HINDUSTAN COLLEGE OF ARTS & SCIENCE

PROGRAMME OUTCOME, PROGRAMME SPECIFIC OUTCOME & COURSE OUTCOME

PROGRAMME NAME: B.Sc BIOTECHNOLOGY

PROGRAMME OUTCOME

- PO 1 Grasp of basic and advanced knowledge on various domains of biotechnology.
- PO 2 Ability to integrate technologies through an inter-disciplinary learning habit.
- PO 3 Develop an independent thinking ability.
- PO 4 Ability to communicate effectively.
- PO 5 Equip the students with the laboratory skills in biotechnology.

PROGRAMME SPECIFIC OUTCOME:

- PSO 1 To impart an ability to apply biotechnology skills (including molecular & micro biology, immunology & genetic engineering, bioprocess & fermentation, enzyme & food technology and bioinformatics) and its applications in core and allied fields.
- PSO 2 To provide students with the concepts and research approaches for their higher career in the field of biotechnology and develop their scientific interest.
- PSO 3 To impart in-depth practical oriented knowledge to students in various thrust areas of biotechnology, so as to meet the demands of industry and academia.

B.Sc., Biotechnology

S.NO	COURSE NAME	COURSE OUTCOME
SEMES	STER I	
	CELL&MOLECULAR BIOLOGY	CO1.The structural design of Prokaryotic and
		Eukaryotic cells.
1.		CO2. The synthesis, structure, importance and the
		inter-relationships between the DNA, RNA and
		Proteins.
		CO3.The major molecular processes which
		governs all the cellular activities and their
		regulations.

		CO1.Ability to explain core theoretical and
		practical principles of relevance to history,
		structure, function and diversity of
		microorganisms.
		CO2. Sound understanding of the mechanisms
		and processes used by microorganisms for their
2.	MICROBIOLOGY	replication, survival, spread, and interaction with
		their environment.
		CO3. Ability to utilize microbiological concepts
		to summarize, analyze, and synthesize scientific
		results managing with microbes and related issues
		in industry and academia.
SEME	STER II	
		CO1. Understanding of how genes, their
		distribution and function in one to next progeny
		and population on a wider scale exert their effects
	GENETICS	translating into the sustenance of equalities and
1		diversities among life forms.
		CO2. Understanding the role of genetic
		technologies in industries related to
		biotechnology, pharmaceuticals, energy, and
		other fields.
		CO1. Useful knowledge of the chemistry of
		formation of various bonds and structures.
		CO2. Study about the 3D structure of a molecule
2	CHEMISTRY	and importance of studying the exact position of a
		particular group in a molecule.
		CO3. To understand isomerism and relationship
		between the various isomeric structures.
SEME	STER III	
1.	GENETIC ENGINEERING	CO1.The students gain knowledge about genes

		and its manipulation and the techniques involved
		inthe cloning and its applications in genetic
		engineering
		CO2.To illustrate creativity use of modern tools&
		techniques for manipulation and analysis of
		genomic sequences
		CO3.To expose students application of rDNA
		technology in biotechnological research.
		CO1.Understanding of the function of biological
		molecules through the study of their molecular
		structure, and interaction with other biomolecules
		CO2. Understanding of the chemical and
	BIOCHEMISTRY	regulatory interrelationship between major
2.		cellular synthetic and catabolic pathways by
		participating in class discussions, and completing
		quizzes and exams.
		CO3.To create awareness of the impact of
		biochemistry on the environment, society, and
		other cultures outside the scientific community.
SEME	STER IV	
		CO1. Explain the basics of the physiological and
		molecular processes that occur during plant
		growth and development and during
		environmental adaptations
		CO2. Understand how biotechnology has been
1.	PLANT BIOTECHNOLOGY	used to develop knowledge of complex processes
		that occur in the plant
		CO3. Use basic biotechnological techniques to
		explore molecular biology of plants
		CO4. understand the processes involved in the
		planning, conduct and execution of plant

		Biotechnology experiments
		CO1. An understanding of physics in biosensor,
		electrode.
		CO2. An understanding of biomedical
		instrumentation principles in aspects of device
		design and applications.
		CO3. An understanding of the techniques, skills
2.	BIOINSTRUMENTATION AND	and modern engineering tools necessary for
	BIOSTATISTICS	engineering practice.
		CO4.Analyse data, interpret, and present
		information
		CO5. Calculate; analyse and compare observed
		data; perform simple sums in proportions and
		algebraic functions.
		CO1.Understand core concepts and methods from
		ecological and physical sciences and their
		application in environmental problem-solving.
		CO2.Appreciate key concepts from economic,
		political, and social analysis as they pertain to the
3.	ENVIRONMENTAL STUDIES	design and evaluation of environmental policies
		and institutions.
		CO3.Appreciate the ethical, cross-cultural, and
		historical context of environmental issues and the
		links between human and natural systems.
SEME	STER V	
		CO1.Exhibit knowledge about gene transfer
1.		technology for animal and animal cell lines and
	ANIMAL & MEDICAL BIOTECHNOLOGY	can able to describe problems both technical and
		ethical in animal cloning.
		CO2.To provides students with a scientific and
		technical understanding of animal biotechnology.

		CO3.To introduces students to the commercial and ethical aspects of the biotechnology industry, and to challenge students with some of the moral and ethical issues that face biotechnologists, legislators and the general public. CO4.To present concepts of the potential influence of animal biotechnology on urban and rural communities and to encourage students to derive informed opinions on the potential benefit or danger of biotechnology and its impact on animal agriculture CO1.To get introduced to the basic concepts of
2.	BIOINFORMATICS	Bioinformatics and its significance in biological data analysis. CO2.Describe the history, scope and importance of Bioinformatics and role of internet in Bioinformatics. CO3.Explain about the methods to characterize and manage the different types of biological data. CO4.Classify different types of Biological Databases. CO5.Introduction to the basics of sequence alignment and analysis. CO6.Overview about biological macromolecular structures and structure prediction methods.
3.	IMMUNOLOGY	CO1.Exhibit knowledge about immunological response, mechanism of this response, its regulation and the genetic basis. Provide knowledge about protection against disease and auto immune disorders to choices in their daily

		life
		CO2.Describe the function of phagocytes in the
		non-specific immune system
		CO3. Describe professional antigen presenting
		cells and define their purpose
		CO4.Define the major histocompatibility
		complexes (MHCs) type 1 and 2 and explain their
		functions
		CO1.Aspects of traditional and modern
		biotechnology viz. Fermentation technology
		CO2.Recombinant DNA technology.
		CO3.Relating the biotechnological aspects to
		health, and disease.
		CO4.Production of biopharmaceuticals and
4.	PHARMACEUTICAL BIOTECHNOLOGY	immunological products.
		CO5.Recent concepts viz; Nanobiotechnology,
		RNA interference therapeutics and gene therapies.
		Cell biology and cell culture.
		CO6.Practical exercises are designed to make the
		student relate the theoretical aspects to
		practical application and acquire laboratory skills.
		CO1.To foundational knowledge of the
		Nanoscience and related fields.
_	NAMO DIOTECHNOLOGY	CO2.To make the students acquire an
5.	NANO BIOTECHNOLOGY	understanding the Nanoscience and Applications
		CO3. To help them understand in broad outline of
		Nanoscience and Nanotechnology.
SEME	STER VI	
1.	INDUSTRIAL	CO1.understand the need for sustainable
1.	BIOTECHNOLOGY	innovation and how biotechnology and biobased

		production can contribute to this.
		CO2. Have mastered the basics of industrial
		biotechnology
		CO1.Provide knowledge about microbial
		diversity in environmental systems, processes and
		biotechnology, importance of molecular
		approaches in environmental microbiology and
		biotechnology and describe biotechnological
		solution to environmental issues.
	ENVIRONMENTAL	CO2.Know the basic physiology of a
2.	BIOTECHNOLOGY	microorganism and how their structure dictates
		their function in the environment
		CO3.Understand the bases for microbial
		metabolism of environmental contaminants
		CO4.Know various techniques to modify and
		augment microorganisms in the laboratory and
		environment
	BIO-ENTREPRENEURSHIP	CO1.Bio Entrepreneurship and Innovation minors
		will be able to sell themselves and their ideas.
		CO2. Students master oral and visual presentation
3.		skills and establish a foundation of confidence in
		the skills necessary to cause others to act.
		CO3.Bio Entrepreneurship and Innovation minors
		will be able to find problems worth solving.
		CO1. Introducing the existence of marine
		ecosystem
		CO2. Updating the knowledge of marine
4.	MARINE BIOTECHNOLOGY	organisms
		CO3. Studying the existing ecosystem in marine
		diversity and its characteristic features
		CO4. Discussing the importance of marine

		viruses, molecular approaches of marineproducts
		and commercial importance of marine
		microorganisms.
5.	BASICS IN RESEARCH METHODOLOGY	microorganisms. CO1.Apply a range of quantitative and / or qualitative research techniques to business and management problems / issues CO2.Understand and apply research approaches, techniques and strategies in the CO3.Demonstrate knowledge and understanding of data analysis and interpretation in relation to the research process CO4.Conceptualise the research process and
		develop necessary critical thinking skills in order to evaluate different research approaches utilized in the service industries

Program Name: Bachelor of Computer Application

PROGRAM OUTCOME:

PO1. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO2. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO3. Conduct investigations of complex problems: 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.

PO4. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools inc

PO5. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems

PROGRAM SPECIFIC OUTCOME:

SPO1: The three-year course of BCA course helps the students to develop programming skills, networking skills, learn applications, packages, programming languages and modern techniques of IT

SPO2: The program helps the students to develop the analytical skill, communication skill, decision making and problem-solving skill in the field of computational studies.

SPO3: The program helps the students to get employment in IT companies of Nation /International standards and to become a socially responsible person.

SPO4: Pursue higher studies in the area of Computer Science/Applications/Information Technology.

S. No.	Course Name	Course Outcome	
SEMES	SEMESTER – I		
1.	PROBLEM SOLVING USING PYTHON	CO1.To Understand the principles of Python and acquire skills in programming in python CO2.To develop the emerging applications of relevant field using Python CO3.Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements. CO4.Able to develop simple turtle graphics programs in Python CO5.Apply the best features available in Python to solve the situational problems.	
2.	PYTHON PROGRAMMING - LAB	CO1.Understand the numeric or real-life application problems and solve them. CO2.Apply a solution clearly and accurately in a	

		program using Python.
		CO3.Apply the best features available in Python
		to solve the situational problems.
		CO1. Basic concept algebra using summation series
	ALLIED	and numerical methods.
3.	MATHEMATICS - I	CO2. Learn the matrices and types of matrices.
		CO3. Able to understand the primary concepts of real
		and complex roots.
SEMES	TER – II	
		CO1.To inculcate knowledge on Object-oriented
		programming concepts using++.
		CO2. To gain Knowledge on programming with
		C++.
		CO3.To write programs using OOP concepts like
	OBJECT ORIENTED PROGRAMMING CONCEPTS USINGC++	Abstraction, Encapsulation, Inheritance and
1.		Polymorphism
		CO4. To understand the structure and model of
		the C++ programming language.
		CO5.To solve problems in C++ demonstrating
		Object Oriented Concepts
		CO1. Creating simple programs using classes and
		objects in C++.
		CO2. Implement Object Oriented Programming
		Concepts in C++.
2.	C++ PROGRAMMING LAB	CO3. Develop applications using stream I/O and
	CTT I ROOKAMMING LAD	file I/O.
		CO4. Implement simple graphical user interfaces.
		CO5. Implement Object Oriented Programs using
		templates and exceptional handling
3.	ALLIED	CO1. To introduce the concepts of improper integrals,
	ALLIED	

	MATHEMATICS - II	Gamma, Beta and Error functions which are needed in
		engineering applications.
		CO2: This course equips students to have basic
		knowledge and understanding in one field of
		materials, integral and differential calculus
		CO3: To familiarize the student with functions of
		several variables.
		CO4: To acquaint the student with mathematical tools
		needed in evaluating multiple integrals and their
		usage.
SEMES	TER - III	•
		CO1.Implement abstract data types for linear data
		structures.
		CO2.Apply the different linear and non-linear
		data structures to problem solutions.
	DATA STRUCTURES	CO3.Critically analyze the various sorting
		algorithms.
1.		CO4.Suggest appropriate linear and non-linear
		data structure operations for solving a given
		problem.
		CO5.Analyze various sorting methods and
		searching algorithms
		CO1.Knowledge of the structure and model of the
		Java programming language
		CO2.Understand the basic principles of creating
		Java applications with GUI.
2.	JAVA PROGRAMMING	CO3.Demonstrate use of string and String
2.		Buffers,
		CO4. Develop multithreaded programs in Java.
		CO5. Knowledge in applet programming

		CO1 Describe d
		CO1. Describe the major components of a
		computer system and state their function and
		purpose
		CO2.Describe the microstructure of processor
	COMPUTER	CO3.Demonstrate the ability to program a
3.	ORGANIZATION	microprocessor in assembly language.
		CO4.Classify and describe the operation DMA
		and peripheral Interfaces.
		CO5.understand the principles of Interfacing I/O
		devices and Direct Memory accesses
		CO1.Write functions to implement linear and
		non-linear data structure operations.
		CO2.Suggest appropriate linear and non-linear
4.	DATA STRUCTURES USING	data structure operations for solving a given
7.	JAVA - LAB	problem.
		CO3.Understand the concept of BFS and DFS
		Cost enderstand the concept of B15 and B15
		CO1. To enable the students to learn principles
		and concepts of Accountancy
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		CO2. Students are enabled with the Knowledge in
		the practical applications of accounting
		CO3. The student will get thorough knowledge on
5.	FINANCIAL ACCOUNTING	the accounting practice prevailing in partnership
	FINANCIAL ACCOUNTING	firms and other allied aspects
		CO4. To find out the technical expertise in
		maintaining the books of accounts
		CO5. To encourage the students about
		maintaining the books of accounts for further
		reference.
SEMESTER – IV		

		CO1.To recognize the benefits and features of
		Open-Source Technology and to interpret,
		contrast and compare open-source products
		among themselves
		CO2.Understand the installation of various
	OPEN-SOURCE	packages in open-source operating systems
1.	TECHNOLOGIES	CO3. Students must be able to use appropriate
		open-source tools based on the nature of the
		problem
		CO4. Students should be able to code and
		compile different open-source software
		CO5. Understand the open-source ethics
		_
		CO1. To understand the concept of Computer
	COMPUTER NETWORK	network
		CO2. Analyse different network models
		CO3. Analyse and compare a number of data link,
		network and transport layer
2		CO4. Analyzing key networking protocols and
2.		their hierarchical relationship in the conceptual
		model like TCP/IP and OSI
		CO5. Knowledge about networking and inter
		Networking devices
		CO1.Obtain a general understanding of basic
		business management concepts.
	E-COMMERCE TECHNOLOGIES	CO2.Have complete knowledge about basic
3.		technical concepts relating to E-Commerce.
		CO3.Obtain thorough understanding about the
		security issues, threats and challenges of-
		Commerce.
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		CO4. To explore the major issues associated with e-commerce-security, privacy, intellectual property rights, authentication, encryption, acceptable use policies, and legal liabilities. CO5. Understanding of e-commerce with a specific emphasis on Internet Marketing
4.	OPEN SOURCE TECHNOLOGIES- LAB	CO1. Students must be able to use appropriate open source tools based on the nature of the problem
		CO2. Students should be able to code and compile different open source software
		CO1. Describe the three fundamental purposes of
	5. COST AND MANAGEMENT ACCOUNTING	cost and management accounting. As part of this
		learning, students will be able to appreciate the
		use of different costs for different purposes.
		CO2. Explain traditional and contemporary
		approaches to cost allocation.
5.		CO3. Describe different product costing scenarios in job-order and process environments.
		CO4. Identify relevant information for decision
		making purposes in order to produce financial
		analyses for a range of decisions such as product-
		mix, pricing, outsourcing and special orders.
		CO5. Use standard costs to prepare budgets for
		planning and control purposes.
SEMES	ΓER – V	

		CO1.The students should be able to specify
		software requirements, design the software using
		tools
		CO2. To write test cases using different testing
		techniques.
		CO3.Understanding of software requirements and
		the SRS documents.
1	SOFTWARE ENGINEERING	CO4. Understanding of software testing
		approaches such as unit testing and integration
		testing.
		CO5. A general understanding of software
		development life cycle such as the waterfall,
		agile model, spiral model and Rapid Application
		Development
		CO1. Understand the structure and functions of
	OPERATING SYSTEM	Operating System
		CO2. Compare the performance of Scheduling
		Algorithms
		CO3. To understand the various issues in Inter
2		Process Communication.
		CO4.Identify the features of I/O and File handling
		methods
		CO5. Understand the Memory Management
		policies
	RELATIONAL DATABASE MANAGEMENT SYSTEM	CO1.Describe basic concepts of database system
		CO2.Design a Data model and Schemas in
3		RDBMS
3		CO3.Competent in use of SQL
		CO4.Analyze functional dependencies for
		designing robust Database

		CO5.Understand the need of transaction
		processing and learn techniques for controlling
		the consequences of concurrent data access.
		CO1. Understand the basic concepts of
		Multimedia Systems
		CO2. Understand the technologies behind
		multimedia applications
	MULTIMEDIA AND ITS	CO3. To learn representations, perceptions and
4	APPLICATIONS(ELECTIVE)	applications of Multimedia
		CO4. To learn multimedia animation s/w tools
		and techniques
		CO5. To understand stages of Multimedia
		projects
		CO1. To familiarize students with the architecture
		of Unix OS.
5	Operating system -Lab	CO2.To provide necessary skills for developing
		and debugging programs in UNIX environment.
		CO1.Enhance the knowledge and understanding
		of Database analysis and design.
		CO2.Enhance the knowledge of the processes of
		Database Development and Administration using
6	PL/SQL - Lab	SQL and PL/SQL.
		CO3. Enhance Programming and Software
		Engineering skills and techniques using SQL and
		PL/SQL
SEMES	TER – VI	
		CO1. Ability to Develop and publish Web pages
	WEB DESIGN AND DEVELOPMENT	using Hypertext Markup Language (HTML).
1		CO2. Ability to optimize page styles an
		layout with Cascading Style Sheets (CSS).

		CO3.Ability to Understand, analyze and apply
		the role of languages to create a capstone
		CO4. Website using client-side web programming
		languages like HTML, DHTML, CSS, XML,
		JavaScript, and AJAX
		CO5. Introduction to jQuery and AngularJS.
		CO1.To have knowledge in Data mining concepts
		CO2.To apply Data mining concepts in different
		fields
		CO3. Characterize the kinds of patterns that can
	DATA MINING	be discovered by association rule mining,
2		classification and clustering.
		CO4. Understand neural network-based
		algorithms
		CO5. To differentiate datamining versus
		knowledge discovery in databases
		CO1.To explain the basics of mobile application
		development
		CO2.Develop Android application with User
		interface, networking and animation.
	MOBILE APPLICATION	CO3. Use simulator tools to test and publish the
3	DEVELOPMENT	application.
		CO4. Develop and Publish Android application
		which can use Location and network services
		CO5. Develop and Publish Android applications
		using Graphical user interface
4	IOT AND ITS	CO1. Understand the concepts of Internet of
	APPLICATIONS(ELECTIVE)	Things and the application of IoT.
		2. Use of Devices, Gateways and Data

		Management in IoT.
		CO3.Design IoT applications in different domain
		and be able to analyze their performance
		CO4.Implement basic IoT applications on
		embedded platform
		CO5.Understand IoT Architecture
_	MINI PROJECT	CO1. Able to develop a real time software project
5	WIRWI I ROJECT	CO2. Able to develop research-oriented project

Programme Name: B.Sc. COMPUTER SCIENCE

Programme Outcomes:

PO1: An ability to apply knowledge of computing and mathematics appropriate to the discipline.

PO2: An ability to identify, formulate, and develop solutions to computational challenges.

PO3: An ability to design, implement, and evaluate a computational system to meet desired needs within realistic constraints.

PO4: An ability to function effectively on teams to accomplish shared computing design, evaluation, or implementation goals.

PO5: An understanding of professional, ethical, legal, security, and social issues and responsibilities for the computing profession.

PO6: An ability to communicate and engage effectively with diverse stakeholders.

PO7: An ability to analyze impacts of computing on individuals, organizations, and society.

PO8: Recognition of the need for and ability to engage in continuing professional development.

PO9: An ability to use appropriate techniques, skills, and tools necessary for computing practice.

P10: An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modelling and design of computational systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.

P11: An ability to apply design and development principles in the construction of software systems of varying complexity.

Programme Specific Outcomes

PSO1: Model computational problems by applying mathematical concepts and design solutions using suitable data structures and algorithmic techniques

PSO2: Demonstrate basic knowledge of computer applications and apply standard practices in software project development.

PSO3: Understand, Analyze and Develop computer programs for efficient design of computer-based systems of varying complexity.

PSO4: Design and develop solutions by following standard software engineering principles and implement by using suitable programming languages and platforms

Semester-I

S. No.	Course Name	Course Outcome
1.	PROBLEM SOLVING USING PYTHON	CO1.To Understand the principles of Python and acquire skills in programming in python CO2.To develop the emerging applications of relevant field using Python CO3.Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements. CO4.Able to develop simple turtle graphics programs in Python CO5.Apply the best features available in Python to solve the situational problems.
2.	PYTHON PROGRAMMING LAB	CO1. Understand the numeric or real-life application problems and solve them. CO2. Apply a solution clearly and accurately in a program using Python.

		CO3. Apply the best features available in Python to solve the situational problems.
3.	ALLIED MATHEMATICS - I	CO1: Basic concept algebra using summation series and numerical methods. CO2: Learn the matrices and types of matrices. CO3: Able to understand the primary concepts of real and complex roots.

Semester-II

S. No.	Course Name	Course Outcome
1.	COMPUTERORGANIZATION	CO1. Describe the major components of a computer system and state their function and purpose CO2.Describe the microstructure of processor CO3.Demonstrate the ability to program a microprocessor in assembly language. CO4.Classify and describe the operation DMA and peripheral Interfaces. CO5.understand the principles of Interfacing I/O devices and Direct Memory accesses.
2.	COMPUTER ORGANIZATION LAB	CO1. Implement the arithmetic operations in assembly language programming CO2. Understand the programming logic of 8085 in various aspects CO3. Understand the concept of code conversions
3.	ALLIED MATHEMATICS - II	CO1. To introduce the concepts of improper integrals, Gamma, Beta and Error functions which

	are needed in engineering applications.
	CO2. This course equips students to have basic
	knowledge and understanding in one field of
	materials, integral and differential calculus
	CO3. To familiarize the student with functions of
	several variables.
	CO4. To acquaint the student with mathematical
	tools needed in evaluating multiple integrals and
	their usage

Semester-III

S. No.	Course Name	Course Outcome
1.	JAVA AND DATASTRUCTURES	CO1. Apply the concepts of object oriented programming. CO2. Students will be able to develop Java Stand alone applications and Applets. CO3. Choose the appropriate data structure form modeling a given problem. CO4. Design and develop real world applications CO5. Ability to sensibly select appropriate data structures and algorithms for problems.
2.	DATASTRUCTURES JAVA LAB	CO1. Write functions to implement linear and non-linear data structure operations. CO2. Suggest appropriate linear and non-linear data structure operations for solving a given problem. CO3. Understand the concept of BFS and DFS

3.	STATISTICS -I	CO1. Know the uses of statistics in society CO2. Organize, manage and present data CO3. Analyze the statistical data graphically using frequency distribution and cumulative frequency distribution. CO4. Analyze statistical data using measures of central tendency, dispersion and location. CO5. To understand correlation between continuous variables and association between categorical variables

Semester-IV

S. No.	Course Name	Course Outcome
		CO1. Understand the general concepts of PHP
		scripting language for the development of Internet
		websites.
		CO2. Understand the basic functions of MySQL
		database program and XML concepts
		CO3. Learn the relationship between the client side
		and the server side scripts.
1.	WEBTECHNOLOGY	CO4. Develop secured web applications
		CO5. Students will be able to write a server-side
		java application called JSP to catch form data sent
		from client and store it on database.
		CO1. On the completion of this laboratory course
2.	WEBTECHNOLOGY LAB	the students ought to
		CO2. Obtain knowledge and develop application
		programs using Python.

