PROGRAM OUTCOMES,PROGRAM SPECIFIC OUTCOMES, COURSE OUTCOMES

Mechanism of Communication:

The College has clearly stated learning outcomes of the Programs and Courses. The following mechanism is followed by the institution to communicate the learning outcomes to the teachers and students.

- Hard Copy of syllabi and Learning Outcomes are available in the departments for ready reference to the teachers and students
- Learning Outcomes of the Programs and Courses are displayed on the walls outside each department
- Soft Copy of Curriculum and Learning Outcomes of Programs and Courses are also uploaded to the Institution website for reference
- The importance of the learning outcomes has been communicated to the teachers in every IQAC Meeting and College Committee Meeting.
- The students are also made aware of the same through Tutorial Meetings.

Course outcomes for all Courses:

Department of Tamil	
Course Outcomes	
Courses	**Outcomes**
Part- I Tamil Paper I & II	Obtaining more information about one's culture and tradition; encouraging creative writing and developing self-confidence.
Part- I Tamil Paper III & IV	Aiming at enriching human excellence; increasing the level of comprehension and exercising communal harmony.
Basic Tamil	Helping the students who did not learn Tamil till Higher Secondary know the basics of the language, Tamil.
Advanced Tamil	Teaching various genres in Tamil Literature to Tamil students who did not opt Tamil as Part I Language in the first year.

Department of Hindi	
Course Outcomes	
Courses	**Outcomes**
PART-I Hindi Paper I Paper II Paper III Paper IV	Students can work anywhere in India, as they know Hindi - Our National Language. In many other countries also, Hindi is used as an Official Language as well as second Language. So they can easily be employed easily in those countries also.
	As they are Practicing Translation from Hindi to English and English to Hindi and some other Languages as well, they can become Translators in many Central Govt Offices. They are learning Poetry and Grammar -so they can become creative writers or poets are authors.
	By Reading and observing Drama's and one act plays they can become good actors. By having good communication skills and command over language one can becomes good speaker. Having good command over particular language one can present himself in better way. Learning Hindi in non-hindi region definitely one can achieve anything.

Department of English	
Course Outcomes	
Courses	**Outcomes**
Part II: English	On successful completion of the paper, the students are introduced to communicative skills, to define, classify, and understand the methods of communication, to improve their LSRW skills, to enable them to practice those skills in their daily life by identifying instances of communication in the circumstances of their own.
Social History of England	To familiarize students with the main events, conflicts, inventions and rich history of Great Britain.
History of English Literature	To comprehend literary texts of ancient and modern literature written by great writers of English.
Literary Forms	To become technically strong in different genres like Lyric, Ballad, Elegy, Tragedy, Comedy, tragicomedy etc.
Literary Criticism	To acquire good knowledge with regard to the analysis of critical frameworks and methodologies for better interpretation of literature.
English Literature for Competitive Examinations	To be acquainted with glossary of literary terms.

Department of English Literature	
B. A. English Literature	
Programme Outcome	Developing intellectual, personal and professional abilities through effective communicative skills; ensuring high standard of behavioural attitude through literary subjects and shaping the students socially responsible citizens.
Programme Specific Outcome	On successful completion of the Programme, the students will be accurate both in oral and written communication as they will be strong in Grammar and its usage.
	They can express a thorough command of English and its linguistic structures.
	They can apply critical frameworks to analyze the linguistic, cultural and historical background of texts written in English.
	They will be familiar with the conventions of diverse textual genres including fiction, non-fiction, poetry, autobiography, biography, Journal, film, plays, editorials etc.
Course Outcomes	
Courses	**Outcomes**
British Literature	To acquire a sound comprehension of literary, societal, cultural, biographical and historical background of the greatest writings in British Literature.
American Literature	To get a better comprehension of literary, societal, cultural, biographical and historical background of the greatest writings in American Literature.
New Literatures in English	To obtain adequate information on colonization and post-war consequences through the literary, societal, cultural, biographical and historical background of the greatest writings in Commonwealth literature
The English Language	To trace out the history of English Language and varied components of linguistic structures of the language.
Grammar for Communication	To gain knowledge on fundamental principles of English grammar including parts of speech, sentence types, sentence analysis, simple/compound/complex sentences, subject-verb agreement, pronoun usage, punctuation, capitalization etc.
Indian Writing in English	To learn the literary, societal, cultural, biographical and historical background of the greatest English writings penned by Indian Authors.
Indian Literature in English Translation	To know the basic principles in translation, issues faced by translators and the popularity gained through target language.

Project Work	The aim of the Project work is to acquire practical knowledge on the implementation of perceptions studied through the programme.
M. A. English Literature	
Programme Outcome	Developing intellectual, personal and professional abilities through effective communicative skills; ensuring high standard of behavioural attitude through literary subjects and shaping the students socially responsible citizens.
Programme Specific Outcome	On successful completion of the Programme, the students will be accurate both in oral and written communication as they will be strong in Grammar and its usage.
	They can express a thorough command of English and its linguistic structures.
	They can apply critical frameworks to analyze the linguistic, cultural and historical background of texts written in English.
	They will be familiar with the conventions of diverse textual genres including fiction, non-fiction, poetry, autobiography, biography, Journal, film, plays, editorials etc.
Course Outcomes	
Course	**Outcomes**
British Literature	To acquire a sound comprehension of literary, societal, cultural, biographical and historical background of the greatest writings in British Literature.
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Indian Writing in English	To learn the literary, societal, cultural, biographical and historical background of the greatest English writings penned by Indian Authors.

Indian Literature in English Translation	To know the basic principles in translation, issues faced by translators and the popularity gained through target language.
Project Work	The aim of the Project work is to acquire practical knowledge on the implementation of perceptions studied through the programme.

Department of Commerce	
B. Com	
Programme Outcome	This program could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Selling Manager, Over all Administration abilities of the Company.
Programme Specific Outcome	The students should possess the knowledge, skills and attitudes during the end of the B.com degree course. By virtue of the training they can become an Manager, Accountant , Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government jobs etc.,
Course	**Outcomes**
Business organisation and Office Management.	On successful completion of this subject the students acquires the knowledge about the various types of business organizations, office management and related.
Principles Of Accountancy	To enable the students to learn principles and concepts of Accountancy.
Financial accounting	On successful completion of this course the student are enabled with the Knowledge in the practical applications of accounting.
Higher Financial Accounting	To enable the students to learn the basic concepts of Partnership Accounting, and allied aspects of accounting. After the successful completion of the course the student should have a through knowledge on the accounting practice prevailing in partnership firms and other allied aspects.

Principles of Marketing	On successful completion of this course the students should have the practical knowledge and he tactics in the marketing.
Commercial Law	On successful completion of this course, the student should be well versed in basic provisions regarding legal frame work governing the business world.
Management Accounting	This course aims to develop an understanding of the conceptual framework of Management Accounting. After the successful completion of the course the student acquires the knowledge in the Management Accounting Techniques in business decision making.
Cost Accounting	To keep the students conversant with the ever – enlarging
	frontiers of Cost Accounting knowledge.
Banking Law theory and Practice	To enlighten the students' knowledge on Banking Regulation Acts. After the successful completion of the course the student should have a through knowledge on Indian Banking System and Acts pertaining to it.
Corporate Accounting	This course aims to enlighten the students on the accounting procedures followed by the Companies.
	To enable the students to be aware on the Corporate Accounting in conformity with the provision of the Companies Act.
Income-Tax	This course aims to provide an in-depth knowledge on the provisions of Income Tax. To familiarize the students with recent amendments in Income-tax.
Principles of Auditing	On successful completion of this course, the student should be well versed in the fundamental concepts of Auditing.
Entrepreneurial Development	On successful completion of this course, the student should be well versed in Concept relating to entrepreneur, Knowledge in the finance institution, project report incentives and subsidies.
Diploma In Business Automation	To enable the students to Work with MS-Office and Tally. On successful completion of this course, the student should be able to work efficiently in Ms-PowerPoint, Ms-Access and Tally.

M. Com	
Programme Outcome	This program could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Logistics, distribution channel management, Application of Information technology in Business, Alternative investment management technique etc., to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Sales Manager, Bank manager, Cost accountant, Academicians, Project management, Research Analysts, and Over all Administration abilities of the Company.
Programme Specific Outcome	The students should possess the knowledge, skills and attitudes during the end of the M.com degree course. By virtue of the training and curriculum, they can become an Managers, Accountants , Cost Accountants, Bank Managers, Auditors, Company Secretaries, Teachers, Professors, Stock Agents, Government jobs etc.,
Course Outcomes	
Course	**Outcomes**
Managerial Economics	The students acquires the knowledge of Demand forecasting in sales management, Price fixing, market competitors, and management business economically.
Corporate Accounting	This course aims to enlighten the students on the accounting
	procedures followed by the Companies.
	To enable the students to be aware on the Corporate Accounting in conformity with the provision of the Companies Act.
Business Research Methods	On successful completion of this course the student are enabled with the Knowledge in Business analysis, Research methods.
Higher Financial Accounting	To enable the students to learn the basic concepts of Partnership Accounting, and allied aspects of accounting.
	After the successful completion of the course the student should have a through knowledge on the accounting practice prevailing in partnership firms and other allied aspects..

