



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution

Affiliated to University of Madras

Arumbakkam, Chennai 600 106

1.1.3 LIST OF COURSES HAVING FOCUS ON EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT DURING THE YEAR 2016-2017

SL. NO	NAME OF THE COURSE	COURSE CODE	EMPLOYABILITY/ ENTREPRENEURSHIP / SKILL DEVELOPMENT	COURSE OUTCOME
	B.A. Economics (SHIFT I) - 01			
1	MICRO ECONOMICS – I	1601101	Employability	The student will understand the basic economic concepts of demand, supply and elasticity which will provide him employment opportunities in the business world.
2	STATISTICS – I	1601102	Skill Development	The student will develop basic skills in designing a questionnaire and tabulation of data.
3	ENTREPRENEURIAL DEVELOPMENT	1601103	Entrepreneurship	The student will understand the steps involved in starting a new venture and the assistance provided by the government.
4	PRINCIPLES OF MANAGEMENT	1601104	Employability	The student will be acquainted with the steps involved in the management of an organization and enhance his employment potential.
5	MICRO ECONOMICS – II	1601205	Employability	The student will know about cost, revenue and the functioning of markets and increase his employment potential.
6	STATISTICS -II	16001206	Skill Development	The student will acquire skills in forecasting and construction of index numbers.
7	MARKETING	1601207	Employability	The student will get employment opportunities in the marketing sector and learn about the basics of how to market his own product in his own business.
8	BASIS OF CAPITAL MARKET	1601208	Employability	The student will be able to obtain employment in the financial sector.
9	INDIAN ECONOMIC DEVELOPMENT AND POLICY-I	1501309	Employability	The student will be understand about the Indian economy and obtain employment.
10	MONETARY ECONOMICS-I	1501310	Skill Development	The student will acquire skills in calculation of value of money and index numbers.
11	WOMEN AND ECONOMIC DEVELOPMENT	1501311	Employability	The student will obtain employment in the industrial sector.
12	INDIAN ECONOMIC DEVELOPMENT AND POLICY-II	1501412	Employability	The student will understand about the functioning of the industrial sector in India and Tamilnadu economy and enhance his employment potential
13	MONETARY ECONOMICS-II	1501413	Employability	The student will gain knowledge regarding the functioning of commercial banks and Reserve bank and increase his employment potential in the banking sector.
14	ELEMENTS OF INSURANCE	1501414	Employability	The student will learn about the features of the various Insurance policies and get employment as an Insurance Agent.
15	MACRO ECONOMICS - I	1401515	Skill Development	The student will acquire skills in the methods of calculating National Income.
16	FISCAL ECONOMICS - I	1401516	Employability	The student gains knowledge regarding the various types of taxes.
17	INTERNATIONAL ECONOMICS - I	1401517	Employability	The student learns about tariffs and quotas and increases his employment potential.


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18	MANAGERIAL ECONOMICS	1401519	Skill Development	The student gains skills on how to price a product and prepare a capital budget.
19	MACRO ECONOMICS - II	1401620	Employability	The student gains knowledge regarding the macro functioning of the economy.
20	FISCAL ECONOMICS – II	1401621	Employability	The student learns about the different fiscal systems in the economy which enhances his employment potential.
21	INTERNATIONAL ECONOMICS – II	1401622	Employability	The student gains knowledge regarding the determination of exchange rate which improves his employment opportunity.
22	ENVIRONMENTAL ECONOMICS	1401623	Skill Development	The student learns about methods of improving environment quality and develop skills to calculate subsidies.
23	HUMAN RESOURCE MANAGEMENT	1401624	Employability	The student learns about the concepts of HRM which improves his employment prospects.
	B.A. Economics (Shift II) - 02			
24	MICRO ECONOMICS-I	1602101	Skill Development, Entrepreneurship	The students developed the skill of analyzing the various aspects of consumer behavior and short run and long run production.
25	STATISTICAL METHODS- I	1602102	Employability, Skill Development	The students will be able to recall and apply the various measures of measuring dispersion and estimate/evaluate their effectiveness.
26	FINANCIAL ACCOUNTING-I	1602103	Employability, Skill Development	The students will have a basic understanding about the basics of accounting and single entry and double entry book-keeping systems
27	ECONOMICS OF TOURISM	1602104	Employability, Skill Development	The course promises employability in various sectors of tourism
28	MICRO ECONOMICS-II	1602205	Employability, Entrepreneurship	The students will gain knowledge on various cost concepts and different types of market structures .
29	STATISTICAL METHODS - II	1602206	Employability, Skill Development	The students will be aware of various statistical tools and its usage under real market conditions
30	FINANCIAL ACCOUNTING II	1602207	Skill Development	The students will have a basic understanding about the basics of accounting procedures different type of partnership firms.
31	COMPUTER AND ITS APPLICATIONS	1602208	Employability	The course offers working knowledge in different domains and promises employability on the completion of the course
32	MARKETING - I	1502309	Entrepreneurship	The students would gain both theoretical and practical knowledge on different concepts of marketing and also encourages the students to transform themselves into entrepreneurs.
33	MONETARY ECONOMICS	1502310	Employability	The course educates the students on the prevailing financial system in the country and also assures employability in the banking sector
34	CORPORATE ACCOUNTING	1502311	Employability	The students will have a basic understanding about the basics of corporate accounting procedures including handling accounts of insurance companies
35	MARKETING II	1502412	Employability, Skill Development	The students would gain both theoretical and practical knowledge on different concepts of marketing and also encourages the students to transform themselves into entrepreneurs.
36	MANAGERIAL ECONOMICS	1502413	Employability, Entrepreneurship	The students will gain practical knowledge about different concepts like demand forecasting and costing procedures.



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37	COST ACCOUNTING	1502414	Employability, Skill Development	The students will theoretical and practical knowledge on different cost concepts
38	MACRO ECONOMICS - I	1402515	Employability, Skill Development	The students will gain in-depth knowledge knowledge in different macro economic concepts and the working of the markets.
39	FISCAL ECONOMICS - I	1402516	Employability	The students will gain knowledge on different concepts of taxation and the course also ensures employability
40	INTERNATIONAL ECONOMICS - I	1402517	Skill Development, Entrepreneurship	The students will gain in-depth knowledge on various concepts of foreign trade
41	HUMAN RESOURCE MANAGEMENT	1402518	Employability, Skill Development	The students will gain knowledge on various practical concepts on job selection and recruitment.
42	INCOME TAX	1402519	Employability, Skill Development	The students will be well aware of various tax related concepts and enables them to attempt various competitive exams
43	MACRO ECONOMICS - II	1402620	Employability, Entrepreneurship	The students will gain in-depth knowledge knowledge in different macro economic concepts and the working of the markets.
44	FISCAL ECONOMICS- II	1402621	Employability	The students will gain knowledge on different concepts on the working of the economy and the course also ensures employability at an administrative level
45	INTERNATIONAL ECONOMICS - II	1402622	Employability, Entrepreneurship	The course educates the students on various international financial agencies and their working and enhances their job opportunities
46	ENTREPRENEURIAL DEVELOPMENT	1402623	Entrepreneurship	The students will be aware of various financial agencies and also encourages entrepreneurship amongst the students.
47	MANAGEMENT ACCOUNTING	1402624	Employability	The students will learn various management accounting concepts and promises employability at various accounting fi
B.B.A - 03				
48	ACCOUNTING FOR MANAGERS –I	1603101	Employability	The Students will gain knowledge on the basics of accounting and will be able to prepare Journal, ledger, trial balance and cash book
49	PRINCIPLES OF MANAGEMENT	1603102	Employability	The Students will be able to understand the nature, scope, role, levels, functions and approaches of management
50	CONSUMER BEHAVIOUR	1603104	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
51	ACCOUNTING FOR MANAGERS –II	1603205	Employability	The students will be able to Interpret cost sheet, compare cost, management & financial accounting, Calculate fund flow and cash flow statements, Evaluate marginal costing and its components, Analyse the various ratio and compare it with standards to assess deviations
52	E-COMMERCE	1603208	Employability	The Students will be able to understand the framewrok and the business of e-commerce
53	BUSINESS COMMUNICATION	1603206	Skill Development	The course educates the students on the basics of Managerial communication and writing
54	FINANCIAL MANAGEMENT	1503309	Employability	The Students will recognize commonly used financial statements, their components and how information from business transactions flows into these statements



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55	MARKETING MANAGEMENT	1503310	Employability	The Students will Understand the fundamental concepts of marketing, application 4P's of marketing and Outline the concepts of buyer behavior, sales management techniques and sales forecasting method
56	HUMAN RESOURCE MANAGEMENT	1503312	Employability	The students will Understand the basic concepts and importance of human resource management and Provide insights on HR planning, recruitment, selection procedures in organization
57	ADVERTISING MANAGEMENT & SALES PROMOTION	1503416	Employability	The course eductaes the students on advertising concepts, its implications, sales promotion techniques ,budgetting and its effectiveness
58	BUSINESS STATISTICS	1503415	Employability	The Students will gain knowledge on different types of data for decision making, analyse the measures of central tendency, will be able to understand the different types of samples to study population
59	BUSINESS TAXATION	1403518	Entrepreneurship	The Students will be able o understand the tax system in India and Outline the Tax audit and relevant taxation procedure
60	BUSINESS LAW	1403519	Entrepreneurship	The students will be able to understand the companies Act, incorporation of companies, contract act and its legal implications
61	ENTREPRENEURIAL DEVELOPMENT	1403520	Entrepreneurship	The Students gain knowledge on the basics of Entrepreneurship, Identify business idea generation techniques and outline project report writing
62	SERVICES MARKETING	1403521	Employability	The Students will be able to Understand the concepts of service, growth of service sector and Demonstrate service marketing with specific sectors
63	ORGANIZATION PSYCHOLOGY	1503312	Entrepreneurship	The Students will be able to Understand the organizational structure, climate and leadership theories
64	BUSINESS ETHICS AND VALUES	1403623	Entrepreneurship	The Students will Understand the significance of ethics, values and types of issues in a business
65	PERSONALITY DEVELOPMENT	1403624	Skill Development	The Students will be educated on the pattern of thoughts, feelings, behavior and communication. They will also be able to identify their personality and balance EQ/IQ levels
	B.Com Banking Management- 04			
66	PRINCIPLES OF FINANCIAL ACCOUNTING	1604101	bility,Entrepreneurship,Skill Dev	Enable learners to get theoretical and practical exposure in the financial accounting which develop the skill enhancement of students
67	BUSINESS MANAGEMENT	1604102	bility,Entrepreneurship,Skill Dev	Enhances the capability of decision making at personal and professional levels. – Makes students industry ready and develop various managerial and accounting skills for better professional opportunities
68	NME- ESSENTIALS OF LANGUAGE AND COMMUNICATION	1604104	bility,Entrepreneurship,Skill Dev	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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69	ADVANCED FINANCIAL ACCOUNTING	1604205	bility,Entrepreneurship,Skill Dev	Enable learners to get theoretical and practical exposure in the financial accounting which develop the skill enhancement of students
70	THEORY OF MONEY AND BANKING	1604206	bility,Entrepreneurship,Skill Dev	The graduation learners develop a thorough understanding of the fundamentals in banking and insurance area.
71	NME - ESSENTIALS OF SPOKEN AND PRESENTATION SKILLS	****	bility,Entrepreneurship,Skill Dev	Provides exposure to business writing, presentation of reports and presentation, basic knowledge of Verbal Skills. Develops the students for interviews and Group discussions, develops students for facing the corporate world
72	CORPORATE ACCOUNTING AND BANK AUDIT	1504309	bility,Entrepreneurship,Skill Dev	Enables learners to get theoretical and practical exposure in the corporate accounting and bank audit which develop the skill enhancement of students
73	LEGAL SYSTEM IN BUSINESS	1504310	bility,Entrepreneurship,Skill Dev	Enhances the capability of decision making at personal and professional levels. – Makes students industry ready and develop various managerial skill in legal business and skills for better professional opportunities.
74	BANKING THEORY LAW AND PRACTICE	1504311	bility,Entrepreneurship,Skill Dev	The graduation learners develop a thorough understanding of the fundamentals in banking and insurance area.
75	ENTREPRENEURIAL DEVELOPMENT	1504312	bility,Entrepreneurship,Skill Dev	Enhances the Entrepreneurial abilities of the students and develops creativity for better functioning of the organisation and Familiarizes students with business planning in different types of entrepreneurs and the evolving concepts of entrepreneurial ship.
76	COMPUTER APPLICATION IN BUSINESS	1504313	bility,Entrepreneurship,Skill Dev	Familiarizes students of E-Commerce infrastructure and the use of it in today's Digital age. • Gives knowledge of programming platform to students by use of VB scripting language • Enhances the use of Excel office productivity tools.
77	ADVANCED CORPORATE ACCOUNTING	1504414	bility,Entrepreneurship,Skill Dev	Enables learners to get theoretical and practical exposure in the advanced corporate accounting which develop the skill enhancement of students
78	FINANCIAL SERVICES AND BANCASSURANCE	1504415	bility,Entrepreneurship,Skill Dev	The graduation learners develop a thorough understanding of the fundamentals in financial services and bancassurance.
79	PRINCIPLES OF INSURANCE	1504416	bility,Entrepreneurship,Skill Dev	The graduation learners develop a thorough understanding of the principles of insurance
80	BANKING ADVANCES	1504417	bility,Entrepreneurship,Skill Dev	The graduation learners develop a thorough understanding of the advancement in banking sector
81	PRINCIPLES OF HUMAN RESOURCE MANAGEMENT	1504418	bility,Entrepreneurship,Skill Dev	On Successful completion of the course the student will be able to enhance the capability of decision making at personal and professional levels and also it makes students industry ready and develop various managerial and accounting skills for better professional opportunities.
82	ENVIRONMENTAL STUDIES	1513412	bility,Entrepreneurship,Skill Dev	On Successful completion of the course the student will be able to aware about waste management. And Exposes learners to the impact of Industrial development
83	MANAGEMENT ACCOUNTING	1404519	bility,Entrepreneurship,Skill Dev	Enables learners to get theoretical and practical exposure in the management accounting which develop the skill enhancement of students



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84	BUSINESS TAXATION	1404520	bility,Entrepreneurship,Skill Dev	On successful completion of the course the student will able to understand in-depth study on the various provisions of Indirect Tax
85	MARKETING	1404521	bility,Entrepreneurship,Skill Dev	The students gain knowledge about the promotion strategy and marketing skills
86	INVESTMENT MANAGEMENT	1404522	bility,Entrepreneurship,Skill Dev	Enhances the capability of decision making at personal and professional levels. – Makes students industry ready and develop various managerial and accounting skills for better professional opportunities.
87	VISUAL BASIC	1404523	bility,Entrepreneurship,Skill Dev	The students gain knowledge about the Payroll Processing and Inventory processing
88	COST ACCOUNTING	1404624	bility,Entrepreneurship,Skill Dev	Enables learners to get theoretical and practical exposure in the cost accounting which develop the skill enhancement of students
89	CUSTOMER RELATIONSHIP MANAGEMENT	1404625	bility,Entrepreneurship,Skill Dev	Enhances the capability of decision making at personal and professional levels. – Makes students industry ready and develop various managerial and skills for better professional opportunities in CRM
90	BANKING TECHNOLOGY AND PERSONALITY SKILLS	1404626	bility,Entrepreneurship,Skill Dev	The graduation learners develop a thorough understanding in various technology updating in Banking sector
91	ORGANISATIONAL BEHAVIOUR	1404627	bility,Entrepreneurship,Skill Dev	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
92	INCOME TAX LAW AND PRACTICE	1404628	bility,Entrepreneurship,Skill Dev	On successful completion of the course the student will able to understand in-depth study on the Income Tax Provisions
	B.Com - General -05			
93	FINANCIAL ACCOUNTING	1605101	Skill Development	To impart basic accounting knowledge as applicable to business.
94	BUSINESS ECONOMICS	1605102	Employability	To acquaint the students with the economic principles applicable to business.
95	BUSINESS MATHEMATICS - I	1608104	Skill Development	To impart basic knowledge on the application of mathematical techniques for decision making in business
96	NME - BASICS OF RETAIL MARKETING	1605103	Employability	To provide basic understanding of the various trends in retail business and motivate them to take up retailing business as their career
97	ADVANCED FINANCIAL ACCOUNTING	1605205	Skill Development	To impart knowledge on accounting and further focus on the accounting procedures applicable to various forms of business
98	BUSINESS COMMUNICATION	1605206	Employability	To develop effective business communication skills among students
99	BUSINESS MATHEMATICS - II	1608211	Skill Development	To understand the fundamentals of Business Mathematics and its application in business.
100	NME - FUNDAMENTALS OF INSURANCE	1605207	Employability	To gain insights on the importance of Insurance sector in India
101	CORPORATE ACCOUNTING I	1505309	Skill Development	To impart knowledge on accounting procedures and standards of Corporate Houses.