		CO3. Create dynamic Web applications such as
		content management, user registration, and e-
		commerce using PHP and to understand the ability
		to post and publish a PHP website.
		CO4. Develop a MySQL database and establish
		connectivity using MySQL.
	STATISTICS - II	CO1. Understand the basic concept of Probability
		CO2. Identify the characteristics of different
		discrete and continuous distributions.
2		CO3. Identify the type of statistical situation to
3.		which different distributions can be applied.
		comprehend the Sampling distributions.
		CO4. To understand how to apply statistical tests
		to get information from data

Semester-V

S. No.	Course Name	Course Outcome
1.	COMPUTER NETWORK	CO1. Analyze different network models CO2. Describe, analyze and compare a number of datalink, network and transport layer CO3. Analysing key networking protocols and their hierarchical relationship in the conceptual model like TCP/IP and OSI CO4. Understand and building the skills of subnetting and routing mechanisms.
		CO5. Understand how the Internet works today.
		CO1. To understand the design of control unit. CO2. Understanding CPU Scheduling,
2.	OPERATING SYSTEM	Synchronization, Deadlock Handling and Comparing CPU Scheduling Algorithms.

		CO3. Solve Deadlock Detection Problems.
		Describe the role of paging, segmentation and
		virtual memory in operating systems.
		CO4. Description of protection and security and
		also the Comparison of UNIX and Windows based
		OS.
		CO5. Defining I/O systems, Device Management
		Policies and Secondary Storage Structure and
		Evaluation of various Disk Scheduling Algorithms.
		CO1.Describe basic concepts of database system
		CO2.Design a Data model and Schemas in RDBMS
		CO3.Competent in use of SQL
		CO4.Analyze functional dependencies for
3.	RELATIONAL DATABASE MANAGEMENT SYSTEM	designing robust Database
		CO5.Understand the need of transaction processing
		and learn techniques for controlling the
		consequences of concurrent data access.
		CO1. Gain a working knowledge of the
		foundations of and modern applications in,
	ELECTIVE-I ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEM	artificial intelligence heuristic search, knowledge
		representation and logic.
		CO2. Demonstrate skills in problem analysis and
		solution design where searching, pattern matching,
		and substitution are the primary tools.
4.		CO3. Apply analysis techniques to logic problems
		using propositional calculus and predicate calculus
		CO4. Describe artificial intelligence applications
		including, production systems, expert systems,
		robotics, natural language processing, and
		computer vision.
		CO5. Demonstrate problem solving techniques to

		include spatial, temporal, qualitative, and common sense reasoning.
5.	OPERATING SYSTEM LAB	CO1. Understand the process management policies and scheduling process by CPU. CO2. Analyze the memory management and its allocation policies. CO3. To evaluate the requirement for process synchronization.
6.	PL/SQL LAB	CO1. Implement the DDL, DML Commands and Constraints CO2. Create, Update and query on the database. CO3. Design and implement simple project with Front End and Back End.

Semester-VI

S. No.	Course Name	Course Outcome
		CO1.The students should be able to specify
		software requirements, design the software using
		tools
		CO2. To write test cases using different testing
		techniques.
		CO3.Understanding of software requirements and
1.	SOFTWAREENGINEERING	the SRS documents.
		CO4. Understanding of software testing approaches
		such as unit testing and integration testing.
		CO5. A general understanding of software

		development life cycle such as the waterfall, agile
		model, spiral model and Rapid Application
		Development
		CO1. To describe about Data Science and
		Statistical Inference
		CO2. To identify probability distributions
		CO3. To fit a model to data and use tools for basic
	INTRODUCTION TO DATA	analysis and communication
2.	SCIENCE	CO4. Use appropriate modelling and analyse
		techniques for data science problems;
		CO5. Demonstrate competent skills in using data
		science technology.
		CO1. To explain and apply levels of services of
		Cloud
		CO2. To describe the security aspects in cloud.
		CO3. To explain Cloud Applications
3.		CO4. Analyze various cloud programming models
	INTRODUCTIONTOCLOUD COMPUTING	and apply them to solve problems on the cloud.
	COMPOTING	CO5. Identify resource management fundamentals,
		i.e. resource abstraction, sharing and sandboxing
		and outline their role in managing infrastructure in
		cloud computing.
		CO1. Use of Devices, Gateways and Data
		Management in IoT.
		CO2. Design IoT applications in different domain
4.	ELECTIVE-II	and be able to analyze their performance
	IOTANDITSAPPLICATIONS	CO3. Implement basic IoT applications on
		embedded platform.
		CO4. Able to realize the revolution of Internet in
		Mobile Devices, Cloud & Sensor Networks ·
<u> </u>		

		CO5. Able to understand building blocks of Internet of Things and characteristics
		CO1. Students must be able to analyze and design
	CASETOOLS TESTING LAB	the problem at hand.
		CO2. Students should be able to use UML tools for
5.		the designing the software
		CO3. Students should be able to test the correctness
		and soundness of their software through testing
		tools.
6.	MINI DDO IECT	CO1. Able to develop a real time software project
	MINI PROJECT	CO2. Able to develop research-oriented project

Programme Name: B.Sc Mathematics

Programme Outcomes:

PO1: The knowledge and appreciation of the breadth and depth of mathematics, including the connections between different areas of mathematics.

PO2: Develop their basic knowledge in Mathematics, which enables them to be strong in theoretical and application skills.

PO3: Apply real situations and develop mathematical models to solve problems.

PO4: Algebra, Real Analysis, Complex Analysis, Mechanics, Operation Research, Analytical Geometry, Mathematical Statistics, Numerical Methods can able to apply this knowledge to analyze a broad range of mathematical phenomena.

PO5: To apply analytical techniques to solve problems.

PO6: To create, interpret and analyze graphical representations of data and equations.

Programme Specific Outcomes:

PSO1: Clear knowledge about algebra to solve equations of series.

PSO2: Concept of envelopes, curvature, asymptotes to perform operations with basic functions.

PSO3:TofindLaplace transforms and apply these to solve differential equations.

PSO4: Clear knowledge about vector algebra to solve differentiation and integration.

PSO5: The fundamental concept of statistics used for descriptive statistics and to describe appropriately a given data set.

PSO6: The concept of mechanics to deal with statics and dynamics.

PSO7: Basic concept of algebraic structures to deal with groups, ring, fields and vector spaces.

PSO8: Basic principles of mathematical analysis to solve the theorems and problems in real and complex

Semester -1

S.No.	Subject Name	Course Outcomes
		CO1: Define and discuss the relationship
		between roots and its coefficient
		CO2: Apply the Arithmetic, Geometric and
		Hyperbolic progression to compute the equation
1		CO3: Find eigen values and eigen vectors of
1.	ALGEBRA	square matrix using characteristic equation
		CO4: Describe the prime number and composite
		number and compute the number of divisors.
		CO5: Compute the highest power of a prime
		number, Fermat's and Wilson's theorems
		CO1: Students will be able to use the unit circle
		to define the six trigonometric functions.
		Students will be able to graph the sine, cosine
		and tangent functions. Students will be able to
		fit as in or cosine function to a given graph.
	TRIGONOMETRY	CO2:Students will be able to work with radians
		and to solve circular motion Problems. Students
		will be able to solve right triangles. They will be
2.		able to draw a sketch in an applied problem
		when necessary. Students will be able to solve
		non-right triangles using the law of sines and the
		law of cosines.
		CO3: Student can write higher order derivative
		of standard functions. Student can express the
		power series expansion of a given function and
		evaluate limits. Student can apply De-Moivre's
		theorem to determine roots of polynomial and

		can express hyperbolic, inverse hyperbolic
		functions.
		CO4: Know the basic properties of exponential
		and logarithmic functions. Learn how to apply
		these functions to solving problems, including
		word problem.
		CO5: Find the sum of series. Determine the
		interval of convergence of a series. Create a
		taylor series for a function. Find the limit at
		infinity of a given function. Find the Taylor
		polynomial for a given function. Find a power
		series for a function. Determine the area of the
		region bound by functions
		CO1: Understand the basic concept of algebraic
	CALCULUS OF FINITE DIFFERENCES AND NUMERICAL ANALYSIS – I	and transcendtal equations.
		CO2: Learn the basic linear equations.
,		CO3: Able to understand the polynomials and
3.		series
		CO4: Explain the interpolation with intervals.
		CO5: Basic concept reversion series and inverse
		interpolation

Semester -II

S.No.	Subject Name	Course Outcomes
	ANALYTICAL GEOMETRY	CO1: Basics of pole and polar
		CO2: To utilize parametric equations in graphing
		and analyzing polar coordinates, conic sections.
1.		CO3: Compute the Length of the perpendicular.
		CO4: Understand the concept of a line and a
		plane.
		CO5: Compute the equation of Sphere and circle.
2.	DIFFERENTIAL CALCULUS	CO1: Plot the graphs of trigonometric functions

		using exact values.
		CO2: To manipulate, derive and use
		trigonometric identities
		CO3: Solve trigonometric equations of a single
		variable with both specific and general solutions.
		CO4: Find maxima and minima, critical points
		and inflection points of functions
		CO5: Understand the concept of curvature and
		calculate curvature if the curve is defined in
		Cartesian
		form or in parametric form
		CO1: Understand the basic concept divided
	CALCULUS OF FINITE DIFFERENCES AND NUMERICAL ANALYSIS-	differences.
		CO2: Learn the basic definitions of summation
		series and summation formula
		CO3: Able to understand the basic of
3.		homogenous and non-homogenous difference
		equation
		CO4: the students can be able to find the
		ordinary difference equations
		CO5: To make the students understand the
		simplification of series methods, derivatives etc.,

Semester -III

S.No.	Subject Name	Course Outcomes
1.	DIFFERENTIAL EQUATIONS	CO1: Understand the basic concepts of linear equations and exact equation are applicable in two dimensional electrical fields the line of force equi potential curves are orthogonal trajectory of each other. CO2: PDEs can be used to describe a wide variety of

		phenomena such as sound, heat, electrostatic,
		electrodynamics, fluid dynamics, elasticity.
		CO3: Understand the Charpit's method and solve the
		problem in complete integral using charpits
		method.
		CO1: Students will be able to evaluate integral values
		by appropriate reduction formulae
		CO2: Compute (relatively simple) triple integrals in
		rectangular, cylindrical and spherical coordinates.
		Compute double integrals over a sector of an annulus
		using polar coordinates
		CO3: Explain the applications and the usefulness of
		these special functions. Understand purpose and
		functions of the gamma and beta functions, Sturm-
		Liouville problem, Fourier series and Transformation.
		(Skills)Use the gamma function, beta function and
2.	INTECDAL CALCULUS	special functions to evaluate different types of
2.	INTEGRAL CALCULUS	integral calculus
		CO4: Find the magnitude ,direction and component
		form of displacement vectors. Perform the following
		vector operations:-addition and subtraction,-scalar
		multiplication,-dot product, geometric and
		component forms,-crossproduct, geometric and
		component forms. Use vector models for applications
		of velocity, force, work, finding angles between
		vectors, and projections.
		CO5: Evaluate integrals of functions or vector-related
		quantities over curves, surfaces, and domains in two-
		and three-dimensional space.
3.	MATHEMATICAL	CO1: Use statistical methodology and tools in the
J.	STATISTICS-I	engineering problem-solving process.

CO2: Compute and interpret descriptive statistics
using numerical and graphical techniques.
CO3: Understand the basic concepts of probability,
random variables, probability distribution, and joint
probability distribution.
CO4: Compute point estimation of parameters,
explains sampling distributions, and understands the
central limit theorem.
CO5: Students will be able to think critically about
the data arising in management environments,
selecting the best tools to describe, analyze, and
exploit this data for decision support.

Semester -IV

S.No.	Subject Name	Course Outcomes
		CO1: Basic concept when evaluating the motion caused by
		forces acting on an object remember to find the vector sum
		of the forces
		CO2: Rigid body studies the movement of systems of
		interconnected bodies under the action of external forces.
		CO3: Basic knowledge of various kinds of forces and
1.	STATICS	motion highly desirable for engineering and
		Practical applications. Newton's law of motion defines and
		gives the expression for the force.
		CO4: Learn the definition of center of mass and learn how
		to calculate it. It is defined relative to an object or system of
		object
		CO5: Virtual work arises in the application of the principle

		of least action to the steady of forces and movement of a
		mechanical system.
2.	TRANSFORM TECHNIQUES	CO1: Understand the Laplace Transform and its existence. Know the relation between Fourier Transform and Laplace Transform. Understand the Unilateral Laplace Transform of some commonly used signals. CO2: Calculate the convolution of simple functions. Apply the Convolution Theorem to obtain inverse Laplace transforms. CO3: The student will be able to classify and solve wave equations and heat equations. Students are able to formulate and solve some of the physical problems involving Partial Differential Equations. CO4: Be able to calculate the Fourier transform or inverse transform of common functions including Rect, Gaussian, Delta, Unit - Step, sinusoidal and exponential decays. Be able to calculate the Fourier transform or inverse transform of common functions including Rect, Gaussian, Delta, Unit-Step, sinusoidal and exponential decays. CO5: Students will be introduced to the concept of the Laplace transform in the solution of constant coefficient, linear ODEs.
3.	MATHEMATICALSTATIS TICS – II	CO1: Know the most widely used probability distributions and recognize them in applications. CO2: Know the main tools to describe a random variable, such as the probability density function, the cumulative distribution function, and the moment generating function.
		CO3: Recognize the importance of the central limit

theorem and understand when it is appropriate to use
normal approximations for the distribution of a statistic.
CO4: Be able to derive maximum likelihood estimators.
CO5: Be able to construct exact and approximate
confidence intervals.
CO6: Possess techniques of proving theorems and
thinking out counter-examples.
CO7: Learn to develop complex mathematical reasoning

Semester -V

S.No.	Subject Name	Course Outcomes
	ALGEBRAIC STRUCTURES	CO1: Basics of Groups, and Subgroups.
		CO2: Understand the concept of Normal Subgroups and
		homomorphism
		CO3: Learn the concept of Cayley's Theorem; Permutation
1.		groups.
		CO4: Understand the concepts of Rings, whose
		components ideals, homomorphism and Quotient rings.
		CO5: Understand the concepts of Euclidean Rings.
	REAL ANALYSIS -I	CO1: Basics of sets and functions.
		CO2: Understand the concept of sequence of real numbers.
2.		CO3: Learn the concept of series of real numbers.
		CO4: Understand the concepts of Metric spaces.
	DYNAMICS	CO1: Basics of kinematics
		CO2: Understand the concept of powers, simple harmonic
		motion and retardation
3.		CO3: Learn the concept of projectile and impulse force
		CO4: Understand the concepts circular motion and central
		orbit
		CO5: Understand the concepts of moment of inertia and

CO1: Define set, inclusive element, object and roste notation, subset, proper subset and equivalent set and examine the union of disjoint set. CO2: An ability to apply knowledge of Boolean algebra and knowledge about the symbols and truth table of basic	
and derived logic gates CO3: Ability to design and conduct experiments as well as to analysis and interpret data CO4: An ability to identify the logical gates and combinatorial circuits CO5: Solve homogenous recurrence relation using generating function CO6: Understand some basic properties of graph and related discrete structures and be able to relate these to practical examples.	4.

Semester -VI

S.No.	Subject Name	Course Outcomes
		CO1: Basics of vector space, linear independent and
		basis.
		CO2: Understand the concept of Dual spaces and
		homomorphism
1.	LINEAR ALGEBRA	CO3: Define inner product space and its finite-dimen
		inner product space
		CO4: Understand algebra of linear Transformation a
		characteristic roots.
		homomorphism CO3: Define inner product space and its finite-dimensioner product space CO4: Understand algebra of linear Transformation a characteristic roots. CO5: Compute matrix canonical form and triangular form
_	REAL ANALYSIS -II	CO1: Basics of open and closed sets.
2.		CO2: Understand the concept of completeness and

		compactness.
		CO3: Learn the concept of Riemann integration.
		CO4: Understand the concepts of Calculus
		CO5: Understand the concepts of sequence of
		functions.
		CO1: Basics of limits function of complex variable
		and analytic function.
		CO2: Understand the concept of linear functions.
	COMPLEX ANALYSIS	CO3: Learn the concept of complex valued function
3.		CO4: Understand the concepts of Convergence of
		sequences and series
		CO5: Understand the concepts of Residues and
		definite integral
		CO1: Basics of graphs and sub graphs.
		CO2: Understand the degree sequences and graphic
		sequences. CO3: Learn the concept of Eulerian and
_	GRAPH THEORY	Hamiltonian graphs
4.		CO4: Understand the concepts of trees and planarity
		CO5: Understand the concepts of Digraphs and
		matrices, tournaments, some application connector
		problem
		CO1: The characteristic of linear programming
		problem and also different techniques to solve LPP
		are introduced
		CO2: once the concept becomes clear, theoretical as
_	OPERATIONS	well as logical approach of most popularly used
5.	RESEARCH	simplex method, Big M method, primal dual relation
		will be explained
		CO3: Able to identify the special feature of the
		transportation problem and assignment problem
		CO4: Understand and compute quantitative matrices
	OPERATIONS RESEARCH	CO2: once the concept becomes clear, theoretical as well as logical approach of most popularly used simplex method, Big M method, primal dual relation will be explained CO3: Able to identify the special feature of the transportation problem and assignment problem

	of performance of queuing systems
	CO5: Develop mathematical skills to analyse and
	solve integer programming and network models
	arising from a wide range of applications.

Program: B.Sc Electronics & Communication Science

Program Outcomes

PO1: Critical Thinking: Apply theoretical frameworks of Electronic Instrumentation.

PO2: Effective Communication: Sketch the various procedures of Basic Physics.

PO3: Social Interaction: Draw out view of others, moderate lack of agreement and lend a hand to reach closure in group settings.

PO4: Ethics: Be socially responsible in creating content and realize its impact on the society, not forgetting the values of the society.

PO5: Life-long learning: Acquire the ability to continuously keep updated in the latest trends and technologies of modern world.

Program Specific Outcomes

PSO1: Student familiarizes to the concepts, calculations pertaining to electric, magnetic and electromagnetic fields so that an in depth understanding of antennas, electronic devices, Waveguides is possible

PSO2: Understand the basic nature and basic concepts of Computer Networks.

PSO3: Identify the aspects of Basic Physics.

PSO4: Students recognize and understand common modulation schemes for continuous wave modulation

including amplitude modulation, frequency modulation, and phase modulation.

PSO5: Analyze the fundamentals of computers and their usage in evolution of Advanced electronics.

Course Outcomes

Semester - I

C NI-	CLIDIECT	COLIDGE OUTCOME
S. No	SUBJECT	COURSE OUTCOME

		CO1. To apply circuit theorems to simplify and find
		solutions to electrical circuits.
		CO2. To solve simple circuits using ohm's law,
		Kirchhoff's laws and the properties of the elements.
		CO3. To build up basic problem solving skills through
		organizing available information and applying circuit
	BASIC CIRCUIT	laws.
1.	THEORY	CO4. To Build up strong problem solving skills by
		effectively formulate a circuit problem into a
		mathematical
		problem using circuit laws and theorems.
		CO5. To Simplify circuits using series and parallel
		equivalents and using The venin and Norton equivalents
		CO6. To understand transient circuit response.
	MATHEMATICS -I	CO1. Basic concept algebra using summation series and
_		numerical methods.
2.		CO2. Learn the matrices and types of matrices.
		CO3. Able to understand the primary concepts of real and
		complex roots.

Semester - II

S. No	SUBJECT	COURSE OUTCOME
		CO1. To understand the use of diodes as power supply
		rectifiers.
		CO2. To understand the operation of transistors as
1.	BASIC ELECTRONICS	switching circuits.
		CO3. To learn the tools and techniques of practical
		electronics and circuit design.
		CO4. To understand the fundamentals of operation of the

		main semiconductor electronic devices.
		CO5. To understand the fundamentals of special purpose
		diodes.
		CO6. To familiarize the student with the analysis and
		design of basic transistor amplifier circuit.
		CO1. To introduce the concepts of improper integrals,
		Gamma, Beta and Error functions which are needed in
	MATHEMATICS- II	engineering applications.
		CO2. This course equips students to have basic
		knowledge and understanding in one field of materials,
2.		integral and differential calculus
		CO3. To familiarize the student with functions of several
		variables.
		CO4. To acquaint the student with mathematical tools
		needed in evaluating multiple integrals and their usage

Semester - III

S. No	SUBJECT	COURSE OUTCOME
1.	ELECTRICITY, MAGNETISM AND ELECTROMAGNETISM	CO1. To familiarize the student to the concepts, calculations pertaining to electric, magnetic and electromagnetic fields so that an in depth understanding of antennas, electronic devices, Waveguides is possible. CO2. To analyze fields and potentials due to static charges. CO3. To evaluate static magnetic fields. CO4. To understand how materials affect electric and magnetic fields.

