ச்சி ஆகியனவற்றைப் பற்றிப் புரிந்துகொள்வதோடு பங்களிப்பு செய்வதையும் அறிந்துகொள்ளல்.
B.A. Tamil Literature -38				
620	PAPER – 1 – CONTEMPORARY LITERATURE - I (POEM & PROSE)	1838101	Employability & Skill Development	Creating and publishing poems with a focus on contemporary contents, working in the media.
621	GRAMMER – I - NANNOOL – EZHUTHTHADHIGARAM	1838102	Employability & Skill Development	This subject helps in understanding the Tamil grammatical tradition and also helps in competitive examinations.
622	HISTORY AND CULTURE OF TAMIL NADU– I	1838103	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.
623	TOURISM	1838104	Employability, Entrepreneurship & Skill Development	Understanding of Tamil Nadu Tourist Places and Its Features, become an Entrepreneurship Using the Tourism Business Market.
624	CONTEMPORARY LITERATURE – II (SHORT STORIES, NOVELS, DRAMAS)	1838205	Employability & Skill Development	Understanding literary creation techniques such as short stories and novels.
625	GRAMMER – II- NANNOOL – CHOLLADHIGARAM	1838206	Employability & Skill Development	Effective expression of language based on Nannool : Solladhigaram.
626	THAMIZHAGA VARALAARUM PANPAADUM – II	1838207	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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627	VAINAVAM (NME -2)	1838208	Employability & Skill Development	To know the principles and traditions of Vaishnavism and to live with devotion and morality.
628	DEVOTIONAL LITERATURE AND PRABANDHANGAL	1838209	Employability & Skill Development	Students understanding that the life of Tamils is based on devotion and life.
629	GRAMMER – III – NAMBIYAGAPPORUL	1738310	Employability & Skill Development	Nambiyagapporul used for understanding and creation of Tamil literature.
630	HISTORY OF TAMIL LITERATURE – I	1738311	Employability & Skill Development	Students know the vast area of Tamil literature and win the competitive examination.
631	EPICS	1738412	Employability & Skill Development	Used to face entrance exams for teaching jobs.
632	GRAMMER – IV – PURAPPORUL VENPAMALAI	1738413	Employability & Skill Development	Students learn about the heroic feeling and delicious techniques of the "Pura" grammatical tradition by comparing it with Tamil literary songs.
633	HISTORY OF TAMIL LITERATURE – II	1738414	Employability & Skill Development	Students know the vast area of Tamil literature and win the competitive examination.
634	– SANGAM LITERATURE - AGAM	1738415	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.
635	YAAPPARUNGALAK KAARIGAI	1638516	Employability & Skill Development	To understand the elements of Yappu and the Ancient Tamil Texts easily; Creating of Traditional Poem.
636	HISTORY OF TAMIL LANGUAGE	1638517	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.
637	TAMIL LITERARY REVIEW	168518	Employability & Skill Development	Developing reviewing knowledge of literature and know how to create literature.
638	TEMPLE ART OF TAMILS	1638519	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.
639	SANGAM LITERATURE – PURAM	1638520	Employability & Skill Development	Encourages to engage in art and cultural studies of Ancient Tamils.
640	THANDIYALANGARAM	1638521	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.
641	DRAVIDIAN LANGUAGES AND ANALOGY	1638622	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.
642	FOLKLORISTICS	1638623	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.
643	BASIC COMPUTING	1638624	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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644	CLASSICAL LITERATURE	1839101	Employability, Skill Development	The students will be able to analyse the theme of Classicism and the contributions made by the great writers
645	CHILDREN'S LITERATURE	1839102	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
646	SOCIAL HISTORY OF ENGLAND-I	1839103	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
647	ADVERTISING AND PUBLIC RELATIONS	1830104	Employability, Entrepreneurship	The students will be able to evaluate the various types of Entrepreneurial developments and mobilization.
648	ELIZABETHIAN AGE	1839205	Employability	The students will be able to categorize the major forms and present a picture of the Elizabethan period
649	THE AUGUSTUAN AGE	1839206	Employability	The students will be able to categorize the major forms and present a picture of the Augustan period
650	SOCIAL HISTORY OF ENGLAND-II	1839207	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
651	COMMUNICATION AND BROADCASTING ANI	1839208	Employability, Entrepreneurship,	The students will be able to evaluate the various forms of communication in the field of broadcasting
652	THE ROMANTIC AGE	1739309	Employability	The students will be able to describe the famous works of William Wordsworth, William Blake and their contemporaries.
653	THE VICTORIAN AGE	1739310	Employability	The students will be able to describe and analyse the famous works of Victorian Age writers.
654	HISTORY OF ENGLISH LITERATURE AND LI	1739311	Employability	The students will be able to evaluate the various poetic forms specific to the age and the writers of the period
655	THE MODERN AGE	1739412	Employability	The students will be able to identify the features of the Modern period against the historical and political background
656	ENGLISH LANGUAGE AND LINGUISTICS	1739413	Employability, Entrepreneurship	The students will be able to apply the knowledge of linguistics and explore the methodologies related to word formation and grammar
657	HISTORY OF ENGLISH LITERATURE AND LI	1739414	Employability, Skill Development	The students will be able to understand the basic principles of Journalism and mass communication
658	ENGLISH LANGUAGE AND TEACHING	1639515	Employability, Entrepreneurship,	The students will be able to analyse and understand the various levels of development in the field of ELT
659	SHAKESPEARE	1639516	Employability	The students will be able to analyse the works of Shakespeare, the Theatre and Audience during his life time
660	AMERICAN LITERATURE	1639517	Employability	The students will be able to analyse and appreciate the history and works of American Literature
661	POST COLONIAL LITERATURE	1639518	Employability	The students will be able to identify the predominant themes and writings of postcolonial literature