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102	BUSINESS LAWS	1505310	Employability	To provide an understanding of legal environment in which business is conducted.
103	BANKING THEORY, LAW AND PRACTICE	1505311	Employability	To introduce the students to banking operations and the legal environment.
104	PRINCIPLES OF MANAGEMENT	1505312	Employability	To impart knowledge on the conceptual framework of business management.
105	BUSINESS STATISTICS & O.R - I	1508322	Skill Development	To gain insights on the application of statistics in business operations
106	CORPORATE ACCOUNTING II	1505415	Skill Development	To enable the students to understand the concept of accounting applicable to certain specific types companies.
107	INDUSTRIAL LAW	1505416	Employability	To familiarize the students on the various Acts applicable to Industries.
108	FINANCIAL SERVICES	1505417	Employability	To provide insights on the role of financial services in the development of the capital market and the economy of the country
109	PRINCIPLES OF MARKETING	1505418	Employability	To acquaint the students about the marketing framework as a means of meeting the needs of customers.
110	BUSINESS STATISTICS & O.R - II	1508427	Skill Development	To gain insights on the application of statistics in business operations.
111	ENVIRONMENTAL STUDIES	15013412	Skill Development	To sensitize students on the issues facing threat to the environment and making them responsible citizens.
112	COST ACCOUNTING	1405521	Skill Development	To explain the basic concepts and the tools used in cost accounting.
113	PRINCIPLES OF FINANCIAL MANAGEMENT	1405522	Skill Development	To explain how finance constitutes the core of any company and emphasize on management of funds
114	PRACTICAL AUDITING	1405523	Employability	To enlighten the students on the various aspects of audit of business accounts.
115	HUMAN RESOURCE MANAGEMENT	1405524	Employability	To examine the various HR practices and techniques.
116	INCOME TAX LAW & PRACTICE I	1405525	Employability	To provide sound knowledge of the important provisions of the Income Tax and their application in solving problems on computation of income of an individual under various heads of income.
117	MANAGEMENT ACCOUNTING	1405626	Skill Development	To provide an understanding of the application of accounting techniques for management.



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118	ENTREPRENEURIAL DEVELOPMENT	1405627	Entrepreneurship	To enable students in understanding the issues pertaining to setting up and running of business.
119	COMPANY LAW	1405628	Employability	To enable the students to understand the legal environment of the corporate.
120	INCOME TAX LAW & PRACTICE II	1405629	Employability, Entrepreneurship	To provide sound knowledge of the important provisions of the Income Tax and their application in solving problems on computation of income.
121	INDIRECT TAXES	1405630	Entrepreneurship	To provide basic knowledge of the important provisions of the Indirect Taxes.
	B.Com - Corporate Secretaryship - 06			
122	FINANCIAL ACCOUNTING	1606101	Employability / Skill Development	At the end of the course the student will acquire the skill on classifying the errors and calculating the various methods depreciation and student will also increase his knowledge on Average due date, preparation of final accounts and single entry system through which he can seek employability.
123	COMPANY LAW AND SECRETARIAL PRACTICE - I	1606102	Entrepreneurship	At the end of the course the student will be able to develop the knowledge on basics of Company, formation of a company, Prospectus share capital and members of the Company through which the student can seek employability
124	MARKETING	1606103	Employability	At the end of the course the student will be able to understand the concept of Marketing, Market Environment and why the market has to be segmented and various ways of distributing the products and due to this the student will learn the behavior of the consumer by this he may seek employability
125	NME - IINTRODUCTION TO FINANCIAL MARKETS	1606104	Employability	At the end of the course the student will be able to learn the basics of money Market and Capital market so that he can seek the employability as a stock market broker and much more
126	ADVANCED FINANCIAL ACCOUNTING	1606205	Employability	At the end of the course the student will understand the accounting procedure for different kinds of business like branch, Royalty, Hire purchase Etc.
127	HUMAN RESOURCE MANAGEMENT	1606206	Skill Development	To familiarize students with various techniques in HRM that contributes to the overall effectiveness of the organization, to bring to the attention of the student the latest trends in managing human resources in an organization
128	BUSINESS COMMUNICATION	1606207	Skill Development	At the end of the programme the student will get exposure to business writing, preparation of reports and presentation.
129	NON MAJOR ELECTIVE – II FUNDAMENTALS OF INSURANCE	1606208	Employability	At the end of the course the student will be able to explore his knowledge about various insurance practices with different insurance companies



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130	CORPORATE ACCOUNTING	1506309	Ability / Skill Development / Entrepreneurship	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
131	COMPANY LAW AND SECRETARIAL PRACTICE - II	1506310	Ability / Skill Development / Entrepreneurship	At the end of the course the student will be able to understand the regulation of registered companies and to provide thorough understanding of the various provisions of the Indian Company law, to provide conceptual understanding of the cases of the company law
132	STATISTICS - I	1506311	Skill Development	To introduce basic concepts of Statistics, to provide statistical techniques for business data analysis
133	CORPORATE FINANCIAL REPORTING	1506412	Skill Development	To enable the student to analyze the financial statement, to understand advanced concepts in accounting and finance to understand the accounting procedure for amalgamation of companies in the nature of merger or purchase
134	BUSINESS MANAGEMENT	1506413	Ability / Skill Development / Entrepreneurship	To enable the students to appreciate the contribution made by management thinkers towards the basic principles and functions of Management, to provide opportunities apply the general functions of management in day to day managerial practice
135	STATISTICS - II	1506414	Skill Development	The student will be able to understand the Statistical techniques for business data analysis
136	COST ACCOUNTING	1406515	Employability / Skill Development	To familiarize the students and the importance of cost ascertainment, reduction and control, to develop the skills needed to apply costing techniques for each element of cost, to help students to understand the procedures to calculate the cost of the product and services
137	BANKING – THEORY, LAW & PRACTICE	1406516	Employability / Skill Development	To expose the students to various concepts Indian banking system, to make the students understand the provision of the banking regulation act 1949
138	INCOME TAX LAW AND PRACTICE - I	1406517	Skill Development	To familiarize the students with the basic concepts of Income tax, to enable the student to compute income from salaries, house properties and business or profession
139	COMMERCIAL LAW	1406518	Entrepreneurship	To assist the students to learn the elements of general contract, to enable the students to understand and deal with various contract in his/her day to day life be it for business or profession, to enable the students to learn and understand the special contracts
140	ENTREPRENEURIAL DEVELOPMENT	1406519	Entrepreneurship	To familiarize the students with the requisites needed for being a successful entrepreneur, to identify the stages involved in the setting of small business unit and to motivate the student to start self-employment
141	MANAGEMENT ACCOUNTING	1406620	Employability / Skill Development	To understand and analyze financial statement to help in managerial decision making, to prepare statements like cash flow and fund flow, budget etc so as to assist the management to take meaningful and correct decision



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142	INDUSTRIAL LAWS	1406621	Employability	To familiarize the students with various labor legislations, to expose the students' legislations relating to welfare of worker
143	INCOME TAX – LAW AND PRACTICE - II	1406622	Skill Development	To enable a student to understand the remaining part of different heads of income, to enable a student to find taxable income
144	INDIRECT TAXES	1406623	Employability / Skill Development	To make the student understand the various indirect taxes in India, to enable the student to understand the indirect tax structure in India
	BCA -07			
145	FUNDAMENTALS OF DIGITAL ELECTRONICS	1607101	Employability, Skill Development	1. Express basic concepts and logic circuits. 2. Capable to design different types of digital logic circuit.
146	PROBLEM SOLVING TECHNIQUES	1607102	Employability, Skill Development	1. Distinguish Relevant and Non-Relevant data 2. Recognize Explicit and Tacit assumptions 3. Explore new Possibilities
147	NME - I CONTEMPORARY MANAGEMENT SKILLS	1607103	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
148	INTRODUCTION TO C++ PROGRAMMING	1607205	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++
149	MICROPROCESSOR AND ITS APPLICATIONS	1607206	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
150	NME - II LOGICAL AND ANALYTICAL REASONING	1607207	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.
151	OBJECT ORIENTED PROGRAMMING USING C++	1507309	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.



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152	MULTIMEDIA	1507310	Employability, Skill Development	<ol style="list-style-type: none">1. To introduce the use of the components of a graphics system and become familiar with building approach of graphics system components and Algorithms2. 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
153	DATA STRUCTURES	1507311	Employability, Skill Development	<ol style="list-style-type: none">1. Understand and remember algorithms and its analysis procedure.2. Introduce the concept of data structures through ADT including List, Stack, 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.
154	PROGRAMMING IN JAVA	1507414	Employability, Skill Development	<ol style="list-style-type: none">1. Use an integrated development environment to write, compile, run, and test simple object-oriented java programs.2. Read and make elementary modifications to Java programs that solve real-world problems.3. Be able to create an application using string concept.4. Be able to create a program using files in application.5. Be able to create an Applet to create an application.6. Identify and fix defects and common security issues in code.
155	OPERATING SYSTEMS	1507415	Employability, Skill Development	<ol style="list-style-type: none">1. To understand the main components of an OS & their functions.2. To study the process management and scheduling.3. To understand various issues in Inter Process Communication (IPC) and the role of OS in IPC.4. To understand the concepts and implementation Memory management policies and virtual memory.5. To understand the working of an OS as a resource manager, file system manager, process manager, memory manager and I/O manager and methods used to implement the different parts of OS.
156	COMPUTER ARCHITECTURE	1507416	Employability, Skill Development	<ol style="list-style-type: none">1. Understand the Theory and Architecture of CPU.2. Use appropriate tool to design and test CPU Architecture.3. Learn the concepts of Processes and Pipelining.



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157	DATABASE MANAGEMENT SYSTEMS	1407519	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>
158	COMPUTER NETWORKS	1407520	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>
159	COMPUTER GRAPHICS	1407521	Employability, Skill Development	<p>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</p> <p>3 Explain the core concepts of Computer Graphics</p>
160	ELECTIVE 1 SOFTWARE ENGINEERING	1407522	Employability, Skill Development	<p>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.</p> <p>3.To gain knowledge about the project scheduling concept in software engineering.</p> <p>4.To learn how to design of software.</p> <p>5.To enable the students to perform testing of a software</p>
161	ELECTIVE 1 OBJECT ORIENTED ANALYSIS AND DESIGN	1407522	Employability, Skill Development	<p>1.Discuss and elaborate the concept of OOAD. 2.Describe the object-oriented approach to system development, modeling objects, relationships and interactions.</p> <p>3. Use the class design for creating software</p> <p>4.Use case studies of object orientation on testing for software development</p>



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162	ELECTIVE 1 DATA MINING	1407522	Employability, Skill Development	<ol style="list-style-type: none">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.
163	.NET PROGRAMMING	1407625	Employability, Skill Development	<ol style="list-style-type: none">1. Set up a programming concept using the basic knowledge of HTML.2. To learn the data types, different controls in VB.NET3. 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 methodologies.6. Course outcome s: At the end of course, the student will be able
164	PHP PROGRAMMING	1407626	Employability, Skill Development	<ol style="list-style-type: none">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 functions3. 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
165	DESIGN AND ANALYSIS OF ALGORITHMS	1407627	Employability, Skill Development	<ol style="list-style-type: none">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
166	ELECTIVE 2 MOBILE COMPUTING	1407628	Employability, Skill Development	<ol style="list-style-type: none">1. Able to create Applications for Smart Phones.2. Able to integrate mobile applications with cloud applications



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167	ELECTIVE 2 CLIENT-SERVER COMPUTING	1407628	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.
168	ELECTIVE 2 OPERATION RESEARCH	1407628	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				
169	OPERATIONS RESEARCH-I	1408531	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.
170	OPERATIONS RESEARCH II	1408636	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.
171	NUMERICAL METHODS I	1508319	Skill Development	The Student will be able to acquire the skill to (i)Solve real world problems using various numerical approximation techniques. (ii)Approximate using various interpolation techniques and solve numerically linear system of equations.
172	NUMERICAL METHODS II	1508424	Skill Development	The Student will be able to acquire the skill to (i)Solve real world problems using interpolation. (ii)Solve Calculus problems by numerical approximation techniques.
173	DISCRETE MATHEMATICS	1408530	Skill Development	The Student will be able to acquire the skill (i)To summarize the notion of mathematical thinking and algorithmic thinking. (ii)To write and evaluate a proof or outline the basic structure of and give examples. (iii)To define how graph serve as models for many standard problems by classifying as graphs, trees, Euler graph, cut set.
174	CLASSICAL ALGEBRA	1608101	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



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175	DIFFERENTIAL CALCULUS	1608102	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.
176	TRIGONOMETRY	1608208	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
177	INTEGRAL CALCULUS	1608209	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.
178	DIFFERENTIAL EQUATIONS	1508317	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.
179	VECTOR CALCULUS AND ANALYTICAL GEOMETRY OF THREE DIMENSIONS	1508422	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.
180	ALGEBRAIC STRUCTURES	1408527	Employability	The Student will be able to apply the following concepts which will help in taking up entrance exam and gain employability opportunities in relevant fields. (i)To demonstrate understanding of the relationships between abstract algebraic structures with familiar numbers systems such as the integers and real numbers. (ii)To produce rigorous proofs of propositions arising in the context of abstract algebra
	B.Sc. Physics -09			
181	MECHANICS AND PROPERTIES OF MATTER	1609101	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	1609204	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	1509309	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	1509411	Employability	This course provides the coherent and concise coverage of the atomic structure, spectra and the applications related to their studies.



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185	ELECTRICITY AND ELECTROMAGNETISM	1409515	Employability	The aim of this course is to acquire knowledge about chemical effects of electric current and understand various circuit laws. The students get strong foundation in magnetism and apply it in the related fields.
186	MATHEMATICAL METHODS IN PHYSICS	1409516	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	1409517	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	1409518	Employability/Entrepreneurship	By studying this course the students will acquire the theoretical and practical knowledge on semiconductor devices and their working.
189	APPLIED ELECTRONICS	1409519	Employability/Entrepreneurship	This course helps 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 be able to design circuits for solving problems.
190	RELATIVITY AND QUANTUM MECHANICS	1409620	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	1409621	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	1409622	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	1409623	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)	1509310	Employability	They possess basic knowledge of programming instructions and interfacing concepts. They can demonstrate relevant generic skills and global competencies such as problem-solving skills and tackle open ended problems.
195	ALLIED PHYSICS II - (FOR B.SC CHEMISTRY STUDENTS)	1509412	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)	1609102	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.
197	ALLIED PHYSICS II - (FOR B.SC MATHS STUDENTS)	1609205	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	1609103	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.



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199	PHYSICS IN EVERYDAY LIFE – II	1609206	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	1609207	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	1509413	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	1409624	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	1409625	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	1409626	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)	1509414	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)	1609208	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.
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	1410517(A)	Employability/Skill Development	This course is offered for students to have exposure to the Laboratory safety practices, Instrumental techniques. The student gets clear idea about the principle and Instrumentation of various techniques which are most useful in chemical Industries.



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210	APPLIED CHEMISTRY	1410622(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	CHEMISTRY I	1611102	Employability/Skill Development	Realize the thermodynamic aspect of various energy Transformations. Apply the concepts of concentration of solution and its redox reactions in Industries
212	BASICS OF MEDICAL TERMINOLOGIES	1611103	Employability	Apply Medical Terms in Health Sectors or Medical Reports preparation. Analyse The Functions of Different Parts of Human body. Interpret Normal Values Of Metabolic Parameters in health related sectors
213	CHEMISTRY OF BIOMOLECULES	1611204	Employability/Skill Development	Understand the classification, structure, functions and the reactions of carbohydrates. Explain amino acids with structure and properties. Gain knowledge on the classification of proteins, levels of structural organization of Proteins,lipids,nucleic acids and its properties
214	EVOLUTIONARY BIOLOGY	1611206	Employability/Skill Development	Understand and explain the terms of evolution Develop and explain the importance of evolutionary studies as a foundation of comparative biology
215	CHEMISTRY II	1611205	Skill Development	Realise the principles of nuclear chemistry with the process involved and have basic knowledge on radioactivity elements. analyse the concepts of chemical kinetics, Interpret the Key Features of Co-ordination Complexes and its biological applications. Understand the chemistry of dyes, sulph drugs, penicillin and vitamins
216	BIO-INSTRUMENTATION - I	1511309	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.
217	MICROBIOLOGY - I	1511310	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.
218	BIO-INSTRUMENTATION - II	1511411	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.