		CO5. To understand the relation between the fields
		under time varying situations.
		CO6. To understand principles of propagation of
		uniform plane waves.
		CO1. Define angles using radian measure and convert
		between radian and degree measure.
		CO2. Understand the concept of iteration
		CO3. Solve the differential and integral equation by
2.	NUMERICAL METHODS	numerical methods
	METHODS	CO4. Solve the equation and find the roots by Regula false-
		Position Method , Newton-Raphson Method
		CO5. compute solutions for transcendental and polynomial
		equations in one variable.
		CO1. To understand the operations and the applications
		of the various classes of an Amplifier.
		CO2. To study the operation of Push-Pull Amplifier.
		CO3. To familiarize the student with the analysis and
		design of basic transistor amplifier circuits, feedback
	AMPLIFIERS AND OSCILLATORS	amplifiers, wave shaping and multi vibrator circuits.
3.		CO4. To study the effect on Input Impedance and
		Frequency on Common Emitter Amplifier.
		CO5. To study the operation of Hartley, Colpitts, RC
		Phase shift, crystal and wien bridge oscillators.
		CO6. To determine the operating characteristic of
		Unijunction Transistor Oscillator.
		CO1. Define the basics of properties of matter, how
	BASIC PHYSICS 1	Young's modulus and rigidity modulus are defines and
		how they are evaluated for different shapes of practical
4.		relevance
		CO2. Describe the fundamentals of harmonic oscillator
		model, including damped and forced oscillators and
		moder, including damped and forced oscillators and

grasp the significance of terms like quality factor and
damping coefficient
CO3. Describe the general equation of wave motion in
general and TM waves in stretched strings and
longitudinal waves in gases
CO4. Recognize the general terms in acoustics like
intensity, loudness, reverberation etc, and study in detail
about production, detection, properties and uses of
ultrasonic waves

Semester - IV

S. No	SUBJECT	COURSE OUTCOME
		CO1. To learn the basic principles of analog and digital
		communication systems.
		CO2. To familiarize the student with modulation
		techniques.
		CO3. To recognize and understand common modulation
		schemes for continuous wave modulation
	PRINCIPLES OF COMMUNICATION	including amplitude modulation, frequency modulation,
1.		and phase modulation.
		CO4. To recognize and understand common digital pulse
		modulation schemes including delta
		modulation and pulse-code modulation.
		CO5. To understand the common analog pulse
		modulation schemes including pulse-amplitude
		modulation, pulse-width modulation, and pulse-position
		modulation.
		CO1. To understand common forms of number
2.	DIGITAL ELECTRONICS	representation in digital electronic circuits and to be able
_,		to

		convert between different representations.
		CO2. To perform decimal, octal, hexadecimal, and binary
		conversions.
		CO3. To apply Boolean algebra to solve logic functions.
		CO4. To implement simple logical operations using
		combinational and sequential logic circuits.
		CO5.To identify and differentiate digital electronics
		applications.
		CO1. To know the microprocessor as a programmable
		digital system element.
		CO2. To illustrate some basic concepts of
		microprocessors through the use of assembly language
		programming.
3.	MICROPROCESSOR	CO3. To develop an in-depth understanding of the
	(INTEL 8085)	operation of microprocessors and machine language
		programming & interfacing techniques.
		CO4. To design simple interfaces to Intel-8085.
		CO5. To Comprehend the various peripheral interface
		circuits that are necessary for the operation of Intel-8085.
		CO1. To Understand how to use and manipulate
		variables and types to change the program state,
		including
		numeric, character, array and pointer types, as well as the
		use of structures and typedefs.
		CO2. To understand the purpose and use of function
4.	PROGRAMMING IN C	libraries.
		CO3. To understand the purpose of pointers for
		parameter passing, referencing and dereferencing, and
		linking
		data structures.
		CO4. To understand object-oriented programming
		parameter passing, referencing and dereferencing, and linking data structures.

	features in C++,
	CO5. To understand the implementation of various data
	structures and algorithms in C++.
	CO1. Define the basic concepts behind Optics, Nuclear
BASIC PHYSICS II	Properties and Radio Activity
	CO2. Describe the basics in Laser
	CO3. Implement the applications of Fibre Optics
•	YSICS II

Semester - V

S. No	SUBJECT	COURSE OUTCOME
	MICROCONTROLLER	CO1. To Familiarize with different types of Microcontroller.CO2. To know 8051 microcontroller in detail.CO3. To learn Programming and Interfacing with 8051
1.		microcontroller. CO4. To develop an in-depth understanding of the
		operation of microcontrollers & interfacing techniques. CO5. To Understand and use various IO devices such as keypads, stepper motor, A to D and CO6. To learn D to A converters.
2.	ANTENNAS AND TELEVISION ENGINEERING	CO1. To provide the basic knowledge about the fundamentals of antenna. CO2. To describe the electromagnetic radiation with application to antenna theory and design. CO3. To make the students understand the radio wave propagation phenomena in modern communication systems. CO4. To understand the applications of the electromagnetic waves in free space. CO5. To study the analysis and synthesis of TV Pictures,

		Composite Video Signal, Receiver Picture tubes and
		Television Camera Tubes.
		CO6. To study the various Color Television systems with
		a greater emphasis on television standards.
		CO7. To study the advanced topics in digital television
		and High definition television
		CO1. To introduce the basic concepts related to the
		operation of Electrical and Electronic Measuring
		Instruments.
	ELECTRICAL AND	CO2. To study the basics of design of analog and digital
3.	ELECTRICAL AND ELECTRONICS	circuits used in electronic instrumentation.
	INSTRUMENTATION	CO3. To understand basic electronic instrument
		terminology.
		CO4. To understand the proper application of electronic
		instruments.
		CO1. analyze and evaluate the effect of different
	4. MEDICAL ELECTRONICS	diagnostic and therapeutic methods, their risk potential,
		physical principles, opportunities and possibilities for
		different medical procedures.
		CO2. to have a basic understanding of medical
		terminology, relevant for biomedical instrumentation.
4.		CO3. to understand and describe the physical and
		medical principles used as a basis for biomedical
		instrumentation.
		CO4. understand the elements of risk for different
		instrumentation methods and basic electrical safety.
		CO5. understand the position of biomedical
		instrumentation in modern hospital care

Semester - VI

S. No	SUBJECT	COURSE OUTCOME
		CO1. To understand the fundamentals of optoelectronics
		and principles of the optoelectronic devices operation.
	ADVANCED	CO2. To be familiar with recent trends in optoelectronics.
1.	ELECTRONICS	CO3. To study the basic concepts of smart phones.
		CO4. To understand the fundamental concepts of
		nanoelectronics.
		CO1. To learn the definition and basic terminology of
		Computer Networks.
		CO2. To learn the different types of Computer Networks.
		CO3. To know the applications of Computer Networks
		in different fields.
		CO4. To know about Multiplexing, transmission media
2.	COMPUTER	and signals.
	NETWORKS	CO5. To learn the functioning of OSI model and to
		describe the responsibilities of each layer.
		CO6. To know about the individual components and
		functioning of the Internet.
		CO7.To learn about the hardware components used in the
		networking.
		CO1. Analyze the steady state and small signal AC
		response of simple electronic circuits containing diodes,
		transistors, and operational amplifiers
		CO2. Apply performance criteria in the design of basic
3.	3. INDUSTRIAL ELECTRONICS	amplifier circuits and verify that the criteria were met.
		CO3. Design and analyze circuits containing digital
		components and microprocessors.
		CO4. Analyze and evaluate performance parameters of
		AC and DC motors.

Program : B.Sc Microbiology

Program Outcomes (PO)

PO1: Graduates will obtain ample knowledge and leadership skills for a successful career in the field of Microbiology

PO2: Graduates will be able to explore and solve natural science based problems in clinical, environmental and industrial oriented

PO3: Graduates will work together with each other to solve problems with innovative thoughts and new techniques

PO4: Graduates will acquire practical skills- plan & execute experimental techniques independently as well as to analyse& interpret data.

PO5: Graduates will effectively be able to manage resources in time.

PO6: Graduates will be able to learn separately and develop critical thinking.

PO7: Graduates will achieve ability to communicate proficiently and able to understand moral and social responsibility.

PO8: Graduates will carry on to learn and to acclimatize to themselves in a world of constantly growing recent technology.

Program Specific Outcomes (PSO)

Students who graduate with a Bachelor of Science in Microbiology will,

PSO1: Acquire knowledge on fundamentals of Microbiology and classification of microbes.

PSO2: Gain insight into the various aspects of microbial genetics, Molecular Biology and Genetic Engineering.

PSO3: Proficiently be able to cultivate and characterize bacterial, Viral, Parasitical and fungal forms.

PSO4: Grasp the fundamental concepts of Natural and Acquired immunity and the role of organs and cells in the development of immune response.

PSO5: Understand details of bacterial, fungal, algal and viral morphology and physiology and metabolism.

PSO6: Be capable on understanding the cloning vectors and rDNA technology in eukaryotic and Prokaryotic system.

PSO7: Incorporate technical skills on Medical microbiology, Food Microbiology, Applied Microbiology, microbial genetics and molecular biology.

PSO8: Grasp the application oriented aspects of Microbiology in the day to day life and industries.

PSO9: Understand the concepts and development of microbial diseases in animals & plants to diagnose the disease.

PSO10: Understand the principles of prevention by vaccination and create awareness in the society.

Course Outcomes Semester - I

S. No	SUBJECT	COURSE OUTCOME
1.	GENERAL MICROBIOLOGY AND MICROBIAL PHYSIOLOGY - MAJOR	CO1. Understand the structural features of microorganisms by various staining methods CO2. Learn to prepare various kinds of media to cultivate microbes CO3. Learn to handle and work with microscopes CO4. Understand the microbial physiological characters
2.	BIOCHEMISTRY - ALLIED	CO1. Understand the function of biological molecules through the study of their molecular structure. CO2. Develop an understanding of the chemical and regulatory interrelationship between major cellular CO3. synthetic and catabolic pathways. CO4. Gain insights into the nature of diseases and

	clinical diagnostic procedures.

Semester - II

S. No	SUBJECT	COURSE OUTCOME
		CO1. Understanding about the fundamental concepts
		of immunity and its types, contributions of theorgans
		and cells in immune responses.
		CO2. Understand about the antigens & their properties
		and involvement in immune response
		CO3. Understand the different types of antibodies like
		monoclonal and polyclonal& their production.
		CO4. Understand the mechanisms involved in antigen-
		antibody reactions like agglutination and
	IMMUNIOI OCN AND	CO5. Precipitation and getting adequate knowledge
1.	IMMUNOLOGY AND MICROBIAL GENETICS	CO6. Gaining adequate knowledge about tissue
	- MAJOR	transplantation and tumor immunology
		CO7. Comprehensive knowledge leading to
		hypersensitive conditions and its consequences in
		immunesystem
		CO8. Know how MHC functions in the immune
		system
		CO9. Gain knowledge on vaccines, immunization and
		its schedule
		CO10. Gain knowledge about bacterial genetics and
		related informations
	BIOINSTRUMENTATION - ALLIED	CO1. Acquire skills on chromatographic techniques.
		CO2. Know how to adjust pH.
2.		CO3. know how to perform gel electrophoresis.
2.		CO4. Get skill to handle UV-Vis spectroscopy.
		CO5. Provided with demonstration to handle PCR,
		DNA sequencer, Fermenter, Flow cytometry

Semester - III

S. No	SUBJECT	COURSE OUTCOME
		CO1. Acquire knowledge about the basic structure of bio
		molecules and their stability.
		CO2. Attain knowledge about the basics in structure of
		Nucleic acid and their various forms.
		CO3. Learn about the organization of genetic materials in
		organisms.
		CO4. Study about the types of damage and repair
		mechanisms.
1.	MOLECULAR BIOLOGY	CO5. Understand the steps involved in DNA replication,
		transcription and translation processes in organisms.
		CO6. Acquire knowledge about various types and
		processing in RNA molecule.
		CO7. Gain knowledge in the mechanisms of gene
		expression.
		CO8. Achieve knowledge about the regulation of gene
		activity at various level.
		CO1. Acquire skills on chromatographic techniques.
		CO2. Know how to adjust pH.
2.	BIOINSTRUMENTATION - ALLIED	CO3. know how to perform gel electrophoresis.
		CO4. Get skill to handle UV-Vis spectroscopy.
		CO5.Provided with demonstration to handle PCR,
		DNA sequencer, Fermenter, Flow cytometry

Semester - IV

S. No	SUBJECT	COURSE OUTCOME
	SOIL AND	CO1. understand the factors influencing presence of
1.	AGRICULTURAL MICROBIOLOGY	and activities of microorganisms in different soils

		CO2. explain influence of pesticides on soil
		microorganisms
		CO3. explain biodegradation and biofuel generation
		CO4. Develop skills in using techniques for isolation,
		characterization and identification of soil
		microorganisms
		CO5. Identify pesticide degrading microorganisms by
		using microbiological techniques.
		CO1. Acquire skills onchromatographic techniques.
	BIOINSTRUMENTATION - ALLIED	CO2. Know how to adjust pH.
_		CO3. Know how to perform gelelectrophoresis.
2.		CO4. Get skill to handle UV-Vis spectroscopy.
		CO5. Provided with demonstration tohandle PCR,
		DNA sequencer, Fermenter, Flow cytometry

Semester - V

S. No	SUBJECT	COURSE OUTCOME
1.	MEDICAL BACTERIOLOGY	CO1. Know the classification and properties of medically important bacteria. CO2. Learn the methods of collection, transport and processing of clinical specimens. CO3. Gain knowledge on antibioticsensitivity discs, testing procedures and their quality control. CO4. Know the morphological, biochemical, cultural properties of bacteria. CO5. Get complete information on pathogenesis of bacterial diseases CO6. Comprehend the diagnosis of bacterial infections and prevention methods CO7. Assimilate knowledge on different mode of

		transmission of bacterial diseases
		CO8. Gain knowledge on community-acquired and
		nosocomial infections.
		CO1. Know about the taxonomy of fungi.
		CO2. Gain knowledge about the isolation of fungi from
		clinical specimens.
		CO3. Understanding of Medical Parasitology.
		CO4. Assimilate Mycotoxins and antifungal agents.
2.	MEDICAL MYCOLOGY	CO5. In-depth knowledge on Blastomycosis and
	& PARASITOLOGY	Sporotrichosis.
		CO6. Gain knowledge on Laboratory techniques in
		parasitology.
		CO7. A thorough knowledge on cultivation of
		protozoan parasites.
	MEDICAL VIROLOGY	CO1. Gain information properties of viruses and their
		detection methods.
		CO2. Acquire basic knowledge DNA and RNA viruses
3.		CO3. Acquire knowledge on pathogenic virus
		CO4. Get adequate knowledge about Bacteriophages
		CO5. Assimilate knowledge on epidemiology,
		prevention and treatment of various viral disease.
	GENETIC ENGINEERING	CO1. Students may obtain interest in Molecular
		biology research
4.		CO2. Students mayacquire knowledge about the
		methods of rDNA technology.
		CO1. Gain knowledge about transport of clinical
	MAJOR PRACTICAL V - MEDICAL BACTERIOLOGY, MYCOLOGY, PARASITOLOGY AND VIROLOGY	specimens and their isolation
_		CO2. Know about sensitivity testing of microbes
5.		CO3. Acquire knowledge on isolation of phage
		CO4. Know about identification and cultural
		characteristicsof fungi

Semester - VI

S. No	SUBJECT	COURSE OUTCOME
		CO1. Explain the different groups of microorganisms in
		the environment
		CO2. Explain how diseases can be transmitted by waters;
		the treatments and control measures of such diseases
	ENVIRONMENTAL	CO3. Understand why treatment of water for safe
1.	MICROBIOLOGY	consumption is necessary and how the treatment could be
		carried out;
		CO4. Understand the need for proper sewage disposal in
		the environment and roles of
		microorganisms in the disposal of sewage.
		CO1. Know the microorganisms present in different types
		of food.
		CO2. Understand the principles behind food preservation
	FOOD & DAIRY MICROBIOLOGY	and the various methods involved in it.
		CO3. Appreciate the beneficial effects of microbes in
		foods.
		CO4. Comprehend the factors influencing microbial
2.		growth and survival in foods.
		CO5. Know the role of microorganism in fermentation
		and the various types of fermented food products.
		CO6. Know the spoilage organisms in different types of
		foods
		CO7. Realize the importance of food sanitation and
		appreciate the practice of GMPs,
2	INDUSTRIAL AND	CO1. Acquire knowledge on various ferementation
3.	PHARMACEUTICAL	

	MICROBIOLOGY	process
		CO2. Know about different types of fermentors
		CO3. Gain knowledge about commercially produced
		microbial products
		CO4. Gain knowledge about down stream processing
		CO5. Know about pharmaceutical products and about
		their production.
		CO1. understand principles of animal culture, media
		preparation .
		CO2. explain Invitro fertilization and embryo transfer
		technology.
		CO3. describe meristem culture and clonal
		propagation of plants on a commercial scale.
4.	BIOTECHNOLOGY	CO4. get insight in applications or recombinant DNA
		technology in agriculture, production of therapeutic
		proteins.
		CO5. describe commercial production of fuels, microbial
		enzymes.
		CO6. explain the microbial degradation ofpesticides,
		Bioremediation & Biofertilizers.
		CO1. Quantify the organisms present in food.
		CO2. Analyse the microbiological quality of raw milk by
		MBRT and Resazurin test
	MA IOD DD A CEICAI	CO3. Evaluate the microbiological quality of curd by
	MAJOR PRACTICAL - ENVIRONMENTAL,	Standard Plate Count
5.	FOOD AND DAIRY MICROBIOLOGY	CO4. Isolate and identify the yeast and mould in spoiled
		foods
		CO5. Identifying the toxins in grains by Thin Layer
		Chromatography
		CO6. Analyse the potabilty of water

PROGRAM :BSc Psychology

Program Outcomes (PO)

PO1. Elevate their job opportunities

PO2. Enrich their knowledge on special education

PO3. Develop their cognitive skills

PO4.Improve their analytical skills

PO5.Heighten their problem solving & decision making skills

PO6. Enhance their quality of life

PO7. Improve their emotional intellignce

PO8.Improvise their presentation skills

PO9.Enrich their leadership qualities

PO10.Excel in academics

PROGRAM SPECIFIC OUTCOME (PSO)

The choice of Psychology discipline in UG Program will specifically will

PSO1: Enable the students to understand basics of human behaviour

PSO2: Enable the students to widen their knowledge horizon with the help of theories and experiments based on personalities, society and family

PSO3: Enable students to explore the research methodology and statistical analysis related to psychology

PSO4: Enable them to understand and analyse every day problem of an evolving human mind and its interaction with the changing environment.

PSO5: Enable students to successfully help common public elevate their standard of living understanding the gap.

PSO6: Enable students design and redesign the model of an organization to help them bring the best out of the Human resources.

PSO7: Enable students, understand the structure of the society and help the change makers analyse the behaviour of the common public.

PSO8: Enable students identify and treat mental illness with a specific treatment plan.

PSO9: Enable student to understand the principles of guidance and counselling.

PSO10: Enable the students to identify the specific learning disabilities among children

COURSE OUTCOME

S.NO	COURSE NAME	COURSE OUTCOME	
SEMES	SEMESTER - I		
1.	CORE-I GENERAL PSYCHOLOGY-I	Course Learning Outcome After completion of the General Psychology I course, students will be able to CO1: Acquire knowledge on the history, methods and specific areas in the field of psychology CO2: Explain sensory system through which information processing happens. CO3: Relate the nature of consciousness and the underlying theoretical interpretation and describe the various stages of sleep & dreams. CO4: Outline and compare principle and theories of learning.	
		CO5: Summarize and compare various functions of memory process.	
2.	BIOLOGICAL PSYCHOLOGY-I	Course Learning Outcome After completion of the Biological Psychology-I course, students will be able to CO1: Explain the research methods and perspectives of biopsychology and the reciprocal relationship between	

		brain and behavior.
		orani and benavior.
		CO2: Illustrate the anatomy and function of the neural
		cell.
		C03: Relate how neurons communicate with each other.
		CO4: Understand and explain the division of nervous
		system.
		CO5: Understand and explain the function of endocrine
		glands and relate the knowledge to understanding
		various human behavior.
		Course Learning Outcome After completion of the
		Indian psychology course, students will be able to
		CO1: Outline the fundamental concepts of Indian
		Psychology in comparison with western psychology
		concepts.
		CO2:. Examine various concepts of Indian Psychology
	INTRODUCTION TO	on Personality and states of consciousness through
3.	INDIAN	Upanishads, Nyaya, Advaita, Vedantam etc.
	PSYCHOLOGY	
		CO3: Illustrate the ideas of Yoga and apply the
		knowledge for self-development
		CO4: Analyzing various religious school of thoughts in
		explaining the concept of Mind
		CO5: Apply the concept of Indian psychology in
		various fields like counselling, education, organizational
		behavior etc

SEMES	SEMESTER - II				
		Course Learning Outcome After completion of the General Psychology- II course, students will be able to			
		CO1. Spell out the different types of cognition, thinking processes, decision making and language development			
	GENERAL PSYCHOLOGY-II	CO2. Summarize the various theories of Motivation, frustration and conflicts			
1.		CO3. Outline the characteristics and theories of emotions and stress			
		CO4. Explain the nature, theories and assessment of Intelligence, Emotional Intelligence and creativity			
		CO5. Analyze various theories of Personality and describe the assessment & application of the Personality tests			
		Course Learning Outcome After completion of the			
2.	BIOLOGICAL PSYCHOLOGY-II	Biological Psychology II course, student will be able to: CO1. Outline the biological basis of Sleep & Dream and various sleep disorders CO2. Explain brain development and neuro plasticity CO3. Summarize the brain mechanism involved in regulating thirst, hungry and feeding			

stress and ill health CO5. Identify the brain areas associated with I memory and outline the causes of memory dis	0
	0
memory and outline the causes of memory dis	earning &
	orders
Course Learning Outcome After completion o	f the
Community Psychology course, student will b	e able to:
CO1. Define and explain the core values of copsychology in Indian context CO2. Analyse and evaluate various socio-cultopsychological models and behaviours of Indian CO3. Critically examine the socio-economic and its impact on development CO4. Appraise the role of human development family structure on Mental Health CO5. Develop preventive measures and design promotion programmes for better community development	ural n youth indicators t and
SEMESTER - III	
Course Learning Outcome After completion o	f the
Developmental Psychology-I course, student v	vill be
able to:	
CO1. Summarize the developmental stage of c	conception
through birth	
1. DEVELOPMENTAL PSYCHOLOGY-I CO2. Explain the developmental stage of infar	ncy and
babyhood	
CO3. Recall the various developmental proces	s of early
and late childhood	
CO4. Understand the various theories of cogni	tive
development	

		CO5. Relate various Developmental stages of	
		socialization, family relations and personality	
		development.	
		Course Learning Outcome After completion of	
		the Experimental Psychology course, students will be	
		able to	
		CO: 1. Demonstrate the effect of distraction, division	
		and span of attention	
		CO2. Explain the factors involved in errors of	
		perception CO3. Demonstrate the concepts of transfer of	
_	EXPERIMENTAL	learning, trial and error learning, insight learning and	
2.	PSYCHOLOGY	learning through the knowledge of results	
		CO4. Relate to one's own level of aspiration and	
		achievement motivation	
		CO5. Infer various emotional patterns in oneself and	
		others 6. Illustrate the use of the motor-skills in manual	
		and tweezer dexterity 7. Demonstrate assessment of IQ	
		level	
		Course Learning Outcome After completion of the	
		Statistics in Psychology course, student will be able to:	
		CO1. Explain the different levels of measurement and	
		methods of organizing data in statistics	
3.	STATISTICS IN		
J.	PSYCHOLOGY	CO2. Differentiate between mean, median, mode and	
		variability	
		CO3. Illustrate and apply the concepts of normal	
		distribution	
		CO4. Find out correlation among variables	
		CO5. Test for significance in hypotheses testing	

	CO6. Select and utilize appropriate non-parametric			
		statistics		
SEMES	SEMESTER - IV			
		Course Learning Outcome After completion of the		
		Developmental Psychology II course, the student will be		
		able to		
		CO: 1. Summarize the developmental process of		
		puberty and adolescence		
1.	DEVELOPMENTAL	CO2. Relate the various development process of young		
	PSYCHOLOGY-II	adulthood		
		CO3. Explain the developmental tasks of middle age		
		CO4. Identify problems related to old age		
		CO5 Develop coping strategies with grief and old age		
		sickness		
		Course Learning Outcome After completion of the		
		Psychological assessment course, students will be able		
		to		
		CO1. Empower the students to assess Personality		
		CO2. Enable the students to assess Creativity		
		CO3. Empower the students to assess Aptitude		
		CO4. Enable the students to find out their Interest		
2.	PSYCHOLOGICAL	CO5. Empower the students to assess Achievement		
	ASSESSMENT	Motivation		
		CO6. Enable the students to assess stress and its coping		
		CO7. Measure and interpret achievement test, stress and		
		coping levels		
		CO8. Select appropriate test to measure attitude,		
		behaviour and discuss the results		
	CONSUMER	Course Learning Outcome After completion of the		
3.	BEHAVIOR AND	consumer behaviour and advertising course, students		