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662	JOURNALISM AND MASS COMMUNICATION	1639519	Employability, Entrepreneurship,	The students will be able to identify and understand the importance of developing the language skills
663	CANADIAN LITERATURE	1639620	Employability	The students will be able to identify the predominant themes and writings of Canadian literature
664	WOMEN STUDIES	1639621	Employability	The students will be able to understand the emergence and objectives of Women's studies
665	INDIAN WRITING IN ENGLISH	1639622	Employability	The students will be able to understand Indianess and identify the historical and cultural contexts
666	TRANSLATION STUDIES	1639623	Employability, Entrepreneurship,	The students will be able to understand the importance of Translation and identify the various methods in the process of translating texts
667	ENGLISH FOR CAREER	1639624	Employability, Entrepreneurship,	The students will be able to understand the importance of English and identify the various career opportunities.
	B.A., BUSINESS ECONOMICS - 41			
668	MICRO ECONOMICS-I	1841101	Skill Development, Entrepreneurship	The students developed the skill of analyzing the various aspects of consumer behavior and short run and long run production.
669	STATISTICAL AND MATHEMATICAL METHODS	1841102	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.
670	FINANCIAL ACCOUNTING-I	1841103	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.
671	ECONOMICS OF TOURISM	1841104	Employability, Skill Development	The students will learn the details relating to tourism promotion through which they can get employment.
672	MICRO ECONOMICS-II	1841205	Employability, Entrepreneurship	The students will learn about different market structures which is prevalent in the market. This will enable them to start business.
673	STATISTICAL METHODS AND OPERATIONS RESEARCH	1841206	Employability, Skill Development	The student will acquire skills about PERT and CPM
674	FINANCIAL ACCOUNTING II	1841207	Skill Development	The students will acquire skills relating to preparation of departmental accounts
675	COMPUTER AND ITS APPLICATIONS	1841208	Employability	The student will acquire the computing skills through which they will get employment
676	MARKETING - I	1741309	Entrepreneurship	The students will learn about the process involved in new product development which will help them start while doing the business.
677	MONETARY ECONOMICS	1741310	Employability	The student learns the functions of RBI and commercial banks which will fetch them employment.
678	CORPORATE ACCOUNTING	1741311	Employability	The student will be able to prepare the final accounts of banking and insurance companies. This will be helpful in getting employment.
679	MARKETING II	1741412	Employability, Skill Development	The students will acquire the skills relating to e-marketing.