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219	MICROBIOLOGY - II	1511412	Employability/Entrepreneurship /Skill Development	Apply knowledge gained about microorganisms in different fields like dairy, food Industry. Understand the role of microbes in infections and diseases. Develop skills to work in Microbial Industrial sector
220	ENZYMES	1411512	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
221	INTERMEDIARY METABOLISM -I	1411513	Employability/Skill Development	Perform tissue slice technique during research work. Explain the pathways of carbohydrate metabolism in clinical conditions. Knowledge gained on understanding of the detoxification of drugs can be applied in medicinal field.
222	PHYSIOLOGY	1411514	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
223	NUTRITIONAL BIOCHEMISTRY	1411515	Employability/Skill Development	Acquire knowledge about food groups and measure the calorific value of food. Understand the nutritive importance of macronutrients in the body. Comprehend the importance of major and minor trace elements (Minerals),vitamins in the food. Prepare a dietary chart for diabetic and renal failure patients.
224	COMPUTATIONAL METHODS FOR BIOCHEMISTRY	1411516	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.
225	MOLECULAR BIOLOGY	1411617	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
226	CLINICAL BIOCHEMISTRY	1411618	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.



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227	IMMUNOLOGY	1411619	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.
228	INTERMEDIARY METABOLISM -II	1411620	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.
229	TECHNIQUES IN MOLECULAR BIOLOGY	1411621	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				
230	CELL BIOLOGY	1612101	Employability, Skill Development	The student will be able to gain knowledge in structure, function and metabolic processes of cell.
231	MICROBIOLOGY	1612102	Employability, Entrepreneurship, Skill Development	The student will be able to understand various microorganisms and their applications in various fields of biotechnology
232	NME- HERBAL MEDICINE	1612103	Employability, Entrepreneurship, Skill Development	: Students will be able to understand the role of traditional plants in medicine and common adulterants of herbal medicines
233	MOLECULAR DEVELOPMENTAL BIOLOGY	1612204	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
234	Chemistry	1612205		
235	NME - FORENSIC CHEMISTRY	1612206	Employability, Entrepreneurship	: Students will be able to understand the role of traditional plants in medicine and common adulterants of herbal medicines
236	CORE : GENETICS	1512311	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.
237	BIOCHEMISTRY	1512312	Employability, Entrepreneurship	Students will be able to understand about the biomolecules and its role in various metabolic processes.
238	PLANT BIOTECHNOLOGY	1512413	Employability, Entrepreneurship, Skill Development	Students will be able to understand various components required for plant tissue culture and recombinant technology in plants.
239	BIOPHYSICS AND BIOSTATISTICS	1512414	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
240	PAPER –9 CORE ANIMAL BIOTECHNOLOGY AND STEM CELL BIOLOGY	1412518	Employability, Skill Development	Students will be able to gain knowledge about animal tissue culture, strategies of gene transfer and various types of stem cells.



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241	ENVIRONMENTAL BIOTECHNOLOGY	1412519	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
242	IMMUNOLOGY	1412520	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
243	PHARMACEUTICAL BIOTECHNOLOGY	1412521	Employability, Entrepreneurship, Skill Development	Students will be able to understand the action of drugs in system and by system, drug designing and basics of gene therapy.
244	MARINE BIOTECHNOLOGY	1412522	Employability, Entrepreneurship, Skill Development	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
245	GENETIC ENGINEERING	1412623	Employability, Entrepreneurship, Skill Development	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
246	BIOINFORMATICS	1412624	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
247	PAPER –15 CORE MICROBIAL TECHNOLOGY	1412625	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.
248	TECHNIQUES IN BIOLOGY	1412626	Employability, Skill Development	Students will be able to gain knowledge on microscopy, electrophoretic, chromatographic and radiolabelling techniques involved in biology.
249	INTELLECTUAL PROPERTY RIGHTS, BIOSAFETY AND BIOETHICS	1412627	Employability	Students will be able to understand the importance of Intellectual property rights, biosafety and bioethics in biotechnology
	B.Sc Plant Biology & Plant Biotechnology -13			
250	HORTICULTURE AND MUSHROOM CULTIVATION	1413517	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
251	VERMITECHNOLOGY (NME)	1613103	Employability/Entrepreneurship	Students after completing this course will acquire skills in techniques of Plant growth & development. They acquire skill knowledge in cultivating Mushrooms. This course will enable them to become a successful Entrepreneur.
252	B.Sc Visual Communication -14			



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253	ART AND AESTHETICS	1614102	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.
254	DRAWING	1614104	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.
255	GRAPHIC DESIGN	1614105	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.
256	WRITING FOR MEDIA	1614206	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.
257	DRAWING II	1614209	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.
258	GRAPHIC DESIGN-II	1614210	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.
259	COMPUTER GRAPHICS	1514313	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.
260	PHOTOGRAPHY	1514314	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.
261	MULTIMEDIA	1514417	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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262	DIGITAL CINEMATOGRAPHY	1514418	Employability/Skill Development	At the end of the Course, the Student will be able to understand cinematic terms. They will enhance their skills by creating radio jingles, PSA, and small budget films or TV series.
263	AUDIO VISUAL TECHNIQUES	1414522	Employability/Skill Development	At the end of the Course, the Student will be able to enhance their skill on computing and creating short films. They will be able to indicate the social issues and relate them with the usage of audio visual concepts.
264	3DS MAX AND MAYA	1414524	Employability	At the end of the Course, the Student will be able to apply audio and video production techniques to an Animation project. This adds up to their employability skills. They would be able to develop portfolios based on texturing, creating anatomy models, portfolios based on rigging and set modelling.
B Sc Computer Science -15				
265	FUNDAMENTALS OF DIGITAL ELECTRONICS	1615101	Employability, Skill Development	1. Express basic concepts and logic circuits. 2. Capable to design different types of digital logic circuit
266	PROBLEM SOLVING TECHNIQUES	1615102	Employability, Skill Development	1. Distinguish Relevant and Non-Relevant data 2. Recognize Explicit and Tacit assumptions 3. Explore new Possibilities
267	NME I: LOGICAL AND ANALYTICAL REASONING	1615103	Employability, Skill Development	1.Active learning design principles are evident in each lesson. 2.Students will be expected to actively do mathematics—such as analyzing data, constructing hypotheses, solving problems, reflecting on their work, and making connections.
268	INTRODUCTION TO C++ PROGRAMMING	1615205	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++
269	MICROPROCESSOR AND ITS APPLICATIONS	1615206	Employability, Skill Development	1. Understand the architecture of 8085 and 8086. 2. Impart the knowledge about the instruction set. 3. Understand the basic idea about the data transfer schemes and its applications
270	CONTEMPORARY MANAGEMENT SKILLS	1615207	Employability, 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
271	OBJECT ORIENTED PROGRAMMING USING C++	1515309	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.



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272	DATA STRUCTURES AND ALGORITHMS	1515310	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
273	JAVA PROGRAMMING	1515412	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.
274	COMPUTER ARCHITECTURE	1515413	Employability, Skill Development	1. Understand the Theory and Architecture of CPU. 2. Use appropriate tool to design and test CPU Architecture. 3. Learn the concepts of Processes and Pipelining.
275	OPERATING SYSTEM	1415515	Employability, Skill Development	1. To understand the main components of an OS & their functions. 2. To study the process management and scheduling. 3. To understand various issues in Inter Process Communication (IPC) and the role of OS in IPC. 4. To understand the concepts and implementation Memory management policies and virtual memory. 5. To understand the working of an OS as a resource manager, file system manager, process manager, memory manager and I/O manager and methods used to implement the different parts of OS.
276	DATABASE MANAGEMENT SYSTEMS	1415516	Employability, Skill Development	1. To understand the main components of an OS & their functions. 2. To study the process management and scheduling. 3. To understand various issues in Inter Process Communication (IPC) and the role of OS in IPC. 4. To understand the concepts and implementation Memory management policies and virtual memory. 5. To understand the working of an OS as a resource manager, file system manager, process manager, memory manager and I/O manager and methods used to implement the different parts of OS.
277	COMPUTER GRAPHICS	1415517	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. Apply the concepts of color models 3. Explain the core concepts of Computer Graphics
278	VISUAL PROGRAMMING	1415518	Employability, Skill Development	1. To Develop an Event Planning Chart based on problem description so as to define the processing that is to occur based on specific events. 2. Apply Graphical User Interface (GUI) based on problem description.



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279	DATA COMMUNICATION AND NETWORKING	1415621	Employability, Skill Development	1.To develop an understanding of modern network architectures from a design and performance perspective. 2.To introduce the student to the major concepts involved in wide-area networks (WANs), local area networks (LANs) and Wireless LANs (WLANs). 3.To clarify network terminology. 4.To provide an opportunity to do network programming using TCP/IP. 5.To give the students experience working in programming teams. 6.To provide a WLAN measurement experience. 7.To expose students to emerging technologies and their potential impact.
280	WEB PROGRAMMING	1415622	Employability, Skill Development	1. Structuring the HTML tags, Lists, Tables, Frames, Forms and Forms elements. 2. Emphasizing the DHTML Style Sheets, linking a Style Sheet and Web page designing 3. To point out Form object, User Defined Object and Cookies. 4. Creating ASP.Net applications using standard .net controls to develop a data driven web application for Connecting to data sources and managing them.
281	SOFTWARE ENGINEERING	1415623	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.
282	PHP PROGRAMMING	1415624	Employability, Skill Development	1. To make the students learn best practices in programming approach 2. Enable the students to create attractive web pages using hypertext
	M.Com -20			
283	ADVANCED CORPORATE ACCOUNTING I	1620101	Skill Development	To impart profound knowledge on accounting procedures and standards of corporate houses.
284	FINANCIAL MANAGEMENT	1620102	Employability	To enable students to acquire knowledge on various tools and techniques in making sound financial decisions.
285	CONSUMER BEHAVIOUR	1620103	Employability	To understand the strategic implications of consumer influences on marketing decisions.
286	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1620104	Employability	To introduce the concept and impact of Logistics and Supply Chain Management with a competitive strategy overview.
287	ADVANCED STATISTICS	1621106	Skill Development	To acquaint students on various advanced statistical techniques applicable in business.
288	ADVANCED CORPORATE ACCOUNTING II	1620205	Skill Development	To enable students in understanding the application of various accounting standards.
289	SERVICE MARKETING	1620206	Employability	To introduce the concepts of service marketing, explain how service features result in certain unique problems in marketing and provide an insight into the marketing strategies.
290	CORPORATE LAWS	1620207	Employability	To gain insight on the various concepts and laws pertaining to corporate houses.



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291	CORPORATE GOVERNANCE, ETHICS, AND RESPONSIBILITY OF BUSINESS	1620208	Employability	To educate students on corporate governance and business ethics.
292	RESOURCE MANAGEMENT TECHNIQUE	1621212	Skill Development	To enable students acquire knowledge on various techniques and models relevant in managing resources of the organization.
293	ACCOUNTING FOR MANAGERS - I	1520309	Skill Development	To impart knowledge on various advanced techniques and systems used in cost accounting.
294	RESEARCH METHODOLOGY	1520310	Skill Development	To impart in-depth insights on various methods used in Research
295	TAX MANAGEMENT - DIRECT TAX	1520311	Employability	To impart knowledge of the important provisions pertaining to Direct Taxes.
296	MANAGERIAL ECONOMICS	1520312	Employability	To focus on the application of Economics in Managing Business
297	INDIA'S FOREIGN TRADE AND INVESTMENT	1520313	Employability	Outcome of this course is to acquaint the students with structure and policy framewok of India's Foreign Trade and Investment.
298	ACCOUNTING FOR MANAGERS - II	1520416	Skill Development	To impart indepth knowledge in application of Management tools in Business.
299	ADVERTISEMENT AND SALESMANSHIP	1520417	Employability	To develop an in-depth understanding of the modern concepts and latest techniques of advertising, personal selling and sales force management which constitute a fastgrowing area of marketing.
300	ORGANIZATIONAL BEHAVIOUR	1520418	Employability	To understand and appreciate individual and group behavior in an organization.
301	INDIRECT TAXES	1520419	Employability	To impart knowledge of the important provisions pertaining to Indirect Taxes.
	M.Sc. Mathematics -21			
302	GRAPH THEORY	1621104	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.
303	FUZZY SETS AND THEIR APPLICATIONS	1621211	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.
304	NUMBER THEORY AND CRYPTOGRAPHY	1521317	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.
305	ALGEBRA-I	1621101	Employability	The Student will be able to explain Quadratic forms with suitable examples and apply them to problems
306	REAL ANALYSIS-I	1621102	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.



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307	PROBABILITY THEORY	1621103	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.
308	NUMERICAL ANALYSIS	1621105	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.
309	ALGEBRA-II	1621207	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
310	REAL ANALYSIS-II	1621208	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 .
311	DIFFERENTIAL EQUATIONS	1621209	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.
312	MATHEMATICAL STATISTICS	1621210	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.
313	COMPLEX ANALYSIS-I	1521313	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
314	TOPOLOGY	1521314	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.
315	MECHANICS	1521315	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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316	DIFFERENTIAL GEOMETRY	1521316	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.
317	COMPLEX ANALYSIS-II	1521418	Employability	(i) Determine the infinite product representation of Riemann zeta function and explore Riemann mapping theorem for simply connected regions.
318	FUNCTIONAL ANALYSIS	1521419	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.
319	TENSOR ANALYSIS AND THEORY OF RELATIVITY	1521420	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.
320	FLUID DYNAMICS	1521421	Employability	(i) Restate the kinematics of a moving fluid. (ii) Demonstrate the applications of Milne Thomson Circle theorem with examples.
321	INTEGRAL EQUATIONS AND CALCULUS OF VARIATIONS	1521422	Employability	(i) Recognize and solve initial value problems and boundary value problems (ii) Explore the methods for finding extreme values of functionals (iii) Demonstrate the application of variational problems with moving boundaries and field of extremals using Jacobi and Legendre conditions
	M.Sc. Physics - 22			.
324	MATHEMATICAL PHYSICS I	1622101	Employability/Entrepreneurship /Skill Development	Course Outcomes: At the end of the Course, the Student will be able to: Learn about Gradient, Divergence, Curl, Laplace and their typical applications in Physics. Learn about all matrices that are relevant in Physics. Understand Bernoulli, Toricelli theorem and its significance. Get introduced Dirac delta function. Knowledgeable with symmetry operations in order to construct a character table for different compounds.
325	CLASSICAL MECHANICS AND RELATIVITY	1622102	Employability/Entrepreneurship /Skill Development	At the end of the Course, the Student will be able to: The Coriolis force in classical mechanics, the significance of conservation laws. Basic ideas about four vectors, Minkowski space. Dynamics of and ideas regarding Eigen values.
326	QUANTUM MECHANICS I	1622103	Employability/Entrepreneurship /Skill Development	At the end of the Course, the Student will be able to: Theory of simple harmonic oscillator and its application, concepts of perturbation theory, the derivation of Schrodinger formulations of time development and their applications, realize the industrial applications of Stark effect and also the usefulness of Eigen values.