	ADVERTISING	will be able to:
		CO1. Explain the field and scope of consumer
		behaviour and impact of new technology on marketing
		strategies
		CO2. Outline the different aspects of research in the
		field of consumer process
		CO3. Apply concepts of motivation and perception on consumer behaviour
		CO4. Explain the features, goals, functions, types and models of advertising
		CO5. Determine the framework in advertising, role of
		media in advertising and ethical standards in advertising
SEMES	TER - V	
		Course Learning Outcome After completion of the
		abnormal psychology - I course, students will be able to:
		CO1. Distinguish between normal & abnormal behavior
		and outline the historical background and need for
		classification CO2. Summarize the various models of
	ADMODMAI	abnormality
1.	ABNORMAL PSYCHOLOGY–I	CO3. Identify clinical features and causes of
	181cHoLog1 1	neurodevelopmental disorder, conduct disorder &
		neurocognitive disorder
		CO4. Explain the clinical features and causal factors of
		anxiety related disorder
		CO5. Outline the clinical features and causal factors of
		somatic and dissociative disorder
	COCIAI	Course Learning Outcome After completion of the
2.	SOCIAL	Course Learning Outcome After completion of the

	PSYCHOLOGY-I	Social Psychology I course, students will be able to:
		CO1. Outline the nature, history, principles and scope of
		social psychology and methods used in social
		psychology research
		CO2. Illustrate the significance of self- presentation
		behaviors in relation to the multifaceted development of the self
		CO3. Infer the interconnections between attitude and
		behavior
		CO4. Compare the reasons of conformity, compliance and obedience
		CO5. Summarize the conditions promoting helping
		behavior and infer conditions of bystander effect
	INTRODUCTION TO RESEARCH METHODOLOGY	Course Learning Outcome After completion of the
		Introduction to research methodology course, students
		will be able to:
		CO1. Explain the needs, objectives, importance,
		problem and process of research based on review of
		literature
3.		CO2. Identifying research problems and formulating
		hypothesis
		CO3. Distinguish between the different types of
		sampling CO4. Examine the methods used in data
		collection
		CO5. Demonstrate an understanding of writing a
		research report
4	HEALTH	Course Learning Outcome After completion of the
4.	PSYCHOLOGY	health psychology course, the student will be able to:

5.	SPORTS PSYCHOLOGY	CO1. Outline the definition and scope of Health Psychology CO2. Explain the various models of health behavior CO3. Identify types of pain, symptoms of illness and suitable intervention CO4. Summarize theories of stress, sources of stress and coping CO5. Explain health promoting strategies Course Learning Outcome After completion of the Sports Psychology course, students will be able to: CO1. Explain the need, importance and research methods in sports psychology CO2. Relate physical activity and Mental Health CO3. Describe the nature, measurement of attitude towards sports behavior CO4. Classify various abilities and skills CO5. Explain the prevalence, etiology and intervention
		of alcohol and drug use among athletes
SEMESTER - VI		
1.	ABNORMAL PSYCHOLOGY-II	Course Learning Outcome After completion of the abnormal psychology - II course, students will be able to: CO1. Explain the causes of unipolar and bipolar disorder and treatment CO2. Outline the clinical feature, causal factor and treatment of schizophrenia and other psychotic disorder CO3. Summarize types, causes and treatment of Personality disorder

	CO4. Explain the types, causal and treatment of	
		substance related disorder
		CO5. Identify the different types of prevention and
		summarize the different models of therapies
		Course Learning Outcome After completion of the
		social psychology - II course, students will be able to:
2.	SOCIAL PSYCHOLOGY-II	CO1. Outline the theories of persuasion and illustrate the factors in resisting persuasion CO2. Determine the influence of various group behaviors in relation to individual's performance CO3. Outline the nature, sources and consequences of prejudice and illustrate methods to counteract effects of prejudice CO4. Summarize the theories of aggression and strategies to regulate aggression CO5. Identify the dynamics of intimate relationships in relation to internal and external sources of attraction
3.	INTRODUCTION TO THEORIES OF PERSONALITY	Course Learning Outcome After completion of the Introduction to theories of personality course, students will be able to: CO1. Explain the concept, assessment, measurement and research methods of Personality CO2. Outline the various psychoanalytic perspectives of Personality CO3. Summarize the life span and trait perspective of Personality CO4. Outline the existential humanistic perspective of Personality

	CO5. Explain Behavioural, Cognitive and Social	
		perspectives of personality
		Course Learning Outcome After completion of the
		Guidance and counselling Psychology course, students
		will be able to:
		CO1. Identify the need and importance of counselling in
		the current context
		CO2. Explain the various approaches in counselling and
4	GUIDANCE AND	the types, uses & diagnosis in counselling process
4.	COUNSELLING PSYCHOLOGY	CO3. Summarize the interpretation of psychological
	15101102001	tests in counselling
		CO4. List the qualities of an effective counsellor
		CO5. Identify the special areas of counselling
		CO6. Spell out the ethical guidelines laid down by the
		American Psychological Association and the role of
		counsellor in promoting good Mental Health
		Course Learning Outcome After completion of the
		human resource management course, students will be
		able to:
		CO1. Outline the basic concepts of human resource
		management
		CO2. Relate the need for job analysis in relation to
5.	HUMAN RESOURCE MANAGEMENT	Human Resource Planning and Recruiting
	WINTERNA	CO3. List strategies for analysing training needs and
		developing employees
		CO4. Explain the techniques of performance appraisal
		CO5. Spell out how stress management, conflict
		management and employee empowerment help in
		employee motivation

PROGRAMME: B. ScELECTRONIC MEDIA

1.PROGRAMME OUTCOMES (POs):

- PO 1. An ability to write and present a substantial technical report / document
- PO 2. Students should be able to learn and apply various creative techniques & critical thinking methods in media production and problem solving.
- PO 3. Students will be able to learn necessary skills required to produce various aspects of media content such as scripting, writing, direction and cinematography, for different mediums
- PO4. The student should be able to use the skills in the creative industry be it television channels, information technology, public relations, or corporate communication

PO5. The students should be able to simplify technical content in simple language and multimedia as part of technical communication.

2. PROGRAMME SPECIFIC OUTCOMES (PSOs):

- PSO1. The students will be exposed to photography, videography, and direction skills.
- PSO2. The students will be able to place in design, radio, Television, Film industrywith the relevant and on experience.
- PSO3. The students can plan, develop and implement communication for development projects at local, regional and global levels.
- PSO4. The students should be equipped with lots of soft skills required of many of the managerial and high-profile jobs.

S.NO	COURSE NAME	COURSE OUTCOME		
SEMESTER	SEMESTER: I			
		Students will acquire		
4	CORE-I:HISTORYOF	CO1.Knowledge of Electronic media and its		
1.	ELECTRONIC MEDIA	scope and its importance in various media Such as		
		radio, television, cinema and social media.		

		CO2.Knowledge of Information about various
		media organizations in India and their functions
		CO3.Knowledge of Broadcasting regulations in
		India and its governance in media.
		Students will acquire
		CO1. Knowledge of principles of sound,
	CORE-II: PRINCIPLES OF	acoustics, soundequipments, sound aesthetics and
2.	AUDIOGRAPHY	sound production.
		CO2. Knowledge of Strategies in designing
		sound, digital recording, Synchronization and
		functions of sound in relation to picture.
		Student will acquire
		CO1. Knowledge of types of microphones, sound
	ALLIED I. AUDIOCDADUV	recording formats, mixers and
3.	ALLIED-I: AUDIOGRAPHY LAB	consoles, sound editing and special effects
		CO2. Knowledge of technical expertise in
		handling appropriate software in sound
		Editing.
SEMESTER	: II	
		Student will acquire
	CORE-III: COMMUNICATION SKILLS	CO1. Knowledge of communication and its
		nature, scope and types. Verbal and non- verbal
1.		communication
		CO2. Knowledge of communication for social
		change, alternative media for social change and
		case studies in communication skills.
2.	CORE-IV:RADIO PRODUCTION	Student will acquire
		CO1. Knowledge of radio stations, basics of radio
		programming, radio station organization
		CO2. Knowledge of radio formats and styles and
		advanced radio production techniques.
		advanced radio production techniques.

		Student will acquire
		CO1.Knowledge of Radio announcing, radio
	ALLIED II DADIO	commercial, drama, interviews, news,
	ALLIED-II:RADIO PRODUCTION LAB	documentary and live shows
3.		Radio Announcing Practice: Drills, Commercials
		Drama, Interviews, News and Public Affairs
		Radio DocumentaryCovering Live Shows (music
		concert or sports)
SEMESTER	III	<u> </u>
		Student will acquire
		CO1. Knowledge of human eye and camera,
		video camera design and functions, nature of light
		and its resources
1.	CORE-V: VIDEOGRAPHY	CO2. Information about lighting procedure in
		indoor and outdoor, aesthetics of videography and
		framing techniques and different lighting formats
		CO3.Knowledge of works of eminent
		cinematographers in the industry.
	CORE-VI:VIDEOEDITING (PRINCIPLES AND PRACTICES)	Student will acquire
		CO1. Knowledge of fundamentals of editing,
		editing equipments and functions, linear and non-
		linear editing functions
2.		CO2. Information of Standards in sound editing,
		editing accessories, aesthetics of editing, mixing
		of sound and visuals
		CO3. Knowledge of Latest Editing Softwares and
		their Applications.
3.	CORE-	Student will acquire
	XII:VIDEOLABPRACTICAL	CO1. Knowledge of making documentary films
		CO2. Knowledge of documenting the facts in the

		social perspective and writing draft for documentary.
SEMESTER	IV	
		Student will acquire
		CO1. Knowledge of history of film, early cinema,
		cinema after the coming of sound
		CO2. Knowledge of cinema in the third world and
1	CODE VILEII MCTUDIEC	national, regional cinemas
1.	CORE-VII:FILMSTUDIES	CO3.Knowledge of Techniques in
		cinematography, budget and production process,
		CO4. Knowledge of digital distribution of
		cinema, film forms and post production
		techniques
		Student will acquire
	CORE-VIII:ACTING AND DIRECTION	CO1. Knowledge of acting, scriptwriting basics
		and its formats, storyboard
		CO2. Knowledge of direction basics and its
		techniques
		CO3. Knowledge of TV direction and its
2.		techniques
		CO4. Knowledge of Logistics management,
		production management and film certification
		process
		CO5. Knowledge of OTT Platforms and digital
		release and digital cinema projection packages.
3.	ALLIED-IV: SCRIPTWRITING LAB	Student will acquire
		CO1. Knowledge of writing scripts and its
		formats and script writing concepts
		CO2. Writing Scripts in different Formats and

		Audiences (Fiction, Non-fiction,non-scripted programmes)
		CO3. Record should contain at least THREE different scripts in each format.
SEMEST	TER V	
1.	CORE-IX:TELEVISION PRODUCTION MANAGEMENT	Student will acquire CO1.Knowledge of Television production management and production environment CO2. Knowledge of pre-production process planning and research. CO3.Knowledge of single and multi-camera operations in Television CO4. Knowledge of post-production process in television, budgeting and talent management.
2.	CORE-X: COMMUNICATION AESTHETICS	CO1.Knowledge on Communication aesthetics 2D and 3D field and its applications in visual media CO2.Knowledge of Light and shade and colou and its terminologies and lighting techniques and lighting equipments and accessories in depth CO3.Knowledge of fourth dimensional field time, objective time and subjective time and editing principles in relation to time, screen time and real time CO4.Knowledge of fifth dimensional field, sound structures and sound picture combinations
3.	CORE-XI:GRAPHICS AND ANIMATION	CO1. Knowledge of graphics and animation basics of digital technologies, aesthetics and design of computer graphics

		CO2. Knowledge of CG Application areas and
		equipment, CG Standards and Formats
		CO3. Knowledge of 2D images and graphics, 3-D
		Modeling, rendering color and rendering models
		CO4.Knowledgeof animation, dynamics,
		multimedia systems, products and platforms
		Recent Developments in software and hardware
		systems.
		Student will acquire
	CORE-XI:VIDEO	CO1. Knowledge of making documentary films
4.	PRODUCTION PRACTICAL	CO2. Knowledge of documenting the facts in the
		social perspective and writing draft for
		Documentary.
		Student will acquire
		CO1. Knowledge of technical expertise in
		handling the industry-standard non-linear video
		editing soft wares and familiar with linear editing
_	ELECTIVE-I:VIDEO	equipment and functions
5.	EDITING PRACTICAL	CO2.Familiarity with Linear Editing Equipment
		and Functions
		CO3.Practical Sessions using appropriate
		industry-standard non-linear editing software
		(FCP/Avid/Davinci/ Resolve).
SEMESTER	VI	
	CORE-XIII:MEDIA ORGANIZATION	Student will acquire
1.		CO1. Knowledge of nature and structure of Media
		organizations, private satellite channels,
		production houses, employment opportunities in
		Indian media industry
		CO2. Knowledge of media economics, state of the
		industry today

		CO3. Knowledge of media project management,
		production project cycle, risk and impact
		assessment, budgeting and project responsibility
		CO4. Knowledge of different kinds of contracts
		and legal arrangements in media projects.
		Student will acquire
		CO1. Knowledge in understanding
		communication, culture and society, mass media
		and characteristics, media effects, power of
		media, Indian media, audience theories
	CORE-XIV:	CO2. Knowledge of media and text, Marxism,
2.	COMMUNICATION CULTURE AND SOCIETY	semiotics, sociology and psychoanalysis and
		media and realism, social construction of media
		CO3. Knowledge of Media rhetoric, myth,
		cultural studies, audience positioning and critical
		autonomy, popular culture and media, popular
		text, and people's culture.
		Student will acquire
		CO1. Knowledge from media industry practical
3.		training and hands on exposure to media practice
	CORE-XV: INTERNSHIP	from the leading organizations in television, radio,
		social media, film making, animation industry,
		special effects lab, video and audio editing
		studios.
		Student will acquire
4.	ELECTIVE-II:3D	CO1. Knowledge and technical expertise in
	ANIMATION	advanced animation software and its
		applications in the industry
	1	

		Student will acquire
		CO1. Knowledge of Technical expertise through
		the project submission in various production
5.	ELECTIVE-III: PROJECT	process involved like video camera handling,
		editing, radio andaudio production, multimedia
		production, directing short films, visual effects
		and TV production.

PROGRAMME: B.Sc VISUAL COMMUNICATION

PROGRAMME OUTCOMES (POs):

PO1: Creative Thinking: Take informed actions after identifying the assumptions of the visual medium implications and evaluating the validity & usefulness of the decisions taken.

PO2: Effective Communication: Speak, read, write and listen in English and one Indian language and communicate effectively and interact with people.

PO3: Social Interaction: Draw out view of others, moderate lack of agreement and lend hand to reach views and executing the ideas through the visual medium.

PO4: Ethics: Be socially responsible increasing media content and realize its impact on the society, not forgetting the value soft he society.

PO5: Life-long learning: Acquire the ability to continuously keep updated in the latest trends and technologies of modern and new media. The learner must be dynamic and prepared for employment in complex, ever – changing environments in the media industry. The learner must have the ability to express thoughts and ideas effectively in written, oral and in technical communication. The learner must have the ability to work with team members in the corporate media industry.

PROGRAMME SPECIFIC OUTCOMES (PSOs):

PSO1: Understand the basic nature and basic concepts of Development of Visual Communication, Media Laws and Ethics, Media Economics, New Media Technology, Media Language, Media Research, International Media, Media Content and Dissertation on any media issue.

PSO2: Understand the applications of Photography, 3DAnimation, Audio and Video Production, Radio & Television Technology and Computer Animation including Cinema.

PSO3: Perform procedures as per laboratory standards in the areas of Drawing and Graphic designing, Advance Photography, Video Editing, Scriptwriting, Computer Graphics, Web Designing & Development, Graphics and Animation, Documentary Film Making.

PSO4: Understand the concepts of Elements of Film, Media Culture and Society, Advertising and Corporate Communication, Cable & Satellite Communication, Production Management, Communication Skills and Media Organization.

PSO5: Analyze the fundamentals of computers and their usage in the areas of 2D, 3D graphics & ANIMATION, Television, and film production.

S.NO	COURSE NAME	COURSE OUTCOME	
SEMES	SEMESTER - I		
		CO1.Understand basics of communication and models of	
		Communication	
	INTRODUCTION TO	CO2.Understand the process of communication and levels of	
		communication	
1.	VISUAL	CO3.Understandthefundamentalsofdesignanddesignelements	
	COMMUNICATION	CO4.Get thorough knowledge in types of Perceptions,	
		Illusions	
		CO5.Get in to basics of Graphic Design and its elements	
SEMES	STER – II		
	COMMUNICATION SKILLS	CO1. Understand theories and models of Interpersonal	
		Communication	
		CO2. Get in depth knowledge in Group communication	
		theories and models.	
		CO3. Understand how to communicate in public and models	
1.		related to public communication	
		CO4.Understand what is non-verbal communication and its	
		theories and models	
		CO5.Get knowledge on Thinking techniques and more about	
		audiences.	

SEMES	STER - III	
		CO1. Understand the basics of Advertising, its role and
		functions.
		CO2. Understand the advertising based on target audience.
		CO3.To get into the latest trends in advertising and
	ADVERTISING	advertising agency.
1.	ADVERTISING	CO4.Understand communication plan, media strategy and
		brand management.
		CO5.Understand how to visualize, concept development and
		layout. Also get knowledge in typography.
		CO1.Understand what is Aesthetic and Design and
		Communication.
		CO2. Understanding the Computer Technologies,
	COMMUNICATION	Communication design and Commercial advertising and its
	AESTHETICS	application.
2.		CO3. Get knowledge on Info graphics and Layout Design.
		CO4.Understand the Design for Social media application
		CO5. Understand Psychological factor, the role played by
		Colour in graphic design
SEMES	STER – IV	
		CO1.Understand development of world film in different
		periods.
		CO2.Understand the concept of pre-production, Production
		and Post production Techniques.
1.	ELEMENTS OF FILM	CO3.Understand the basics of mise-en-scene,
		Cinematography, editing and sound.
		CO4.Understand the concepts in film and different genres of
		film.
		CO5.Understand the elements of film

		GO1 T
		CO1.To understand the basics of still camera and its
		operational procedure. To know the evolution and types of
		cameras.
		CO2. To understand different types of lighting and know the
		exposure values, light control procedures and flash
		photography.
		CO3. The students will understand the sensitivity of the
		film, colour temperature, the impact of chroma photography
		and colour manipulation.
2.	BASIC PHOTOGRAPHY	CO4.The students will have an idea about the different
		stages of developing and printing of colour and chroma
		photography. They will have the idea of different equipment
		to undergo print processing. Cropping, trimming and
		manipulation techniques using software programs are learnt
		CO5.To understand the nuances of shooting aesthetically.
		They are trained to write photographessays, features and
		know how to undergo investigative journalism using
		photography which is called Photojournalism
CENTER OF		
SEMES	STER - V	
		CO1.To understand mass media effects and influence on to the
		culture and society. To know the Nature and power of mass
		media and its scope
		CO2. To understand the psychology of the active and passive
	MEDIA CULTUDE AND	audience based on different theories and models.
1.	MEDIA, CULTURE AND SOCIETY	CO3.To understand the various approaches to Marxist theory.
		The portrayal of media and realism in the case of class, gender,
		race, age, minorities, and children rights, etc.
		CO4.To understand that the media as an industry which create
		the media text for the society. To understand the cultural studies
		and approach es of media to influence the different types of

	audience	
		CO5. To understand the scenario of popular culture. The
		evolution of culture over the period. About the factors which
		creates impact on the popular culture.
		CO1.To understand the various types of visualization. Different
		stages of film making and various departments and their
		responsibilities
		CO2. This unit talks about the various film scripts, story boards,
		and the works involved in pre- production of a film.
		CO3.To understand and learn different types of video camera s
	TELEVISION PRODUCTION	and recording formats. Knowledge on various types of indoor
2.		lights and floor arrangement and shooting of different in
		door programmes.
		CO4.To understand and train on the various sound
		engineering and recording techniques.
		CO5.To understand the post-production process
		and its nuances in completing the film.
		1 0
SEMES	STER - VI	
		CO1. To understand the business of Media organization and
		entrepreneurship.
		CO2.To understand the various types of media organizations
		from small to medium and bigger to larger organization. To
		have knowledge about all the media firms like Newspaper,
1.	MEDIA	TV, Radio, Cinema and online medium.
1.	ORGANIZATION	CO3.To understand the current scenario of the economic
		status and the supplier-buyer relationships. To know about
		the current media market trend.
		CO4. To know the techniques of Project Management in
		Media and budgeting strategies for a Project. Understand the

	different kinds of legal arrangements for a contract project.
	CO5.To understand the media programming strategies and
	analysis of the audience.

Programme Name: Bachelor of Commerce(Accounting & Finance)

- PO1. To receive a thorough knowledge of the fundamentals and a quality education in all the core subjects essential for an undergraduate degree in Commerce.
- PO2. To build entrepreneurial skills required for innovation and creation of ideas.
- PO3. To develop effective communication skills and contemporary IT knowledge essential for joining the workforce or for further higher education.
- PO4. To be trained in the development of ethical, moral & human values in order to contribute to the well being of the society
- PO5. To acquire skills for the development of sustainable goals aligned to global, national & social issues.
- **PO6.** This course emphasizes on managing accountancy and financial part of business.
- **PO7.** It promotes students to become professionals / managers / entrepreneurs / accountants.
- PO8. To develop leadership skills and the ability to work with groups for a common cause.
- PO9. To acquire the ability for critical thinking through the development of cognitive and decisionmaking skills and an attitude of positive and lifelong learning in order to succeed in a dynamic environment.

Programme Specific Outcome (PSO)

- **PSO1**. It enables students to understand fundamentals of accounting, taxation, costing, financial management, auditing, management accounting etc.
- PSO2. Have exposure to computerized accounting and current trends in accounting and finance.
- PSO3. Have exposure to solving real time, practical problems/cases, which will form part of skill assessment relating to a) Cost Accounting b) Taxation c) BRS d) Rectification of errors e) final accounts of a partnership firm / Company
- **PSO4.** It motivates students to do research work in the field of finance.
- **PSO5.** It motivates students to pursue higher studies like Chartered Accountancy, Cost Accountancy, MBA in Finance, Company Secretary, M.Com in Accountancy, ACCA (Association of Chartered Certified Accountants) etc.
- PSO6. Be able to critically evaluate and analyze financial statements.

PSO7. It enhances students communication skills, social skills, computer skills as well. This programme also updates students with business & corporate laws and business economics.