Marketing Management	On successful completion of this course the students should have the practical knowledge and he tactics in the marketing.
Human Resource Management	To understand the nature of human resources and its significance to the organization.
Management Accounting	This course aims to develop an understanding of the conceptual framework of Management Accounting. After the successful completion of the course the student acquires the knowledge in the Management Accounting Techniques in business decision making.
Cost Accounting	To keep the students conversant with the ever – enlarging frontiers of Cost Accounting knowledge.
Financial Management	This course enables the students with the knowledge about the Capital budgeting, Working capital, cash management, and better financial management techniques.
Investment Management	The students will be enabled with knowledge of portfolio management, Portfolio analysis, Provident, LIC, The Post Office schemes etc.
International Business	The students acquires the knowledge about the Foreign trade, Foreign exchange, etc.
Project Work & Viva-Voce	This gives practical exposure in the Project work, knowledge which will equip the students in Research work.

Department of Commerce With Computer Application	
Programme Outcome	Commerce with computer Application gives a deeper understanding of both Information Technology and Commerce, thereby enabling the budding graduates to pursue careers in either of the two fast-growing areas, viz. IT Industry, Commerce, and Financial sector.
Programme Specific Outcome	Students will demonstrate that they can present the results of their observations and research in a way that is objective, technically accurate, and legally acceptable. Students will use effective technology appropriately, such as PowerPoint, slides, posters, handouts, and transparencies in oral presentations.
Course Outcomes	
Course	**Outcomes**
Financial Accounting	On successful completion of this course, the student should have understood Concepts and conventions of Accounting, Accounting framework.
Banking theory	After the successful completion of the course the student will be able to know the functions of banks
Principles of Auditing	On successful completion of this course, the student should be well versed in the fundamental concepts of Auditing.

Business Economics	The objective of this paper is to make the student to understand how the business organizations work by applying economic principles in their business management.
C++ Programming	To inculcate knowledge on Object-oriented programming concepts using C++.
DBMS & Oracle	To inculcate knowledge on RDBMS concepts and Programming with Oracle.
Cost & Management Accounting	After the successful completion of the course t he student should have a thorough knowledge on the cost accounting principles and the methods of accounting cost.
Financial Management	On successful completion of this course, the student should be well versed in the concept of Business Finance and the Application of Finance to Business
E-Commerce	On Successful Completion of this subject the students should have: - E-Commerce , E-Market , EDI , Business Strategies etc.,
Project Work	The aim of the Project work is to acquire practical knowledge on the implementation of the Finance, HR & Marketing studied.
Managerial Economics	On successful completion of this course, the student should be well versed in the concepts, tools and principles in the field of Economics and Business Management.
Corporate Accounting	To enable the students to be aware on the Corporate Accounting in conformity with the provision of the Companies Act. Objectives: After the successful completion of the course the student should have a through knowledge on the accounting practice prevailing in the Corporate.
Direct Tax	To familiarize the students with recent amendments in Income-tax. On successful completion of this course, the student should be well versed in the prevailing act.

Department of Commerce with Information Technology	
Programme Outcome	This program could provide well trained professionals for the technology and allied industries to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects of information technology viz. software updation, programme developers, software testing, BPO, web designer. The program will help the graduates to take up responsibilities in production, testing, designing and marketing in the information technologies and contribute for the growth of industry.
Programme Specific Outcome	The ability to understand, analyze and develop software programs in the areas related to system software, multimedia, web design, application program, database , graphics and networking for efficient design of technology of varying complexity.

Course Outcomes	
Courses	**Outcomes**
Computing Fundamentals and C Programming	On successful completion of this subject the students have the programming ability in C Language
Database Management System	To acquaint practical knowledge about creating and manipulating data in
C++ Programming	To inculcate knowledge on Object-oriented programming concepts using C++.
Networking Management	The paper aims to combine the fundamental concepts of data communications
Java Programming	To inculcate knowledge on Java Programming concepts
RDBMS & Oracle	To inculcate knowledge on RDBMS concepts and Programming with Oracle.
Software Development in VB (Visual Basic)	To enable students to create a software package using VB
Computer Networks	To inculcate knowledge on Networking concepts and technologies like wireless, broadband and Bluetooth.
E-Business	The paper imparts understanding of the concepts and various application issues of e-business like Internet infrastructure, security over internet, payment systems and various online strategies for e-business.
Project Work	The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied.

Department of Business Administration	
Programme Outcome	Students will develop as effective management professionals and take on more responsibilities in future and to give outstanding results in the area of their interest
Programme Specific Outcome	The ability to understand, analyze and apply management concepts in the areas related to marketing, human resources and finance for efficient running of the business organisation of varying complexity in competitive era.

Course Outcomes	
Course	**Outcomes**
Principles of Management	On successful completion of this course, the students should have understood Principles & functions of Management, Process of decision making, Modern trends in management process.
Basics of Business & Business Environment	On successful completion of this subject the students should have Knowledge on the meaning conveyed by the word 'Business' , understand the various forms of business , types of business and impact of various aspects on business environment.
Organisational Bahaviour	To inculcate knowledge on Personality, Perception, Motivation, Job-satisfaction, morale, Group dynamics, Leadership traits, Counseling and guidance, etc.
Economics for Executives	Enable the student to understand the objectives of business firms, Factors of production and BEP Analysis, Types of competitions and price administration, Government measures to control monopoly.
Financial Management	To inculcate knowledge on the basic accounting concepts, Double entry book keeping system and various books of accounts Preparation of final accounts, etc.
Production and Materials Management	To inculcate knowledge on Principles, functions and process of Production Management, Effective management of materials
Marketing Management	Enable the student to understand the Principles of marketing management, market segmentation Product life cycle, pricing, branding etc.
Business Law	To inculcate knowledge on various laws relating to business such as law of contract, law of sale of goods, law of agency, Negotiable Instruments Act etc.
Human Resource Management	On Successful Completion of this subject, the students should have understood the functions of Human Resource /Personnel Department, Manpower planning, performance appraisal, Salary administration, Labour Welfare, Industrial Relations etc.
Financial Management	On Successful Completion of this subject, the students should have understood the functions of Finance, Cost of capital, Capital structure, Capital Budgeting, Working Capital Management
Management Information System	To inculcate knowledge on Computer based information system MIS support for the functions of management
Taxation – Law and Practice	Enable the student to understand the Principles of Direct and Indirect Taxes Calculation of Tax, Tax Authorities, Procedures
Cost and Management Accounting	To inculcate knowledge on Cost sheet, Material issues, Labour cost, Financial statement analysis, Budgeting etc.

Research for Management	Enable the student to understand the Research methods and sampling techniques, Analysis and interpretation of data, Application of research
Advertising and sales Promotion	On successful completion of this course, the students should have understood Advertising, Ad media, Ad agencies, Sales force management, promotional strategies
Modern Office Management	Enable the student to understand and acquaint with modern office procedures such as filing, indexing, safeguarding, maintenance etc.
Customer Relationship Management	On successful completion of this course, the students should have understood Relationship Marketing, Sales Force Automation, Database Marketing etc.
Investment Management	To inculcate knowledge on Investment avenues, Security analysis
Services Marketing	On successful completion of this course, the students should have understood the growing importance of services in every organization
Industrial Relations and Labour Laws	Enable the student to understand and acquaint with Legislations relating to Industrial Disputes and Labour welfare
Consumer Behaviour	On successful completion of this course, the students should have understood consumer motivation and perception, Learnt consumer learning and attitude Learnt consumer decision making

Department of Commerce with Professional Accounting	
Programme Outcome	The programme titled B. Com with professional Accounting is intended to breed the following benefits to students community.
	Domain Knowledge:
	Very contemporary, updated syllabus within the framework of curriculum which is revised periodically.
	Industry ready graduates
	The requirement of the industry is reflected in all spheres. So the gulf between the academia and industry is bridged.
	Pool of subjects
	Expansive coverage of all probable areas of business interests.
	IT tinged.
Programme Specific Outcome	Serving as a launch pad for professional programmes like CA, ICWA and ACS.
	Moulding the students in such a way which will make them having superficial knowledge about everything in commerce and in depth knowledge about core subjects.