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327	INTEGRATED ELECTRONICS	1622104	Employability/Entrepreneurship /Skill Development	At the end of the Course, the Student will be able to: Field effect transistors (FET), MOSFET, UJT, SCR, their principles and applications, transducer bridge and their working in detail, the application of operational amplifier in filter circuits and timer 555 as VCO, the basis of digital electronics is the use of logic gates as flip flops and realizing how flip flops are used in the construction of counters and registers.
328	MATHEMATICAL PHYSICS II	1622205	Employability/Entrepreneurship /Skill Development	At the end of the Course, the Student will be able to: know the method of Fourier transform to evaluate definite integrals of varying complexity, having gained ability to apply Laurent's and Taylor's series to Physics problems, deeper understanding of tensors and probability theory, another interesting aspect is the study of full-wave rectifier.
329	QUANTUM MECHANICS II	1622206	Employability/Entrepreneurship /Skill Development	At the end of the Course, the Student will be able to: Relativistic Quantum Mechanics using Dirac equation, Dirac matrices, the Klein Gordon equation, etc., perturbation theory and Einstein's coefficient which are mathematical quantities, a measure of probability of absorption or emission of light useful in lasers, realizing in Physics the optical theorem helps to understand the wave-scattering theory
330	ELECTIVE PAPER I - SPECTROSCOPY	1622207	Employability/Entrepreneurship /Skill Development	At the end of the Course, the Student will be able to: know about centrifugal distortion and zero-point energy of simple-harmonic oscillator, having gained the ability to apply the techniques of Raman, IR activity to elucidate the structure of molecules, be able to apply the principle of Raman spectroscopy, UV-Vis and FTIR its applications in the different field of Science and technology, to become familiar with different resonance spectroscopic techniques and its applications
331	PAPER X - DISCIPLINARY PAPER I - MICROPROCESSOR FUNDAMENTALS - 8085	1622208	Employability/Entrepreneurship /Skill Development	At the end of the Course, the Student will be able to: learn assembly language programming and arithmetic, aware of memory interfacing, and different data transfer schemes, learn interfacing with peripheral I/O devices, the relevance of RAM and ROM in microprocessor, the hierarchy of interrupts, learn common applications of microprocessors
332	STATISTICAL MECHANICS	1522311	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
333	ELECTROMAGNETIC THEORY & PLASMA PHYSICS	1522312	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



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334	ELECTIVE II - MICROPROCESSOR 8086 AND MICROCONTROLLER 8051	1522313	Employability/Entrepreneurship /Skill Development	At the end of the Course, the Student will be able to: learn assembly language programming and arithmetic, aware of memory interfacing, and different data transfer schemes, learn interfacing with peripheral I/O devices, the relevance of RAM and ROM in microprocessor, the hierarchy of interrupts, learn common applications of microprocessors
335	EXTRA DISCIPLINARY PAPER II - MATERIALS SYNTHESIS AND CHARACTERIZATION	1522314	Employability/Entrepreneurship /Skill Development	At the end of the Course, the Student will be able to: Carryout crystal growth practically in a lab, to describe the formation and use of X-rays in Material Science and Engineering Applications, the mechanism of crystal growth and the parameters that can influence the crystal growth, by knowing the different crystal growth techniques, the students can seek a job both in the semiconductor industry and national labs, design nanotubes for specific applications for specific applications
336	CONDENSED MATTER PHYSICS	1522415	Employability/Entrepreneurship /Skill Development	At the end of the Course, the Student will be able to: have a basic knowledge of crystal systems and spatial symmetries, account how crystalline materials are studied using Bragg's law, be able to differentiate Type I and Type II superconductivity and realize the current applications of high temperature superconductors, derive Kronig-Penney equation and understand how the periodic structure of a crystal behaves in an electromagnetic field
337	NUCLEAR AND PARTICLE PHYSICS	1522416	Employability/Skill Development	At the end of the Course, the Student will be able to: have a basic knowledge of nuclear size, shape, binding energy, Q-value, etc., the characteristics of nucleon-nucleon in detail, be able to gain knowledge about magic numbers, have a wide understanding regarding Fermi's theory of beta decay, understand the basic forces in nature and classification of particles
338	ELECTIVE III - COMPUTATIONAL METHODS AND C PROGRAMMING	1522417	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			
339	BIOMOLECULES	1624101	Employability	obtain knowledge on levels of structural organization of proteins, lipids. Carbohydrates and enable them to work in food related Industries. Skills acquired can be used to analyze the properties of macromolecules. Relate the knowledge of biomolecular structure to applications in medicine
340	INTERMEDIARY METABOLISM -I	1624102	Employability	Acquire adequate knowledge in various pathways in intermediary metabolism and bioenergetics. Apply the knowledge in Clinical applications. Acquire skill to develop drugs and trace the metabolism.



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341	INTERMEDIARY METABOLISM-II	1624103	Employability	Use the skills in blood report analysis Trace the anabolic and catabolic pathways of purine and pyrimidine synthesis Comprehend the metabolism of amino acids.
342	ENZYMES	1624104	Employability/Skill Development	Enhances their ability in characterization of enzymes and used in R & D industries. Develop new enzymes using basic raw materials. Gain knowledge on role of cofactors
343	MEMBRANE BIOCHEMISTRY	1624105	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
344	ANALYTICAL BIOCHEMISTRY	1624206	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.
345	PHYSIOLOGY	1624207	Employability/Entrepreneurship /Skill Development	Apply the physiological concepts in various industries such as pharmaceutical companies & R & D areas in various institutes and companies. Acquire knowledge to carry out blood grouping experiments in blood samples.
346		1624208		
347	FOOD & NUTRITION	1624209	Employability/Skill Development	Gain knowledge on the physiological significance of carbohydrates, proteins and fats in the body and can be used in nutrition related fields. Understand the biological significance of phytochemicals. Prepare a dietary chart for diabetic and renal failure patients and can become nutritionist.
348	BIOETHICS, IPR & HR	1624210	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.



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349	CLINICAL BIOCHEMISTRY	1524313	Employability/Entrepreneurship /Skill Development	Become clinical researcher , clinical Trials and related documentation preparation personnel. Become Entrepreneurs by setting up their own clinical laboratories.
350	BIOSTATISTICS	1524314	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.
351	MICROBIOLOGY	1524315	Employability/Entrepreneurship	understand the concept of recombination, elucidate gene transfer mechanisms Understand the host microbe interaction in and knowledge can be employed in health and disease sector. Set up small scale industries related to dairy products.
352	CELL & MOLECULAR ENDOCRINOLOGY	1524316	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
353	BIOCHEMISTRY OF CLONING VECTORS	1524317	Skill Development	Develop an understanding of several cloning vectors Design a workflow to carry out recombinant DNA technology experiment. Acquire skills to work in lifescience related research Institutes.
354	BIOTECHNOLOGY	1524418	Employability/Entrepreneurship /Skill Development	Apply protocols for basic experimental work within the field of molecular biology and biochemistry Gain work experience in Food, animal, and environmental science Learn and apply IVF techniques and procedures in hospitals.
355	IMMUNOLOGY	1524419	Employability/Skill Development	Understanding of the overview of immune system including cells, organs and vaccines. Expertise in testing Immunological kits. carry out and analyse tests on patients with a range of immune system disorders
356	BIOINFORMATICS	1524420	Employability/Skill Development	Search large databases, interpret their results during higher studies. Analyze gene expression data from microarrays or RNA sequencing in lifescience related jobs. Perform alignment using different alignment tools and interpret it in study of evolution.
	M.Sc. BioTechnology -25			



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357	BIOCHEMISTRY AND BIOMOLECULES	1625101	Employability, Skill Development	The students would learn about composition, structure and functions of Biomolecules and also about various metabolic pathways and importance of biochemistry
358	MICROBIOLOGY AND IMMUNOLOGY	1625102	Employability, Entrepreneurship, Skill Development	The students would learn about composition, structure and functions of Biomolecules and also about various metabolic pathways and importance of biochemistry
359	MOLECULAR CELL BIOLOGY	1625103	Employability, Skill Development	Students will be able to emphasize conceptual appreciation of the molecular interplays which forms the basis of "chemical processes" in living systems and its application in biotechnology.
360	MOLECULAR GENETICS	1625104	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.
361	MOLECULAR DEVELOPMENTAL BIOLOGY	1625105	Employability, Skill Development	The students will be able to know cellular mechanisms in embryology, essential for doing research in developmental biology
362	ANIMAL BIOTECHNOLOGY	1625206	Employability, Entrepreneurship, Skill Development	The student will be exposed to the application of culture techniques to improve the quality and quantity of the animal derived products
363	PLANT BIOTECHNOLOGY	1625207	Employability, Entrepreneurship, Skill Development	The students will gain 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 soma clonal variation
364	GENETIC ENGINEERING	1625208	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
365	BIOINFORMATICS	1625209	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
366	ELECTIVE MARINE BIOTECHNOLOGY	1625210	Employability, Entrepreneurship	The students will gain knowledge on marine biodiversity and its economy in context to global change. Students will also get better understanding about marine bioresources and its biotechnological application
367	MICROBIAL BIOPROCESS TECHNOLOGY	1525313	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
368	ENZYMES AND ENZYME TECHNOLOGY	1525314	Employability, Entrepreneurship, Skill Development	The students get the basic understanding of enzyme function as biocatalysts and fermentation in various aspects of biotechnology
369	ENVIRONMENTAL BIOTECHNOLOGY	1525315	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



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370	ELECTIVE RESEARCH METHODOLOGY, BIOETHICS& BIOSTATISTICS	1525316	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.
371	ELECTIVE BIOPHYSICS & BIOINSTRUMENTATION	1525317	Employability, Skill Development	The students will be able to understand the principles of various molecular techniques and also will be able to improve their basic knowledge on imaging and diagnostic techniques and their clinical application
372	ELECTIVE TISSUE ENGINEERING	1525318	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
373	ELECTIVE PHARMACEUTICAL BIOTECHNOLOGY	1525319	Employability, Entrepreneurship, Skill Development	The students will be able to understand the basic concepts, scope and applications of Pharmacology, drug designing and gene therapy
M.Sc. Applied Microbiology -26				
374	FUNDAMENTALS OF MICROBIOLOGY AND MICROBIAL PHYSIOLOGY	1626101	Employability	At the end of the course, the student will be able to emphasize the classification principles, learn about bacterial cell structure, staining methods, bacterial nutritional requirements, and several ways of bacterial growth assessment. Master in aseptic techniques and be able to safely and successfully conduct routine culture handling duties. Understand the principles of operation and usage of various types of microscopes, as well as sample preparation and staining techniques.
375	MEDICAL MICROBIOLOGY	1626102	Employability, Entrepreneurship	At the end of the course, the student will be able to evaluate the importance of normal flora of human body and acquire knowledge on the process of infectious disease, learn the fundamentals of medical microbiology and investigate how pathogenic organisms cause disease in human beings and animals. Assemble a list of disease-causing bacteria and evaluate their infection mechanisms, symptoms, diagnosis, and treatment.
376	BASICS IN IMMUNOLOGY AND IMMUNOTECHNOLOGY	1626103	Employability, Skill Development	At the end of the course, the student will be able to understand the immune system and their responses to humoral and cell-mediated immunity, as well as ABO and Rh incompatibility. Investigate the various types of foreign substances and antibody classes involved in antigen antibody reactions.
377	MOLECULAR BIOLOGY AND MICROBIAL GENETICS	1626104	Employability, Skill Development	On the onset, the student will able to understand the theory of central dogma of molecular biology, examine the molecular mechanisms that underpin mutations, DNA damage, and DNA repair. Understand the molecular mechanisms of transcription and translation, and compare and contrast RNA and protein synthesis in prokaryotes and eukaryotes. Explain the significance of the genetic code and the concept of gene control in terms of operons.



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378	BIOINFORMATICS	1626105	Employability, Entrepreneurship, Skill Development	At the end of the course, the student will be able to understand the fundamental ideas of biological data analysis and tools for submitting and retrieving sequences. Knows the computational methods, tools and algorithms employed for biological data interpretation, strategies and tools that are employed in phylogenetic analysis.
379	FOOD, DAIRY AND INDUSTRIAL MICROBIOLOGY	1626207	Employability, Entrepreneurship	On the onset, the student will able to understand the mechanisms of food spoilage and how to prevent deterioration and spoilage, apply principles including various methods of food preservation and microbiological quality control. Recognize the importance of milk and milk product microflora and learn the fundamentals of food safety regulations, food regulatory agencies, and quality assurance programs such as FDA, HACCP, BIS, and FSSAI. This knowledge helps to place in food industry.
380	SOIL AND AGRICULTURAL MICROBIOLOGY	1626208	Employability	At the end of the course, the student will able to understand the origin, profile, and types of soils, how microbes are distributed in soil and to learn how nitrogen fixers and phosphorus solubilizers contribute to soil fertility. Basic knowledge and the trouble shooting leads the students got employed in agricultural sector.
381	ENVIRONMENTAL MICROBIOLOGY	1626209	Employability, Entrepreneurship	On the onset, the student will 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.
382	PHARMACEUTICAL MICROBIOLOGY	1626210	Employability, Skill Development	At the end of the course, the student will able to understand the Good Manufacturing Practice (GMP) and Good Laboratory Practice (GLP) guidelines and better control for In-Process and Final Product Control. Helps to obtain solid knowledge and be completely prepared for a career in the pharmaceutical and biomedical science industries. Formulate antibiotics, therapeutic enzymes, and immunological products using IP, BP, USP, and EP standards in the pharmaceutical sector.
383	TISSUE BIOTECHNOLOGY	1626211	Employability, Entrepreneurship	At the end of the course, the students will be able learn about the methodologies, laboratory structure, and apply aseptic procedures to keep the environment as clean as possible and explain the scientific principles that underpin cell culture and the nutritional requirements that it necessitates.



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384	BIOINSTRUMENTATION	1526316	Employability	At the end of the course, the student will be able to 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.
385	RECOMBINANT DNA TECHNOLOGY	1526317	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.
386	MICROBIAL PRODUCTS	1526318	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	BIOPROCESS TECHNOLOGY	1526319	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.
388	NANOBIOTECHNOLOGY	1526320	Employability, Skill Development	At the end of the course, the student will be able to understand the interactions between biomolecules and nanoparticle surfaces, as well as their applications, by learning about the many methods of nanoparticle creation, including physical, chemical, and biological processes. Gain a solid understanding of the principles of a variety of physical and chemical characterisation techniques.
389	BIOSAFETY AND CLINICAL RESEARCH	1526422	Employability, Entrepreneurship, Skill Development	At the end of the course, the student will be able to develop knowledge on laboratory risks and implementation of biosafety procedures. To independently execute bioassay techniques for biotherapeutics, nutraceutical products, vaccines and antibiotics.
M.Sc. Computer Science -27				
390	DESIGN AND ANALYSIS OF ALGORITHMS	1627101	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.



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391	VISUAL PROGRAMMING USING VB.NET	1627102	Employability	1.Build integrated VB.NET solutions using files and structures with printing capabilities 2.Translate general requirements into data-related solutions using database concepts
392	OPTIMIZATION TECHNIQUES AND AUTOMATA THEORY	1627103	Skill Development	1.Understand the basic concepts of formal languages, automata and grammar types, as well as the use of formal languages and reduction in normal forms. 2.Demonstrate the relation between regular expressions, automata, languages and grammar with formal mathematical methods. 3.Design push down automata, cellular automata and turing machines performing tasks of moderate complexity.
393	PROGRAMMING IN PHP	1627104	Employability	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 Session and AJAX Learn the concepts of File System. Working with Forms and Implementation of Regular Expressions in Forms.
394	OBJECT ORIENTED SOFTWARE ENGINEERING	1627105	Employability	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. 3.Design the UML concepts like sequential, Use cases and Activity diagram.
395	DIGITAL IMAGE PROCESSING	1627208	Skill Development	1.Describe the fundamentals of image processing and its applications. 2.Gain adequate knowledge of Image enhancement techniques in spatial domain. 3.Detailed classification of Image enhancement techniques in frequency domain and compare with spatial domain techniques.
396	ADVANCED DATABASE MANAGEMENT SYSTEMS	1627209	Employability	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.



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397	ENTERPRISE COMPUTING	1627210	Entrepreneurship	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.
398	PROGRAMMING IN PYTHON	1627211	Employability	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.
399	WAP AND XML	1627212	Employability	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.
400	SOFTWARE TESTING	1527315	Employability,Skill Development	1.To study fundamental concepts in software testing 2.To discuss various software testing issues and solutions in software unit test, integration and system testing. 3.To expose the advanced software testing topics, such as object-oriented software testing methods.
401	DATA MINING	1527316	Employability,Skill Development	1.Appreciate the basic principles, concepts and applications of data warehousing and data mining. 2.Have a good knowledge of the preprocessing techniques. 3.Perform Data Mining using association rules.
402	WEBFRAMEWORKS	1527317	Employability	1.Build their own beautiful, fully-functioning, full-stack websites as quickly as possible.
403	SOFT COMPUTING	1527318	Skill Development	1.Gain basic knowledge of Artificial Neural Network, Fuzzy logic and Genetic algorithms 2.Analyse different neural network architectures 3.Get insight into classical sets and fuzzy sets
404	CRYPTOGRAPHY	1527319	Employability,Skill Development	1.Gain knowledge about Conventional encryption model. 2.Analyse Euclidean Algorithm and Number theory. 3.Understanding Key exchanges.
	M,Sc. Information Technology -28			
405	PROGRAMMING IN JAVA	1628101	Employability	1.Apply object oriented programming features and concepts for solving given problems. 2.Use Applets and File streams to write complex programs and implement network concepts using java



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406	COMPUTER ORGANIZATION AND ARCHITECTURE	1628102	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
407	DATABASE MANAGEMENT SYSTEMS	1628103	Employability	<ol style="list-style-type: none">1.Describe a database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.2.Design ER-models to represent simple database application scenarios. Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data for current needs. Develop applications using DDL, DML queries. <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>
408	DATA STRUCTURES AND ALGORITHMS	1628104	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.
409	VISUAL PROGRAMMING USING VB.NET	1628105	Employability	<ol style="list-style-type: none">1.Design, formulate, and construct applications with VB.NET. and ADO.NET.2.Integrate variables and constants into calculations applying VB.NET.