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680	MANAGERIAL ECONOMICS	1741413	Employability, Entrepreneurship	The student learns about profit planning and capital management which will be helpful when he starts a new venture.
681	COST ACCOUNTING	1741414	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.
682	MACRO ECONOMICS - I	1641515	Employability, Skill Development	The student acquires the skills relating to investment function and employment determination.
683	FISCAL ECONOMICS - I	1641516	Employability	The student learns about individual tax, wealth tax and property tax which will be helpful for employment
684	INTERNATIONAL ECONOMICS - I	1641517	Entrepreneurship, Skill Development	The student acquired the skill of understanding the tariffs and balance of payment
685	HUMAN RESOURCE MANAGEMENT	1641518	Employability, Skill Development	The student learnt the concepts involved in recruitment and selection which will help them get employment.
686	INCOME TAX	1641519	Employability, Skill Development	The student acquired the skill of assessing the previous year and assessment year.
687	MACRO ECONOMICS - II	1641620	Employability, Entrepreneurship	The student learnt the objective and importance of macro economic policy which will be helpful while he starts a new venture.
688	FISCAL ECONOMICS- II	1641621	Employability	The student learnt the objectives and instruments of fiscal policy which will be helpful for employment.
689	INTERNATIONAL ECONOMICS - II	1641622	Employability, Entrepreneurship	The student learnt about the different types of exchange rates which will be helpful when he starts a new venture
690	ENTREPRENEURIAL DEVELOPMENT	1641623	Entrepreneurship	The student learnt the basics of entrepreneurship which will make him start a new venture.
691	MANAGEMENT ACCOUNTING	1641624	Employability	The student will be able to prepare fund flow, cash flow statements and budgets which will fetch him employment.
B.A., CRIMINOLOGY - 42				
692	PRINCIPLES OF CRIMINOLOGY	1842101	Skill development	Apply the crime prevention methods to prevent crimes in their locality
693	CRIMINAL LAW	1842102	Skill development	Know all the important sections, concepts, principles and doctrines from the major laws by the end of the syllabus
694	BASICS OF FORENSIC SCIENCE AND MEDICINE	1842103	Skill development	Comprehend the various methods of identifying a person using forensic evidence
695	NME1-CRIME AND DELINQUENCY	1842104	Skill development	Analyse the characteristics of juvenile delinquents with respect to socioeconomic status, gender and family background and risk factors of recidivism.
696	VIGILANCE AND SECURITY MANAGEMENT	1842205	Skill development, Employability	Learning and understanding vigilance and security aspects in this paper increases student's employability chances.
697	FUNDAMENTALS OF PSYCHOLOGY	1842206	Skill development	Apply the theories of personality in real world
698	SPECIAL LAWS	1842207	Skill development	Acquiring knowledge in special laws will help the students to work efficiently in policy making process or other fields related to criminal justice system



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699	NME2-FOUNDATIONS OF CRIMINAL JUSTICE SYSTEM	1842208	Skill development	Understand the concept of justice, elements of Criminal Justice System
700	HUMAN RIGHTS IN CRIMINAL JUSTICE ADMINISTRATION	1742309	Skill development	Understand the role of Human rights in Criminal Justice
701	SOCIAL PROBLEMS	1742310	Skill development	Understand the various violence committed against the vulnerable groups in the society
702	FUNDAMENTALS OF STATISTICS	1742311	Skill development	Demonstrate the difference between the various types of research and design and formulate hypothesis
703	PRISON ADMINISTRATION	1742412	Skill development	Recognize the various types of correctional methods and typology of prisons, prisoners
704	CYBERCRIME	1742413	Skill development	Knowledge about Tracking & Tracing Emails, Recovery of Digital Evidence, Setting up a Cyber Crime Investigation Cell
705	GUIDANCE AND COUNSELING	1742414	Skill development, Employability	Apply the techniques of counseling in communication and interpersonal conversation in personal and professional setups.
706	POLICE ADMINISTRATION	1642501	Skill development	Realize the significance of different records maintained at the police station
707	POLICE STATION MANAGEMENT	1642517	Skill development	Remember the daily routine of the police station and understand the importance of modernization of police
708	VICTIMOLOGY	1642518	Employability	Understand the necessity of victim assistance in the Criminal Justice System
709	COMPUTER APPLICATION IN CRIMINAL JUSTICE	1642519	Skill development	Learning on computerisation of Police Station records and use of Computers for effective Management of Police Stations
710	COMMUNITY POLICING	1642621	Skill development	Recognize the various community policing methods adopted in the various parts of the state.
711	CONTEMPORARY FORMS OF CRIME	1642622	Skill development	Learn about organized crimes the problems and difficulties in identification, preventing Organized crimes
712	PRIVATE DETECTIVE AND INVESTIGATION	1642623	Skill development, Employability,	Design and conduct investigations independently
	B.A. SOCIOLOGY - 43			
713	PRINCIPLES OF SOCIOLOGY I	1843101	Skill development	Understand about the relationship between individual and society, Classification of Group, Types and agencies of Socialization
714	INDIAN SOCIETY	1843102	Employability	known about the ethical composition of Indian Society and major social changes in Indian Society
715	SOCIAL PSYCHOLOGY	1843103	Skill development	Learning the methods and importance of social psychology, about personality, leadership, attitude and public opinion
716	NME I MASS MEDIA AND DEVELOPMENT	1843104	Skill development	Students will learn the ethics, social issues, functions of mass media
717	PRINCIPLES OF SOCIOLOGY II	1843205	Skill development, Employability	Acquiring the knowledge of socialization, social change and development of sociology
718	SOCIAL PROBLEMS IN INDIA	1843206	Employability	Students realize about important social problems