	Justifying the need and necessity of having covered in variant of traditional programme with a high degree of contentment.
	Undiluted presentation of nucleus of programme with modern touch.
Course Outcomes	
Course	**Outcomes**
Principles of Accountancy	To expose fundamentals of accountancy in elaborate manner
Advanced Accounting-I	Providing basic coverage of advanced accountancy
Cost Accounting	Making students to know importance about cost variance.
Advanced Accounting-II	Providing extensive coverage of advanced accountancy
Management Accounting	Imparting the knowledge about accounts in management
Corporate Accounting	To expose extensive knowledge in company accounts
Introduction to Information Technology	To familiarize with IT fundamentals
Industrial Law	IL providing a roundup of various ;legislation concerning industries
Mercantile Law	Making students aware of contemporary law practices
Strategic Management	Making students aware complexity of business
Managerial Economics	providing exposure to basis of economics
Principles of Marketing	providing exposure about principles of marketing
Principles of Management	Providing exposure about principles of management.
Auditing and Assurance-I	Familiarizing with auditing & assurance sector
Auditing and Assurance-II	Imparting extensive knowledge in auditing & assurance
Principles of Auditing	Familiarizing with auditing principles.
Direct Tax-I	Making students aware of legal process of assessment.
Direct Tax-II	Making students aware of advanced legal process of assessment.
Entrepreneurial Development	To expose fundamentals of entrepreneurs in elaborate manner.
Banking & Insurance Law	Making students to know about laws in banking & insurance sector

Service & VAT Tax	Up to date knowledge about tax
Cyber Law	Imparting awareness about cyber law
Financial Markets	Imparting about financial markets

Department of Commerce with Corporate Secretaryship	
Programme Outcome	To impart knowledge and skills needed to contribute to the corporate world. It is a 100% placement-oriented, professional course eligible to pursue ACS to become a company secretary.
Programme Specific Outcome	The course enables students to acquire knowledge about Accounting, Law papers and computer skills. They specialize in areas like Company Law , Secretarial Practice, General Laws, Industrial Law, Corporate Laws and Corporate Governance.
Course Outcomes	
Course	**Outcomes**
Financial Accounting	To provide basic knowledge about the accounting principles and procedures.
Corporate Accounting	To teach the basic concepts and real life procedures in company accounts.
Cost Accounting	To provide adequate knowledge on Cost Accounting Practice.
Business Management	To enable the students to know the intricacies of Business Management.
Law of Insurance	To impart theoretical base on fundamentals principles of insurance business
Fundamentals of Information Technology	To provide basic conceptual knowledge about the computer systems and information technology
Commercial Law	To enlighten the students' knowledge on the basic Business Law
Company Law & Secretarial Practice	To enlighten the students' knowledge on Companies Act and Secretarial practices.
General Laws	To familiarize the students with recent amendments in General Laws.
Corporate Finance	To enable the students to know the intricacies of Corporate Finance.
Industrial Law	To familiarize the students with recent amendments in Industrial Law.
Taxation I (Direct	To familiarize the students with the major in.

Taxes)	
MS Office and Tally	To enable the students to Work with MS-Office and get knowledge of tally practice.
Management Accounting	To develop the understanding of accounting tools and information and their uses in Decision making.
Auditing	To familiarize the students with the Principles of Auditing.
Department of Commerce with Banking and Insurance	
Programme Outcome	The course is tailor-made for aspirants of banking and insurance and other banking courses in the domain of commerce by drawing rich academic inputs from contemporary syllabus reflecting recent developments.
Programme Specific Outcome	Comparatively, graduates of commerce with B&I are given priority in getting employed in leading banking and insurance sector and other accounting related jobs owing to having had better exposure in under graduation programme with industry specific curriculum.
	Higher education prospects are quite good in view of the fact that the post graduating department of any institution recognizes it on par with any programme of commerce stream.
Course Outcomes	
Course	**Outcomes**
Principles of Accounting	To enhance the students with practical knowledge of book keeping and accounting
Financial Accounting	To provide basic knowledge about the accounting principles and procedures
Corporate Accounting	To teach the basic concepts and real life procedures in company accounts
Cost Accounting	To provide adequate knowledge on Cost Accounting Practice
Management Accounting	To develop the understanding of accounting tools and information and their uses in Decision making
Indian Banking System	To acquaint knowledge about the banking system prevailing in India
Fundamentals of Insurance	To impart theoretical base on fundamentals principles of insurance business
Fundamentals of Entrepreneurship	To make the students to prepare business plan
Banking Law & Practice	To make the students aware of the laws relating to the business
Merchant Banking	To create basic conceptual knowledge about the core banking

Financial Management	To adequate knowledge about the budgetary control in the Corporates
Commercial Bank Management	To enhance the conceptual knowledge about core banking practices
Insurance Management	To acquire skills needed to manage insurance business
Principles of Auditing	To create basic conceptual knowledge about the auditing principles
Micro Finance	To acquire conceptual knowledge of the micro financing system in India

Department of Computer Application	
Programme Outcome	Students will establish themselves as effective professionals by solving real problems through the use of computer science knowledge and with attention to team work, effective communication, critical thinking and problem solving skills. Students will develop professional skills that prepare them for immediate employment and for life-long learning in advanced areas of computer science and related fields.
Programme Specific Outcome	The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, application program, database , graphics and networking for efficient design of computer-based systems of varying complexity.
Course Outcomes	
Courses	**Outcomes**
Computing Fundamentals and C Programming	On successful completion of this subject the students have the programming ability in C Language
Digital Fundamentals and Architecture	On successful completion of this subject the students should have Knowledge on Digital circuits, Microprocessor architecture, and Interfacing of various components.
C++ Programming	To inculcate knowledge on Object-oriented programming concepts using C++.
System Software and Operating System	Enable the student to get sufficient knowledge on various system resources
Java Programming	To inculcate knowledge on Java Programming concepts

DBMS & Oracle	To inculcate knowledge on RDBMS concepts and Programming with Oracle.
Graphics & Multimedia	To inculcate knowledge on Graphics & Multimedia concepts.
Compuer Networks	To inculcate knowledge on Networking concepts and technologies like wireless, broadband and Bluetooth.
E-Commerce	On Successful Completion of this subject the students should have: - E-Commerce , E-Market , EDI , Business Strategies etc.,
Project Work	The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied.

Department of Computer Science	
Programme Outcome	An ability to apply knowledge of computing and mathematics appropriate to the program's student outcomes and to the discipline. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs. An ability to function effectively on teams to accomplish a common goal. An understanding of professional, ethical, legal, security and social issues and responsibilities. An ability to communicate effectively with a wide range of audiences. An ability to analyze the local and global impact of computing on individuals, organizations, and society. Recognition of the need for and an ability to engage in continuing professional development. An ability to use current techniques, skills, and tools necessary for computing practice. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices. An ability to apply design and development principles in the construction of software systems of varying complexity.

Programme Specific Outcome	Ability to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all computer science courses in particular to identify, formulate and solve real life complex engineering problems faced in industries and/or during research work with due consideration for the public health and safety, in the context of cultural, societal, and environmental situations. Ability to provide socially acceptable technical solutions to complex computer science engineering problems with the application of modern and appropriate techniques for sustainable development relevant to professional engineering practice. Ability to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team. Ability to comprehend and write effective project reports in multidisciplinary environment in the context of changing technologies.

Course Outcomes	
Course	**Outcomes**
Computing Fundamentals and C Programming	On successful completion of this subject the students have the programming ability in C Language
Cobol Programming	On successful completion of this subject the students should have : - Writing programs for business applications - Concepts of file handling in programming languages
Digital Fundamentals And Architecture	On successful completion of this subject the students should have Knowledge on Digital circuits, Microprocessor architecture, and Interfacing of various components.
Data Structures	To design and implementation of various basic and advanced data structures. To introduce various techniques for representation of the data in the real world. and to develop application using data structures.
C++ Programming	To inculcate knowledge on Object-oriented programming concepts using C++.
Software Engineering & Software Project Management	To introduce software project management and to describe its distinctive characteristics and to discuss project planning and the planning process and show how graphical schedule representations are used by project management and the risk management process
System Software And Operating System	Enable the student to get sufficient knowledge on various system resources.
Java Programming	To inculcate knowledge on Java Programming concepts
Visual programming- Visual Basic & Visual C++	To introduce the concepts of visual programming. To introduce GUI programming using Microsoft foundation classes. To enable the students to develop programs and simple application using Visual C++.
RDBMS & Oracle	To inculcate knowledge on RDBMS concepts and Programming with Oracle.

Graphics & Multimedia	To inculcate knowledge on Graphics & Multimedia concepts.
Computer Networks	To inculcate knowledge on Networking concepts and technologies like wireless, broadband and Bluetooth.
Software Testing	To inculcate knowledge on Software testing concepts
Web Technology	To inculcate knowledge in web technological concepts and functioning internet
Data Mining	On Successful Completion of this subject the students should have knowledge on Data mining Concepts
Project Work	The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied.

Department of Computer Technology	
Programme Outcome	One of the most important benefits of taking computer courses is that the students will have more jobs available to them. The types of new jobs that will be available depend on what kind of courses they take, but every group of courses will open up new opportunities. Almost all jobs require that a worker has some computer skills. The number of positions available to those who aren't comfortable using computers gets smaller each day.
Programme Specific Outcome	Graduates of the Computer Technology Program will, by the time of graduation, have the following knowledge, abilities, and appreciation of professional standards. a) An ability to apply knowledge of computing and mathematics appropriate to the discipline. (b) An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution. (c) An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs. (d) An ability to function effectively on teams to accomplish a common goal. (e) An understanding of professional, ethical, legal, security and social issues and responsibilities. (f) An ability to communicate effectively with a range of audiences. (g) An ability to analyze the local and global impact of computing on individuals, organizations, and society. (h) Recognition of the need for and an ability to engage in continuing professional development. (i) An ability to use current techniques, skills, and tools necessary for computing practice.