S.NO	COURSE NAME	COURSE OUTCOME	
SEMEST	SEMESTER - I		
		CO1. To enable the students to learn principles and	
		concepts of Accountancy	
		CO2. Students are enabled with the Knowledge in	
		the practical applications of accounting	
		CO3. The student will get thorough knowledge on	
1.	Financial Accounting	the accounting practice prevailing in partnership	
		firms and other allied aspects	
		CO4. To find out the technical expertise in	
		maintaining the books of accounts	
		CO5. To encourage the students about maintaining	
		the books of accounts for further reference.	
		CO1. To know the importance of effective financial	
		planning and its impact on profitability	
		CO2. Understand Various sources of finance with	
	Financial Planning & Performance	their utilization, based on the cost of capital	
		CO3. Take sound investment decisions based on	
2.		proper appraisal	
		CO4. Understand cost behaviour and its effect on	
		financial planning	
		CO5. Understand various types of budgets and use	
		the one most suited to the organization	
3.		CO1. To Identify key principles in business	
	Business Communication	communication	
		CO2. Identify other common methods of	
		professional communication	

		CO3. To Find the best media to present the
		message
		CO4. Identify ways to make information more
		accessible to your audience
SEMEST	ER - II	
		CO1. Articulate measurement issues related to the
		covered topics; and locate and implement the
		disclosure requirements related to the covered
		topics
		CO2. Apply IFRSs in the preparation of general
	A 1 1 17* 1	purpose financial statements
1.	Advanced Financial Accounting	CO3. Explain details relating to general purpose
		financial statements
		CO4. Prepare general purpose financial statements
		for designated entities, including the exercise of
		professional judgment
		CO1. Able to apply the concepts & principles of
		management in real life industry.
		CO2. Able to design & develop organization chart
		& structure for an enterprise.
		CO3. Able to apply the concepts of HRM in
2.	Principles of Management	Recruitment, Selection, Training & Development.
		CO4. Observe and evaluate the influence of
		historical forces on the current practice of
		management.
		CO5 Frankin harman i di ala
		CO5. Explain how organizations adapt to an

		uncertain environment and identify techniques
		managers use toinfluence
		CO1. Understand various Financial Analytics
		Pricing Models
		CO2. Get acquainted with Financial Securities
		Analytics
	Financial Analytics and	CO3. Financial Risk Analytics using Time Series
3.	Control	Forecasting
		CO4. Develop an understanding of descriptive and
		predictive analytics
		CO5. Apply data-driven, machine learning
		approaches for business decisions
SEMEST	ER - III	•
		CO1. Enabling the students to understand the
		features of Shares and Debentures
		CO2. Develop an understanding about redemption
		of Shares and Debenture and its types
	Corporate Accounting	
1.	Corporate Accounting	CO3. To give an exposure to the company final
		accounts
		CO4. To provide knowledge on Goodwill
		CO5. To get a knowledge about the Alteration of
		Share capital and Reduction of share capital
		CO1. Able to identify and evaluate financial
		tements.
		CO2. Describe how the rules of corporate financial
		porting effect the application of standards.
2.	Financial Reporting	CO3. Identify assumptions, evaluate statements
	1 mmount reporting	terms of evidence, to detect false logic or reasoning,

		identify implicit values, and to CO4. Have the ability
		interpret information based on scientific analysis.
		CO1. To disseminate knowledge among the
		students with theoretical structures about banking
		and insurance.
		CO2. To train and equip the students with the skills
		of modern banking and insurance is run.
	Banking Theory Law and	CO3. Students will be taken for trainings to banks
	Practice	and insurance companies.
3.		CO4. To develop and inculcate the traits of
		professionalism amongst the students.
		professionalism amongst the students.
		CO5. Professional attire, professional
		communication skills and professional discipline
		will be inculcated
		CO1. Understand the basic concept of rural/urban,
		its interlinkages and the basic concept of economics
		CO2. Familiarize the rural economy structures and
		present their country-specific structure in the
		discussion
	Rural Economics	CO3. Acquaint the students on the economic
4.		theories and try to contextualize in rural context
		CO4.Understand interconnections between rural
		economy and farming, types of rural industries and
		interconnections with industrialization
CER AND CER	ED W	
SEMEST	ER - IV	

1.	Advanced Corporate Accounting	CO1. To familiarize the concept of price level changes, social responsibility accounting and human resources accounting CO2. Enable the students to understand about amalgamation, absorption and external Reconstruction CO3. To make them aware about accounting procedures of banking companies and Insurance Companies CO4. Enable the students to gain an idea of liquidation of companies CO5. To introduce and develop knowledge of Holding Companies and Subsidiary Companies accounts
2.	Corporate & Business Law	CO1. Demonstrate an understanding of the Legal Environment of Business. CO2. Apply basic legal knowledge to business transactions. CO3. Communicate effectively using standard business and legal terminology.
3.	Working Capital Management	CO1. Evaluate comparative working capital management Policy CO2. Balancing firms' profitability, liquidity, and risk and operating flexibility

		CO3. Investigate cash flow cycles & working
		capital cycles.
		CO4. Formulation of optimum inventory and
		receivables management plan.
		CO5. Showing the impact of working capital policy
		on firm's operations, etc.
		CO1. Understand the major models of international
		trade and compare and contrast them.
		CO2. Understand the principle of comparative
		advantage, including its formal expression.
4.	International Economics	
		CO3. Analyze the linkages between trade, labor
		and capital movements, international fragmentation
		of production, economic well-being and the income
		distribution and to identify and critically examine
		policy implications of these linkages.
SEMEST	ER - V	<u>I</u>
		CO1. Understand the several cost concepts
		involved in business
	Elements of Cost Accounting	CO2. Recognize the importance of material issues
1.		and its pricing
		CO3. Apply the methods implicated in cost for a
		better industrial performance
		CO4. Construe the impact of the select cost method
2.	Practical Auditing	CO1. Critically evaluate the role and
		responsibilities of the external auditor, the audit
		process and the evidential base for making audit
		judgments, including broader assurance
		assignments such as environmental audits.

		CO2. Appraise the legislative and professional provisions (auditing standards and ethical guidelines) that constitute the regulatory framework for the conduct of external auditing. CO3. Formulate how the auditor obtains an
		understanding of the entity and its environment, when planning and assessing the risk of the audit.
		CO1. Provide an understanding of the taxation of business activity
	Income Tax Law & Practice -	CO2. Illustrate the ways in which these principles are currently applied in key jurisdictions
3.		CO3. Understand the current application of general taxation principles
	_	CO4. Be aware of the potential impacts of taxation on the decision making
		CO5. Extend their knowledge from other business subjects by adding the dimension of taxation in greater detail.
4.	Portfolio Management	CO1. Analyze and evaluate financial markets, how securities are traded, mutual funds, investment companies, and investor behavior. CO2. Construct optimal portfolios and illustrate the theory and empirical applications of asset pricing models.

		CO3. Analyze bond prices and yields and fixed-
		income portfolios.
		CO4. Characterize the implications of the market
		efficiency evidence on active portfolio
		management.
SEMEST	ER - VI	
		CO1. To know about the preparation of Cost sheet
		of business concerns
		CO2. To get the knowledge about the preparation
		of cost control
1.	Advanced Cost Accounting	CO3. To understand the methods of payment in
		wages
		CO4. To extend the knowledge through the
		preparation of overheads and machine hour rates
		CO1. To understand the basic concepts and
		processes used to determine product costs,
		CO2. To be able to interpret cost accounting
2.	Management Accounting	statements,
		CO3. To be able to analyze and evaluate
		information for cost ascertainment, planning,
		control and decision making
		CO1. Provide an understanding of the taxation of
		business activity
	Income Tax Law & Practice - II	CO2. Illustrate the ways in which these principles
3.		are currently applied in key jurisdictions
		CO3. Understand the current application of general
		taxation principles
		CO4. Be aware of the potential impacts of taxation
		on the decision making
4.	Capital Markets	CO1. Students able to explain the concepts of

		pital market
		CO2. Solve the problems arisen in capital
		market.
		CO3. Analyze the process related capital
		market
		CO4. Prepare the evaluation rapport on
		capital markets.
		CO1. To give an idea about fundamentals of
	Financial Services	financial services and players in financial sectors
		CO2. To create an awareness about merchant
		banking, issue management, capital markets and
		role of SEBI
		CO3. To understand the concept of leasing, hire
5.		purchase and factor
		CO4. To provide knowledge about leasing and hire
		purchase concepts
		CO5. To make them understand about different
		types of mutual funds and the institution
		involved

Programme Name: BBA

- **POI.** Graduates will be business leaders and managers with leadership and problem-solving skills for global business.
- **PO2.**Provides a wide knowledge of all disciplines of the course and training in management of both animate and inanimate entities and develops leadership skills.
- **PO3**. Graduates will drive entrepreneurship initiatives either on their own or within other organizations where they are employed.
- PO4. Makes students capable of recognizing and resolving ethical issues
- PO5. Graduates will have innovation skills and drive the businesses through multifaceted skills.

PO6. Graduates will provide advancement of conceptual and practical knowledge in the field of business management to contribute to nation building while upholding ethical practices.

Programme Specific Outcome (PSO)

- **PSO1**. Understanding and operating with ethical and professional responsibility
- **PSO2.** Ability to communicate effectively and function efficiently on multidisciplinary teams.
- **PSO3.** Ability to use modern management principles and tools needed in contemporary business within the bounds of practical Constraints such as economic, environmental, social, Political, ethical, health and safety and sustainability.
- **PSO4.** Innovate and Develop skills to be a life-long learner for a globalized business for future.
- **PSO5.**Providing an opportunity for the students to gain practical exposure towards the workplace and make them industry ready.
- **PSO6.** Promotes entrepreneurship by providing understanding of the fundamentals of creating and managing innovation, new business development, and high-growth potential entities.

COURSE OUTCOME:

S.NO	COURSE NAME	COURSE OUTCOME
SEMESTER - I		
		CO1. Able to apply the concepts & principles of
		management in real life industry.
		CO2. Able to design & develop organization
		chart & structure for an enterprise.
		CO3. Able to apply the concepts of HRM in
		Recruitment, Selection, Training &
_	1. PRINCIPLES OF MANAGEMENT	Development.
1.		CO4. Observe and evaluate the influence of
		historical forces on the current practice of
		management.
		CO5. Explain how organizations adapt to an
		uncertain environment and identify techniques
		managers use to influence
2.	FINANCIAL	CO1. To enable the students to learn principles
	ACCOUNTING	and concepts of Accountancy

		CO2. Students are enabled with the Knowledge
		in the practical applications of accounting
		CO3. The student will get thorough knowledge
		on the accounting practice prevailing in
		partnership firms and other allied aspects
		CO4. To find out the technical expertise in
		maintaining the books of accounts
		CO5. To encourage the students about
		maintaining the books of accounts for further
		reference.
		CO1. Students will be skilled in critical thinking
		and decision-making, supported by economic
		principles and best practices in business.
		CO2. Students will have the ability to use data to
		inform economic and business decision making.
		CO3. Students will be able to put together
	MANAGERIAL	quantitative reports as well as to evaluate reports
2		put together by others.
3.	ECONOMICS	CO4. Students will be effective communicators,
		confidently using appropriate terminology in oral
		and written form.
		CO5. Students will be able to comprehend
		economics-related writing.
		CO6. Students will be able to work effectively in
		teams and to address strategic and organizational
		challenges.
SEMEST	ER - II	
		CO1. To Identify key principles in business
1	BUSINESS COMMUNICATION	communication
1.		CO2. Identify other common methods of
		professional communication

		CO3. To Find the best media to present the
		message
		CO4. Identify ways to make information more
		accessible to your audience
		CO1. To understand the basic concepts and
		processes used to determine product costs,
		CO2. To be able to interpret cost accounting
2.	MANAGEMENT ACCOUNTING	statements,
	ACCOUNTING	CO3. To be able to analyze and evaluate
		information for cost ascertainment, planning,
		control and decision making
		CO1. Understand, at the level of formal analysis,
		the major models of international trade and be
		able to distinguish between them in terms of their
		assumptions and economic implications
	INTERNATIONAL TRADE	CO2. Understand the principle of comparative
		advantage and its formal expression and
		interpretation within different theoretical models
		CO3. Be familiar with, and be able to critically
		analyse the main arguments for protection and
3.		conversely be able to critically evaluate the
		relevance and realism of arguments for free trade,
		taking into account the costs and benefits of trade
		policy measures on different sections of the
		community and the implications for the
		formulation of trade policy
		CO4. Be familiar with the major recent
		developments in the world trading system, and be
		able to critically analyse key issues raised both
		by the current round of WTO negotiations and by

		the spread of regional trading arrangements
		CO5. Develop communications skills through the
		presentation of your work, interactions during
		tutorial sessions, and appropriate use of the
		discussion
SEMEST	ER - III	
		CO1. Understanding the basics of Financial
		Management.
		CO2. Enabling students to understand the
1.	FINANCIAL MANAGEMENT	concepts of the Investment, Financing and
	WANAGEMENT	Working Capital.
		CO3. Students get knowledge about effective
		finance management.
		CO1. Demonstrate the applicability of the
		concept of organizational behavior to understand
		the behavior of people in the organization.
	ORGANIZATIONAL BEHAVIOUR	CO2. Demonstrate the applicability of analyzing
		the complexities associated with management of
		individual behavior in the organization.
2.		CO3. Analyze the complexities associated with
		management of the group behavior in the
		organization.
		CO4. Demonstrate how the organizational
		behavior can integrate in understanding the
		motivation (why) behind behavior of people in
		the organization.
3.		CO1. Apply computer resources for use in
	COMPUTER	business and academics.
	APPLICATIONS IN BUSINESS	CO2. Construct business and academic
		documents using Microsoft Word.
		CO3. To create spreadsheets with formulas and

		graphs using Microsoft Excel.
		CO4. Develop presentations containing
		animation and graphics using Microsoft
		PowerPoint.
		CO5. To understand DBMS, EDI, Internet basic
		concepts and its applications.
		CO6. To familiarize about Information system
		audit.
		CO1. To extend the knowledge about the role
		and importance of marketing
		CO2. To get the knowledge about the marketing
		environment
		CO3. To understand the marketing segmentation
4.	MARKETING	and consumer behaviour
	MANAGEMENT	CO4. To extend the knowledge of pricing
		policies and marketing mix
		CO5. To enable the students to understand about
		the personal selling & sales promotions
		CO.6. Use the technology in marketing like MIS
		CO1: Know the most widely used probability
	BUSINESS STATISTICS	distributions and recognize them in applications.
		CO2: Know the main tools to describe the index
		numbers, such as the price and cost of living,
		CO3: Recognize the importance of the analyzing time
		series and understand when it is appropriate to use
5.		normal approximations for the distribution of a
		statistic.
		CO4: Be able to derive Sampling procedures and
		estimators.
		CO5: Be able to construct exact and approximate
		confidence intervals.
		CO6: Possess techniques of Hypothesis testing

		CO7: Learn to develop complex mathematical	
		reasoning.	
SEMEST	SEMESTER – IV		
		CO1. To get the knowledge about the Personnel	
		management	
		CO2. To extend the knowledge about the	
		placement and induction	
		CO3. To understand the training methods and	
1.	HUMAN RESOURCE	training needs	
	MANAGEMENT	CO4. To developing the knowledge of	
		remuneration and incentives of personnel	
		CO5. To enable the students to understand about	
		the environment of HRM	
		CO6. To know about the human resource audit	
		CO1. Students would recall various definitions	
		and would be able to evaluate the provisions of	
		Law of Contract, 1872.	
		CO2. Students would be able to examine various	
		provisions of Sale of Goods Act, which includes	
	BUSINESSREGULATORY FRAME WORK	formation, conditions and warranties in sale.	
2.			
2.		CO3. Students would be able to compare and	
		contrast different types of negotiable instruments	
		and its applicability in the money market.	
		COA Students would be able to relate and apply	
		CO4. Students would be able to relate and apply	
		various provisions related to Consumer	
		Protection Act. They would be aware of the	
		rights of consumer and various consumer forums.	
3.	FINANCIAL SERVICES	CO1. To give an idea about fundamentals of	

		financial services and players in financial sectors
		CO2. To create an awareness about merchant
		banking, issue management, capital markets and
		role of SEBI
		CO3. To understand the concept of leasing, hire
		purchase and factor
		CO4. To provide knowledge about leasing and
		hire purchase concepts
		CO5. To make them understand about different
		types of mutual funds and the institution involved
		CO1: Know the meaning of Operations Research,
		Scope and Characteristics, and to know by
		Graphical method, Simplex method.
	OPERATIONS RESEARCH	CO2: Find the basic feasible solution by
		Transportation problem, Assignment models.
4.		CO3: Reach the time, time calculation, Network
		Analysis, and its applications
		CO4: Find the Arriving rate and Service rateby
		using Queueing Models.
		CO5: Learn to develop the Probability using
		Baye's theorem, Decision theory, Game theory.
		CO1. The basic system concepts, types and its
		functions in business.
		CO2. To familiarize computer, its components
		and functions.
	MANAGEMENT INFORMATION SYSTEM	CO3. To provide learners with information at
5.		various levels in an organization.
		CO4. The key is to help classify the system based
		on categories and its advantages.
		CO5. To inculcate modern management aids to
		handle quantitative and qualitative information.
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		CO6. To develop analytic skill that help facilitate
		best course of action.
SEMEST	TER – V	
		CO1. Students able to Categorize business
		activities, such as production, management, and
		finance, and describe how these activities relate
		to marketing. •
		CO2. Describe the history of the advertising
		industry and its relation to today's marketplace.
		CO3. Explain the impact of multiculturalism and
		multi-generationalism on advertising marketing
	ADVERTAISING	activities.
1.	MANAGEMENT AND SALES PROMOTION	CO4. Identify the importance of understanding
		cultural diversity from a marketing perspective.
		CO5. Identify the expected wages and salaries for
		jobs in the advertising and marketing industry
		CO6. Identify sources of financial assistance for
		raising capital.
		CO7. Identify the role of professional
		organizations, trade associations, and labor
		unions in the advertising industry.
		CO1. Identify and discuss the role and
		importance of research in the social sciences.
		CO2. Identify and discuss the issues and concepts
		salient to the research process.
2.	RESEARCH MEDHODOLOGY	CO3. Identify and discuss the complex issues
		inherent in selecting a research problem,
		selecting an appropriate research design, and
		implementing a research project.
		CO4. Identify and discuss the concepts and

		procedures of sampling, data collection, analysis
		and reporting.
		CO1. Analyze and evaluate various facility
		alternatives and their capacity decisions, develop
		a balanced line of production & scheduling and
		sequencing techniques in operation environments
		CO2. Develop aggregate capacity plans and MPS
3.	MATERIALS MANAGEMENT	in operation environments.
		CO3. Plan and implement suitable materials
		handling principles and practices in the
		operations
		CO4. Plan and implement suitable quality control
		measures in Quality Circles to TQM
	ENTERPRENEURIAL DEVELOPMENT	CO1. Understanding the concept of
		Entrepreneurship and the effectiveness of
		manpower in Entrepreneurship.
4.		CO2. To provide students to knowledge about the
		preparation of project Report.
		CO3. Knowledge on Entrepreneurial
		Development Programmes and Agencies.
		CO1. Identify and Analyze Business Models,
		Business Strategies and, corresponding
		Competitive Advantage.
5.	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	CO2. Formulate and implement Warehouse Best
	MANAOEMENI	Practices and Strategies
		CO3. Plan Warehouse and Logistics operations

		for optimum utilization of resources	
SEMEST	SEMESTER - VI		
		CO1. Knowledge on Business Environment.	
		CO2. Identifying and understanding the factors	
1.	BUSINESS ENVIRONMENT	influencing the changes in the Business Climate.	
	ENVIRONMENT	CO3. To make student learn about the various	
		environment in particular influencing business.	
		CO1. Students will Appreciate the challenges	
		facing the services marketing in traditional	
		commercial marketing, e-marketing and non	
		commercial environments.	
		CO2. Students will Appreciate the difference	
		between marketing physical products and	
2.	SERVICE MARKETING	intangible services, including dealing with the	
		extended services marketing mix, and the four	
		unique traits of services marketing;	
		CO3.Recognise the challenges faced in services	
		delivery as outlined in the services gap model;	
		Develop professional business writing skills	
		CO1. Students gain knowledge on the Principles	
	BUSINESS TAXATION	of the Indirect Tax.	
3.		CO2. Exposure on the Tax system in India	
3.		CO3. Understanding of Customs Duty, Excise	
		Duty, CST, VAT, Service tax etc.	
		CO1. Benefits of CRM to companies and	
	CUSTOMER RELATIONSHIP MANAGEMENT	consumers	
4.		CO2. How to implement CRM best practices	
		CO3. The importance of bonding and building	
		loyalty with customers	

		CO4. How to build long term customer
		relationships
5.	E - BUSINESS	CO1. Students acquainted with basic e-business domain concepts, and different forms and ways of electronic business through examples of good practices, and to present modern business challenges and technical aspects of electronic business. CO2. Students equipped with basic skills of using contemporary information technologies and web services that support electronic business processes. CO3. Students able to applying the knowledge in creative solutions of concrete business problems by using information and communication technologies and web services.

Programme Name: B.COM -CA (COMPUTER APPLICATION)

- **PO1.** Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions.
- **PO2**. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic
- **PO3**. Develop and practice gender sensitive attitudes, environmental awareness, empathetic social awareness about various kinds of marginalisation and the ability to understand and resist various kinds of discriminations
- **PO4.** Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines.
- **PO5**. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective
- **PO6**. Acquire the ability to engage in independent and lifelong learning in broad context of socio-technological changes.
- **PO7.** Understand and recognised value system, moral dimensions and self responsibility for nation and society. Demonstrate personal and intellectual integrity and academic accountability. Collaborate respectfully with others, individually and in teams.