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719	SOCIAL ANTHROPOLOGY	1843207	Skill development	Students got more information about the life of tribes and community.
720	NME II ELEMENTS OF INSURANCE	1843208	Employability	Students' expertise about Insurance and its usage.
721	CLASSICAL SOCIAL THINKERS I	1743309	Skill development, Employability	Students able to understand about the pioneers of Sociologists and their contribution
722	SOCIAL MOVEMENTS IN INDIA	1743310	Employability	Students understand about the various social movements in India
723	SOCIAL DEMOGRAPHY	1743311	Skill development, Employability	Students got the skill of utilizing demographic profile and its importance
724	CLASSICAL SOCIAL THINKERS II	1743412	Skill development	Students acquired the sociological theoretical concepts.
725	RESEARCH METHODOLOGY AND STATISTICS	1743413	Skill development, Employability	Students trained about research methodology and statistics.
726	POLITICAL SOCIOLOGY	1743414	Skill development	Students able to know about the political system of India.
727	RURAL SOCIOLOGY	1643515	Skill development, Employability	Students able to get aware about the Rural Life and its Changes.
728	URBAN SOCIOLOGY	1643516	Skill development, Employability	Students understand about urban way of life.
729	INDUSTRIAL SOCIOLOGY	1643517	Skill development, Employability	Students got specialized about the industries and its function.
730	SOCIOLOGY OF DEVELOPMENT	1643518	Skill development, Employability	Students able to get knowledge about various development in society.
731	MEDICAL SOCIOLOGY	1643619	Skill development, Employability	Students get aware about the importance of health and its related issues.
732	COMMUNICATION, MEDIA AND SOCIETY	1643620	Skill development, Employability	Students got the skill of communication and role of media.
	B.A., TTM - 44			
733	PRINCIPLES OF TOURISM	1844101	Employability	To get employment in the tourism industry
734	TOURISM PRODUCTS OF INDIA	1844102	Employability	To gain knowledge regarding the various tourism product and get employed
735	TOURISM GEOGRAPHY	1844103	Employability	To know about tourism in India and increases the employment potentials
736	TOURISM MANGAMENT	1844205	Employability	To promote tourism at minimum cost
737	SOCIO-CULTURAL HISTORY OF INDIA	1844206	Employability	To learn about the social culture and get employment as tourist guide
738	EVENT MANAGEMENT	1844207	Employability	To gain knowledge regarding the various techniques in conducting an event
739	TRAVEL AGENCIES AND TOUR OPERATORS I	1744309	Employability	To learn more about Indian archaeology and get employed as tourist guide
740	MARKETING MANAGEMENT	1744310	Employability, Entrepreneurship	To get the techniques to be employed as tour operator
741	ART AND ARCHITECTURE OF INDIA	1744311	Employability	To know about the marketing environment and techniques
742	TRAVEL AGENCIES AND TOUR OPERATORS II	1744412	Employability	To learn more about Indian architecture and get employed as tourist guide
743	TOURISM MARKETING	1744413	Employability	To get the techniques to be employed as tour operator
744	COMMUNICATION FOR TOURISM	1744414	Employability	To know about the various techniques of communication required for tourism