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410	OPERATING SYSTEMS	1628208	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
411	ENTERPRISE COMPUTING	1628209	Skill Development,Employability	<ol style="list-style-type: none">1.Understand various concepts of Enterprise Computing, analyze and implement the RMI Architecture for the necessary applications.2.Implement Session management using Servlet and implement JDBC for the database connectivity.3.Develop Web applications using JSP and JSP error pages.4.Design an application that sends and receives email with attachments.5.Implement Database connectivity through Hibernate Framework and also build web applications using Spring MVC.6.Study and use modern tools for rapidly building enterprise applications.



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412	OBJECT ORIENTED SOFTWARE ENGINEERING	1628210	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	PROGRAMMING IN PHP	1628211	Employability	<p>1.Develop the knowledge of Hardware and Software requirements, Installation of PHP, data types, different types of operators and Control Structures in PHP.</p> <p>2.Implementation of arrays, Looping Structures, Functions in PHP.</p> <p>3.Learn the concepts of File System. Working with Forms and Implementation of Regular Expressions in Forms.</p> <p>4.Gain the Knowledge of OOPS concept.</p> <p>5.Implementation of Database Connectivity using MYSQL and Learn the concepts of Cookies.</p> <p>6.Implementation of Session and AJAX</p>
414	DATA MINING	1628212	Employability	<p>1.Have a good knowledge of the preprocessing techniques.</p> <p>2.To perform Data Mining using association rules</p>



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415	COMPUTER NETWORKS	1528315	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. Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies.
416	SOFTWARE TESTING	1528316	Employability	<ol style="list-style-type: none">1. Discuss about the concept of bugs and analyses the principles in software testing to prevent and remove bugs.2. Discuss about domains and path3. Analyze Linguistic and Structural Metric4. Discuss about Verification and Validation. Analyse various levels of Testing, Testing Approaches, and Types of Testing & Test Plan. Analyze Defect Management5. Discuss about Acceptance testing and special test.6. Analyze various automation testing tools. Gain the knowledge about various testing tools. "
417	WEB FRAMEWORKS	1528317	Skill Development,Employability	<ol style="list-style-type: none">1. Know how to install and configure Ruby, Rails, and any associated packages .2. Explore the Model-View-Controller architecture.
418	INTERNET TECHNOLOGY	1528318	Entrepreneurship,Employability	<ol style="list-style-type: none">1. Acquire the knowledge of .NET environment. Expertise the fundamental concepts in developing the basics of C# programming.2. Develop, compile and execute console application in C# using object-oriented concepts. Construct console application in C# program using delegates and events.



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419	CRYPTOGRAPHY	1528319	Skill Development, Employability	1. Gain knowledge about Conventional encryption model 2. Analyse Euclidean Algorithm and Number theory 3. Understanding Key exchanges. 4. Detailed representation of Hashing functions. 5. Describe the various Digital signatures logic. 6. Apply different encryption and decryption techniques
M.C.A.(SHIFT - I) - 29				
420	Object Oriented Programming in C++	1629101	Skill Development	Apply the concepts of object oriented programming, Implement simple graphical user interfaces.
421	Computer Organization and Architecture	1629102	Employability, Skill Development	Design basic electronic Circuits (combinational circuits), Learn the concepts of parallel processing, pipelining and inter processor communication Summarize the architecture and functionality of central processing unit.
422	Business Processing	1629103	Employability, Skill Development	Appreciate various alternative techniques of BPR – TQM, Work Study, Benchmarking and their applications
423	Data Structures and Algorithms	1629104	Employability, Skill Development	Selecting appropriate data structures to specified problem definition, Develop an efficient algorithm for a given problem.
424	NME I: Numerical And Statistical Methods	1629105	Employability, Skill Development	Familiar with numerical solutions of nonlinear equations in a single variable. Recall the concepts of sample spaces, events, axiomatic approach, conditional probability, Baye's theorem.
425	Microprocessors and its Applications	1629208	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	Operating System	1629209	Skill Development	Acquire the knowledge of process synchronization and illustrate the critical section problems and ways to handle the dead lock problems with the help of algorithms.
427	Object Oriented Software Engineering	1629210	Employability, Skill Development	Identify, Analyse the subsystems, various components and collaborate them interchangeably.
428	Java programming	1629211	Employability, Skill Development	Demonstrate the principles and practice of Object Oriented Analysis and Design in the construction of robust and maintainable Java applications to satisfy user requirements.
429	Operations Research	1629212	Employability, Skill Development	An ability to design a hardware and software system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
430	Database Management System	1529315	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.



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431	Programming in PHP	1529316	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.
432	Accounting and Financial Management	1520315	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	Enterprise Computing	1529317	Employability	Develop reusable software components using Java Beans. Build client-server RMI applications. Explain the concepts and terminologies of JSP
434	Digital Image Processing	1529318	Employability, Skill Development	Analyse the need for image transforms, different types of image transforms and their properties. Implement different segmentation technique.
435	Data warehousing and Data Mining	1529421	Employability, Skill Development	Have a good knowledge of the preprocessing techniques. To get insights from data using classification and prediction techniques,
436	Computer networks and Mobile Computing	1529422	Skill Development	Determine and explain Data Communications System and its components. Identify the different types of network topologies and protocols.
437	Organizational Behaviour	1529423	Employability, Skill Development	To analyze and compare different models used to explain individual behaviour related to motivation and rewards
438	Web Frameworks	1529424	Employability, Skill Development	Explore the Model-View-Controller architecture for server-side applications. Implement TDD (test-driven development) for both Ruby and Rails
439	Software Project Management	1529425	Employability, Skill Development	Identify the different project contexts and suggest an appropriate management strategy. Determine an appropriate project management approach through
440	Python Programming	1429528	Skill Development	Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries and use Regular Expressions. Discover the capabilities of numpy, scipy and matplotlib for scientific programming.
441	Soft Computing Techniques	1429529	Employability, Skill Development	Learn about soft computing techniques and their applications. Analyze the genetic algorithms and their applications
442	Software Testing	1429530	Employability, Skill Development	Demonstrate the integration testing which aims to uncover interaction and compatibility problems as early as possible.
443	Distributed Computing	1429531	Employability, Skill Development	Explains the design and development of distributed systems and distributed systems applications. Understand the importance of security in distributed systems
444	Cryptography	1429532	Skill Development	Illustrates various Public key cryptographic techniques, Basic concepts of system level security
	MBA -30			



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445	MANAGEMENT PROCESSES AND ORGANIZATIONAL BEHAVIOUR	1630101	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
446	STATISTICS FOR MANAGEMENT	1630102	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
447	ECONOMICS FOR MANAGERS	1630103	Employability, Entrepreneurship	CO1 Analyse Market demand and supply patterns through forecasting techniques. CO2 Evaluate National Income using techniques and underlying policies. CO3 Compare market structures and different pricing methods. CO4 Analyse and evaluate demand pattern using Date software. CO5 Identify the consequence of globalization and role of Banks in International Trade.
448	ACCOUNTING FOR MANAGERS	1630104	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.
449	LEGAL SYSTEMS IN BUSINESS	1630105	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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450	MARKETING MANAGEMENT	1630106	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.
451	OPERATIONS MANAGEMENT	1630210	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
452	HUMAN RESOURCE MANAGEMENT	1630208	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
453	RESOURCE MANAGEMENT TECHNIQUES	1630209	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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454	ENTREPRENEURSHIP	1630107	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.
455	FINANCIAL MANAGEMENT	1630211	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
456	RESEARCH METHODOLOGY	1630212	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
457	MANAGEMENT INFORMATION SYSTEMS	1630213	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.
458	INTERNATIONAL BUSINESS STRATEGY	1630214	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
459	STRATEGIC MANAGEMENT	1530315	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



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460	TOTAL QUALITY MANAGEMENT	1530316	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
461	INVESTMENT MANAGEMENT	1530317	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.
462	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
463	MERCHANT BANKING AND FINANCIAL SERVICES	1530318	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 Analyze the concept of Factoring, Financing and Evaluation. CO5 Evaluate about Consumer credit and Venture Capital
464	FINANCIAL DERIVATIVES	1530425	Employability, Skill Development	CO1 Analyse the various types of derivatives and its types CO2 Evaluate the value of forward contracts, hedging and limitations CO3 Appraise about Future contracts and its nature CO4 Critically examine the options and its values and strategies CO5 Develop knowledge on Swaps its principle and valuation and construct a swap model



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465	SERVICES MARKETING	1530319	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.
466	INTEGRATED MARKETING COMMUNICATION (IMC)	1530428	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.
467	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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468	INTEGRATED SUPPLY CHAIN MANAGEMENT	1530323	Employability	<p>CO1 RecollecttheimplicationsofSCM,networkdesignnddecisionsandmodelsandschemi ng distribution network in supply chainmanagement</p> <p>CO2 Asseshtesourcingdecisionsinsupplychainboonsandbanesof3PL/4PLandvarious types of RSP.</p> <p>CO3 Understandthetoolsandtechniquesusefulinimplementingsupplychainmanagem ent</p> <p>CO4 Analyzeandappraisingtheperformanceofsupplychaintocontroliteffectively.</p> <p>CO5 Understandthekeyconceptsandtechniquessthatwillallowyoutoanalyze,managea nd improve supply chain processes for different industries and markets.</p>
469	PURCHASING AND SUPPLY MANAGEMENT	1530324	Employability, Skill Development, Enterpr	<p>CO1 Learn to analyze and develop a company's purchasing processes and organization</p> <p>CO2 Understand the companies' purchasing decisions and to compare Local, Nation wide and World wide suppliers</p> <p>CO3 Understand the role of purchasing in successful cooperation between companies</p> <p>CO4 Design purchasing profit centric models and perform cost analysis</p> <p>CO5 Know the best practices in Negotiations, ethics in purchasing and code of conduct for suppliers</p>
470	STRATEGIC HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT	1530429	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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471	LABOUR LEGISLATIONS	1530321	Employability	CO1 To review the perspectives, theories and concepts in the field of labor and employment relations CO2 To interpret the salient features of welfare and wage Legislations CO3 To inspect the laws relating to Industrial Relations, Social Security and Working conditions and working conditions in different settings. CO4 To execute labor law and individual employment rights CO5 To assess the developments and changes that have taken place in the field of labour law from time to time
472	GLOBAL HUMAN RESOURCE MANAGEMENT	HR-303	Employability	CO1 Evaluate the developing role of human resources in the global arena CO2 Analyze complex issues and manifold risks that have arisen due to increased globalization CO3 Develop a diagnostic and conceptual understanding of HRM in a broader, comparative and international perspective CO4 Manage the growing presence of multinationals and increasing diversity of workforce demands CO5 Analyze the strategic issues and strategies required to select and develop cross-cultural manpower resources
473	RISK MANAGEMENT AND INSURANCE	1530426	Employability	CO1 Analyze the various types of risk and also to measure risk. CO2 Evaluate the value of Risk, its avoidance, retention, diversifying and Controlling. CO3 Apply Risk Management tools and Hedging. It also gives exposure to Forward and Future Contracts CO4 Evaluate an exposure on Insurance sector and IRDA CO5 Evaluate on Insurance Policies, its process of claim, Foreign Insures in India and Bank Assurance



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474	SALES AND DISTRIBUTION MANAGEMENT	1530320	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.
475	RETAIL MANAGEMENT	1530428	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.
476	CUSTOMER RELATIONSHIP MANAGEMENT	MKT 404	Employability, Entrepreneurship	To provide an understanding of CRM and the tools and techniques to build CRM in organizations
477	INTERNATIONAL LOGISTICS AND MANAGEMENT OF GLOBAL SUPPLY CHAIN	1530431	Employability, Entrepreneurship	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.
478	TRANSPORTATION AND WAREHOUSING MANAGEMENT	1530432	Employability	CO1 Apply the flow of goods, Ordering rules and Information transmittal 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 materials and for stock storage and revival. CO5 Apprehend different Transportation and Warehousing Management System and its usage in Shipment of goods.



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479	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>
480	TRAINING AND HUMAN PERFORMANCE ENHANCEMENT	1530322	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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481	RECRUITMENT AND SELECTION	1530430	Employability	CO1 Develop job specifications and person specifications to fit current recruitment needs of the business CO2 Examine selection methods and their effectiveness in helping identify the best interview candidates CO3 Best practices and protocols in responding to, and short-listing, applicants CO4 Develop communications and techniques in order to get the best out of recruitment interviews identify CO5 Recognize the importance of adopting a structured recruitment process and the use of relevant selection methods
	M.A. Economics (Shift I) -31			
482	MICRO ECONOMIC THEORY - I	1631101	Employability	The student will be able to understand and apply the basic concepts of economics and obtain employment .
483	STATISTICAL METHODS - I	1631102	Skill Development	The student would obtain skills in methods of data collection and tabulation
484	RESEARCH METHODOLOGY	1631103	Employability	The student will understand the methods of processing and application of software techniques and enhance his employment opportunities.
485	HEALTH ECONOMICS	1631104	Employability	The student will be able to apply cost benefit analysis to various health issues and obtain employment.
486	STATISTICAL METHODS - II	1631207	Skill Development	The student would develop skill sets in selecting sample and forecasting through Time series analysis.
487	<u>INDIAN ECONOMIC DEVELOPMENT & POLICY</u>	1631209	Employability	The student will be able to understand the process of licensing and obtain employment in the industrial sector.
488	MONETARY ECONOMICS	1631208	Employability	The student will be able to understand the way money is measured which will help him in getting employed in the banking sector.
489	MANAGERIAL ECONOMICS	1631210	Skill Development	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
490	MACRO ECONOMIC THEORY - I	1531311	Employability	The student will get to understand and apply the basic economic concepts which will help him in getting employment.
491	PUBLIC ECONOMICS - I	1531312	Skill Development	The student will acquire skill set in doing a cost benefit analysis of public expenditure.
492	INTERNATIONAL ECONOMICS - I	1531313	Employability	The student will understand and apply the basic economic theories which will provide him employment opportunities.
493	FINANCIAL MARKETS & SERVICES - I	1531314	Employability	The student will be able to obtain employment in stock exchanges .
494	ENTREPRENURIAL DEVELOPMENT	1531315	Entrepreneurship	The student will be able to understand the steps involved in starting a new business venture.



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495	PUBLIC ECONOMICS - II	1531417	Employability	The student will understand the various types of taxes,its features and be able to get employment with tax consultants
496	FINANCIAL MARKETS AND SERVICES - II	1531419	Employability	The student will be able to understand and apply the process of underwriting, factoring and leasing which will increase his employment opportunities.
497	HUMAN RESOURCE MANAGEMENT	1531420	Employability	The student will be able to understand the methods of recruitment, selection and motivation which will give him employment in the HR department.
	M.A. Social Work - 33			
498	SOCIAL WORK PROFESSION	1633101	Employability, Skill Development	Understand the values, ethics and integrate into social work Practice.
499	METHODS OF SOCIAL WORK	1633102	Employability, Entrepreneurship, Skill Development	To enable the student to practice Social Case work, group work in different settings
501	SOCIAL POLICY & SOCIAL LEGISLATION	1633103	Employability, Skill Development	Understand the legal framework and protective services for the vulnerable groups in the society
502	HUMAN BEHAVIOUR	1633104	Employability, Skill Development	To understand the magnitude and impact of Social Problems
503	SOCIAL WORK RESEARCH	1633206	Entrepreneurship, Skill Development	Develop competence in conceptualizing, designing and implementing research using both quantitative and qualitative methods
504	WELFARE ADMINISTRATION	1633207	Employability, Entrepreneurship, Skill Development	Acquire skill on the establishment of non profit organisation
505	INDUSTRIAL SOCIAL WORK	1633208	Employability, Entrepreneurship, Skill Development	Conceptual learning and practice of Corporate Social Responsibility
506	ENTREPRENEURSHIP	1633209	Employability, Entrepreneurship, Skill Development	Identify personal attributes that enable best use of entrepreneurial opportunities
507	LABOUR LABOUR LEGISLATION	1533311	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
508	HUMAN RESOURCE MANAGEMENT	1533212	Employability, Entrepreneurship, Skill Development	To learn the sub functions of HRM like Manpower planning, Recruitment, talent management, Learning and development, Compensation management etc
509	WORK PLACE COUNSELING	1533313	Employability, Skill Development	Learn the various theories of Counselling and develop the skill in counselling practice
510	EMPLOYEE RELATIONS MANAGEMENT	1533314	Employability, Skill Development	· Able to summarise the welfare and social security provisions in labour legislation
511	HUMAN RESOURCE DEVELOPMENT	1533316	Employability, Entrepreneurship, Skill Development	· To build an understanding and perspective of Human Resource Development as discipline appreciating learning



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512	ORGANISATIONAL BEHAVIOUR & ORGANISATIONAL DEVELOPMENT	1533317	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			
513	MANAGERIAL CONCEPT AND BUSINESS ETHICS	1634101	Employability, Skill Development, Entrepreneurship	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.
514	EMPLOYEE RELATIONS AND EMPLOYEE WELFARE	1634102	Employability, Skill Development, Entrepreneurship	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.
515	Human Behaviour	1634103	Employability, Skill Development, Entrepreneurship	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
516	LABOUR LEGISLATIONS	1634104	Employability, Skill Development, Entrepreneurship	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
517	HR IN THE SERVICE SECTOR	1634105	Employability, Skill Development, Entrepreneurship	Acquire the skill to manage a Service Industry as compared to manufacturing, Organizations inorder keeping in mind to align the HR practices and also the customer relationship management
518	LEARNING AND DEVELOPMENT	1634206	Employability, Skill Development, Entrepreneurship	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
519	INDUSTRIAL RELATIONS	1634207	Employability, Skill Development, Entrepreneurship	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.
520	ORGANISATIONAL BEHAVIOUR	1634208	Employability, Skill Development, Entrepreneurship	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.
521	PERFORMANCE MANAGEMENT SYSTEM	1634209	Employability, Skill Development, Entrepreneurship	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.