Course Outcomes	
Course	**Outcomes**
Computing Fundamentals and C Programming	On successful completion of this subject the students have the programming ability in C Language by understand fundamentals and basic concepts of C programming includes arrays, structures, function, strings, Exceptions, pointers and files.
Digital Fundamentals and Architecture	On successful completion of this subject the students should have Knowledge on Digital circuits, Microprocessor architecture, and Interfacing of various components.
C++ Programming	To inculcate knowledge on Object-oriented programming concepts using C++ by understand fundamentals and basic concepts of object oriented programming concepts includes classes, objects, virtual functions, inline functions, friend functions, strings, Exceptions, pointers and files.
Internet Basics	Understand the basic concepts and the usage of internets, mail creation, online job apply, resume preparation, social networks etc.
Data Structures	Enable the students to understand the abstract data types stack, queue, dequeue, and list. To be able to implement the ADTs stack, queue, and dequeue.
Java Programming	To inculcate knowledge of Programming logic concepts, which enables the students to create wide range of Applications and Applets using Java by understanding fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries, etc.
Microprocessor and ALP	A thorough understanding of the microprocessor demands concepts and skills from two different disciplines: hardware concepts from electronics and programming skills from computer science.
Data Communication and Networks	To provide an introduction to Computer networks and to covers the fundamental topics like data, information to the definition of communication and computer networks which enable seamless exchange of data between any two points in the world .
System Software and Operating System	Enable the students to get sufficient knowledge on various system resources, system software and Operating system concepts.

Linux and Shell Programming	To provide a comprehensive introduction to Basic Linux Shell Programming Logic and enhance the students to write simple and complex shell scripts.
TCP / IP	Enable the students to understand the purpose and history of the TCP/IP protocol suite. To Describe the Internet standards process and the purpose of a Request for Comments (RFC) document.
Network Lab	The purpose of this course is to be able to explain, configure, verify, and troubleshoot complex computer networks at an introductory level.
RDBMS & Oracle	To inculcate knowledge on RDBMS concepts and Programming with Oracle.
Visual Programming:VB,VC++	Understand and use the concepts of objects, primitive value, message, method, selection control structure, repetition control structures, object reference, container, and method parameter.
Distributed Computing	On successful completion of the course the students should have understood the trends and principles of distributed computing.
Network Security & Management	To meet the security requirements of the SLAs and other external requirements further to contracts, legislation and externally imposed policies.
Graphics & Multimedia	To inculcate knowledge on Graphics & Multimedia concepts and to apply the creativity in real-time using algorithms and animation techniques.
Computer Installation & Servicing	To acquire basic knowledge about the computer hardware, installation, etc.
Data Mining	On successful completion of this subject the students should have knowledge on data mining concepts
Network Security Lab	To meet the error control issues and end to end data transmission using sockets.
Project Work	The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied.

Department of Information Technology	
B. Sc Information Technology	
Programme Outcome	1) Apply the knowledge of Technology, Mathematics, Networks and computing in the core information technologies.
	2) Identify, design, and analyze complex computer systems and implement and interpret the results from those systems.
	3) Analyze the local and global impact of computing on individuals, organizations, and society.
Programme Specific Outcome	1) Understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics and networking for efficient design of computer-based systems of varying complexity.
	2) Apply standard Software Engineering practices and strategies in software project development using open-source programming environment to deliver a quality product for business success.
	3) Be acquainted with the contemporary issues, latest trends in technological development and thereby innovate new ideas and solutions to existing problems.
Course Outcomes	
Courses	**Outcomes**
Computing Fundamentals and C Programming	On successful completion of this subject the students have the programming ability in C Language
Digital Fundamentals and Architecture	On successful completion of this subject the students should have Knowledge on Digital circuits, Microprocessor architecture, and Interfacing of various components.
C++ Programming	To inculcate knowledge on Object-oriented programming concepts using C++.
Data Structures	On successful completion of this subject the students should have : - Writing programming ability on data structures dealing with Stacks, Queues, List, Searching and Sorting algorithms etc.,
Java Programming	To inculcate knowledge on Java Programming concepts
System Software and Operating System	Enable the student to get sufficient knowledge on various system resources
Linux Programming	This course will prepare students to develop software in and for Linux environments. It include basic operating system concepts, effective command line usage, shell programming, the C language, programming development tools, system programming, network programming (client-server model and sockets), and GUI programming
RDBMS & Oracle	To inculcate knowledge on RDBMS concepts and Programming with Oracle.

Visual Programming – Visual Basic & Visual C++	The objective of the course is to cover visual programming skills needed for modern software development – such as review of Object-Oriented programming, Visual programming basics such as value types, operator overloading, exception and event handling, Using GUI frameworks
Graphics & Multimedia	To inculcate knowledge on Graphics & Multimedia concepts.
Project Work	The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied.
M. Sc Information Technology	
Programme Outcome	Mainly focus on technological information systems. Apply the knowledge of Technology, Mathematics, Networks and computing in the core information technologies.
	Identify, design, and analyze complex computer systems and implement and interpret the results from those systems.
	Analyze the local and global impact of computing on individuals, organizations, and society.
Programme Specific Outcome	Appreciate and integrate new software and hardware technologies and extend their knowledge in specific areas of interest in academia and the industry.
	Apply standard Software Engineering practices and strategies in software project development using open-source programming environment to deliver a quality product for business success.
	Provide to work in an IT or computing environment with the opportunity to enhance their career prospects by gaining additional knowledge and skills in selected areas of IT.
Course Outcomes	
Course	**Outcomes**
Object Oriented Analysis and Design	On successful completion of the course the students should have understood the object oriented system development and case models
Information Coding Techniques	On successful completion of the course the students should have understood the Information Entropy Fundamentals, Learnt various coding techniques
Advanced Java Programming	On successful completion of the course the students should have acquired skill in advanced java programming.
Web Designing	On successful completion of the course the students should have understood the fundamentals of Web design and how to program using HTML, ASP and XML.
Data Mining and	On Successful completion of the course the students should have

Warehousing	understood the Association rules, Clustering techniques and Data warehousing
Network Security and Cryptography	On Successful completion of the course the students should have understood the process of implementing the cryptographic algorithms.
.Net Programming	On successful completion of the course the students should have understood .NET Framework, VB.NET, and ASP.NET
Software Project Management	On successful completion of the course the students should have a deep insight to software project management concepts
Digital Image Processing	On Successful completion of the course the students should have understood the fundamentals of Digital Image Processing, image compression and segmentation
Big Data Analytics	On successful completion of the course the students should have understood the big data handling concepts, R Programming, Map Reduce and Hadoop based analytics, Understood the HDFS architecture
Cloud Computing	On successful completion of the course the students should have understood the Cloud computing architectures, applications and challenges
PHP Programming	On Successful completion of the course the students should have: Understood the features like functions, forms in PHP, Files handling, OOPs concepts, Cookies, Sessions and Data base, draw images on the server with AJAX. Acquired skills to write PHP programs
Project Work	The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied.

Department: Mathematics with Computer Application	
Programme Outcome	B.Sc graduates apply their broad knowledge of science across a range of fields, with in-depth knowledge in at least one area of study, while demonstrating an understanding of the local and global contexts in which science is practiced.
	Articulate the methods of science and explain why current scientific knowledge is both contestable and testable by further inquiry. Apply appropriate methods of research, investigation and design, to solve problems in science.

Programme Specific Outcome	Mathematics majors at SNMV will be able to apply critical thinking skills to solve problems that can be modeled mathematically, to critically interpret numerical and graphical data, to read and construct mathematical arguments and proofs, to use computer technology appropriately to solve problems and to promote understanding, to apply mathematical knowledge to a career related to mathematical sciences or in post - baccalaureate studies.
Course Outcomes	
Course	**Outcomes**
Classical Algebra	To inculcate knowledge on knows the selected aspects of classical algebraic structures.
Calculus	To inculcate knowledge on the ability to find the effects of changing conditions on a system.
Statistics	To inculcate knowledge on demonstrate understanding of basic concepts of probability and statistics embedded in their course.
Analytical Geometry	To inculcate knowledge on solve problems in analytic geometry and able to find appropriate solutions for given problems.
Programming in C	On successful completion of this subject the students have the programming ability in C Language
Trigonometry, Vector calculus & Fourier Series	To inculcate knowledge on triangle properties, vector calculus and Fourier series basic concepts.
Statics	To inculcate knowledge on fixed particle properties and proofs.
Programming in C++	To inculcate knowledge on Object-oriented programming concepts using C++.
Accountancy	To inculcate knowledge on basic on journals, ledgers and balance sheet.
Operations Research	To inculcate knowledge on maximize the profit and minimize the cost in every place.
Differential Equation & Laplace Transforms	To inculcate knowledge on solving of first and second order algebraic equations and basic information on Laplace transforms.
Dynamics	To inculcate knowledge on moving particle properties and proofs.
RDBMS Oracle	To inculcate knowledge on RDBMS concepts and Programming with Oracle.
Real Analysis	To inculcate knowledge on real numbers and their properties & proofs.
Modern Algebra	To inculcate knowledge on algebraic equations and their relations with properties.
Visual Basic	To inculcate knowledge on developing GUI interfaces programming skills using Visual Basic
Discrete Mathematics	To inculcate knowledge on understand the notation of mathematical thinking, mathematical proofs, and algorithmic thinking and able to apply them in problem solving.