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745	GLOBAL TOURISM	1644515	Employability	To learn more about world wide tourist places and get employed as tourist guide
746	HUMAN RIGHTS	1644516	Employability	To learn more about fundamental rights in tourism
747	HOTEL MANAGEMENT AND CATERING	1644517	Employability	To know the techniques and get employed in hospitality sectors
748	RESEARCH METHODOLOGY	1644518	Skill development	To get skills on doing research work.
749	BASICS OF COMPUTERS	1644520	Skill development	To know the techniques of using computer in tourism
750	PERSONNEL MANAGEMENT	1644620	Employability	To learn the various management techniques for human resources dev
751	FRONT OFFICE MANAGEMENT	1644621	Employability	To know the techniques and get employed in hospitality sectors
752	ECO TOURISM	1644622	Employability	To promote tourism at minimum cost
753	AIRLINES MANAGEMENT	1644623	Employment	To learn the process of air ticketing
B.COM ACCOUNTING & FINANCE - 45				
754	FINANCIAL ACCOUNTING	1845101	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.
755	BUSINESS ECONOMICS	1845102	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.
756	BUSINESS MATHEMATICS- I	1808104	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.
757	BASICS OF RETAIL MARKETING	1845103	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.
758	ADVANCED FINANCIAL ACCOUNTING	1845204	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.
759	PRINCIPLES OF MANAGEMENT	1845205	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.
760	BUSINESS MATHEMATICS- II	1808211	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.



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761	FUNDAMENTALS OF BUSINESS INSURANCE	1845206	Employment	The student will be able to enhance their knowledge regarding principles of insurance and life insurance products, this will enable them to become employable.
762	CORPORATE ACCOUNTING	1745307	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.
763	LEGAL SYSTEM IN BUSINESS	1745308	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.
764	BANKING THEORY LAW AND PRACTICE	1745309	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.
765	FINANCIAL MANAGEMENT	1745310	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.
766	BUSINESS STATISTICS & OR - I	1708322	Employability,	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.
767	ADVANCED CORPORATE ACCOUNTING	1745411	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.
768	ADVANCED FINANCIAL MANAGEMENT	1745412	Employability, Entrepreneurship	The student will be able to understand the importance of capital budgeting and application of the various techniques for the evaluation of long term projects, their pros and cons and the basis of selection criteria of projects.
769	FINANCIAL SERVICES	1745413	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.
770	BUSINESS COMMUNICATION	1745414	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.



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771	BUSINESS STATISTICS & OR - II	1708427	Employability	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.
772	PRACTICAL AUDITING	1645519	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.
773	COST ACCOUNTING	1645520	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.
774	INCOME TAX LAW AND PRACTICE - I	1645521	Employability, Entrepreneurship, s	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.
775	FINANCIAL MANAGEMENT	1645522	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.
776	INVESTMENT MANAGEMENT	1645523	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
777	MANAGEMENT ACCOUNTING	1645624	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.
778	ADVANCED COST ACCOUNTING	1645625	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.
779	INCOME TAX LAW AND PRACTICE II	1645626	Employability, Entrepreneurship, s	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.



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780	WORKING CAPITAL MANAGEMENT	1645627	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.
781	CORPORATE FINANCE	1645628	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				
782	PRINCIPLES OF INTERIOR DESIGN	1846101	Employability	The student will be able to get employment in interior designer
783	BASICS OF LIFE SPACE PLANNING	1846102	Employability	The student enhances the ideas of planning buildings
784	INTERIOR DESIGN STUDIO AND BUILDING SYSTEM TECHNOLOGY- I	1846103	Employability	The student learn the techniques of construction and can get employment
785	FUNDAMENTALS OF INTERIOR DESIGN	1846205	Employability	The student will be able to get employment in interior designer
786	COMMERCIAL INTERIORS	1846206	Employability , Entrepreneurship	The student can begin his own venture in designing interior in commerical areas
787	INTERIOR DESIGN STUDIO AND BUILDING SYSTEM TECHNOLOGY- II	1846207	Employability	The student learn the techniques of construction and can get employment
788	FURNITURE DESIGN	1746310	Employability	The student can get employment in furniture industry
789	LIGHTING AND LIGHTING FIXTURE	1746311	Entrepreneurship	The student can begin his own venture on lighting fixtures for corpora
790	APPLIED ART AND SCULPTURE	1746413	Employability	The student will learn to apply art work on sculptures and get employment in designing.
791	FIBRE TO FABRIC	1746414	Skill Development	The student can develop his skills on creating different kinds of fabric
792	ERGONOMICS IN INTEIOR	1646516	Employability	The students will learn about green environment and can get employed in Corporates
793	APPLIED ART ON TEXTILES	1646517	Employability	The student will learn to apply art work on Textiles and get employment in designing textilegarments.
794	ART AND ARCHITECTURE- WESTERN	1646518	Entrepreneurship	The student can turn into entrepreneurs in the architecture line.
795	BASICS OF NUTRITION	1646519	Employability	The students will learn about all aspects of nutrition and get employed as a dietician.
796	ADVERTISING AND GRAPHIC DESIGN	1646520	Employability	The student will learn about the techniques of advertising and get employment in corporates
797	SURFACE FINISHES	1646621	Employability	The student will learn about the different kinds of polishing, painting and can get self employed
798	ART AND ARCHITECTURE- INDIAN	1646622	Entrepreneurship	The student can turn into entrepreneurs in the architecture line.
799	PRINCIPLES OF RESOURCE MANAGEMENT	1646623	Employability	The student will learn to complete the work with minimum resources
800	LANDSCAPE AND FLORICULTURE DESIGN	1646624	Entrepreneurship	The student can start his own busiess in providing landscape consultancy