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522	CORPORATE SOCIAL RESPONSIBILITY	1634210	Ability, Skill Development, Entrepreneurship	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.
523	ORGANIZATIONAL COUNSELING	1634211	Ability, Skill Development, Entrepreneurship	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.
524	ORGANISATIONAL DEVELOPMENT	1534419	Ability, Skill Development, Entrepreneurship	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.
525	STRATEGIC HUMAN RESOURCE MANAGEMENT	1534313	Ability, Skill Development, Entrepreneurship	Enable to strategize 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.
526	HUMAN RESOURCE DEVELOPMENT	1534314	Ability, Skill Development, Entrepreneurship	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.
527	MANAGERIAL ECONOMICS	1534317	Ability, Skill Development, Entrepreneurship	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 equilibrium, marginalism, price elasticity and the patterns of industrial growth.
528	COMPENSATION BENEFITS ANALYSIS	1534316	Ability, Skill Development, Entrepreneurship	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.
529	GLOBAL HRM	1534418	Ability, Skill Development, Entrepreneurship	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 intricacies of international compensation.
530	RESEARCH METHODOLOGY	1534312	Ability, Skill Development, Entrepreneurship	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.



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531	TOTAL QUALITY MANAGEMENT	1534420	Ability, Skill Development, Entrepreneurship	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
532	FUNDAMENTALS OF HUMAN RESOURCE MANAGEMENT	1634105	Ability, Skill Development, Entrepreneurship	Summarize the fundamental concepts, principles, techniques, judgments in supply and demand forecasting in determining manpower planning. Develop, analyze, organize, conduct and evaluate
B.Com Honours -35				
533	FINANCIAL ACCOUNTING I	1635111	Employability	
534	BANKING THEORY LAW & PRACTICE	1635112	Employability	
535	MARKETING	1635113	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.
536	BUSINESS ECONOMICS	1635114	Employability	Students can able to analyze various laws such as law of demand, supply, return to scale, variable proportion and market structure.
537	CORPORATE COMMUNICATION	1635115	Employability, Skill Development	Students can able to apply the formal and informal communication in their personal and corporate life
538	FINANCIAL ACCOUNTING II	1635216	Employability, Skill Development	Students can able to prepare accounting for partnership firm, branches & hire purchases
539	PRINCIPLES OF MANAGEMENT	1635217	Employability, Skill Development	Students can able to apply the functions of management such as planning, organizing, control, coordination, motivation, leadership style in the business.
540	SERVICES MARKETING	1635218	Employability	Students can able to build strategies for service organization such as banking, insurance, education & tourism with appropriate mix
541	BUSINESS POLICY AND ENVIRONMENT	1635219	Entrepreneurship	Students can able to build strategies for service organization such as banking, insurance, education & tourism with appropriate mix
542	E-COMMERCE	1635220	Entrepreneurship	Students can able to examine the pros and cons of E-Commerce industry and its significance in present era
543	COMPANY LAW	1535322	Employability, Entrepreneurship	Students can able to explain the legal provisions relating to incorporation, MOA & AOA, meetings and the liquidation of the company.
544	COST ACCOUNTING	1535323	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
545	INSURANCE & RISK MANAGEMENT	1535324	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
546	CORPORATE ACCOUNTING	1535325	Employability	Students can able to do accounting for companies from its inception to winding up
547	BUSINESS MATHEMATICS I	1535313	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.



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548	PRACTICAL AUDITING	1535326	Employability, Entrepreneurship	Students can able to demonstrate the process of auditing and able to prepare & maintain various documents while auditing
549	BUSINESS LAW	1535431	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
550	HUMAN RESOURCE MANAGEMENT	1535432	Employability	Students can able to apply the knowledge such as process of recruitment, selection, training & development, performance appraisal in their organization.
551	FINANCIAL SERVICES	1535428	Employability, Entrepreneurship	Students can able to explain the various types of financial services and evaluate the significance of the same
552	SPECIAL ACCOUNTS	1535430	Employability	Students can able to prepare accounting for special types of business such as banking, insurance, holding & contracts
553	INTERNATIONAL TRADE	1535429	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.
554	BUSINESS STATISTICS & O R	1535418	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.
555	ACCOUNTING FOR DECISION MAKING	1435534	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
556	CORPORATE ETHICS AND GOVERNANCE	1435535	Entrepreneurship	Students can able to demonstrate the significance of ethical practices, social responsibility and governance
557	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1435537	Employability	Students can able to explain and analyze the elements of logistics and supply chain management for the business
558	ENTREPRENEURIAL DEVELOPMENT	1435538	Entrepreneurship	Students can able to highlight the qualities of successful entrepreneur and also able to identify the challenges and suggest the solutions for it.
559	RESEARCH METHODOLOGY	1435539	Employability	Students can able to explain the appropriate methodology to conduct a successful research
560	INCOME TAX THEORY, LAW AND PRACTICE	1435536	Employability	Students can able to identify the residential status of an individual and determine the taxable income and value of tax
561	FINANCIAL MANAGEMENT	1435641	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.
562	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	1435645	Employability	Students can able to plan their investment by analyzing various avenues and also know how to manage their portfolio
563	ACCOUNTING STANDARDS	1435643	Employability	Students can able to use accounting standards appropriately while maintaining the books of accounts
564	CUSTOMER RELATIONSHIP MANAGEMENT	1435644	Employability	Students can able to explain the significance of customer relationship management practices in a business



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565	BUSINESS TAXATION	1435642	Employability, Skill Development	Students can able to determine the value of excise duty, customs duty, service tax and value added tax
	B.Sc. Mathematics with Computer Application -36			
566	CLASSICAL ALGEBRA	1636101	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
567	DIFFERENTIAL CALCULUS	1636102	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.
568	PROGRAMMING IN C	1636103	Employability / Skill Development	Ø To enhance some knowledge in C Programming, To be familiar with pointers and structures in C Programming.
569	NME I - COMPUTER FUNDAMENTALS	1636103	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.
570	TRIGONOMETRY	1636104	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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571	INTEGRAL CALCULUS	1636208	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.
572	OBJECT ORIENTED PROGRAMMING WITH C++	1636209	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++
573	NME II - STATISTICAL METHODS	1636211	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.
574	DIFFERENTIAL EQUATIONS	1536312	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.
575	MATHEMATICAL STATISTICS	1536313	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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576	MULTIMEDIA	1536314	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>
577	NUMERICAL METHODS - I	1536315	Skill Development	<p>At the end of the Course, the Student will be able to acquire the skill to</p> <ul style="list-style-type: none"> Ø Solve real world problems using various numerical approximation techniques. Ø Approximate using various interpolation techniques and solve numerically linear system of equations.
578	VECTOR CALCULUS, ANALYTICAL GEOMETRY OF THREE DIMENSIONS	1536417	Employability	<p>On taking this course the student will be able to</p> <ul style="list-style-type: none"> Ø Exhibit in depth the analytical and critical thinking to identify, formulate and solve real world problems Ø Demonstrate properties like gradient, divergence, curl associated with derivatives of vector point functions and integrals of vector point functions Ø Also develop the mathematical knowledge in evaluating multiple integrals and their usage also vector differential calculus and vector integral calculus.
579	TRANSFORMS AND FOURIER SERIES	1536418	Employability	<p>On taking this course the student will be able to</p> <ul style="list-style-type: none"> Ø Demonstrate the application of Fourier series and transforms in various fields. Ø Develop the proficiency in problem solving. Ø Have an insight into Fourier series, Inverse Laplace transform, Laplace transforms and Inverse Fourier transforms.
580	CORE XII - IN JAVA	1536419	Employability/ Skill Development	<p>On taking this course the student will be able to</p> <ul style="list-style-type: none"> 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
581	NUMERICAL METHODS - II	1536420	Skill Development	<p>At the end of the Course, the Student will be able to acquire the skill to</p> <ul style="list-style-type: none"> Ø Solve real world problems using interpolation. Ø Solve Calculus problems by numerical approximation techniques.



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582	ALGEBRAIC STRUCTURES	1436522	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 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
583	REAL ANALYSIS	1436523	Employability	<p>On taking this course the student will be capable of</p> <ul style="list-style-type: none">Ø Analyzing any given sequence and seriesØ Distinguish between limit superior, limit inferior and limit of a sequenceØ Constructing the proof techniques of the theorems in sequences and seriesØ Illustrating the alternating series and differentiate absolute and conditional convergent series.
584	DISCRETE MATHEMATICS	1436524	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.
585	OPERATIONS RESEARCH I	1436525	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.



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586	WEB TECHNOLOGY	1436526	Employability/ Skill Development	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.
587	LINEAR ALGEBRA	1636228	Employability	On taking this course the student will be able to 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.
588	COMPLEX ANALYSIS	1436629	Employability	On taking this course the student will be able to 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 $z \rightarrow 1/z$ and
589	MECHANICS	1436630	Employability	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.



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590	OPERATIONS RESEARCH II	1436631	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 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.
591	DOT NET PROGRAMMING	1436632	Employability/Skill Development	Explain the fundamentals of HTML and .NET programming, Demonstrate the concept of ASP.NET and its validation controls and Design an Interactive website using applications of VB.NET
	BSc Physics With Computer Application -37			
592	MECHANICS AND PROPERTIES OF MATTER	1637101	Employability/Entrepreneurship /Skill Development	Upon completion of syllabus, students will be able to ❖ 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.
593	MATHEMATICS PAPER - I	1636106	Employability/Entrepreneurship /Skill Development	The Student will be able to acquire the skill to Solve real world problems.
594	THERMAL PHYSICS AND ACOUSTICS	1637203	Employability/Entrepreneurship /Skill Development	After completion of the syllabus, students able ❖ 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.
595	MATHEMATICS PAPER - II	1636212	Employability/Entrepreneurship /Skill Development	The Student will be able to acquire the skill to Solve real world problems.



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596	OPTICS	1537306	Employability/Entrepreneurship /Skill Development	<p>Course outcome:</p> <p>At the end of completion of syllabus, students able to</p> <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.
597	BASIC ELECTRONICS	1537307	Employability/Entrepreneurship /Skill Development	<p>After the completion of syllabus, students able to</p> <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
598	DATA STRUCTURES	1537308	Employability/Entrepreneurship /Skill Development	<p>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.</p>
599	OBJECT ORIENTED PROGRAMMING USING C++	1537309	Employability/Entrepreneurship /Skill Development	<p>1. Describe the OOP approach connection with C++ 2. Apply the concepts of OOP. 3. Illustrate the process of data and file Manipulation.</p>
600	ATOMIC PHYSICS	1537412	Employability/Entrepreneurship /Skill Development	<p>Upon completion of syllabus, students will be able to</p> <ul style="list-style-type: none"> ❖ 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.
601	ELECTIVE 1-INTEGRATED ELECTRONICS	1537413	Employability/Entrepreneurship /Skill Development	<p>Upon completion of syllabus, students will be able to</p> <ul style="list-style-type: none"> ❖ 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.
602	OPERATING SYSTEMS	1537414	Employability/Entrepreneurship /Skill Development	<p>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.</p>



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603	DATABASE MANAGEMENT SYSTEM	1537415	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.5.5. To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.
604	NUCLEAR PHYSICS AND PARTICLE PHYSICS	1437518	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.
605	SOLID STATE PHYSICS	1437519	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 acceleratorion.
606	MICROPROCESSOR FUNDAMENTALS	1437520	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.
607	PROGRAMMING IN JAVA	1437521	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.
608	ELECTRICITY AND ELECTROMAGNETISM	1437623	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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609	RELATIVITY AND QUANTUM MECHANICS	1437624	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.
610	MATHEMATICAL PHYSICS & NUMERICAL METHODS	1437625	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.
611	COMPUTER CORE PAPER VI DIGITAL ELECTRONICS	1437626	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				
612	இக்கால இலக்கியம் - 1	1638101	Employability & Skill Development	புதுக்கவிதைகளைச் சமகாலப் பொருண்மைகளை மையமாகக் கொண்டு கவிதைகளைப் படைத்து வெளியிடுதல், ஊடகங்களில் பணியாற்றல்.
613	நன்னூல் - எழுத்ததிகாரம்	1638102	Employability & Skill Development	நன்னூல் எழுத்திலக்கணம் அறிந்துகொள்வது தமிழ் இலக்கண மரபை அறிந்துகொள்வதோடு போட்டித் தேர்வுகளுக்கும் உதவும் வகையில் உள்ளது.
614	தமிழக வரலாறும் பண்பாடும் - 1	1638103	Employability & Skill Development	பழந்தமிழர் /தமிழகத் தொன்மை, தனித்தன்மை, இயற்கை அமைப்பு, அயல்நாட்டுத் தொடர்புகள், வாழ்க்கைமுறை, சமூக நிலை, அறவுணர்வு, கலைகள் ஆகியனவற்றை அறிவதன்வழி தம் அடையாளத்தை அறிதலை நோக்கமாகக் கொண்டு இப்பாடம்
615	சுற்றுலாவியல் (NME - I)	1638104	Employability, Entrepreneurship & Skill Development	தமிழகச் சுற்றுலாத் தலங்கள், அதன் சிறப்புகள் குறித்து புரிந்துகொள்ளல், சுற்றுலா வணிகச் சந்தையைப் பயன்படுத்தி தொழில்முனைவோராக ஆதல்.
616	இக்கால இலக்கியம் - II	1638205	Employability & Skill Development	சிறுகதை, புதினம் முதலான இலக்கியப் படைப்பு உத்திகளை அறிந்துகொள்ளுதல்.
617	நன்னூல் - சொல்லதிகாரம்	1638206	Employability & Skill Development	நன்னூல் சொல்லதிகாரம் அடிப்படையில் மொழியைத் திறம்பட வெளிப்படுத்தல்.
618	தமிழக வரலாறும் பண்பாடும் - 2	1638207	Employability & Skill Development	தமிழக வரலாற்றையும் பண்பாட்டையும் அறிந்துகொள்ளவும் போட்டித் தேர்வுகளில் வெற்றிபெறவும் வகையில் அமைக்கப்பட்டுள்ளது.
619	வைணவம் (NME - 2)	1638208	Employability & Skill Development	வைணவத்தின் கொள்கைகளையும் பாரம்பரியத்தையும் அறிந்துகொள்வதோடு பக்தியுடனும் ஒழுக்கத்துடனும் வாழப் பழகுதல்.
620	பக்தி இலக்கியமும் சிற்றிலக்கியமும்	1638209	Employability & Skill Development	தமிழர்களின் வாழ்வியல் பக்தியோடும் சார்ந்த வாழ்வியல் என்பதை மாணவர்கள் அறிந்துகொள்ளுதல்.