Complex Analysis	To inculcate knowledge on complex numbers and their properties & proofs.
Internet & Java	To inculcate knowledge on basics of internet, languages using in internet and how java used develop internet contents
Numerical Methods	To inculcate knowledge on algebraic equations solved by Numerical Methods.
Fuzzy Logic & Neural Networks	To inculcate knowledge on basic information's of Fuzzy logic and Neural Networks.

Department of Physics	
Programme Outcome	Physics deals with a wide variety of systems, certain theories are used by all physicists. Each of these theories were experimentally tested numerous times and found to be an adequate approximation of nature. Physics uses mathematics to organize and formulate experimental results. From those results, precise or estimated solutions, quantitative results from which new predictions can be made and experimentally confirmed or negated. The results from physics experiments are numerical measurements. Technologies based on mathematics, like computation have made computational physics an active area of research.
Programme Specific Outcome	The theory of classical mechanics(it is a branch of physics) accurately describes the motion of objects, provided they are much larger than atoms and moving at much less than the speed of light. These theories continue to be areas of active research today
Course Outcomes	
Courses	**Outcomes**
Mechanics, Properties of Matter and Sound	To gain the knowledge the students in order to
	Learn motion of bodies and sound waves
	Acquire basic knowledge of mechanics, properties of matter and gravitation
	Know how to apply the conservation of rotational motion
Heat and Thermo Dynamics	To aims is to provide the students
	To understand the principle of calorimetry
	Understand the basic principle and laws of Thermodynamics
	Understand the concepts of Entropy
Optics	To provide a good foundation in optics
	To provide a knowledge of the behaviour of light
	To inspire interest for the knowledge of concepts is physical and geometrical physics

Atomic Physics and Spectroscopy	To provide a detailed study of atom
	To learn the impact of magnetic fields in spectra
	To learn the behaviour of atom in various states
	To provide a knowledge of the application of observed theories
Mathematical Physics	To acquire knowledge and apply it to various physical problems
	To apply the develop the problem solving ability
	To motivate the students to apply matrices or solving problems in spectroscopy, nuclear physics
	To apply vectors to non linear dynamics
Electronics	To acquire knowledge and apply it to various electronically instruments
	To apply the development of the electronic instruments
	To motivate the students to apply the principles of electronics in their day-to-day life.
Electricity and Magnetism	To gain knowledge about the electrical energies in order to
	Learn motion of charges
	Acquire basic knowledge of magnetic properties
	Know about the alternating current and its circuits
	Get a depth knowledge about electricity and magnetism
Digital and Microprocessor	To give description for the students in order to
	To give basic idea to operate the device
	Learn the logic gates
	Acquire basic knowledge of binary addition
	Understand the action and application of counters
	Get a deep knowledge of various memories used in computer circuits
Quantum Mechanics and Relativity	To acquire knowledge and apply it to various physical problems
	To apply the develop problem solving ability
	To motivate the students to apply schrodinger equation or solving problems in Wave mechanics, Nuclear physics etc..,
Nuclear Physics	To acquire knowledge and apply it
	Study of the structure of nucleus
	Know the formation of nucleus and their binding energy
	To motivate the students and analyze the energy released by the nucleus during the fission and fusion process
Instrumentation	To study the instrument with its principle and observe the method their functioning.
	To provide good communication in measurements
	To provide a knowledge of the behaviour of instruments

Principles of Programming Concepts and C Programming	On successful completion of this subject the students have the programming ability in C Language
Object-oriented programming with C++	To inculcate knowledge on Object-oriented programming concepts using C++

Department of Chemistry	
Programme Outcome	Students will demonstrate an understanding of major concepts in all disciplines of chemistry.
	Students will employ critical thinking and the scientific method to design, carry out, record and analyze the results of chemical experiments and get an awareness of the impact of chemistry on the environment, society, and other cultures outside the scientific community.
Programme Specific Outcome	The ability to explain chemical nomenclature, structure, reactivity, and function in their specific field of chemistry. The design and execution of the experiment should demonstrate an understanding of good laboratory and the proper handling of chemical waste streams and also explain how the applications of Chemistry relates to the real world.
Course Outcomes	
Course	**Outcomes**
Chemistry Paper-I	To enable the students to learn the basic functions, structures and biological importance of lifeless chemical compounds
Chemistry Paper-II	To acquaint knowledge on Aromaticity, thermodynamics and coordination chemistry.
Core Practical-I	Students will gain an understanding of methods of analysis related to chemical analysis goals such as detection of elements.
Chemistry Paper-III	To enable the students to learn about the extraction principles and mechanism of some addition reaction.
Chemistry Paper-IV	Enable the student to get understand the laws of thermodynamics, adsorption and the Computer C Programming.
Skill Based Subjects-Textile Chemistry-I	After completing this course, students must have a basic knowledge of textile chemistry for an understanding of the chemical structure and properties of textile fibres, the chemical structure and properties of textile percipients and dyes, and textile process chemistry.
Core Practical-II	To predict the outcome and mechanism of some simple organic reactions, using a basic understanding of the relative reactivity of functional groups.

Core VIII - Chemistry Paper VI	To enable the students to know about the radio activity, acid and bases, the role of solvent in chemical reactions. To understand the principles of radio activity.
Core VIII - Chemistry Paper VII	To enable the students to learn about carbohydrates, amino acids and hetero cyclic compounds. To understand the importance of carbohydrate, amino acids in chemistry.
Core VIII - Chemistry Paper VIII	Students to learn about electro chemistry. To study EMF, pH and their applications.
Textile Chemistry Paper – IV Textile Chemistry – Practical	1. Estimation of pH- paper, digital pH meter, pH solution 2. Volumetric analysis of Sodium Nitrite 3. Estimation of available chlorine in bleaching powder 4. Analysis of alkalinity of water by volumetry
Core XI - Chemistry Paper IX	To enable the students to know about principles and applications of Analytical techniques, Evaluation of Analytical data, Statistical texts and data, Theory of Quantitative Analysis, Gravimetric methods.
Core XII - Chemistry Paper X	Students to acquaint knowledge about terpenoids, vitamins, alkaloids and hormones. To study the spectroscopy and natural products
Core XIII - Chemistry Paper XI	To enable the students to learn about the kinetics of reaction To study the magnetic properties of molecules, chemical kinetics and photo chemistry.
Core XV - Chemistry Practical III	Students will gain an understanding of methods of analysis related to chemical analysis such as detection of function groups.
Skill Based Subject - Textile Chemistry Paper – II	To enable the students to learn about technology of dyeing of natural fibres
Skill Based Subject - Textile Chemistry Paper – III	Students gain knowledge on water & effluent treatment processes and pollution control.
Skill Based Subject - Paper – IV Textile Chemistry – Practical	Students acquire knowledge on synthesis of dyes like Methyl Red, Methyl Orange, Pare nitro benzene, azo beta naphthol and Azo amino benzene.
Elective I - A Polymer Chemistry	To enable the students to learn about Classification of polymers- Methods of preparation of polymers- Different types of polymerization- Molecular weight of polymers.
Elective I - B Agro Industrial Chemistry	Students gain knowledge on Water source for agriculture- Water Treatment & Water Analysis

Department of Microbiology	
Programme Outcome	Students will be able to acquire, articulate, retain and apply specialized language and knowledge relevant to microbiology.
	Students will acquire and demonstrate competency in laboratory safety and in routine and specialized microbiological laboratory skills applicable to microbiological research or clinical methods, including accurately reporting observations and analysis.
	Students will communicate scientific concepts, experimental results and analytical arguments clearly and concisely, both verbally and in writing.
	D. Students will demonstrate engagement in the Microbiology discipline through involvement in research or internship activities, the Microbiology Student Association club (MSA) and outreach or mentoring activities specific to microbiology.
Programme Specific Outcome	A general course emphasizing distribution, morphology and physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification. This course also includes sophomore level material covering immunology, virology, epidemiology and DNA technology. Recommended for all allied health students. Three hours lecture and four hours lab per week.
B.Sc Microbiology - Course Outcomes	
Course	**Outcomes**
Fundamentals of Microbiology	On successful completion of this subject the students will gain basic knowledge about Microbiology starting from history, Basic laboratory techniques and basic knowledge about the micro organisms.
Microbial Diversity	This subject will provide a complete picture about the taxonomical classification of microbes.
Analytical Microbiology	On successful completion of this subject the students should have Knowledge on bioinstrumentation and their application and usages.
Cell Biology	To inculcate knowledge in cell structure and their function.
Bioinstrumentation – Principles and Applications	Enable the student to get sufficient knowledge in principles and applications of bio instruments.
General Biology	To inculcate knowledge in basic biology like cell divisions, functions and human physiology.
Microbial Physiology	To inculcate knowledge in cell divisions, functions and microbial physiology.