Programme Specific Outcome (PSO)

- **PSO1.**Understand the concepts and techniques of commerce and its application in business environment.
- **PS02**. Conceive the ideas on entrepreneurship and develop the skills for setting up and management of business organizations.
- PS03. Develop the skills and abilities to become competent and competitive in the business world.
- **PS04**. Develop the competency to take wise decisions at personal and professional level.
- **PS05**. Appraise the impact of other disciplines on the working of business.
- **PS06**. To make the students capable of managing the office activities with the help of information technology

COURSE OUTCOME:

S.NO	COURSE NAME	COURSE OUTCOME
SEMESTER - I		
1.	FINANCIAL ACCOUNTING	CO1. To enable the students to learn principles and concepts of Accountancy CO2. Students are enabled with the Knowledge in the practical applications of accounting CO3. The student will get thorough knowledge on the accounting practice prevailing in partnership firms and other allied aspects CO4. To find out the technical expertise in maintaining the books of accounts CO5. To encourage the students about maintaining the books of accounts for further reference.
2.	OFFICE AUTOMATION	CO1. Know the basics of computers and prepare documents, spreadsheets, make small presentations with audio, video and graphs and would be acquainted with internet. CO2. Create, edit, save and print documents with list tables, header, footer, graphic, spellchecker, mail merge and grammar checker CO3. Attain the knowledge about spreadsheet with

	formula, macros spell checker etc.
	CO1. Students will be able to understand and identify
	the economic variables in general business
	atmosphere.
	CO2. Students will perceive the knowledge about
	Economics at Micro level and various economic
	concepts such as Opportunity cost, Marginal
	Concepts, Demand Function and Law of Variable
BUSINESS ECONOMICS	Proportion
	CO3. Learners will comprehend the relationship
	between various policies of business.
	CO4. Student will accomplish the identical Short Run
	and Long Run Equilibrium of a firm and industry and
	also about different market structure and various
	pricing techniques
ΓER - II	
	CO1. Articulate measurement issues related to the
	covered topics; and locate and implement the
ADVANCED FINANCIAL ACCOUNTING	disclosure requirements related to the covered topics
	CO2. Apply IFRSs in the preparation of general
	purpose financial statements
	CO3. Explain details relating to general purpose
	financial statements
	CO4. Prepare general purpose financial statements
	for designated entities, including the exercise of
	professional judgment
	CO1. The core syntax and semantics of Python
	programming language.
PYTHON PROGRAMMING	CO2. Principles of Python and acquire skills in
	programming in python
	CO3. To develop the emerging applications of
	ADVANCED FINANCIAL ACCOUNTING PYTHON

		relevant field using Python.	
		CO4. Interpret the fundamental Python syntax and	
		semantics and be fluent in the use of Python control	
		flow statements.	
		CO5. Able to develop simple turtle graphics programs	
		in Python	
		CO1. Student able to understand the links between	
		household behavior and the economic models of	
		demand.	
		CO2. Student able to understand govt policies and	
		programs	
	INDIAN ECONOMY	CO3. Students understand the behaviour of	
3.		individuals and small organizations in making	
		decisions on the allocation of limited resources.	
		CO4. Students able to understand how planning and	
		infrastructure support can develop an economy.	
		CO5. Student understand the economic, operational	
		and financial framework with particular application to	
		the transaction of insurance business.	
		CO1. Understand various Financial Analytics Pricing	
		Models	
		CO2. Get acquainted with Financial Securities	
		Analytics	
		CO3. Financial Risk Analytics using Time Series	
4.	FINANCIAL ANALYTICS	Forecasting	
	AND CONTROL	CO4. Develop an understanding of descriptive and	
		predictive analytics	
		CO5. Apply data-driven, machine learning	
		approaches for business decisions	
-	SEMESTER - III		

		CO1. Enabling the students to understand the features
		of Shares and Debentures
		CO2. Develop an understanding about redemption of
		Shares and Debenture and its types
	CORPORATE	CO3. To give an exposure to the company final
1.	ACCOUNTING- I	accounts
		CO4. To provide knowledge on Goodwill
		CO5. To get a knowledge about the Alteration of
		Share capital and Reduction of share capital
		CO1. Introduce students to the study of law and how
		it governs conduct in business
		CO2.Recognize legal and ethical issues when
		making business decisions.
		CO3. Identify the nature and classification of
		contracts
		CO4. Identify general principles of illegality,
2.	BUSINESS LAW	agreements related to public welfare, and the
		regulation of business
		CO5. Identify contracts that must be in writing,
		effects of non-compliance, and the construction and
		interpretation of contracts
		CO6. Identify contracts that must be in writing,
		effects of non-compliance, and the construction and
		interpretation of contracts
		CO1. Describe the differences and similarities
		between manual and Computerized Accounting
3.	COMPUTERISED ACCOUNTING	CO2. Identify the system default accounts for vendors
3.		and update the Vendor Center
		CO3. Identify the system default accounts for
		customers and update the Customer Center

		Identify the two inventory systems and Update the
		Item List
		CO4. Create a new company file using the Easy Step
		Interview and establish preferences using the Quick
		Books Detailed Start method and Easy Step Interview
		window
		CO5. Create a new company file using Quick Books
		Express Start Window. Setting up company password
		CO1. Object Oriented Programming
		CO2. Developing programs with I/O Basics
		CO3. Ability to create programs using Functions,
4.	OOPS with C++	Pointers
		CO4. Passing Object To Functions ,Arrays Of
		Objects
		CO5. Over Loading, Constructors, Destructors
	BUSINESS STATISTICS	CO1:The students will be able to understand the
		concepts of business statistics
		CO2:To know the most widely used probability
		distributions and recognize them in applications.
		CO3: To know the main tools to describe Index
		Numbers such as price and cost of living.
		CO4: To make the students able to derive sampling
5.		procedures and estimators.
		CO5: To make the students to construct exact and
		approximate confidence intervals.
		CO6: To possess knowledge on the techniques of
		hypothesis testing.
		CO7: To enable the students to enhance complex
		mathematical reasoning.
SEMES'	TER - IV	
1		

		CO1. To familiarize the concept of price level
		changes, social responsibility accounting
		and human resources accounting
		CO2. Enable the students to understand about
		amalgamation, absorption and external
		Reconstruction
	ADVANCED CORPORATE	CO3. To make them aware about accounting
1.	ACCOUNTING	procedures of banking companies and Insurance
		Companies
		CO4. Enable the students to gain an idea of
		liquidation of companies
		CO5. To introduce and develop knowledge of
		Holding Companies and Subsidiary Companies
		accounts
		CO1. Able to apply the concepts & principles of
		management in real life industry.
	PRINCIPLES OF MANAGEMENT	CO2. Able to design & develop organization chart &
		structure for an enterprise.
		CO3. Able to apply the concepts of HRM in
2.		Recruitment, Selection, Training & Development.
		CO4. Observe and evaluate the influence of historical
		forces on the current practice of management.
		CO5. Explain how organizations adapt to an
		uncertain environment and identify techniques
		managers use to influence
		CO1. Analyze the impact of E-commerce on business
3.		models and strategy.
	E - COMMERCE	CO2. Describe the major types of E-commerce.
		CO3. Explain the process that should be followed in
		building an E-commerce presence.
		CO4. Identify the key security threats in the E-

		commerce environment.
		CO5. Describe how procurement and supply chains
		relate to B2B E-commerce.
		CO1. Gain knowledge about basic Java language
		syntax and semantics to write Java programs and use
		concepts such as variables, conditional and iterative
		execution methods.
		CO2. Understand the fundamentals of object oriented
4.	JAVA PROGRAMMING	programming in Java, including defining classes,
		objects, invoking methods etc and exception handling
		mechanisms.
		CO3. Understand the principles of inheritance,
		packages and interfaces
		CO1: Know the meaning of Operations Research,
		Scope and Characteristics, and to know by Graphical
		method,Simplex method.
	ELEMENTS OF OPERATIONS RESEARCH	CO2: Find the basic feasible solution by
		Transportation problem, Asssignment models.
5.		CO3: Reach the time, time calculation, Network
		Analysis, and its applications
		CO4: Find the Arriving rate and Service rateby using
		Queueing Models.
		CO5: Learn to develop the Probability using Baye's
		theorem, Decision theory, Game theory.
SEMES	TER - V	1
		CO1. Understanding the basics of Financial
1.	FINANCIAL MANAGEMENT	Management.
		CO2. Enabling students to understand the concepts of
		the Investment, Financing and Working Capital.
		CO3. Students get knowledge about effective finance
		management.
	<u> </u>	

		CO1. Understand the several cost concepts involved
		in business
		CO2. Recognize the importance of material issues
2.	ELEMENTS OF COST ACCOUNTING	and its pricing
	ACCOUNTING	CO3. Apply the methods implicated in cost for a
		better industrial performance
		CO4. Construe the impact of the select cost method
		CO1. Critically evaluate the role and responsibilities
		of the external auditor, the audit process and the
		evidential base for making audit judgments, including
		broader assurance assignments such as environmental
		audits.
3.	PRACTICAL AUDITING	CO2. Appraise the legislative and professional
		provisions (auditing standards and ethical
		guidelines) that constitute the regulatory framework
		for the conduct of external
		auditing.
		CO3. Formulate how the auditor obtains an
		understanding of the entity and its environment,
		when planning and assessing the risk of the audit.
		CO1. Provide an understanding of the taxation of
		business activity
		CO2. Illustrate the ways in which these principles are
		currently applied in key jurisdictions
	INCOME TAX LAW &	CO3. Understand the current application of general
4.	PRACTICE - I	taxation principles
		CO4. Be aware of the potential impacts of taxation on
		the decision making
		CO5. Extend their knowledge from other business
		subjects by adding the dimension of taxation in
		greater detail

		CO1. Analyze and evaluate financial markets, how securities are traded, mutual funds, investment companies, and investor behavior. CO2. Construct
		optimal portfolios and illustrate the theory and
5.	PORT FOILO MANAGEMENT	empirical applications of asset pricing models.
	MANAGEMENT	CO3. Analyze bond prices and yields and fixed-
		income portfolios.
		CO4. Characterize the implications of the market
		efficiency evidence on active portfolio management.
		CO1. Identify and discuss the role and importance of
		research in the social sciences.
		CO2. Identify and discuss the issues and concepts
		salient to the research process.
	D 2021 D 022	CO3. Identify and discuss the complex issues
6.	RESEARCH MEDHODOLOGY	inherent in selecting a research problem, selecting an
		appropriate research design, and implementing a
		research project.
		CO4. Identify and discuss the concepts and
		procedures of sampling, data collection, analysis and
		reporting.
SEMES'	TER - VI	T
		CO1. To give an idea about fundamentals of financial
		services and players in financial sectors
		CO2. To create an awareness about merchant
		banking, issue management, capital markets and role
1.	FINANCIAL SERVICES	of SEBI
		CO3. To understand the concept of leasing, hire
		purchase and factor
		CO4. To provide knowledge about leasing and hire
		purchase concepts

		CO5. To make them understand about different types
		of mutual funds and the institution involved
		CO1. To understand the basic concepts and
		processes used to determine product costs,
		CO2. To be able to interpret cost accounting
	MANAGEMENT ACCOUNTING	statements,
2.	Accounting	CO3. To be able to analyze and evaluate information
		for cost ascertainment, planning, control and decision
		making
		CO1. Provide an understanding of the taxation of
		business activity
		CO2. Illustrate the ways in which these principles are
2	INCOME TAX LAW &	currently applied in key jurisdictions
3.	PRACTICE - II	CO3. Understand the current application of general
		taxation principles
		CO4. Be aware of the potential impacts of taxation on
		the decision making
		CO1. To get the knowledge about the Personnel
		management
		CO2. To extend the knowledge about the placement
		and induction
	***************************************	CO3. To understand the training methods and training
4.	HUMAN RESOURCE MANAGEMENT	needs
		CO4. To developing the knowledge of remuneration
		and incentives of personnel
		CO5. To enable the students to understand about the
		environment of HRM
		CO6. To know about the human resource audit
		CO1.Provide knowledge about the scripting
5.	WEB TECHNOLOGY	languages.
		CO2. Data types and dynamic variable types and

properties.
CO3. Extensive use of automatic type conversion.
CO4. Event-driven programs that use HTML intrinsic
event attributes.
CO5. Style properties.

Program Name: Bachelor of Commerce (General)

PROGRAM OUTCOME

PO1:Soundness in basic concepts: After completing three years programme in Bachelors in Commerce (General), students would gain a thorough knowledge in the basics and fundamental of Commerce and Finance.

PO2:Specialization and Practical exposure: The commerce focused curriculum offers a number of specializations and practical exposures to the students to face which would equip the student to face challenges in today's commerce and business

PO3:Business Ethics: The students are made to understand about their social responsibility and accountability towards the welfare of the society and are given knowledge on the ethical values of business.

PO4:Job Market Opportunities: The course offers a number of job opportunities in the various fields of Banking, Auditing, Finance, Marketing, HR, Taxation, Stock Market, Business managers and so on.

PROGRAM SPECIFIC OUTCOME

PSO1: Students will get exposure on relevant quantitative and qualitative Financial Accounting skills and applications to their future careers in business.

PSO2: Students will learn the various concepts and applicability of Managerial accounting to practically implement into their future careers in business.

PSO3: Students will gain thorough knowledge on systematic and subject skills in various disciplines of Commerce, Business, Accounting, Economics, Finance, Auditing and Marketing.

PSO4: Perform procedures of ethical business as per the Industrial Rules and Regulation & Environmental Policy.

PSO5: Learners will be able to identify the features and Roles of Businessmen, Entrepreneur, Managers, Consultant, which will help learners to possess knowledge and effective communication skills and to react aptly when confronted with critical decision making.

PSO6: Learners will be able to prove proficiency with the ability to engage in Professional & Competitive Examinations like CA, CS, ICWA and other courses.

PSO7: Learners will acquire the skills like effective communication, decision making, problem solving in day-to-day business affairs.

PSO8: Learners will involve in various co-curricular activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.

PSO9: Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.

PSO10: Learners can also acquire practical skills to work as Tax Consultant, Audit Assistant and other Financial Supporting Services.

PSO11: Learners will be able to do higher education and advance research in the field of commerce and finance.

SEMESTER: I		
S. No.	Course Name	Course Outcome
1.	FINANCIAL ACCOUNTING	CO1:The students get to know about the principles of accounting in general. CO2: The students get knowledge about the accounting terms and concepts. CO3: Students learn the various methods of maintaining the accounting records. CO4: Understanding the system of keeping financial accounting records for Sole Trading concern and non-Trading organizations.
		CO1: The students get an exposure regarding the concept of communication
2.	BUSINESS COMMUNICATION	CO2: The students understand the basic

		principles of effective business
		communication.
		CO3: The students are given guidelines and
		also the basic techniques of writing modern
		forms of communication letters related to
		business.
		CO4: The students learn to write different
		types of business letters and reports.
		CO1: Students will be able to understand the
		nature and scope of Business Economics and
		will be able to identify the economic variables
		in general business atmosphere.
		CO2: Students will perceive the knowledge
		about Economics at Micro level and various
		economic concepts such as Opportunity cost,
		Marginal Concepts, Demand and Supply
		function, Consumption and Production Laws.
2	BUSINESS ECONOMICS	CO3: Students will learn attainment of Short
3.	BUSINESS ECONOMICS	Run and Long Run Equilibrium of a firm and
		industry and under different market structure
		and various pricing techniques.
		CO4: The students will know the application
		of economic analysis and theories into the
		business decision making.
SEMESTE	R: II	1
		CO1: The students learn to summarize, analyse
		and report the financial transactions pertaining
		to a business.
		CO2: The students learn about maintaining of
1.	ADVANCED FINANCIAL ACCOUNTING	accounts for Partnership, Branches, and

		Departments.
		CO3: The students are involved in the
		preparation of financial statements available
		for public consumption such as Stockholders,
		suppliers, banks, employees, government
		agencies, business owners, and other people
		who are interested in receiving such
		information for decision making purposes.
		CO1: Understanding the concepts of basic
		concepts of management.
		CO2: Students get knowledge about the
		significance of the management in business.
		CO3: The students understand the management
		principles providing guidelines as to how tasks
2.	PRINCIPLES OF	are to be completed for increased efficiency.
	MANAGEMENT	CO4: The students learn about the application
		of management skills to ensure effective
		utilization of available resources.
		CO1: The students will acquire knowledge on
		the basic characteristics of Indian economy, its
		potential on natural resources.
		CO2: The students understand the importance,
		causes and impact of population growth on
		economic development and its distribution.
		CO3:Comprehending knowledge on the
3.	INDIAN ECONOMY	importance of planning undertaken by the
		government of India, have knowledge on the
		various objectives, failures and achievements
		as the foundation of the ongoing planning and

		economic reforms taken by the government.
		CO4: Understanding of Primary, Secondary
		and Tertiary sectors towards contribution of
		economic growth and development.
SEMESTER: III		
		CO1: The students learn the preparation of
		Company accounts.
		CO2: Students get knowledge on the various
		provisions of Companies Act.
1.	CORPORATE ACCOUNTING	CO3: Understanding the applications of
		Accounting Transactions in Corporate Sector.
		CO1: Highlighting the students about the basic
		provisions of law governing the General
		Contract and Special Contract.
		CO2: Students learn about the essential
		elements and rules of valid contract.
2	DIJOINECO I AMO	CO3: Understanding about the legal remedies
2.	BUSINESS LAWS	available in the law to the business and other
		people.
		CO1: Understanding the origin and growth of
		Indian Banking System.
		CO2: Students get knowledge about the
		functions of RBI and commercial banks
		CO3: Students get exposure regarding different
3.	BANKING THEORY, LAW &	types of deposits and borrowings.
	PRACTICE	CO4: Students get knowledge about the recent
		developments in Indian Banking Sector.

		CO1: Students gets exposure on the
		importance and relevance of marketing in
		today's context.
		CO2: Understanding the basic features of
		Indian marketing and importance of
		advertisement in today's marketing era.
		CO3: Students get knowledge about the
4.	MARKETING	marketing mix and relevance of appropriate
		marketing mix. CO4: Knowledge on current
		aspects of marketing such as E-marketing, MIS
		aspects of marketing such as L marketing, will
		CO1: Know the most widely used probability
		distributions and recognize them in
		applications.
		CO2: Know the main tools to describe the
		index numbers, such as the price and cost of
		living,
		CO3: Recognize the importance of the
		analyzing time series and understand when it is
		appropriate to use normal approximations for
		the distribution of a statistic.
5.	BUSINESS STATISTICS	CO4: Be able to derive Sampling procedures
		and estimators.
		CO5: Be able to construct exact and
		approximate confidence intervals.
		CO6: Possess techniques of Hypothesis testing
		CO7: Learn to develop complex mathematical
		reasoning.
	<u>I</u>	1
SEMESTER: IV		
		CO1: The students learn the preparation of
	I	

		final accounts of Banking, Insurance
1.	ADVANCED CORPORATE ACCOUNTING	companies.
		CO2: Students get knowledge on the concepts
		and maintaining of accounts related to special
		events in company like external reconstruction,
		holding and liquidation of company etc.
		CO3: Understanding the applications of
		Accounting Transactions in Corporate Sector.
		CO1: Students get awareness on the recent
		amendments of Companies Act and learn about
		various provisions governing the company law.
		CO2: Knowledge on the content of important
2.	COMPANY LAW	documents.
2.	COM ANTEAW	CO3: Learning on the steps in formation and
		closing of company
		CO1: Understanding the concepts, objectives,
		functions, features of financial services.
		CO2: To know about the players and their
		contribution to the growth of financial services
3.	FINANCIAL SERVICES	sector in India.
		CO3: Knowledge on the role of SEBI &
		functions of stock exchanges.
		CO1: To facilitate the students to gain
		knowledge on principles of Indirect taxation
		with particular reference to India.
		CO2: To make the students understand the
4.	INDIRECT TAXATION	concept of Goods and Services tax (GST) and
		its importance
		CO3: To focus and highlight on the

		concept of custom duty and export
		incentives.
		CO4: To make the students to understand the
		concepts, types and assessment procedures of
		Indirect taxes.
		CO1: Know the meaning of Operations
		Research, scope and characteristics, and to
		know Graphical and Simplex Method.
		CO2: Find the basic feasible solution by
		Transportation problem, Assignment models.
		CO3: Reach the time, time calculation,
		Network Analysis and its applications.
		CO4: Find the Arriving rate and Service rate
5.	OPERATIONS RESEARCH	by using Queueing Models.
		CO5: Learn to develop the probability using
		Baye's theorem, Decision Theory, Game
		theory.
SEMESTER: V		
		CO1: To know the various elements of Cost.
		CO2: Understanding the process of
		ascertaining, classification and controlling
		costs.
1		CO3: Students learn to prepare Cost Sheets.
1.	COST ACCOUNTING	Tender and Quotations
		CO4: Students learn to calculate material cost,
		labour cost and overhead cost.
		CO1: Understanding the concept of present-
		day auditing practices, qualification and
2.	PRACTICAL AUDITING	disqualification of auditors etc.

		CO2: To make students know about the
		procedure of appointment of auditors and
		removal of auditors.
		CO3: Gain knowledge on various procedures
		and techniques of Auditing.
		CO1: Understanding the concept of
		Entrepreneurship and the effectiveness of
		manpower in Entrepreneurship.
	ENTREPRENEURIAL	CO2: To provide students to knowledge about
	DEVELOPMENT (Students admitted to 2019-2020	the preparation of project Report.
3.	Batch)	CO3: Knowledge on Entrepreneurial
		Development Programmes and Agencies.
		CO1: To inculcate the knowledge in students
		regarding the basic concepts of logistics and
		supply chain management.
	LOGISTICS & SUPPLY CHAIN MANAGEMENT	CO2: To provide insights into the nature of
4.	(Students admitted to 2020-2021	working in logistics and supply chain industry.
	Batch)	CO3: To equip the students to take up jobs in
		logistics and allied industries.
		CO1: The students will understand the basics
		of Financial Management
		CO2: The students acquire the knowledge
		about capital structure, financing, working
		capital and capital budgeting.
	ETNIA NICI A I AMA NIA CIERMENUE	CO3: The learner develops the financial
5.	FINANCIAL MANAGEMENT	management skills relating to investing,
		financing and dividend decision making.
		CO4: On the whole, the students acquire
	<u> </u>	

		knowledge on effective financial management.
6.	INCOME TAX THEORY LAW & PRACTICE I	CO1: The students will understand the concepts of Income Tax and various provisions of IT Act CO2: The students will learn to calculate the income from salary, income from house property and Profits and gains from business. CO3: The students acquire the knowledge about types of filing, E-filing & submission of returns.
SEMESTER: VI		returns.
SEMILOTEK, VI		CO1: Learning various methods of cost
		elements.
1.	ADVANCED COST ACCOUNTING	CO2: The students learn the preparation of different methods of costing like, job, batch, contract process and operating. CO3: Students get exposed to Marginal costing technique for decision making. CO4: Understanding the advantages of Costing to the Stakeholders, Workers, Creditors and the Public.
2.	MANAGEMENT ACCOUNTING	CO1: Knowledge on various tools and techniques of Management. CO2: Obtaining practical skills in solving management problems. CO3: Analysis and Interpretation of Financial Statements to provide information to management for taking important decisions.

3.	BUSINESS ENVIRONMENT (Students admitted to 2019-2020 Batch)	relationship between environment and business CO2: The students will able to Identify and understand the factors influencing the changes in the Business Climate. CO3: Applying the environmental analysis techniques in business practice. CO4: The students understand and analyze various political, technological and economic environment in the business.
4.	ENTREPRENEURIAL DEVELOPMENT (Students admitted to 2020-2021 Batch)	CO1: Understanding the concept of Entrepreneurship and the effectiveness of manpower in Entrepreneurship. CO2: To provide students to knowledge about the preparation of project Report. CO3: Knowledge on Entrepreneurial Development Programmes and Agencies.
5.	HUMAN RESOURCE MANAGEMENT	CO1: To develop the understanding of the concept of human resource management and to understand its relevance in organizations. CO2: To develop necessary skill set for application of various HR issues. CO3: To analyse the strategic issues and strategies required to select and develop manpower resources. CO4: To integrate the knowledge of HR concepts to take correct business decisions.
		concepts of Income Tax and various provisions

		of IT Act
6.	INCOME TAX THEORY LAW	CO2: The students will learn to calculate the
	& PRACTICE II	income from capital gain, income from other
		sources.
		CO3: The students acquire the knowledge
		about various deductions applicable to an
		individual.
		CO4: The students will understand & learn the
		procedure for calculation of taxable income
		and calculation of tax liability.
		CO5: The students will understand about the
		Income tax authorities and procedure for
		assessment.

Program Name: Bachelor of Commerce (Bank Management)

PROGRAM OUTCOME

PO1: After completing three years programme in Bachelors in Commerce (Bank management), students would gain a thorough knowledge in the basics and fundamental of Banking, Commerce and Finance.

PO2: The bank focused curriculum offers a number of specializations and practical exposures to the students to facewhich would equip the student to face challenges in today's commerce and business

PO3: The students are made to understand about their social responsibility and accountability towards the welfare of the society and are given knowledge on the ethical values of business.

PO4: The course offers a number of job opportunities in the various fields of Banking, Auditing, Finance, Marketing, HR, Taxation, Stock Market, Business managers and so on.

PROGRAM SPECIFIC OUTCOME

PSO1: Students will get exposure on relevant quantitative and qualitative Financial Accounting skills and applications to their future careers in business(bankingsectors)

PSO2: Students will learn the various concepts and applicability of Managerial accounting to practically implement into their future careers in business.

PSO3: Students will gain thorough knowledge on systematic and subject skills in various disciplines of Commerce, Banking, Accounting, Economics, Finance, Auditing and Marketing.

PSO4: Perform procedures of ethical business as per the Industrial Rules and Regulation & Environmental Policy.

PSO5: Learners will be able to identify the features and Roles of Businessmen, Entrepreneur, Managers, Consultant, which will help learners to possess knowledge and effective communication skills and to react aptly when confronted with critical decision making.

PSO6: Learners will be able to prove proficiency with the ability to engage in Professional & Competitive Examinations like CA, CS, ICWA,BSRB and PGCourseslikeM.Com,MBAandotherartscourses.

PSO7: Learners will acquire the skills like effective communication, decision making, problem solving in day-to-day business affairs especially leadershipqualities.