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621	நம்பியகப்பொருள்	1538310	employability & Skill Development	தலைவன், தலைவி இல்லற நெறிமுறைகளைப் பின்பற்றி ஒழுக்கம் கற்பு, அகப்பாட்டு உறுப்புக்கள், உத்திகள் ஆகியவற்றையும் கற்று, தமிழ் இலக்கியங்களைப் புரிந்துகொள்வதற்கும் படைப்பதற்கும் பயன்படுத்தல்
622	தமிழ் இலக்கிய வரலாறு - I	1538311	employability & Skill Development	தமிழ் இலக்கியத்தின் மிகப்பெரும் பரப்பை மாணவர்கள் அறிந்துகொண்டு போட்டித் தேர்வில் வெற்றி பெறல்.
623	காப்பியம்	1538412	employability & Skill Development	ஆசிரியர் பணிக்கான தேர்வுகளுக்குரிய நுழைத்தேர்வை எதிர்கொள்ளப் பயன்படுதல்.
624	புறப்பொருள் வெண்பாமாலை	1538413	employability & Skill Development	புற இலக்கண மரபு கூறும் வீர உணர்வையும் சுவையான உத்திகளையும் தமிழ் இலக்கியப் பாடல்களோடு ஒப்பிட்டு மாணவர்கள் அறிந்துகொள்ளல்.
625	தமிழ் இலக்கிய வரலாறு - II	1538414	employability & Skill Development	தமிழ் இலக்கியத்தின் மிகப்பெரும் பரப்பை மாணவர்கள் அறிந்துகொண்டு போட்டித் தேர்வில் வெற்றி பெறல்.
626	சங்க இலக்கியம் - அகம்	1538415	employability & Skill Development	சங்க அகப்பாடல்களின் மூலகமாக பழந்தமிழனின் களவு, கற்பு வாழ்க்கைமுறைகளையும், சமூக நிலை போன்றவற்றை அவற்றின் பின்னணியோடு அறிந்துகொண்டு அதனைப் பகுப்பாய்வு செய்வது அறிவாற்றலை வளர்க்கும்.
627	யாப்பருங்கலக்காரிகை	1438516	employability & Skill Development	யாப்பின் உறுப்புகளை அறிந்துகொண்டு பழந்தமிழ் நூல்களை யாப்பறிந்து, சீர் பிரித்து எளிதில் புரிந்துகொள்ளல்; மரபுக்கவிதை இயற்றுதல்.
628	தமிழ்மொழி வரலாறு	1438517	employability & Skill Development	தமிழ் மொழியின் தொன்மை, நாகரிகத்தின் அடையாளம், மொழிக்கு உரிய சிறப்புகள், வாழ்வியல் சார்ந்தும்/ நிலப்பரப்பு சார்ந்த மொழி கூறுகளில் ஏற்படும் மாற்றங்கள் போன்றவற்றை அறிந்து கொள்ளுதல்.
629	தமிழ் இலக்கியத் திறனாய்வு	1438518	employability & Skill Development	இலக்கியங்களைத் திறனாய்வு செய்யவும் அதனை எவ்வாறு படைப்பது என்பது குறித்த படைப்பாற்றலும் வளர்தல்.
630	தமிழகக் கோயிற்கலை	1438519	employability & Skill Development	தமிழகத்தின் தொன்மையான, சிறந்த கட்டடக் கலை குறித்து அறிதல், இந்து சமய அறநிலையத்துறையில் வேலைவாய்ப்பு பெறும் வகையில் தன்னைத் தயார்படுத்திக் கொள்ளல்.
631	சங்க இலக்கியம் - புறம்	1438520	employability & Skill Development	பழந்தமிழனின் கலை மற்றும் பண்பாட்டு ஆய்வுகளில் ஈடுபடத் தூண்டும்.
632	தண்டியலங்காரம்	1438521	employability & Skill Development	பல்வகை அணிகளையும் அதன் அமைப்புமுறைகளையும் மாணவர்கள் அறிந்துகொண்டு பழந்தமிழ் நூல்களில் புதைந்துள்ள அணிகளைச் சுவைத்தல், ஆராய்தல், எளிதில் புரிந்துகொள்வதல், அணியிலக்கணம் தோய்ந்த மரபுக்கவிதை இயற்றுதல்.



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633	திராவிட மொழிகளின் ஒப்பாய்வு	1438622	employability & Skill Development	மொழியியல் ஆய்வின் அடிப்படையில் திராவிட மொழிகளின் இயல்புகளைத் தனித்தனியாக விளக்கி, மொழிக்கும் மனித சமூகத்துக்கும் இடையிலான பிணைப்பை அறிவியல்முறை ஆய்வின் மூலம் அறிந்துகொள்ளுதல்.
634	நாட்டுப்புறவியல்	1438623	employability & Skill Development	மாணவர்கள் இன்றைய ஊடகங்களில் பணி வாய்ப்பைப் பெறும்பொழுது நாட்டுப்புறக் கதைகள், பாடல்களை நிகழ்த்தி தனிப்பட்ட ஆளுமையாளராக சிறப்பைப்
635	அடிப்படைக் கணினியியல்	1438624	ility, Entrepreneurship & Skill Development	கணினியின் அமைப்பு, கணினியின் தலைமுறைகள், கல்விசார்ந்து கணினியின் பயன்பாடு, இணையதமிழ் வளர்ச்சி ஆகியனவற்றைப் பற்றிப் புரிந்துகொள்வதோடு பங்களிப்பு செய்வதையும்
B.A. Tamil Literature -38 - Translation				
612	PAPER – 1 – CONTEMPORARY LITERATURE - I (POEM & PROSE)	1638101	employability & Skill Development	Creating and publishing poems with a focus on contemporary contents, working in the media.
613	GRAMMER – I - NANNOOL – EZHUTHTHADHIGARAM	1638102	employability & Skill Development	This subject helps in understanding the Tamil grammatical tradition and also helps in competitive examinations.
614	HISTORY AND CULTURE OF TAMIL NADU– I	1638103	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.
615	TOURISM	1638104	ility, Entrepreneurship & Skill Development	Understanding of Tamil Nadu Tourist Places and Its Features, become an Entrepreneurship Using the Tourism Business Market.
616	CONTEMPORARY LITERATURE – II (SHORT STORIES, NOVELS, DRAMAS)	1638205	employability & Skill Development	Understanding literary creation techniques such as short stories and novels.
617	GRAMMER – II- NANNOOL – CHOLLADHIGARAM	1638206	employability & Skill Development	Effective expression of language based on Nannool : Solladhigaram.
618	THAMIZHAGA VARALAARUM PANPAADUM – II	1638207	employability & Skill Development	It is set up to know the history and culture of Tamil Nadu and to win the competitive examinations.
619	VAINAVAM (NME -2)	1638208	employability & Skill Development	To know the principles and traditions of Vaishnavism and to live with devotion and morality.
620	DEVOTIONAL LITERATURE AND PRABANDHANGAL	1638209	employability & Skill Development	Students understanding that the life of Tamils is based on devotion and life.
621	GRAMMER – III – NAMBIYAGAPPORUL	1538310	employability & Skill Development	Nambiyagapporul used for understanding and creation of Tamil literature.
622	HISTORY OF TAMIL LITERATURE – I	1538311	employability & Skill Development	Students know the vast area of Tamil literature and win the competitive examination.
623	EPICS	1538412	employability & Skill Development	Used to face entrance exams for teaching jobs.
624	GRAMMER – IV – PURAPPORUL VENPAMALAI	1538413	employability & Skill Development	Students learn about the heroic feeling and delicious techniques of the "Pura" grammatical tradition by comparing it with Tamil literary songs.
625	HISTORY OF TAMIL LITERATURE – II	1538414	employability & Skill Development	Students know the vast area of Tamil literature and win the competitive examination.



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626	SANGAM LITERATURE - AGAM	1538415	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.
627	GRAMMER – V – YAAPPARUNGALAK KAARIGAI	1438516	employability & Skill Development	To understand the elements of Yappu and the Ancient Tamil Texts easily; Creating of Traditional Poem.
628	HISTORY OF TAMIL LANGUAGE	1438517	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.
629	TAMIL LITERARY REVIEW	1438518	employability & Skill Development	Developing reviewing knowledge of literature and know how to create literature.
630	TEMPLE ART OF TAMILS	1438519	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.
631	SANGAM LITERATURE – PURAM	1438520	employability & Skill Development	Encourages to engage in art and cultural studies of Ancient Tamils.
632	GRAMMER – V – THANDIYALANGARAM	1438521	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.
633	DRAVIDIAN LANGUAGES AND ANALOGY	1438622	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.
634	FOLKLORISTICS	1438623	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.
635	BASIC COMPUTING	1438624	ility, Entrepreneurship & Skill Development	Understand and contribute to computer system, computer generation, computer usage in educational field, and Internet development.
636	B.A. English Literature -39			
637	INDIAN WRITING IN ENGLISH	1639101	Employability, Skill Development	The students will be able to analyse the theme of Indianness and the contributions made by the great writers to the history of Indian Writing in English.
638	CHILDREN'S LITERATURE	1639102	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
639	HISTORY OF ENGLISH LITERATURE - I	1639103	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
640	ENTREPRENEUR DEVELOPMENT	1630104	Employability, Entrepreneurship	The students will be able to evaluate the various types of Entrepreneurial developments and mobilization.
641	ELIZABETHIAN AGE	1639205	Employability	The students will be able to categorize the major forms and present a picture of the Elizabethan period
642	THE AUGUSTUAN AGE	1639206	Employability	The students will be able to categorize the major forms and present a picture of the Augustan period
643	HISTORY OF ENGLISH LITERATURE-II	1639207	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



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644	COMMUNICATION AND BROADCASTING	1639208	ility, Entrepreneurship, Skill Dev	The students will be able to evaluate the various forms of communication in the field of broadcasting
645	THE ROMANTIC AGE	1539309	Employability	The students will be able to describe the famous works of William Wordsworth, William Blake and their contemporaries.
646	THE VICTORIAN AGE	1539310	Employability	The students will be able to describe and analyse the famous works of Victorian Age writers.
647	LITERARY FORMS	1539311	Employability	The students will be able to evaluate the various poetic forms specific to the age and the writers of the period
648	THE MODERN AGE	1539412	Employability	The students will be able to identify the features of the Modern period against the historical and political background
649	ENGLISH LANGUAGE AND LINGUISTICS	1539413	Employability, Entrepreneurship	The students will be able to apply the knowledge of linguistics and explore the methodologies related to word formation and grammar
650	JOURNALISM	1539414	Employability, Skill Development	The students will be able to understand the basic principles of Journalism and mass communication
651	ENGLISH LANGUAGE AND TEACHING	1439515	ility, Entrepreneurship, Skill Dev	The students will be able to analyse and understand the various levels of development in the field of ELT
652	SHAKESPEARE	1439516	Employability	The students will be able to analyse the works of Shakespeare, the Theatre and Audience during his life time
653	AMERICAN LITERATURE	1439517	Employability	The students will be able to analyse and appreciate the history and works of American Literature
654	POST COLONIAL LITERATURE	1439518	Employability	The students will be able to identify the predominant themes and writings of postcolonial literature
655	DEVELOPING LANGUAGE SKILLS	1439519	ility, Entrepreneurship, Skill Dev	The students will be able to identify and understand the importance of developing the language skills
656	CANADIAN LITERATURE	1439620	Employability	The students will be able to identify the predominant themes and writings of Canadian literature
657	WOMEN STUDIES	1439621	Employability	The students will be able to understand the emergence and objectives of Women's studies
658	CLASSICAL AGE	1439622	Employability	The students will be able to understand classicism and identify the historical and cultural contexts of the classical age
659	TRANSLATION STUDIES	1439623	ility, Entrepreneurship, Skill Dev	The students will be able to understand the importance of Translation and identify the various methods in the process of translating texts
660	TELECASTING	1439624	ility, Entrepreneurship, Skill Dev	The students will be able to understand the importance of telecasting and identify the various methods in the process of developing the performance skills
	B.A. Business Economics -41			
661	MICRO ECONOMICS-I	1641101	kill Development, Entrepreneursh	The students developed the skill of analyzing the various aspects of consumer behavior and short run and long run production.
662	STATISTICAL METHODS- I	1641102	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.



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663	FINANCIAL ACCOUNTING-I	1641103	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.
664	ECONOMICS OF TOURISM	1641104	Employability, Skill Development	The students will learn the details relating to tourism promotion through which they can get employment.
665	MICRO ECONOMICS-II	1641205	Employability, Entrepreneurship	The students will learn about different market structures which is prevalent in the market. This will enable them to start business.
666	STATISTICAL METHODS - II	1641206	Employability, Skill Development	The student will acquire skills about testing hypothesis.
667	FINANCIAL ACCOUNTING II	1641207	Skill Development	The students will acquire skills relating to preparation of departmental accounts
668	COMPUTER AND ITS APPLICATIONS	1641208	Employability	The student will acquire the computing skills through which they will get employment
669	STATISTICS FOR BUSINESS ANALYSIS - I	1541309	Skill Development	The students can acquire the skills of measuring variation and dispersion
670	ENTREPRENEURIAL DEVELOPMENT - I	1541310	Entrepreneurship	The students will learn about the role and functions of an entrepreneur.
671	MARKETING - I	1541311	Entrepreneurship	The students will learn about the significance of marketing of products which will help them to start a new venture.
672	STATISTICS FOR BUSINESS ANALYSIS - II	1541412	Skill Development	The students will acquire the skills of measuring the trend analysis
673	ENTREPRENEURIAL DEVELOPMENT - II	1541413	Entrepreneurship	The students will get to know about various EDP programs which will make them start a new venture
674	MARKETING - II	1541414	Employability, Entrepreneurship	The students will learn about the various promotional programs which will help them to become an entrepreneur
	B.A. Criminology & Police Administration - 42			
675	PRINCIPLES OF CRIMINOLOGY	1642101	Skill development	Apply the crime prevention methods to prevent crimes in their locality
676	CRIMINAL LAW	1642102	Skill development	Know all the important sections, concepts, principles and doctrines from the major laws by the end of the syllabus
677	DOCUMENT EXAMINATION	1642103	Skill development	Learning this paper will enhance student's skill set in various document examination and verification
678	NME- VICTIMOLOGY	1642104	Skill development	Understand the necessity of victim assistance in the Criminal Justice System
679	VIGILANCE AND SECURITY MANAGEMENT	1642205	Skill development, Employability	Learning and understanding vigilance and security aspects in this paper increases student's employability chances.
680	PRINCIPLES OF PSYCHOLOGY	1642206	Skill development	Apply the theories of personality in real world
681	SPECIAL LAWS	1642207	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
682	NME 2- MEDIA AND CRIME	1642208	Skill development	Learning techniques and styles of writing for various types of media, editing, concise writing
683	HUMAN RIGHTS IN CRIMINAL JUSTICE ADMINISTRATION	1542309	Skill development	Understand the role of Human rights in Criminal Justice



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684	SOCIAL PROBLEMS	1542310	Skill development	Understand the various violence committed against the vulnerable groups in the society
685	FUNDAMENTALS OF STATISTICS	1542311	Skill development	Demonstrate the difference between the various types of research and design and formulate hypothesis
686	PRISON ADMINISTRATION	1542412	Skill development	Recognize the various types of correctional methods and typology of prisons, prisoners
687	CYBERCRIME	1542413	Skill development	Knowledge about Tracking & Tracing Emails, Recovery of Digital Evidence, Setting up a Cyber Crime Investigation Cell
688	GUIDANCE AND COUNSELING	1542414	Skill development, Employability	Apply the techniques of counseling in communication and interpersonal conversation in personal and professional setups.
	B.A. Sociology -43			
689	PRINCIPLES OF SOCIOLOGY I	1643101	Skill development	Understand about the relationship between individual and society, Classification of Group, Types and agencies of Socialization
690	INDIAN SOCIETY	1643102	Employability	known about the ethical composition of Indian Society and major social changes in Indian Society
691	SOCIAL PSYCHOLOGY	1643103	Skill development	Learning the methods and importance of social psychology, about personality, leadership, attitude and public opinion
692	NME I MASS MEDIA AND DEVELOPMENT	1643104	Skill development	Students will learn the ethics, social issues, functions of mass media
693	PRINCIPLES OF SOCIOLOGY II	1643205	Skill development, Employability	Acquiring the knowledge of socialization, social change and development of sociology
694	SOCIAL PROBLEMS IN INDIA	1643206	Employability	Students realize about important social problems
695	SOCIAL ANTHROPOLOGY	1643207	Skill development	Students got more information about the life of tribes and community.
696	NME II ELEMENTS OF INSURANCE	1643208	Employability	Students' expertise about Insurance and its usage.
697	PRINCIPLES OF SOCIOLOGY II	1543309	Skill development, Employability	Acquiring the knowledge of socialization, social change and development of sociology
698	SOCIAL MOVEMENTS IN INDIA	1543310	Employability	Students understand about the various social movements in India
699	SOCIAL DEMOGRAPHY	1543311	Skill development, Employability	Students got the skill of utilizing demographic profile and its importance
700	MODERN SOCIOLOGICAL THEORIES	1543412	Skill development, Employability	Students acquired the modern sociological theoretical concepts.
701	SOCIAL PROBLEMS IN INDIA	1543413	Employability	Students realize about important social problems
702	POLITICAL SOCIOLOGY	1543414	Skill development	Students able to know about the political system of India.
	B.A. Tourism & Travel Management -44			
703	TOURISM BUSINESS I	1644101	Employability	To get employment in the tourism industry
704	TOURISM PRODUCT I	1644102	Employability	To gain knowledge regarding the various tourism product and get employed
705	BIODIVERSITY OF INDIAN SUB-CONTINENT	1644103	Employability	To know about tourism in India and increases the employment potentials
706	ECONOMICS OF TOURISM	1644104	Employability	To promote tourism at minimum cost
707	TOURISM BUSINESS II	1644205	Employability	To get employment in the tourism industry