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801	BASICS OF DECORATIVE STYLE AND INDIAN INTERIORS	1646625	Skill Development	The student will develop the skill of various styles of interior decoration
802	GUIDANCE AND COUNSELING	1846104	Skill Development	The student will develop the skills in counselling
803	ART OF ENTERPRISING	1846208	Entrepreneurship	The student will develop techniques to start new ventures
	B.SC., PSYCHOLOGY - 47			
804	GENERAL PSYCHOLOGY- I	1847101	Employability, Skill development	Understand the Scope and branches of psychology and various applications of Learning theories and Memory improving techniques
805	BIOLOGICAL BASIS OF BEHAVIOR - 1	1847102	Employability, Entrepreneurship	Able to design and conduct research with ethical knowledge. Understand Structure, Function and process of Nervous system
806	PRINCIPLES OF SOCIOLOGY	1847103	Employability	Able to analyse the dynamics of society and human interaction in a multicultural setting and to imply inclusivity in diversity.
807	NME:- ORGANISATIONAL BEHAVIOR	1847104	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
808	GENERAL PSYCHOLOGY -2	1847205	Employability, Skill development	Understand and evaluate the major concepts of Psychology like Intelligence, Emotions, Motivation, Personality and its measures
809	BIOLOGICAL BASIS OF BEHAVIOR - 2	1847206	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?
810	FUNDAMENTALS OF SOCIAL ANTHROPOLOGY	1847207	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.
811	NME - ELEMENTS OF INSURANCE	1847208	Employability	Able to gather valuable information on Life insurance products- term-whole life- endowment
812	DEVELOPMENTAL PSYCHOLOGY 1	1747309	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.
813	STATISTICS IN PSYCHOLOGY	1747310	Employability, Entrepreneurship	Able to examine various statistical tools, its methods and its usage in conducting research and in interpretation of research results.
814	DEVELOPMENTAL PSYCHOLOGY 2	1747412	Employability, Entrepreneurship	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.
815	MARKETING AND CONSUMER BEHAVIOR	1747413	Employability, Entrepreneurship	Able to analyse the dynamics of market and marketing strategies to enhance consumer behaviour.



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816	PSYCHOPATHOLOGY -1	1647515	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
817	PSYCHOLOGICAL RESEARCH AND MEASUREMENT	1647516	Employability, Entrepreneurship,	Able to conduct and write a complete research report by gaining knowledge of various research designs, sampling techniques and methodologies
818	APPLIED PSYCHOLOGY	1647517	Employability, Entrepreneurship,	Sketch and determine the role of psychology and psychologists in various spectrums like cognitive psychology, community psychology , school psychology
819	SOCIAL PSYCHOLOGY I	1647518	Employability, Entrepreneurship	Understanding human behaviour in social setting. Analyse various social psychology concepts like social cognition, Attitude formation in explaining human behaviour.
820	PSYCHOPATHOLOGY II	1647620	Employability, Entrepreneurship	Critically analyse the etiology and Symptoms of various disorders like, mood disorders, Schizophrenia, personality disorders, drug addiction behaviour and sexual dysfunctions. Able to critically evaluate various preventive and treatment procedures
821	ORGANISATIONAL PSYCHOLOGY	1647621	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
822	SOCIAL PSYCHOLOGY - 2	1647622	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				
823	HUMAN COMMUNICATION	1848101	Employability	Enable effective communication, Enhance group output
824	REPORTING AND WRITING SKILLS	1848102	Employability, Skill Development	Enhance the reporting skills, Develop effective writing skills
825	EDITING SKILLS	1848103	Employability, Skill Development	Improve editing skills in print media, Design and create page layouts
826	INFORMATION AND COMMUNICATION TECHNOLOGY	1848104	Employability	Using ICTs for effective communication, Empowering students with Developmental communication skills
827	ELECTIVE - I : PHOTOGRAPHY	1848105	Employability, Entrepreneurship,	Developing photography skills, Enabling a student to be a photojournalist
828	ELECTIVE - II : MEDIA SKILLS	1848106	Employability	Improve Designing Skills, Journal Publication
829	MASS COMMUNICATION THEORIES	1848207	Employability	Analyze News, Develop public communication strategies