Clinical Laboratory Technology	To inculcate knowledge in basic techniques implemented to the analysis of human samples.
Diagnostic Microbiology I (Bacteriology and Serology)	To inculcate knowledge in diagnosing bacteriological disease using serum.
Microbial Genetics	On Successful Completion of this subject the students should have a sound knowledge about the genetics of microbes.
Principles of Immunology	To inculcate knowledge in human immune response towards micro organisms.
Food Microbiology	Enable the student to get sufficient knowledge in relationship between food and microbes, techniques used in food processing.
Medical Microbiology	To inculcate knowledge in relationship between human disease and micro organisms, pathogenicity, laboratory diagnosis and treatment methods.
Environmental and Agricultural Microbiology	To inculcate knowledge in role of micro organisms in eco system and impact created by microbes in agricultural development.
Virology	To inculcate knowledge about virus, their role in causing disease.
Extension Activities	To gain experience in different aspects used in industrial microbiology
Recombinant DNA Technology - I	On Successful Completion of this subject the students should have a sound knowledge about the Recombinant DNA Techniques used in microbiological research.
Entrepreneurial Microbiology	The programme provides a solid foundation for a career working with marketing, project management, business development or venture capital within the biotech, pharmaceutical, medical technology or related industries.
Dairy Microbiology	Focus on food processing, nutrition , food science& food processing technology. And also study methods of refrigeration, material handling and food preservation.
Practical	The aim of the this is to deliver practical knowledge and the implementation of the concepts studied.
M. Sc Microbiology - Course Outcomes	
COURSE	**Outcomes**
Fundamentals of Microbiology	On successful completion of this subject the students will gain basic knowledge about Microbiology starting from history, Basic laboratory techniques and basic knowledge about the micro organisms.

Microbial Physiology and Biochemistry	To inculcate knowledge in cell divisions, functions and microbial physiology and also biochemical properties of molecules
Applied Biotechniques	This subject deals with genome sequencing, microarray analysis, nucleic acid purification, real-time PCR, and cell analysis.
Environmental and Agricultural Microbiology	To inculcate knowledge in role of micro organisms in eco system and impact created by microbes in agricultural development.
Molecular Genetics	On Successful Completion of this subject the students should have a sound knowledge about the genetics of microbes
Microbial Food Technology	Enable the student to get sufficient knowledge in relationship between food and microbes, techniques used in food processing. Enable the student to get sufficient knowledge in relationship between food and microbes, techniques used in food processing.
Bioprocess Technology	On Successful Completion of this subject the students should have a sound knowledge about - combining living matter, in the form of organisms or enzymes, with nutrients under specific optimal conditions to make a desired product Bioprocess Technology is the sub-discipline within Biotechnology which teaches. methods of translating discoveries of life sciences into practical and industrial products, processes and techniques that can serve the needs of society.
Gene Manipulation and Bioinformatics	On Successful Completion of this subject the students should have a sound knowledge about the genetics of microbes. Core bioinformatics courses may include molecular biology, probability, statistics, computing and informatics, while advanced courses may cover population genetics, molecular genomic and epigenomic data analysis, biological mathematical modeling, biostatistics, sustainability mathematics and computational neuroscience.
Immunology and Immunotechnology	To inculcate knowledge in human immune response towards micro organisms.
Medical Microbiology	To inculcate knowledge in relationship between human disease and micro organisms, pathogenicity, laboratory diagnosis and treatment methods.
Biotechnology and IPR	Patent Protection, Revenue Generation, Investment Cycle, Reward. Protection with no restrictions
Bionanotechnology	Bionanotechnology teaches about to the intersection of nanotechnology and biology and also teaches about Concepts that are enhanced through nanobiology like nanodevices (such as biological machines), nanoparticles, and nanoscale .
Biostatistics and Research Methodology	Biostatistics is the application of statistics to a wide range of topics in biology To discuss what a “researchable problem” is and to describe how a research problem

Project and viva-voce	The main objective of Project and viva voice is to inculcate Research interest among students
Industrial training and viva- voce	To gain hands-on experience ' related to field so that students can relate and reinforce what has been taught at the class room

Department of Biotechnology	
Programme Outcome	Biotechnology teaches about biological sciences with engineering technologies that manipulate living organisms and biological systems to produce products that advance healthcare, medicine, agriculture, food, pharmaceuticals and environment control.
Programme Specific Outcome	A general course emphasizing distribution, morphology and physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification. This course also includes sophomore level material covering immunology, virology, epidemiology and DNA technology. Recommended for all allied health students. Three hours lecture and four hours lab per week.
B. Sc Biotechnology Course Outcomes	
Course	**Outcomes**
Cell biology	This course presents the types and structural details of the basic unit by which all the living things are made of (the cell). Goals: To make the student to understood the concept of cell and their activities. This course presents the types and structural details of the basic unit by which all the living things are made of (the cell). Goals: To make the student to understood the concept of cell and their activities.
Bioinstrumentation	Enable the student to get sufficient knowledge in principles and applications of bio instruments.
Microbiology	This course presents the study of Micro organisms. Goals: To make the student to understood Micro organisms and their participation in day to day activities. Objectives: On successful completion of the subject the student should have understood the Role of microorganisms in the diversity
Biochemistry	This course presents the chemical reactions or metabolic functions in the living system and their regulations. Goals: To make the student to understood the concept of biochemical regulations Objectives: On successful completion of the subject the student should have understood: Basic Structure and metabolism of Biomolecules. UNIT I Structure of atoms and biomolecules: Atomic theory, Valency, Atomic weight

Genetics	This course presents the way characters get transferred through generations and methods to analyze and modify them Goals: To make the student to understood the concept of genes and their behaviour Objectives: On successful completion of the subject the student should have understood: Basic genetics and their role.
Molecular Genetics	This course presents the genetics at molecular level Goals: On successful completion of the subject the student should have understood the molecular aspects of genetics
Human Physiology	This course presents the various physiological activities in human being Goals: To make the student to understood the human physiology Objectives: After the completion of the course the student should have understood the various systems in human body and their activities
Plant & Animal Biotechnology	This course presents the application of Plants in Biotechnology Goals: To make the student to understood usage of Plant and Animal products and exploitation of them in Biotechnology. Objectives: On successful completion of the subject, the student should have understood: Crop development, Callus culture, Biotechnological applications of plants, Animal tissue culture, Animal products, production & improvement of them
Immunology	This course presents the basic defense mechanism of animals Goals: To make the student to understood the concept immunology Objectives: On successful completion of the subject the student should have understood: Immunity, Antigen, Antibody, Cells of immune system and their function and regulations
Environmental Biotechnology	his course presents the Study and the Management of the Environment Goals: To make the student to understood Ecology and Conservation of the Environment Objectives: On successful completion of the subject the student should have understood Ecosystem, energy flow and Uses and values of Biodiversity.
Recombinant DNA Technology	his course presents the mechanism of gene manipulation Goals: To make the student to understood the concept of gene manipulation and gene transfer technologies Objectives: On successful completion of the subject, the student should have understood: Manipulation of genes, Transfer techniques, Expression systems and methods of selection
Diagnostic Tools	his course presents the Diagnostic methods of diseases Goals: To make the student to understood the concept of Diagnostic methods Objectives: On successful completion of the subject the student should have understood: Examination of Blood, Urine and CSF.
Microbial Biotechnology	This course presents the utility of Microbes Goals: To make the student to understood the applications of Microbes Objectives: On successful completion of the subject the student should have understood: Fermentation, Microbial products, Vaccine and antibiotics.