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708	TOURISM PRODUCT II	1644206	Employability	To gain knowledge regarding the various tourism product and get employed
709	BASICS OF ARCHAEOLOGY	1644207	Employability	To learn more about Indian archaeology and get employed as tourist guide
710	Travel agencies and Tour operators II	1544309	Employability, Entrepreneurship	To get the techniques to be employed as tour operator
711	MARKETING MANAGEMENT	1544310	Employability	To know about the marketing environment and techniques
712	ART AND ARCHITECTURE IN ANCIENT INDIA	1544311	Employability	To learn more about Indian architecture and get employed as tourist guide
713	TRAVEL AGENCIES AND TOUR OPERATORS II	1544412	Employability	To get the techniques to be employed as tour operator
714	TOURISM MARKETING	1544413	Employability	To know about the marketing environment and techniques of tourism
715	ART AND ARCHITECTURE IN MEDIEVAL INDIA	1544414	Employability	To learn more about Indian architecture and get employed as tourist guide
	B.Com - Accounts & Finance- 45			
716	FINANCIAL ACCOUNTING	1645101	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding accounting concept as well as become employable and attain entrepreneurship quality.
717	BUSINESS ECONOMICS	1645102	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding demand and supply as well as production concept and become employable and attain entrepreneurship quality that enable them to start a new business.
718	BUSINESS STATISTICS	1645103	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding presentation of statistical data as well as know how to analyze the trend and seasonal variations and become employable and attain entrepreneurship quality that enable them to start a new business.
719	AN OVERVIEW OF ISO	1645104	Employability	The student will be able to enhance their knowledge regarding QMS documentation process and measurement and this will make them employable.
720	ADVANCED FINANCIAL ACCOUNTING	1645205	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding department, branch accounts and hire purchase and this will make them employable as well as enable them to start a business.
721	INTERNATIONAL ECONOMICS	1645206	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding export management , procedure and documentation this will make them employable as well as enable them to start a business.
722	OPERATIONS RESEARCH	1645207	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding network analysis, transportation model LPP formulation this will make them employable as well as enable them to start a business.
723	BASICS OF BUSINESS INSURANCE	1645208	Employability	The student will be able to enhance their knowledge regarding principles of insurance and insurance products, this will make them employable



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724	CORPORATE ACCOUNTING	1545309	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding valuation of share and debenture and purchase of business, this will make them employable as well as enable to them become entrepreneur.
725	LEGAL SYSTEM IN BUSINESS	1545310	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding law of contract, sale of goods and agreement, condition & warranties, this will make them employable as well as enable them to become entrepreneur.
726	BANKING THEORY LAW AND PRACTICE	1545311	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding opening of an account, banking regulation act and principles of lending, this will make them employable as well as enable them to become entrepreneur
727	ENTREPRENEURIAL DEVELOPMENT	1545312	Entrepreneurship	The student will be able to enhance their knowledge regarding functions of entrepreneur feasibility study preparation of project, this will enable them to become entrepreneur.
728	BUSINESS MATHEMATICS- I	1545313	Employability, skill development	The student will be able to enhance their knowledge regarding proportion, ratio binominal, this will make them employable and the set theory & operations will enhance their skills
729	ADVANCED CORPORATE ACCOUNTING	1545414	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding accounting for price level changes, final statement of banking and insurance will make them employable as well as acquire entrepreneurship skills
730	FINANCIAL SERVICES	1545415	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding underwriting, mutual funds, merchant banking, leasing will make them employable as well as acquire entrepreneurship skills
731	PRINCIPLES OF MANAGEMENT	1545416	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding role & functions of a manager, planning, organizing and recruitment, this will make them employable as well as acquire entrepreneurship skills
732	BUSINESS COMMUNICATION	1545417	Employability, Entrepreneurship	The student will be able to enhance their knowledge regarding principles of effective communication ,modern functions of communication and report writing, this will make them employable as well as acquire entrepreneurship skills
733	BUSINESS MATHEMATICS- II	1545418	Skill Development	The student will be able to enhance their knowledge regarding integral calculus, interpolation and this will also enable them to acquire skills
	B.Sc Interior Design & Décor -46			
734	PRINCIPLES OF INTERIOR DECORATION- I	1646101	Employability	The student will be able to get employment in interior designer



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735	PRINCIPLES OF INTERIOR DECORATION- II	1646102	Employability	The student enhances the ideas of planning buildings
736	INTERIOR DESIGN STUDIO AND BUILDING SYSTEM TECHNOLOGY- I	1646103	Employability	The student learn the techniques of construction and can get employment
737	PRINCIPLES OF INTERIOR DESIGN- I	1646205	Employability	The student will be able to get employment in interior designer
738	PRINCIPLES OF INTERIOR DESIGN- II	1646206	Employability , Entrepreneurship	The student can begin his own venture in designing interior in commerical areas
739	INTERIOR DESIGN STUDIO AND BUILDING SYSTEM TECHNOLOGY- II	1646207	Employability	The student learn the techniques of construction and can get employment
740	APPLIED ART ON TEXTILES- I	1546309	Employability	The student will learn to apply art work on Textiles and get employment in designing textilegarments.
741	INTERIOR DESIGN AND APPLIED ARTS (MIOR ARTS)	1546310	Entrepreneurship	The student can begin his own venture in designing interior
742	BASIC COMPUTER APPLICATION AND AUTOCAD- I	1546311	Employability	The student will gain knowlledge on software designing
743	INTERIOR DESIGN AND APPLIED ARTS (MAJOR ARTS)	1546411	Skill Development	The student can develop his skills on creating different kinds of inteirors
744	APPLIED ART ON TEXTILES- II	1546412	Employability	The students will learn about green environment and can get employed in Corporates
745	BASIC COMPUTER APPLICATION AND AUTOCAD- II	1546413	Employability	The student will gain knowlledge on software designing
	B.Sc. Psychology -47			
746	GENERAL PSYCHOLOGY- I	1647101	Employability, Skill developmen	Understand the Scope and branches of psychology and various applications of Learning theories and Memory improving techniques
747	BIOLOGICAL BASIS OF BEHAVIOR - 1	1647102	Employability, Entrepreneurship	Able to design and conduct research with ethical knowledge. Understand Structure, Function and process of Nervous system
748	PRINCIPLES OF SOCIOLOGY	1647103	Employability	Able to analyse the dynamics of society and human interaction in a multicultural setting and to imply inclusivity in diversity.
749	NME:- ORGANISATIONAL BEHAVIOR	1647104	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
750	GENERAL PSYCHOLOGY -2	1647205	Employability, Skill developmen	Understand and evaluate the major concepts of Psychology like Intelligence, Emotions, Motivation, Personality and its measures
751	BIOLOGICAL BASIS OF BEHAVIOR - 2	1647206	ability, Entrepreneurship, Skill dev	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?
752	FUNDAMENTALS OF SOCIAL ANTHROPOLOGY	1647207	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.
753	NME - ELEMENTS OF INSURANCE	1647208	Employability	Able to gather valuable information on Life insurance products- term-whole life- endowment



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754	DEVELOPMENTAL PSYCHOLOGY I	1647309	Ability, Entrepreneurship, Skill development	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.
	EXPERIMENTAL PSYCHOLOGY	1647311	Employability, Skill development	Able to use various test batteries to measure psychological concepts like memory, intelligence, attention, etc., interpret results and to write report
755	STATISTICS IN PSYCHOLOGY	1647310	Employability, Entrepreneurship	Able to examine various statistical tools, its methods and its usage in conducting research and in interpretation of research results.
756	DEVELOPMENTAL PSYCHOLOGY II	1647412	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.
757	MARKETING AND CONSUMER BEHAVIOR	1647413	Employability	Able to analyse the dynamics of market and marketing strategies to enhance consumer behaviour.
	PSYCHOLOGICAL ASSESSMENT	1647414	Employability, Skill development	Able to interpret Validity, Reliability of various Psychological measures and to administer these questionnaires to measure concepts like Personality, anxiety, anger, self- Esteem, etc., with results analyses and discussion.
	M.A. Journalism -48			
758	INTRODUCTION TO HUMAN COMMUNICATION	1648101	Employability	Public speaking skills, Effective Non- Verbal Communication and Ability to conduct interviews
759	BASIC JOURNALISM	1648102	Employability	Report crisp and clear News, Writing articles for Media
760	COMMUNICATION REVOLUTION	1648103	Employability	Enabling students with technical aspects of communication, Familiarising students with Historical and sociological significance of communication.
761	COMMUNICATION FOR DEVELOPMENT	1648104	Employability	Enabling students with communication for development, Effective use of communication for developmental purposes
762	ELECTIVE - I : WRITING FOR MEDIA	1648105	Employability	Creative writing skills, Writing for Various Media
763	ELECTIVE - II : MEDIA SKILLS-I	1648106	Employability, Skill Development	Develop designing skills, Enable students to design magazines and news letters
764	MASS COMMUNICATION THEORIES	1648207	Employability	Ability to analyse the news content, Enable the students to Effectively disseminate the news to the masses, Develop public communication strategies
765	CONSTITUTION AND MEDIA LAWS	1648208	Employability	Familiarise the students with the intellectual property rights and cyber laws, Create media content in accordance with the constitutional and media laws



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766	BROADCAST JOURNALISM	1648209	Employability	Writing for broadcast media formats, Develop electronic news gathering skills
767	ADVERTISING (CREATIVE COPY WRITING)	1648210	Employability	Create and manage Brands, Develop copywriting skills
768	ELECTIVE - III : MEDIA SKILLS II - MULTIMEDIA AND JOURNALISM TOOLS	1648211	Employability, Skill Development	Expertise in Online Journalism tools, Creating content for online media
769	ELECTIVE - IV : PUBLIC AND CITIZENS JOURNALISM	1648212	Employability, Entrepreneurship, Skill Development	Develop news gathering skills, Produce news stories, To be a freelance journalist.
770	COMMUNICATION RESEARCH METHOD - I	1548313	Employability	Device effective sampling techniques for research, Ability to collect data for research
771	FILM STUDIES	1548314	Employability	Identify the elements of film and appreciate the nuances of film making, Ability to critically analyze a film
772	PUBLIC RELATIONS AND CORPORATE COMMUNICATION	1548315	Employability	Enabling the student to be an effective corporate communicator, Develop public relation skills, Ability to design and execute media campaigns
773	BROADCAST PRODUCTION TECHNIQUES	1548316	Employability	Public speaking skills, Effective Non- Verbal Communication, Ability to conduct interviews
774	ELECTIVE - V : TECHNICAL COMMUNICATION	1548317	Employability	Develop designing skills, Develop Image editing Skills, Create content for online platform and print.
775	COMMUNICATION RESEARCH METHOD - II	1548419	Employability	Design and conduct research, Data analysis skills
776	CROSS - CULTURAL COMMUNICATION	1548420	Employability	Enable student to communicate beyond the cultural barriers, Enhance Negotiation skills
777	ELECTIVE - VII : MEDIA ANALYSIS TECHNIQUES	1548421	Employability	Analyze Media content, Create meaningful media text
778	PRACTICE JOURNAL	1548423	Employability	Journal Publication, Develop narrative skills in print media
	M.Phil Economics - 51			
779	INTRODUCTION TO RESEARCH METHODS IN ECONOMICS	1651101	Skill Development	The student learns about the functioning of the Indian economy and the Indian Financial system which improves his employment opportunities.
780	ECONOMIC THEORY	1651102	Employability	The student learns about the behavior under uncertainty which improves his employment potential.



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781	SELECTED ISSUES IN INDIAN ECONOMIC DEVELOPMENT	1651103	Employability	The student learns about the functioning of the Indian economy and the Indian Financial system which improves his employment opportunities.
M.Phil Commerce -52				
782	RESOURCE METHODOLOGY	1652101	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
783	ADVANCED FINANCIAL MANAGEMENT	1652102	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. AdditionalTo deliberate on merger/ acquisition options, and the role of different finaservices. Construct a security portfolio considering relevant theories and their implications. Critically evaluate the impact of financial decisions on the strategic direof the organisation Analyse the company's performance and make proper recommendations.
784	ADVANCED MARKETING	1652103	Employability	Familiarize with the fundamentals of marketing of product, securities, services and market segmentation. Understand the nuances and complexities involved in product, pricing distribution and promotion policies. Analyze the distribution cost and risk management. Demonstrate the marketing ethics and legal provision of marketing, Introduce the concept of Supply Chain Management, Retail Marketing, Branding. Develop market analysis skills to capture market opportunities. Articulate in-depth understanding of a range of contemporary markeissues, theories & practices.
M.Phil Biochemistry -55				
785	RESEARCH METHODOLOGY	1655101	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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786	ADVANCED BIOCHEMISTRY	1655102	Employability, Skill Development	<p>Understand the major metabolic pathways of carbohydrate, lipid, nucleic acid and amino acid metabolism.</p> <p>Apply modern techniques to investigate interactions between macromolecules (DNA, RNA and proteins).</p> <p>Demonstrate the types of plant and animal tissue culture and can become entrepreneurs</p>
787	ADVANCED BIOCHEMISTRY	1655102	Employability, Skill Development	<p>Understand the major metabolic pathways of carbohydrate, lipid, nucleic acid and amino acid metabolism.</p> <p>Apply modern techniques to investigate interactions between macromolecules (DNA, RNA and proteins).</p> <p>Demonstrate the types of plant and animal tissue culture and can become entrepreneurs</p>
788	ENZYMES & ENZYME TECHNOLOGY	1655103	Employability, Skill Development	<p>Explore the extraction of enzymes and down streaming process</p> <p>Understand the types and techniques employed in immobilization</p> <p>Learn the principle and application of ELISA and EMIT in clinical analysis, types of biosensor. Biochips and it applications.</p> <p>Exposure to the nature of non-protein enzymes such as ribozymes and abzymes. Explore the role of enzymes in in rDNA technology.</p>
789	PLANT BIOCHEMISTRY & PLANT THERAPEUTICS	1655103	Employability, Skill Development	<p>Explore the chemical events that cause biological phenomena in living organisms</p> <p>Carry out experiments in R & D.</p> <p>Work with Research guides to produce GMO'S.</p>
790	DNA TECHNIQUES AND CLINICAL APPLICATIONS	1655103	Employability, Skill Development	<p>Understand the applications of DNA technology in basic and applied experimental biology. Gain Proficiency in designing and conducting experiments involving genetic manipulation.</p> <p>Employ PCR, nucleic acid hybridization and sequencing technologies for detection and diagnostics.</p>
M.Phil Microbiology -56				
791	RESEARCH METHODOLOGY AND ITS APPLICATIONS	1656101	Employability, Skill Development	<p>At the end of the course, the student will able to</p> <ul style="list-style-type: none"> •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.
792	ADVANCES IN MICROBIOLOGY	1656102	Employability, Entrepreneurship, Skill Development	<p>At the end of the course, the student will able to</p> <ul style="list-style-type: none"> •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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793	INDUSTRIAL AND PHARMACEUTICAL MICROBIOLOGY	1656103	Employability	At the end of the course, the student will able to •Identify the ethics of significant unit processes used in downstream processing for a range of commercially significant products. •Formulate antibiotics, therapeutic enzymes and immunological products and apply Standard procedures in pharmaceutical industry •Build knowledge with the basics of Pharmaceutical safety regulations, control agencies of quality control and gain knowledge about sterilization control
794	BIOREMEDIATION	1656104	Employability	At the end of the course, the student will able to •To understand the importance and concepts of bioremediation process. •Provide appropriate scientific knowledge on real-world applications of bioremediation

PRINCIPAL
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