PSO8: Learners will involve in various co-curricular activities to demonstrate relevancy of foundational and theoretical

knowledge of their academic major and to gain practical exposure.

PSO9: Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.

PSO10: Learners can also acquire practical skills to work as Tax Consultant, stock broker, Audit Assistant and other Financial Supporting Services.

PSO11:Learners will be able to do higher education and advancerese archinthe field of commerce and finance, banking sectors.

COURSE OUTCOME:

S. No.	Course Name	Course Outcome
SEMES'	ΓER - I	
		CO1:The students get to know about the principles of
	FINANCIAL ACCOUNTING	accounting in general.
		CO2: The students get knowledge about the accounting
1.		terms and concepts.
		CO3: Students learn the various methods of maintaining
		the accounting records.

		CO4: Understanding the system of keeping financial
		accounting records for Sole Trading concern and non-
		Trading organizations.
		CO1: The students get an exposure regarding the concept
		of communication
		CO2: The students understand the basic principles of
		effective business communication.
	BUSINESS	CO3: The students are given guidelines and also the basic
2.	COMMUNICATION	techniques of writing modern forms of communication
		letters related to business.
		CO4: The students learn to write different types of
		business letters and reports.
		CO1: Students will be able to understand the nature and
	BUSINESS ECONOMICS	scope of Business Economics and will be able to identify
		the economic variables in general business atmosphere.
		CO2: Students will perceive the knowledge about
		Economics at Micro level and various economic concepts
		such as Opportunity cost, Marginal Concepts, Demand
3.		and Supply function, Consumption and Production Laws.
		CO3: Students will learn attainment of Short Run and
		Long Run Equilibrium of a firm and industry and under
		different market structure and various pricing techniques.
		CO4: The students will know the application of economic
		analysis and theories into the business decision making.
SEMES	TER - II	
	TREASURY MANAGEMENT	CO1: The students gets insight into concept of Treasury
1.		Management
1.		CO2: The learner understand the mechanism of Treasury
		Management

		CO3: The students will understand the Money market
		instruments & players
		CO4:The students will acquire knowledge about the
		foreign treasury management
		CO1: Understanding the concepts of basic concepts of
		management.
		CO2: Students get knowledge about the significance of
		the management in business.
		CO3: The students understand the management principles
2.	PRINCIPLES OF MANAGEMENT	providing guidelines as to how tasks are to be completed
	WIANAGEWIENI	for increased efficiency.
		CO4: The students learn about the application of
		management skills to ensure effective utilization of
		available resources.
		CO1: The students will acquire knowledge on the basic
		characteristics of Indian economy, its potential on natural
		resources.
		CO2: The students understand the importance, causes and
		impact of population growth on economic development
		and its distribution.
		CO3:Comprehending knowledge on the importance of
3.	INDIAN ECONOMY	planning undertaken by the government of India, have
		knowledge on the various objectives, failures and
		achievements as the foundation of the ongoing planning
		and economic reforms taken by the government.
		CO4: Understanding of Primary, Secondary and Tertiary
		sectors towards contribution of economic growth and
		development.
<u> </u>	l	

SEMES	SEMESTER - III		
1.	CORPORATE ACCOUNTING	CO1: The students learn the preparation of Company accounts. CO2: Students get knowledge on the various provisions of Companies Act. CO3: Understanding the applications of Accounting Transactions in Corporate Sector.	
2.	BUSINESS LAWS	CO1:The learner understand the basic provisions of Indian Contract Act, Sales of Goods Act, Right to Information Act &Intellectual Property law. CO1:The students acquire knowledge about various elements of contract. CO1:The students understand the Legal Remedies available in the Law to the business and other people. CO1:The learn will get information about various types of crime and punishments	
3.	BANKING THEORY LAW & PRACTICE	CO1: Understanding the origin and growth of Indian Banking System. CO2: Students get knowledge about the functions of RBI and commercial banks CO3: Students get exposure regarding different types of deposits and borrowings. CO4: Students get knowledge about the recent developments in Indian Banking Sector.	

		CO1: The students will understand the basic concept of
4.	MARKETING OF	marketing principles and their application inBanking
		Industry
	BANKING SERVICE	CO2:Thestudents will understand the concept of role of
		banking sector in the services of banks.
		CO1: Know the most widely used probability distributions
		and recognize them in applications.
		CO2: Know the main tools to describe the index numbers,
		such as the price and cost of living,
		CO3: Recognize the importance of the analyzing time
		series and understand when it is appropriate to use normal
5.	BUSINESS STATISTICS	approximations for the distribution of a statistic.
		CO4: Be able to derive Sampling procedures and
		estimators.
		CO5: Be able to construct exact and approximate
		confidence intervals.
		CO6: Possess techniques of Hypothesis testing
		CO7: Learn to develop complex mathematical reasoning.
SEMES	STER – IV	
		CO1: The students learn the preparation of final accounts
	ADVANCED	of Banking.
		CO2: Students get knowledge on the concepts and
		maintaining of accounts related to special events in
1.	CORPORATE ACCOUNTING	company like external reconstruction, holding and
	110000111110	liquidation of company Internal reconstruction etc.
		CO3: Understanding the applications of Accounting
		Transactions in Corporate Sector.
	CUSTOMER	
2.	RELATIONSHIP MANAGEMENT IN	CO1:The students will be able to understand the concepts
	BANKS	and principles of CRM and its planning and
1		

		implementation in banks
		CO2:Learner acquires the knowledge about the
		conceptual aspects of service quality.
		CO3:The students understand the recent trends in CRM
		CO1: Understanding the concepts, objectives, functions,
		features of financial services.
		CO2: To know about the players and their contribution to
3.	FINANCIAL SERVICES	the growth of financial services sector in India.
J.		CO3: Knowledge on the role of SEBI & functions of
		stock exchanges.
		The students will be able to understand the concepts of
		Tax system & Indirect taxations in India.
	INDIRECT TAXATION	The students gets insight into concept of GST, GST
		taxation, assessment procedure and GST audit.
4.		The students acquire knowledge about customs duty and
7.		export incentives
		7.4
		The students will insight knowledge aboutInternational
		economics
		CO2:The students will understand the basics concept of
		International Trade and theories of International trade.
_	INTERNATIONAL	CO3:The students will acquire the knowledge about the
5.	ECONOMICS	Trade policy & Balance of payment.
		CO4: The students will understand the Export
		Management.
		CO5:The students will gain the knowledge about the
-		COS. The students will gain the knowledge about the

		International economics Organizations and functions of IMF, IDA, IFA, ADB, CO1:UNCTAD, UNIDO & IBRD.
SEMES	STER – V	
1.	COST ACCOUNTING	CO1:The students will understand the basic of cost accounting, its principles and various elements of costing CO2:The students willearntoprepareCostSheets,TenderandQuotations CO3:The Students will acquire knowledge about the calculation of materialcost, labourcostandoverheadcost.
2.	PRACTICAL AUDITING	CO1: Understanding the concept of present-day auditing practices, qualification and disqualification of auditors etc. CO2: To make students know about the procedure of appointment of auditors and removal of auditors. CO3: Gain knowledge on various procedures and techniques of Auditing.
3.	INTERNATIONAL BANKING	CO1:The students will be able to understand the concepts of International Banking structure. CO2:Thestudents will gain knowledge about the role of Foreign Exchange Market CO3: The students acquire the knowledge about the management of Foreign exchange. CO4:The students will be able to understand functions of International Financial Institutions.

4.	FINANCIAL MANAGEMENT	CO1:The students will understand the basics of Financial Management CO2:The students acquire the knowledge about capital structure, financing, working capital and capital budgeting. CO3:The learner develops the financial management skills relating to investing, financing and dividend decision making.
5.	INCOME TAX LAW & PRACTICE - I	CO1:The students will understand the concepts of Income Tax and various provisions of I.T Act CO2:The students will learn to calculate the income from salary, income from house property and Profits and gains from business. CO3:The students acquire the knowledge about types of filing, E-filing & submission of returns.
SEMES	STER – VI	
1.	TECHNOLOGY IN BANKING	CO1: The students will be able to understand the concepts of application of technology in BankingSector CO2:The students gets insight into Electronic Banking and Electronic Banking Services. CO3:Thestudentswill learntheroleofTechnology in Bank and Modern technology inBankingSector
2.	MANAGEMENT	CO1: Knowledge on various tools and techniques of

	ACCOUNTING	Management.
	ACCOUNTING	CO2: Obtaining practical skills in solving management
		problems.
		CO3: Analysis and Interpretation of Financial Statements
		to provide information to management for taking
		important decisions.
		CO1: Understanding the concept of Entrepreneurship and
		the effectiveness of manpower in Entrepreneurship.
		CO2: To provide students to knowledge about the
3.	ENTREPRENEURIAL DEVIEL OPMENT	preparation of project Report.
	DEVELOPMENT	CO3: Knowledge on Entrepreneurial Development
		Programmes and Agencies.
		CO1: The students will understand the concepts of
	INCOME TAX LAW & PRACTICE - II	Income Tax and various provisions of I.T Act
		CO2: The students will learn to calculate the income from
		capital gain, income from other sources.
		CO3: The students acquire the knowledge about various
		deductions applicable to an individual.
		CO4: The students will understand & learn the procedure
4.		for calculation of taxable income and calculation of tax
		liability.
		CO5: The students will understand about the Income tax
		authorities and procedure for assessment.
	DOD TO TO	CO1: The students will understand the basic concepts of
5.	PORTFOLIO MANAGEMENT	Portfolio Management.
	THE TENEDITE	2 official framingements

CO2: The students will understand and acquire the
knowledge and the techniques of Portfolio Management
and theories relating to portfolio Analysis.

Program Name: Bachelor of Commerce (Corporate Secretaryship)

PROGRAM OUTCOME

PO1:After completing three years for Bachelor Degree in Commerce (Corporate Secretaryship) Program, studentswould gain a through grounding in the fundamentals of Secretary Ship and finance and cost control, overall communication, business ethics.

PO2:The secretary roles and responsibilities, finance administration, tax formalities, frametheagenda& communication with the entire levels focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenge in secretary ship roles in business.

PO3: The students are made to understand about their social responsibility and accountability towards the welfare of thesociety and are given knowledge on the ethical values of business.

PO4: The course offers a number of job opportunities in the various fields of Banking, Auditing, Finance, Marketing, HR, Taxation, Stock Market, Business managers and so on.

PROGRAM SPECIFIC OUTCOME

PSO1:Studentswillbeabletodemonstrateprogressivelearningofcompanyformationformalitiesissuesandacco unting&communication processfromtoptobottomin management&governmentofficialandpublic.

PSO2:Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.

PSO3:Students will learn relevant financial accounting career skills applying both quantitative andqualitativeknowledgeto their futurecareers inbusiness.

PSO4:Students will learn relevant managerial accounting career skills, applying both quantitative andqualitativeknowledgeto their futurecareers inbusiness.

PSO5:Learners will gain through systematic and subject skills within various disciplines of commerce, Accounting, economics, finance, auditing and marketing, entrepreneurial skills.

PSO6:Learners will be able to recognize features and roles of businessman entrepreneur, managers, consultant, company secretary, which will help learners to possess knowledge and other soft skills and toreact aptlywhen confronted with critical decision making.

PSO7:Learners will be able to prove proficiency with the ability to engage in competitive exams and professional courses like ACS,CA, CMA,ICWA.PGCourseslikeM. Com,MBAandotherArtscourses.

PSO8:Learners will acquire the skills like effective communication, decision making, problem solving inday-to-daybusiness affairs, especially leadershipqualities.

PSO9:Learners will involve in various co- curricular activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.

PSO10:Learners can also acquire practical skills to as tax consultant, audit assistant and other financialsupportingservices

PSO11:Learners will be able to do higher education and advance research in the field of commerceandcompany secretaryship and finance.

COURSE OUTCOME:

S. No.	Course Name	Course Outcome
SEMES	ΓER - I	
1.	FINANCIAL ACCOUNTING	CO1:The students get to know about the principles of accounting in general. CO2: The students get knowledge about the accounting terms and concepts. CO3: Students learn the various methods of maintaining the accounting records. CO4: Understanding the system of keeping financial accounting records for Sole Trading concern and non-Trading organizations.
2.	BUSINESS COMMUNICATION	CO1: The students get an exposure regarding the concept of communication CO2: The students understand the basic principles of

		effective business communication.
		CO3: The students are given guidelines and also the basic
		techniques of writing modern forms of communication letters
		related to business.
		CO4: The students learn to write different types of business
		letters and reports.
		CO1:The students will understand the basics concept of
		International Trade and theories of International trade.
		CO2:The students will understand and gain information
		about WTO and how globalization of economy take place
		CO3:The students will acquire the knowledge about the
3.	INTERNATIONAL TRADE	Trade policy & Balance of payment.
		CO4:The students will understand the role of IMF SDR &
		IBRD in International Trade
SEME	CSTER – II	<u> </u>
		CO1: The students learn to summarize, analyse and report
		the financial transactions pertaining to a business.
		CO2: The students learn about maintaining of accounts for
		Partnership, Branches, and Departments.
	ADVANCED	CO3: The students are involved in the preparation of
1.	FINANCIAL	financial statements available for public consumption such as
	ACCOUNTING	Stockholders, suppliers, banks, employees, government
		agencies, business owners, and other people who are
		interested in receiving such information for decision making
		purposes
2.	CORPORATE	
	MANAGEMENT	CO1:The students will understand the basics concept of

		Management and also gain knowledge about the significance		
		of management in corporate world.		
		CO2:The students will be able to understand the functions of		
		Management.		
		CO3:The students will acquire the knowledge about the		
		HRM and performance appraisal and incentive techniques.		
		CO1:TheStudentswill understand aboutthenatureandscopeof		
		business economics		
		CO2:The Students will gain knowledge about the law of		
		demandandsupply concept		
	BUSINESS	CO3:The students will acquire the knowledge about the		
3.	ECONOMICS	different types		
		ofmarketsandthepriceoutputdeterminationundereachmarket.		
		CO4:The students will able to learn how to		
		Employmarginalanalysisfordecisionmaking		
SEMI	ESTER – III			
		CO1: The students learn the preparation of Company accounts.		
		CO2:TheStudents get knowledge on the various provisions of		
	CORPORATE ACCOUNTING	Companies Act.		
1.		CO3: Understanding the applications of Accounting		
		Transactions in Corporate Sector.		
		CO1: The students will understand the procedural aspect of a		
		company formation.		
	COMPANY LAW &	CO2:The students will understand the role of company		
2.	SECRETARIAL PRACTICE	secretary CO3:The students will get knowledge		
	1101102	aboutsecretarial practice on all aspects of the functions of		
		aboutsecretarial practice on all aspects of the functions of acorporatesecretary.		

	STATISTICS	CO1: Know the most widely used probability distributions and
	BIAIBIICS	
		recognize them in applications.
		CO2: Know the main tools to describe the index numbers, such
		as the price and cost of living,
		CO3: Recognize the importance of the analyzing time series
		and understand when it is appropriate to use normal
		approximations for the distribution of a statistic.
		CO4: Be able to derive Sampling procedures and estimators.
		CO5: Be able to construct exact and approximate confidence
		intervals.
		CO6: Possess techniques of Hypothesis testing
		CO7: Learn to develop complex mathematical reasoning.
SEME	ESTER – IV	
		CO1: The students learn the preparation of final accounts of
		Banking.
	ADVANCED CORPORATE ACCOUNTING	CO2: Students get knowledge on the concepts and maintaining
		of accounts related to special events in company like external
1.		reconstruction, holding and liquidation of company Internal
		reconstruction etc.
		CO3: Understanding the applications of Accounting
		Transactions in Corporate Sector.
		CO1:The students will be able to understand the concepts of
		Tax system & Indirect taxations in India.
2.	INDIRECT	CO2:The students gets insight into concept of GST, GST
	TAXATION	taxation, assessment procedure and GST audit.
		CO3:The students acquire knowledge about customs duty and
		export incentives
	SECURITIES LAW	CO1:Studentswillunderstandthedifferentfeaturesoffinancialasse
3.	& MARKET	tssuchasmoneymarketinstruments,bonds,andstocks,andhowtobu
	OPERATIONS	, , , , , , , , , , , , , , , , , , , ,

	yandselltheseassetsinfinancialmarkets.
	CO2:Studentswillunderstandthebenefitofdiversificationofholdin
	gaportfolioofassets,andtheimportance played by
	themarketportfolio
	CO3:Students will
	knowhowtoapplydifferentvaluationmodelstoevaluatefixedinco
	mesecurities, stocks, and
	howtousedifferentderivativesecuritiestomanagetheirinvestmentr
	isks.
SEMESTER – V	I
	CO1: To know the various elements of Cost.
	CO2: Students learn to prepare Cost Sheets. Tender and
	Quotations
1. COS	CO3. Chacistanding the process of ascertaining, classification
ACCOUN	and controlling costs.
	CO4: Students learn to calculate material cost, labour cost and
	overhead cost.
	CO1:The students will be able to understand the concept of
	corporate governance
	CO2:The students acquire knowledge about the governance
	which ensures ethics in corporate management.
CORPOR	
2. GOVERNA ETHIC	t governance forums
	CO4:The students will be able to understand the corporate
	social responsibilities with help of case studies.
3. BUSINESS	S LAW CO1: The learner understand the basic provisions of Indian
	Contract Act, Sales of Goods Act, Right to Information Act &

		Intellectual Property law.		
		CO2:The students acquire knowledge about various elements		
		of contract.		
		CO3:Enable the students to understand the Legal Remedies		
		available in the Law to the business and other people.		
		CO4:The learn will get information about various types of		
		crime and punishments		
		CO1:The students will understand the concepts of Income Tax		
		and various provisions of I.T Act		
	INCOME TAX LAW & PRACTICE -I	CO2:The students will learn to calculate the income from		
		salary, income from house property and Profits and gains from		
4.		business.		
		CO3:The students acquire the knowledge about types of filing,		
		E-filing & submission of returns.		
		CO1: Students gets exposure on the importance and relevance		
	MARKETING	of marketing in today's context.		
		CO2: Understanding the basic features of Indian marketing and		
		importance of advertisement in today's marketing era.		
5.		CO3: Students get knowledge about the marketing mix and		
		relevance of appropriate marketing mix. CO4: Knowledge on		
		current aspects of marketing such as E-marketing, MIS		
SEME	ESTER – VI			
		CO1:The students will gain insight knowledge on various legal		
	INDUSTRIAL LAW	Acts to protect the health, safety & welfare of the employees.		
1.		CO2:The students will acquire knowledge about the rules and		
		regulations relating to Industrial relations, social security and		

		working conditions prevalent in the present business.	
2.	CO1: Knowledge on various tools and technique Management. CO2: Obtaining practical skills in solving management problems. CO3: Analysis and Interpretation of Financial Statement provide information to management for taking implements.		
3.	ENTREPRENURIAL DEVELOPMENT	CO1: Understanding the concept of Entrepreneurship and the effectiveness of manpower in Entrepreneurship. CO2: To provide students to knowledge about the preparation of project Report. CO3: Knowledge on Entrepreneurial Development Programmes and Agencies.	
4.	INCOME TAX LAW & PRACTICE-II	CO1: The students will understand the concepts of Income Tax and various provisions of I.T Act CO2: The students will learn to calculate the income from capital gain, income from other sources. CO3: The students acquire the knowledge about various deductions applicable to an individual. CO4: The students will understand & learn the procedure for calculation of taxable income and calculation of tax liability. CO5: The students will understand about the Income tax authorities and procedure for assessment.	

CO1: The students will get practical training for duration of 30 days relateto either in (a)OfficeManagement or(b)Secretarial Practice and submit the report IN OFFICEMANAGEMENT: The student willacquaintthetraining with: 1. Company's activities, organization structure, departme ntsandauthorityrelationship. 2. Studyoflayout, working conditions, office maintenance ,safetyandsanitaryconditions. 3. Study of the secretarial service, communication, equipments, postal and mailing services and **INSTITUTIONAL** equipments. 5. **TRAINING** 4. Acquaintancewithofficemachines and equipments and accounting, machine 5. Acquaintance with filling department, sales, purchases, sales accounts, salary, administration and personnel departments. IN SECRETARIAL PRACTICE: The student willacquaintthetraining with: 1. The training pertaining to secretarial practice shall be on all aspects of the functions of a corporate secretary.

PROGRAMME NAME: BA ENGLISH

PROGRAMME OUTCOME

PO.1 This programme broadens the aspects of literature and makes the students to understand the cultural, the historical as well as the social values.

PO.2 Students apply as well as analyse the textual knowledge in real life experience.

PO.3 Women's writing, Translational studies, World Classics, Indian writing, American Literature, British Literature formulates and introduces the different genre in Literature

PO.4This programme helps the learners to have an intense knowledge on the study of literature

PROGRAMME SPECIFIC OUTCOME:

- PSO 1. Demonstrate knowledge of literature as a discipline by studying a range of literary texts written in English or translated into English from the past to present times
- PSO 2. Show an understanding of the significant historical, political, and social backgrounds relevant to the literary texts studied
- PSO 3. Derive an understanding of a variety of literary forms, styles, and structures for close analysis of texts
- PSO 4. Appreciate literature as a source of understanding ideologies, practical wisdom, and aesthetic pleasure
- PSO 5. Apply language in academic and non-academic contexts and in a standardised system for communication.

S. NO.	COURSE NAME	COURSE OUTCOME
SEMESTI	ER I	
		CO1.Students will learn the origins of
		English poetry forms by learning
		various schools of poets and different
		tradition of poetry along with poetical
		terms.
		CO2. With the basic understanding of
1.	BRITISH LITERATURE- PAPER I	poetry students will get knowledge
		about the epic poetry and grandeur of
		writing in non- detailed poetry form.
		CO3. As beginners' students will learn
		the discourse of writing and the
		importance of prose form during 16 th -
		17 th century

		CO4.non-detailed prose help students
		to learn the human values through
		literature and help them to understand
		the different practices in religion
		during 16-17 th century.
		CO5. Reading a play help the students
		to know the form of theatre and
		introduce Elizabethan art form to the
		learners.
		CO1.To make students understand the
		histories during the period of
		Shakespeare.
		CO2.Recollecting the features of
		Shakespearean comedies and applying
		to the text.
		CO3. Knowing the elements of
2.	CHA MECDEA DE	Shakespearean tragedies and dramatic
2.	SHAKESPEARE	aspects through the text.
		CO4.To make students know the
		influence on the romantics through
		Shakespeare's tragic comedy.
		CO5.Recollecting the features of
		Elizabethan theatre along with the life
		and works of Shakespeare.
		CO1.To appreciate literary form and
	BACKGROUND TO ENGLISH LITERATURE-PAPER-I	structure in shaping a text's meaning
3.		CO2.To learn the various types of
		Indo-European languages and the
		characteristic features of Old, Middle
		and Modern English

		CO3.Acquire how literature also influences the social and political history of each period CO4. Compare English Literature of one period with that of another.
		CO5. The background reading of East
		and west, state and culture and
		language would have widened their
		idea and thoughts.
SEMESTE	ER-II	l
		CO1.This paper will introduce the
		students to the high enlightenment
		period till modern age. It also runs
		through the background history and
		the cultural and traditional
		development along with the literature
		and how literature adapted it.
		CO2.The romantic poetry form and
		neo classical forms and characteristics
		are introduced along with the poetry
1.	BRITISH LITERATURE- PAPER II	and its technical aspects.
		CO3.The development and structural
		forms of prose are introduced by
		reading major prose writers of the age.
		CO4.Various movements are
		introduced as this age forms the basis
		for very many political, literary and
		religious movements.
		CO5.Describe the distinct features of
		British literature of the same period.