Pharmacology	This course presents Medicines for different disease Goals: To make the student to understood the concept therapy. Objectives: On successful completion of the subject the student should have understood: Drug administration, drug metabolism and allergy.
Agricultural Biotechnology	This course presents biotechnology in agriculture, growth and historical perspective of agricultural biotechnology. Agriculture biotechnology – Risks and applications. Transgenic plants resistance to biotic and abiotic stress.
Biotechnological approach for waste water treatment	This course presents about waste water environment. Domestic and industrial waste water flow rate and characteristics. Design of waste water network, waste water treatment process. Waste water pretreatment – screenings, grit channels, filtration and equalization, primary treatment-chemically enhanced primary sedimentation, sludge quantity from primary settlings.
Bioethics & Biosafety	This course has been designed to provide the students insights into the valuable areas of biotechnology, which plays a crucial role in determining its future use and applications. Objective: Students get an idea about the advantages and disadvantages of biotechnological applications, ethical implications and intellectual property rights. Goal: To study the diversity of plants and animal life in a particular habitat, ethical issues and potential of biotechnology for the benefit of man kind. Unit I Introduction to ethics/bioethics – framework for ethical decision making; biotechnology
M. Sc Biotechnology Course Outcomes	
Course	**Outcomes**
Molecular Biology and Genetics	This course Drosophila Presents about Section culture and maintenance. 14. Identification of Mutants - Physical and Chemical Methods. 15. Experiments to determine Mendel's law. 16. Monohybrid and dihybrid cross using plants. 17. Sex chromatin (buccal smear). Skill Based Subje
Biochemistry	This course presents the chemical reactions or metabolic functions in the living system and their regulations. Goals: To make the student to understood the concept of biochemical regulations Objectives: On successful completion of the subject the student should have understood: Basic Structure and metabolism of Biomolecules
Applied Microbiology	This course presents the study of Micro organisms. Goals: To make the student to understood Micro organisms and their participation in day to day activities. Objectives: On successful completion of the subject the student should have understood the Role of microorganisms in the diversity

Bioinstrumentation & Biostatistics	This course presents study of Instruments of Biological Importance. Goals: To make the student to understood the tools used in the laboratory. Objectives: On successful completion of the subject, the student should have understood the analytical techniques in the field of Biotechnology
Immunology & Immunotechnology	This course presents the basic defense mechanism of animals Goals: To make the student to understood the concept immunology Objectives: On successful completion of the subject the student should have understood: Immunity, Antigen, Antibody, Cells of immune system and their function and regulations
Genetic Engineering	This course presents the genetics at molecular level Goals: On successful completion of the subject the student should have understood the molecular aspects of genetics
Plant Biotechnology	This course presents the application of Plants in Biotechnology Goals: To make the student to understood usage of Plant products and exploitation of them in Biotechnology. Objectives: On successful completion of the subject, the student should have understood: Crop development, Callus culture, Biotechnological applications of plants,
Animal Biotechnology	This course presents the application of animal Biotechnology Goals: To make the student to understood usage of Animal products and exploitation of them in Biotechnology. Objectives: On successful completion of the subject, culture, , Animal tissue culture, Animal products, production & improvement of them.
Bioprocess Technology	This paper presents the basics of fermentation technology, media components as applied to lab scale, pilot scale and industrial scale upstream and down stream processing. Goals: This paper is introduced to acquire requisite skills for the design and development of bioreactors, production optimization, and preparation of sterile base materials for downstream processing. Objectives: On successful completion of the course the students should have understood the basics of fermentation technology and learnt the concept of screening, optimization and maintenance of cultures.
Pharmaceutical Biotechnology	Subject description This paper presents the basics of: of pharmaceutical industry, Drugs discovery , Development phases and Drug Manufacturing Process. Drugs and Cosmetics ACT and regulatory aspects. Definition: Generics and its advantages. Biogenerics and Biosimilars Protein-based biopharmaceuticals.
Genomics & Proteomics	This paper presents the basics of: mapping, Genome sequencing, Genome sequence assembly: Base calling and assembly programs, Genome annotation: Gene ontology, Automated genome annotation, Annotation of hypothetical proteins and Genome economy. Comparative genomics: Whole genome alignment, Finding a minimal genome, Lateral gene transfer, Within-genome approach and Gene order and Gene.

Bio-entrepreneurship	The objectives of this course are to teach students about concepts of entrepreneurship including identifying a winning business opportunity, gathering funding and launching a business, growing and nurturing the organization and harvesting the rewards. Student Learning Outcomes: Students should be able to gain entrepreneurial skills, understand the various operations involved in venture creation, identify scope for entrepreneurship in biosciences and utilize the schemes promoted through knowledge centres and various agencies.
Occupational health and industrial safety	Subject Description : This course deals with the study of industrial safety, various safety measures and its applications. It also gives emphasis on prevention and control methods. Goals Students get on idea about the advantages and disadvantages of occupational & Industrial safety applications, principles & functions in safety management. Objectives : To impart knowledge on various occupational health hazards and also safety measures to be taken in the work place.
Bioethics, biosafety and IPR	This course presents the principles and applications of Biotechnology explaining the biomolecules and applications of biophysical methods. Goals : To enable the students to learn the immuno techniques and radio labeling techniques. Objectives: On successful completion of the course the students will be aware of 1. Microscopic techniques 2. Electro physiological methods. 3. Biomolecules structure determination using x-ray diffraction
Biotechniques	This course presents the principles and applications of Biotechnology explaining the biomolecules and applications of biophysical methods. Goals : To enable the students to learn the immuno techniques and radio labeling techniques
Conservation biology	This course presents the principles Components of Biodiversity (Ecosystem, Genetic and Species diversity) - Assigning values to biodiversity - Species concepts - Animal diversity: (Distribution, inventory, species richness) - Biodiversity Hotspots (Western Ghats, Indo-Burma region).

Department of MBA	
Programme Outcome	To enable students to acquire the knowledge, skills and competence required for successful practice of management and leadership and to help them develop a holistic personality to lead fulfilling personal and professional lives.
	To help students to apply key systematic and analytical decision-making skills to solve complex organizational problems.
	To facilitate students to use managerial skills to foster innovation and lead change in a dynamic business environment.

	To demonstrate knowledge, skills and techniques to lead entrepreneurial and strategic ventures.
Programme Specific Outcome	MBA MARKETING
	To determine the core concepts and the role of marketing in business and society.
	To gain the ability of developing marketing strategies based on product, price, place and promotion objectives.
	To identify the unique marketing mixes and selling propositions for specific product offerings.
	To identify and incorporate psychological and sociological factors that influence the consumers and formulate marketing strategies accordingly.
	MBA FINANCE
	To have an awareness on the general financial developments in India.
	Understand the various alternatives available for investment.
	Gain knowledge of the various strategies followed by the investment practitioners.
	MBA HUMAN RESOURCE
	In this course, students will learn the basic concepts and frameworks of Human resource management , and understand the role that HRM has to play in effective business administration
	After successfully completing this program, students should be able to effectively manage and plan key human resource functions within organizations
	It helps the students to examine current issues, trends, practices, and processes in HRM and make them to contribute to employee performance management and organizational effectiveness
	They learn to solve problems in human resource challenges.
	To enable the students to develop employability skills for the workplace with effective written and oral communication skills.
	MBA LOGISTICS
	To explore the fundamental knowledge in International operation.
	To gain an in-depth knowledge about various customs procedures pertaining to imports and exports.
	To strengthen the learners knowledge in unitization concept and INCOTERMs used in international business.
	To explore the fundamental knowledge in logistics operation.
	Learners will know the impact of logistics in nation’s economy
	To explore the learners with more employment opportunities

Course Outcomes	
Course	**Outcomes**
Marketing-Brand Management	Understand key principles of branding.
	Describe the process and methods of branding management, including how to establish brand identity and build brand equity.
	Formulate effective branding strategies for both consumer and business product/Services.
	To provide "real world" experience and understanding of product and branding strategies.
	Develop a consumer-centric approach to building, measuring and evaluating strategies that build brand equity for new and existing brands.
	Apply branding principles and marketing communication concepts and frameworks to achieve brand management goals and improve marketing performance.
Marketing-Retail Management	To familiarize students with the decisions involved in running a retail firm and the concepts and principles for making those decisions.
	Recognize and understand the operation-oriented policies, methods, and procedures used by successful retailers in today's global economy.
	Know the responsibilities of retail personnel in the numerous career positions available in the retail field.
	To identify the key stakeholders and the roles / responsibilities of the retail towards these stakeholders.
Finance-Equity	To understand investment settings and valuation of securities.
Research and Portfolio Management	To study the fundamental and technical analysis that includes concepts and applications.
	To understand portfolio construction, diagnostic evaluation and revisions.
Finance-Financial and Management Accounting	To enable the students to learn the basic functions of accounting.
	To understand the concepts and application of accounting in management.
Human Resource-Managing Interpersonal Effectiveness	To make a student to learn self and personality development and how to be integrated with exercises and experiential learning.
	Students come to know how interpersonal skills should be practiced and develop within an organization/ personal life.
	To make the students to understand sensitive situations such as delivering a difficult message, handling a complaint or building a relationship with a new colleague or client.
	Interpersonal Effectiveness course offers the opportunity to refresh and develop the core skills in a lively, open and highly interactive environment, enabling the students to become more confident and effective interpersonally.
Human Resource-Performance	To familiarize the students with concepts and challenges of managing and developing human performance in organizations.

Management	Students will learn the techniques and processes for managing employee and team performance within the organization.
	Through the subjects they can understand their role and contribution to effectively manage performance and conduct at work
	By the end of the subject, students will understand on how performance management systems can be effectively utilized to raise the performance of individuals and teams to attain the desired goals.
Logistics-Logistics Management	The aim of this course is to introduce to Logistics role in Economy / organizations in terms of effective logistics service to the customers.
	To offer wide knowledge on the fundamentals of logistics business
	The student is expected to understand the overall logistics services and during this process, they learn to plan, implement and control to ensure cost effectiveness.
Logistics-Export Import Trade and Documentation Procedures	The aim of this course is to introduce the concepts of International Business organizations in terms of effective logistics service to the customers through Export and Import.
	This course is intended to offer a good understanding of nature of worldwide line shipping trade including its structure & organization specially related to the container trade.
	To understand the methods of operations, technology and terminology used in EXIM business.