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830	MEDIA,CULTURE AND SOCIETY	1848208	Employability	Analyze media content, Create effective media text
831	COMMUNICATION RESEARCH METHODS	1848209	Employability	Device effective sampling techniques for research, Ability to collect data for research
832	NEWS PRODUCTION	1848210	Employability, Skill Development	Gather News, Create News Content for radio and television
833	ONLINE JOURNALISM AND WEB MANAGEMENT	1848211	Employability, Entrepreneurship, S	Expertise in Online Journalism tools, Creating content for online media
834	MEDIA MANAGEMENT	1748313	Employability	Enhance the Media Management skills, Develop Programming Strategies for project management
835	ADVERTISING	1748314	Employability	Create and manage Brands, Develop copywriting skills
836	RADIO NEWS PRODUCTION	1748317	Employability, Skill Development	Create radio news content, Develop presentation skills
837	MEDIA LAWS AND ETHICS	1748418	Employability	Familiarise the students with the intellectual property rights and cyber laws,Create media content in accordance with the constitutional and media laws
838	FILM STUDIES	1748419	Employability	Identify the elements of film and appreciate the nuances of film making, Ability to critically analyze a film
839	SPECIALIZATION	1748420	Employability	Develop news gathering skills, Produce news stories, Enrich journalistic skills
840	AUDIO VISUAL PRODUCTION	1748421	Employability, Entrepreneurship, S	Audio Visuals creation, Technical expertise in Production
M.PHIL ECONOMICS - 51				
841	INTRODUCTION TO RESEARCH METHODS IN ECONOMICS	1851101	Skill Development	The student acquires skills to analyse cross section data
842	ECONOMIC THEORY	1851102	Employability	The student learns about the behavior under uncertainty which improves his: employment potential.
843	SELECTED ISSUES IN INDIAN ECONOMIC DEVELOPMENT	1851103	Employability	The student learns about the behavior under uncertainty which improves his: employment potential.
M.PHIL COMMERCE - 52				



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844	RESOURCE METHODOLOGY	1852101	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 Tools Apply principles of report writing and Draft Dissertation
845	ADVANCED FINANCIAL MANAGEMENT	1852102	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. Additional To deliberate on merger/ acquisition options, and the role of different financial services. Construct a security portfolio considering relevant theories and their implications. Critically evaluate the impact of financial decisions on the strategic direction of the organisation Analyse the company's performance and make proper recommendations.
846	ADVANCED MARKETING	1852103	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 marketing issues, theories & practices.
M.PHIL BIOCHEMISTRY				
847	RESEARCH METHODOLOGY	1855101	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



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848	ADVANCED BIOCHEMISTRY	1855102	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.
849	DNA TECHNIQUES & ITS CLINICAL APPLICATIONS	1855103	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.
850	ENZYMES & ENZYME TECHNOLOGY	1855103	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.
851	PLANT BIOCHEMISTRY & PLANT THERAPEUTICS	1855103	Employability, Skill Development	Explore the chemical events that cause biological phenomena in living organisms Carry out experiments in R & D. Work with Research guides to produce GMO'S.
M.PHIL MICROBIOLOGY- 56				
852	RESEARCH METHODOLOGY AND ITS APPLICATIONS	1856101	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.
853	ADVANCES IN MICROBIOLOGY	1856102	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.



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854	INDUSTRIAL AND PHARMACEUTICAL MICROBIOLOGY	1856103	Employability	<p>At the end of the course, the student will able to</p> <ul style="list-style-type: none">•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
855	BIOREMEDIATION	1856103	Employability	<p>At the end of the course, the student will able to</p> <ul style="list-style-type: none">•To understand the importance and concepts of bioremediation process.•Provide appropriate scientific knowledge on real-world applications of bioremediation


PRINCIPAL
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