Department of Social Work	
Programme Outcome	Students will establish themselves as effective professionals by solving real problems through the use of methods of social work, knowledge and with attention to team work, effective communication, critical thinking and problem solving skills. Students will develop professional skills that prepare them for immediate employment and for life-long learning in advanced areas of social work and related fields.
Programme Specific Outcome	The ability to understand, analyze and develop the social policies for the social development
Course Outcomes	
Courses	**Outcomes**
Introduction To Social Work	To understand the concept of social work, the importance of field work in social work profession & problems faced by social work profession in India
Sociology for Social Work Practice	On successful completion of this subject the students should have knowledge on concept of society, Indian family system, Indian marriage system & India as a welfare state
Psychology for Social Work Practice	To inculcate knowledge on the various stages of human growth & development.

Social Work with Individuals	Enable the student to get sufficient knowledge on the case work process, approaches in case work & the application of case work in different settings
Social Work Perspectives for Persons with Disabilities	To inculcate knowledge on different types of disability, governmental schemes, and associations for differently abled persons.
Concurrent Field Work Training- I	To understand the functioning of NGO's, Psychiatric hospitals, industries and the governmental agencies
Social Work with Groups	To enable the students on the process and current trends of group work, expand their ability to build a team to achieve the goal in the society & apply the knowledge about social group work in various settings
Social Work with Community & Social Action	To inculcate knowledge on the concept of community organization and community development, understand the role of NGO and SHG in community settings & the major reforms in social action
Social Work Research & Statistics	To inculcate knowledge on concepts and basic elements of social work research, to understand the research designs in social work research & the method of analysis
Labour Welfare (Special Paper-1)	Enriching the knowledge of Labour and their welfare schemes , role of trade union in labour welfare and enlarge their capability to deal with the various welfare measures provided by the Government & objectives and schemes of workers education, Awareness about safety in industries, occupational diseases, pollution control and environment protection
Community Health & Medical Social Work (Special Paper-1)	Role of social worker in hospital setting, analyzing the psychosocial problems of patients with communicable diseases & the learning methods and techniques of health education
Rural Community Development (Special Paper-1)	To understand the characteristics of rural community and the development program offered by the government
Human Rights & Social Legislation (Elective-II)	To understand the concept of human right, legislations in human rights for target population & knowledge about social legislation
Concurrent Field Work Training- II (Including one week rural camp)	To familiarize with Vision, Mission, System, Processes and Objectives of the Welfare Organizations & organize one week rural/ tribal camp
Social Welfare administration & Social Legislations	To understand the concept of social welfare administration, the importance of social legislation & the methods and models of social welfare administration.
Labour Legislation (Special Paper-II)	Enriching knowledge about laws relating to working condition and safety, facilitating laws related to wages & understanding laws related to social security

Social Work Practice in Hospital Setting (Special Paper-II)	Understanding hospitals and departments, enriching the knowledge in administration of hospitals and budgeting of hospitals
Community Development (Special Paper-II)	To understand the different types of community and the developmental programs
Industrial Relations (Special Paper-III)	To familiarize students with concepts of industrial relations, to facilitate current industrial relation scenario in India understanding industrial conflict and industrial democracy
Foundation of Psychiatry-I(Special Paper-III)	Understanding the different functions in the human body, the different types of mental illness & enriching the knowledge in psychiatric illness
Welfare of Weaker Section (Special Paper-III)	To assess the weaker section in the community and the welfare measures provided to the weaker section
Social Entrepreneurship & Corporate Social Responsibility	To understand the concept of Entrepreneurship, corporate social responsibility & the ISO standard and importance.
Concurrent Field Work Training- III	The students are placed for field work training in an Agency with respect to the Field of Specialization and they practice the different tools, techniques and methods of social work like social case work, social group work and community organization.
Human Resource Management (Special Paper-IV)	To understand the functions of HRM and HRD and enables the students to understand the recruitment process , enriching the knowledge of students in training and development & theoretical idea on performance management system and understand the process of job analysis
Foundation of Psychiatry-II (Special Paper-IV)	Enriches the knowledge of students in psychiatric illness, enables the students in analyzing the psychiatric patients & understanding the cultural bound syndromes
Social Development (Special Paper-IV)	To analyze the social developmental programs.
Organizational Behaviour (Special Paper-V)	To understand the concept of organizational behavior, foundation of organizational behavior and Various challenges in organizational behavior and Organizational Development & importance of management information system and communication process
Psychiatric Social Work Practice (Special Paper-V)	To understand the magnitude of mental health problems across the globe and India, psychological method/treatments in mental illness & policies and legislations related to mental health
Management of Non Profit Organization (Special Paper-V)	To gain the knowledge about the functioning of the non governmental organizations.

Counselling & Guidance (Elective –IV)	Understanding the qualities of a counseling relationship , characteristics of a counselor & steps of counseling
Concurrent Field Work-IV	The students are placed for field work training in an Agency with respect to the Field of Specialization and they practice the different tools, techniques and methods of social work like social case work, social group work and community organization.
Project Work	Every student shall be required to complete a Research Project on a topic related to his/her field of Specialization. Candidates shall select the topic of the research in consultation with the Faculty Supervisor. Each Candidate shall submit three copy of his/her Project Report in the prescribed format during the end of Fourth Semester.
Block Placement Training	The students shall undergo a minimum of one month on the Job Training in an Agency with respect to the Field of Specialization of the Students.

Department: E.COMMERCE	
Programme Outcome	This program could provide well trained professionals for the technology and allied industries to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects of information technology viz. software updation,programme developers, software testing,BPO,web designer and ecommerce . The program will help the graduates to take up responsibilities in production, testing, designing and marketing in the information technologies and contribute for the growth of industry.
Programme Specific Outcome	The ability to understand, analyze and develop software programs in the areas related to system software, multimedia, online marketing,web design, application program, database , graphics and networking for efficient design of technology of varying complexity.
Course Outcomes	
COURSE	**Outcomes**
Computing Fundamentals and C Programming	On successful completion of this subject the students have the programming ability in C Language
DATABASE MANAGEMENT SYSTEM	To acquaint practical knowledge about creating and manipulating data in
C++ PROGRAMMING	To inculcate knowledge on Object-oriented programming concepts using C++.
NETWORKING MANAGEMENT	The paper aims to combine the fundamental concepts of data communications
JAVA PROGRAMMING	To inculcate knowledge on Java Programming concepts
RDBMS & ORACLE	To inculcate knowledge on RDBMS concepts and Programming with Oracle.

SOFTWARE DEVELOPMENT IN VB (Visual Basic)	To enable students to create a software package using VB
COMPUER NETWORKS	To inculcate knowledge on Networking concepts and technologies like wireless, broadband and Bluetooth.
E-BUSINESS	The paper imparts understanding of the concepts and various application issues of e-business like Internet infrastructure, security over internet, payment systems and various online strategies for e-business.
PROJECT WORKPROJECT WORK	The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied.

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Program Outcomes of all the programs are identified at the National Level by the concerned accrediting agency. Before this process, the educational institution inculcates certain qualities among the stakeholders.

Course Outcomes:

The course outcomes help the stakeholders to manage the resources effectively to the maximum extent. This creates path to improve the processes continually.

Program Outcomes:

For every degree program, expectations are listed out by the institution under the Program Outcomes. This enables the stakeholders to identify and analyze complex problems. They also learn to design solutions for problems that meet the specified needs with appropriate consideration for the cultural, societal and environmental well being. They learn to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions. This is followed by modern tool usage, which they select and apply with an understanding of the limitations. They apply reasoning and understand the impact of the solutions in societal and environmental context. They learn to apply ethical principles and become committed to professional ethics and their responsibilities. They realize that individual and team work function effectively in multidisciplinary settings. They learn to communicate effectively with society and they are able to comprehend and write effective reports and design documentation. They also make effective presentations and give and receive clear instructions. They understand the importance of critical thinking, social interaction, effective citizenship, ethics and environment and sustainability. Ultimately, they acquire the ability to engage in independent and life-long learning.

Program Specific Outcomes:

The stakeholders understand the nature and basic concepts of ecology. They analyze the relationship between human beings and nature.

Based on these outcomes, the stakeholders learn goal-setting, problem solving techniques and decision making. The institution evaluates the stakeholders as Class Toppers, University Rank Holders and Best Outgoing Students. They are recognized and awarded during the Annual Day function by giving them Certificates and Mementos. Gold Medals are awarded to the University

First Rank holders and Silver Medals to the remaining rank holders.

The Best Outgoing Students are evaluated on the basis of five criteria: Academic Performance, Attendance, Behaviour inside the class room, Behaviour on the campus and Extracurricular activities.

The program outcomes and program specific outcomes are measured by conducting class test after the completion of each unit, and by conducting 3 CIA exams in a semester.. The attainment of students is also measured by keeping surprise test and asking spontaneous questions during the lecture.