		Analyze and interpret seminal novels,
		poetry by close reading.
		CO1.Students will understand the
		evolution of Indian writing in English
		by explaining the colonization and the
		impacts.
		CO2.Identify the influence of classical
		Indian tradition and the impact of
		western colonization on Indian writers.
		CO3.Students will be aware to analyze
		and interpret the Indian ethos found in
2.	INDIAN WRITING IN ENGLISH	the representative texts.
		CO4.Evaluate Indian English texts
		from postcolonial perspective by
		closely analyzing the language and
		form.
		CO5.It also makes students aware how
		literature helped the national
		movements and how it included
		political ideas in its genres.
		CO1.To apply literary terminology for
		Narrative, Poetic and Dramatic genres
		CO2. Acquire familiarity with a wide
	BACKGROUND TO	variety of forms.
3.	ENGLISH LITERATURE-PAPER- II	CO3.To know the impact of socio-
		political history in literature
		CO4. Analyse how the religious,
		social and political history of England
		influences the English writers

		CO5. To understand literature through philosophical point of view.
SEMESTI	P_III	
SENIESTI	SK-111	CO1 Identify the basis terms concents
		CO1.Identify the basic terms, concepts
		of Victorian era in British literature.
		CO2.Demonstrate familiarity with a
		range of both central and more
		obscure Victorian texts, and have an
		analytical knowledge of some aspects
		of Victorian literature and culture.
	BRITISH LITERATURE- PAPER III	CO3. Analyse the work of a range of
		Victorian writers, both canonical and
		less well-known, and with a range of
1.		genres including the novel, short story
		and poetry.
		CO4.Analyse and interpret seminal
		poetry of the period with close
		reading.
		CO5.Analyse and
		explainrepresentative
		intellectualcurrents of
		the Victorian era.
	A CDECTE OF ENGLIGH	CO1. Helps the students to understand
2.	ASPECTS OF ENGLISH LANGUAGE- PAPER I	the origin, evolution and properties of
		language. It also directs to

		comprehend the significance of human
		language in comparing with other
		form of languages.
		CO2. To determine the correct usage
		of the language and help students to
		make impeccable structure in speaking
		as well as writing.
		CO3. To facilitate the understanding
		of English Grammar and its
		contemporary usage.
		CO4. Improves in learning the
		structure and feature of language
		CO5.Helps to evaluate the knowledge
		and understanding of students in
		English Grammar. It also motivates
		the students to learn conversion and
		transformation of sentences.
		CO1.Insists students the importance of
		literary terms and concepts for their
		advanced course learning.
	BACKGROUND TO ENGLISH LITERATURE-PAPER-III	CO2. Enables them to comprehend the
		impact of the history of the language
		on literature.
3.		CO3. Benefits them with new literary
		theories and to analyse the texts based
		on the theories.
		CO4.Teaches them the
		commencement of World War I and
		its impact.
		CO5.Educates them with the

		knowledge of World War II and its consequences.
SEMESTE	ER-IV	
1.	AMERICAN LITERATURE - PAPER I	CO1. Helps students learn the origin and history of America through poetry. CO2. Enables them to understand the philosophical ideologies of the American writers. CO3. Serves its purpose by enabling students to know about drama, its techniques and the ways to analyse it. CO4. Provides an overview of narrative style and learn the cultural and political backdrop of America. CO5.Supports students to assess the thematic aspects in the novel, the writing style and the techniques used.
2.	ASPECTS OF ENGLISH LANGUAGE – PAPER II	CO1. Introduces the branch of linguistics and phonetics. This course also widens the knowledge of students in learning the kinds and scope of linguistics CO2. Familiarizes the pronunciation and phonetic transcription in language. It also aids in recognizing the similarities as well as differences in

CO3. Determines the language through structural and functions aspects. CO4.Helps the students to familiarize with lexical terms including its tone intonation and pitch. CO5.Motivates the students to have deep insight on the scientific approach of language system. CO1.Gives the students the knowledge of the ancient Greece and its philosophers, the Roman Empire and also basic concepts present in the European and American literature. CO2.Makes them aware of the European social, political and cultura history. CO3.Assists them to understand the background of America and the revolutions. CO4. Makes sure that it aids them to study the Colonial system and its impacts. CO5. Guides them to learn the			pronouncing the sounds in language.
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BACKGROUND TO EUROPEAN AND AMERICAN LITERATURE Background of America and the revolutions. CO4. Makes sure that it aids them to study the Colonial system and its impacts. CO5. Guides them to learn the narrative process, writing techniques			concepts present in the European and
BACKGROUND TO EUROPEAN AND AMERICAN LITERATURE Background of America and the revolutions. CO4. Makes sure that it aids them to study the Colonial system and its impacts. CO5. Guides them to learn the narrative process, writing techniques			American
BACKGROUND TO EUROPEAN AND AMERICAN LITERATURE BACKGROUND TO EUROPEAN history. CO3. Assists them to understand the background of America and the revolutions. CO4. Makes sure that it aids them to study the Colonial system and its impacts. CO5. Guides them to learn the narrative process, writing techniques.			literature.
BACKGROUND TO EUROPEAN AND AMERICAN LITERATURE history. CO3.Assists them to understand the background of America and the revolutions. CO4. Makes sure that it aids them to study the Colonial system and its impacts. CO5. Guides them to learn the narrative process, writing techniques			CO2.Makes them aware of the
3. AND AMERICAN LITERATURE CO3.Assists them to understand the background of America and the revolutions. CO4. Makes sure that it aids them to study the Colonial system and its impacts. CO5. Guides them to learn the narrative process, writing techniques.			European social, political and cultural
background of America and the revolutions. CO4. Makes sure that it aids them to study the Colonial system and its impacts. CO5. Guides them to learn the narrative process, writing techniques	2		history.
revolutions. CO4. Makes sure that it aids them to study the Colonial system and its impacts. CO5. Guides them to learn the narrative process, writing techniques	3.		CO3.Assists them to understand the
CO4. Makes sure that it aids them to study the Colonial system and its impacts. CO5. Guides them to learn the narrative process, writing techniques			background of America and the
study the Colonial system and its impacts. CO5. Guides them to learn the narrative process, writing techniques			revolutions.
impacts. CO5. Guides them to learn the narrative process, writing techniques			CO4. Makes sure that it aids them to
CO5. Guides them to learn the narrative process, writing techniques			study the Colonial system and its
narrative process, writing techniques			impacts.
			CO5. Guides them to learn the
and styles, along with			narrative process, writing techniques
1			and styles, along with
it's historical backdrop			it's historical backdrop

SEMESTE	SEMESTER-V		
		CO1. Analyze and discuss works of	
		American literature from a range of	
		genres (e.g. poetry, nonfiction, slave	
		narrative, captivity narrative, literary	
		fiction, genre fiction, sermon, public	
		proclamations, letters, etc.).	
		CO2. Identify relationships between	
		moments in American history,	
		colonialism, and culture and their	
4	AMERICAN LITERATURE –	representation in works of American	
1.	PAPER II	literature.	
		CO3.Articulate ways that American	
		literature reflects complex historical	
		and cultural experiences.	
		CO4. Produce a mix of critical,	
		creative, and/or reflective works about	
		American literature to 1865.	
		CO5.Evaluate new forms of space,	
		identity and writing that transformed	
		canonical English literary structures.	
		CO1. Demonstrate familiarity with the	
		principal texts of the Classical canon	
		(The Odyssey) and primary forms of	
		Classical literature (poetry, drama and	
2.	WORLD CLASSICS IN	novels).	
	TRANSLATION	CO2. Classics in translation facilitate	
		comparative study.	
		CO3.Discuss critically in a socio-	
		historical context some of those texts	
		and forms.	

		CO4.Demonstrate an understanding of
		the importance of Classical literature
		in the formation of Western
		civilisation.
		CO5.Access to psychological studies
		in literature
		CO1. Introduces the differences in
		Indian pronunciation and British
		pronunciation. Student's knowledge
		gets widen by recognizing the regional
		varieties of language which includes
		accent, style, jargon.
		CO2. Emphasis is given to the
		structural grammar and Ic analysis. It
		enables them to have knowledge on
_	ASPECTS OF ENGLISH LANGUAGE –III	approach of grammar.
3.	YEAR & SEMESTER	CO3.Introduces the significance of
		academic writing.
		CO4. The pronunciation practice
		makes the students to understand the
		variations and the writing style gets
		developed by the report writing,
		content writing and creative writing.
		CO5. Students have an insight on the
		internet for the Language purpose.
	INTRODUCTION TO LITERARY THEORY AND CRITICISM	CO1.To understand the basic concepts
		of major literary theories and
4.		criticisms.
		CO2.Guides in interpreting a text

		using a literary.
		CO3.Developes critical thinking with
		the aid of literary criticism.
		CO4.To identify the influence of
		literary theories in the contemporary
		literature.
		CO5.Students learn to analyse the
		themes and structure of a literary work
		using literary theories and criticisms.
		CO1.The students will be introduced
		to other scopes by learning the English
		language and literature and have a
	INTRODUCTION TO JOURNALISM	broader understanding on how
		literature and media is correlated and
		interconnected.
		CO2.It traces the history of journalism
		in Indian having a basic understanding
		of world press invention and
		development of print media.
5.		CO3.It discusses the aspects of press
		and the governing principles and
		assess the various components of news
		paper
		CO4.It analyze the importance of a
		news agencies, advertisements, photo
		journalism and News agencies and
		also look into how it is working.
		CO5.Evaluate the elements of
		reporting in print, radio, television,
		and online platforms and learn the

		editing, proof reading and designing in print and visual media.
6.	VALUE EDUCATION	CO1.Helps the students to become more responsible and sensible by inculcating values and morals to them through value education. CO2.To understand the importance of value based living in day to day life. CO3.Students will recognise, understand and appreciate the importance of being socially responsible in their life. CO4.Students develop the inner and external personality. CO5.Value education nurtures their minds against the social evils and prepares them to tackle such situations in the society.
SEMESTI	ZK- V I	CO1.This paper introduces students to
1.	POSTCOLONIAL LITERATURES IN ENGLISH	world literature that have changed the aspects in literary and political field. Thus, unit one which deals with African Literature introduces the African cultural and traditional forms through reading their literature. CO2.Defines the problems and consequences of colonization. It also identifies the key authors, and literary

		forms in Postcolonial Literature.
		CO3.Understand how ancestry, race,
		class, gender, history and identity are
		present in the literary texts of
		colonizers and the colonized.
		CO4.Examine the use of English
		language by the colonized to express
		their experiences and emergence of
		different English forms with culture
		specific words.
		CO5.Critical opinions about the
		contexts of exploration and
		colonialism in relation to postcolonial
		studies.
		CO1.Instructs the features of
	CONTEMPORARY LITERATURE	globalization
		CO2.Defines and introduces the
		background of war poetry
2.		CO3.Inculcate interests to focus on
2.		worried contemporary literature
		CO4.Ignites the minds to compare the
		glory of writings
		CO5.Focuses on the vocabulary of
		culture and society
3.	INDIANLITERATURES IN ENGLISH	CO1.Students will understand the
		evolution of Indian writing in English
		by explaining the colonization and the
		impacts which highly include the
		contemporary space.
		CO2.Identify the influence of Indian

		tradition and the impact of western
		colonization on Indian writers and
		literature.
		CO3.Students will be aware to analyze
		and interpret the Indian ethos found in
		the representative texts.
		CO4.Evaluate Indian English texts
		from post-colonial perspective by
		closely analyzing the language and
		form. It also introduces the ideal
		figures of modern Indian and
		Diasporic writers.
		CO5.It also makes students aware how
		literature helped the national
		movements and how it included
		political ideas in its genres.
		CO1. Introducing the specific issues
		on gender aspects through theories and
		concepts of feminism.
		CO2.Knowing the qualities of prose
		through feminist writers.
		CO3. Understanding the poetic forms
		and appreciation through learning
4.	WOMEN'S WRITING	poems from the perspectives of
		feminism.
		CO4.Imparting the dramatic nuances through drama written by female
		writers.
		CO5. To develop the reading ability in
		students through short stories by
		female writers.
		Terrare Wilters.

		CO1.To understand the history,
		evaluation and various developments
		in the field of translation studies with
		the help of various theories.
		CO2. Analyses the complexity of
		translation especially in translation a
	INTRODUCTION TO TRANSLATION	poetry
		CO3.Appreciate the various
5.	STUDIES	components of language like culture,
		philosophy and literary tradition that
		are carried over in the process of
		translation.
		CO4.To identify the problems of loss
		and gain.
		CO5.To analyse the limitations and
		facilitations of translation.

PROGRAMME NAME: BSW

PROGRAMOUTCOMES

PO1:Thecoursewillmakestudentunderstand social work, methods and models of social work practice

PO2: To understand the fields work practice and research in social work

PO3: To understand and practice ethical and professional behavior acquire knowledge in human rights and social, economic, environmental justice

PO4: Acquire the ability to develop communication, interpersonal and documentation skills

PO5: Develop skills for management of Non-Governmental Organisations.

PROGRAMME SPECIFIC OUTCOMES

PSO1:Acquireknowledgeonfundamentalssocial work, methods of social work and models of social work practice

PSO2: Understand the psychology and sociology to gain insight into the challenges faced by the problems in society.

PSO3:Be capable enough to understand the various fields of practice from children to elderly in life span of human.

PSO4: Explore in details the application of various methods of social work and application of research in social work practice

PSO5:Understanddetails the ethics and principles of social work practice and practice with people based on values of social work of equality and social justice

PSO6:Imbibe the values and ethics of social work practice

PSO7: To understand the skills required for social work practice and to use in practice.

PSO8: To develop the reporting skills in casework, group work and community organisation

PSO9:Understand the management and functioning of Nongovernmental organisations

PSO10:Equip themselves in social entrepreneurship skills and other related skills

SL.NO	COURSE NAME	COURSE OUTCOME		
SEMESTE	SEMESTER - I			
		CO1. To appreciate the history and philosophy of Social Work and its emergence as a profession.		
1.	SOCIAL WORK PROFESSION- HISTORY AND PHILOSOPHY CO2. philos CO3. beliefs	CO2. To comprehend its underlying ideologies, philosophical base, theories and approaches to practice.		
		CO3. To understand social work as a profession – its beliefs, values and principles.CO4. To develop an understanding of the various		

		methods and fields of Social Work practice.
		CO5. To gain an understanding of current trends in Social
		Work practice.
		CO1. To understand Sociology as a discipline and its
		relevance for Social Work
		CO2. To initiate an understanding of basic Sociological
		concepts about society, its structure and dynamics
	SOCIOLOGY FOR	CO3. To create the ability among students to analyse the
2.	SOCIAL WORK	Indian Social system, Social Phenomena & Social
		problems
		CO4. To understand social stratification
		CO5. To understand social change and social movements
		CO1. To develop an understanding of the Rights of
		Children and the Provisions for Ensuring justice
		CO2. To sensitize the students on the needs and problems
		of children in Indian society.
2		CO3. To explore health and educational services for
3.	CHILD RIGHTS	children
		CO4. To understand the child rights
		CO5. To understand the role of NGOS and to develop an
		understanding on the role of social work in working with
		Children in need
SEMESTER - II		
		CO1. To introduce the various methods of Social Work
	COCIAI WORK	practice
1.	SOCIAL WORK PRACTICE WITH INDIVIDUALS	CO2. To enable and explore the history, skills, principles,
		values, techniques and case work relationship
		CO3. To equip students with knowledge in various

		models of Case Work.	
		CO4. To understand the helping process	
		CO5. To understand the recording and supervision in	
		case work	
		CO1. To understand the term psychology, field of	
		psychology and relationship with social work	
		CO2. To understand principles of human development	
		process	
	WWW. CAN CROWN	CO3. To develop an understanding of the developmental	
2.	HUMAN GROWTH AND DEVELOPMENT	task in prenatal period to late childhood	
		CO4. To develop an understanding of the developmental	
		task in adulthood	
		CO5. To develop an understanding of the developmental	
		task in middle and old age and to learn to apply human	
		growth and development principles for better social work	
		interventions	
	UNSYSTEMS FOR DEVELOPMENT AND SOCIAL CHANGE	CO1. To enable students, familiarize with UN systems	
		andframeworks for development	
		CO2. To critically analyze the global issues and MDG	
		CO3. To understand Organizations of Economic and	
3.		Social Council	
		CO4. To explore Programmes of the UN - Aims and	
		Programmes	
		CO5. To understand UN Entities and other	
		relatedagencies – Aims and Programmes	
SEMESTER - III			
	SOCIAL WORK	CO1. To acquire knowledge of the objectives,	
1.	PRACTICE WITH	characteristics values of working with groups.	
	GROUPS	CO2. To understand the significance of the methods and	
		their uses in the Indian context and equipping students with	

		a broad range of skills in social work practice.
		CO3. To develop the necessary skills to apply the
		methods of working with groups.
		CO4. To understand the Stages in Social Group Work
		CO5. To understand Recording in Group Work and the
		Role of a Group Worker in Different Settings
		CO1. To understand the basic concepts of human
		behavior.
		CO2. To gain knowledge on psychological base of human
		behavior, perception, learning and intelligence
2.	HUMAN BEHAVIOUR	CO3. To understand the motivation and emotion
		CO4. To understand attitude, adjustment and defense
		mechanisms
		CO5. To understand mental health and community mental
		health
SEMESTE	R - IV	
		CO1. To Understand the community as a method, its
		specific approaches and models
		CO2. To develop the understanding of principles, historical
		development, model, approaches and social planning.
	SOCIAL WORK	CO3. To develop understanding of process and skills in
1.	PRACTICE WITH COMMUNITIES AND SOCIAL ACTION	community Organisation
		CO4. To understand the social action and models of social
		actions
		CO5. To understand Community Organisation & Social
		Action in different settings
		CO1. Understand the importance of economics and
	ngovoras :	politics for social work.
2.	ECONOMIC AND POLITICAL SYSTEMS	CO2. Understand the Indian political and economic
	AND PROCESSES	system and be able to examine problem situations in the

		field.
		CO3. Develop skills in analyzing the political &
		economic processes in the context of development/under
		development.
		CO4. To know the performance of Five Year Plans in
		India and to realize the significance of economic &
		political aspects of planning.
		CO5. To understand problems in the economic and
		political system of India
SEMESTE	R - V	
		CO1. Develop an understanding of the administration
		process in the agency in the total frame of social work
		practice.
		CO2. Develop ability to apply the basic principles of
		social work to administration of social welfare and
	SOCIAL WELFARE ADMINISTRATION	development agencies.
		CO3. To acquire knowledge and skills of the basic
1.		components of the administrative and organization
		process.
		CO4. Develop an understanding of the procedures related
		to establishment and management of social welfare
		organization/agencies governmental and non-
		governmental
		CO5. To understand the human resource development
		CO1. To understand Generalist Practice as a method of
		Social Work
	GENERALIST	CO2. To equip the students with knowledge and skills in
2.	PRACTICE OF SOCIAL WORK	the Integrated Method of Social Work Practice
	SOCIAL WORK	
		CO3. To understand the planning in generalist practice
		CO4. To understand the intervention

		CO5. To understand Evaluation & Termination
		CO1. To develop an understanding of the nature, purpose
		and importance of social work research
		CO2. To develop competence to conceptualise a problem,
		analyse and assess social problems and needs at the micro-
		level
	SOCIAL WORK	CO3. To understand the types of Research, Research
3.	RESEARCH AND STATISTICS	Design & Sampling:
		CO4. To acquire research skills in conducting research by
		developing ability to prepare appropriate tools and collect
		the data
		CO5. To understand Basic Statistical analysis of data
	FIELDS OF SOCIAL WORK	CO1. To develop an understanding regarding the macro
		level of practice in Social Work and to develop skills in
		students to envisage, plan and work out strategies in
		working with different macro level interventions
4.		CO2. To understand Social Work with the Senior
4.		Citizens
		CO3. To understand Social Work with Rural and Urban
		Communities
		CO4. To understand Social Work with the Displaced
		CO5. To understand the social work practice in industries
		CO1. To gain an understanding of Gender positions in
		society
	WOMEN DEVELOPMENT	CO2. To enable students, comprehend the various domains
5.	DEVELOPMENT- ISSUES AND CONCERNS	of development and its impact on men and women
		CO3. To understand the various approaches to
		development processes specifically for women
		CO4. To empower students with skills in social work

		practice for women's development
		CO5. To understand the legislations related to woman
SEMESTE	R - VI	
		CO1. To understand the concept and dimensions of health
		– physical, social, environmental and mental health.
		CO2. To give the student an insight into etiology,
		symptoms, treatment and prevention of communicable
		disease, non-communicable diseases, deficiency diseases
		and physical handicaps.
1.	HEALTH CARE	CO3. To appreciate indigenous systems and their
		influence on holistic health
		CO4. To help the student understand the role of the
		government in the health issues
		CO5. To understand of international organisation related
		to health
	DISASTER PREPAREDNESS AND RISK REDUCTION	CO1. To develop an understanding of ecological balance
		and imbalance.
		CO2. To understand the process of Disaster Management.
		CO3. To know the Disaster Management Framework in
2.		India.
		CO4. To analyse the role of social worker in disaster
		management.
		CO5. To understand the legislation for disaster
		management
	SOCIAL ENTERPRISE MANAGEMENT	CO1. To provide students with an overview on Social
		Enterprise as a major sector
3.		CO2. To introduce concepts underlying Social Enterprise
		Management
		CO3. To equip students with skills and strategies that

		would empower them to become Social Entrepreneurs or take up Leadership/Managerial roles in social Enterprises CO4. To understand the resource of social enterprise CO5. To understand the measuring impact of social entrepreneurship
4.	CONFLICT AND PEACE BUILDING	CO1. To develop appreciation for India's multi-cultural and multi- religious traditions and sensitivity towards difference CO2. To need to create peace and integration among people CO3. To develop the capacity to understand the wide range of activities associated with capacity building, reconciliation and societal transformation CO4. To understand peace interventions and social change CO5. To understand National and International agencies and their Interventions

PROGRAMME OUTCOME, PROGRAMME SPECIFIC OUTCOME & COURSE OUTCOME(POSTGRADUATE COURSES)

ProgrammeName:-M.Sc INFORMATION TECHNOLOGY

Programme Outcomes:

PO1: Apply the knowledge of mathematics, science and computing in the core information technologies.

PO2: Identify, design, and analyze complex computer systems and implement and interpret the results from those systems

PO3: Design, implement and evaluate a computer-based system, or process component, to meet the desired needs within the realistic constraints such as economic, environmental, social, political, ethical, health, Safety, and sustainability.

PO4: Select and apply current techniques, skills, and tools necessary for computing practice and integrate IT-based solutions into the user environment effectively.

PO5: Analyze the local and global impact of computing on individuals, organizations, and society.

PO6: Apply ethical principles and responsibilities during professional practice.

PO7: Function effectively as a team member or a leader to accomplish a common goal in a multidisciplinary team.

PO8:Communicate effectively with a range of audiences using a range of modalities including written, oral and graphical.

Programme Specific Outcomes

PSO1: To apply knowledge of recent computing technologies, skills and current tools of Information technology

PSO2: To design and conduct experiments, as well as to analyze and interpret data.

PSO3: To Understand the contemporary research issues in the different areas of computer science

PSO4: To explore research gaps, analyze and carry out research in the specialized/emerging areas.

PSO5: To design software systems, components or processes to meet identified needs within economic, environmental and social constraints.

PSO6: To express/present ideas in an impressive and professional manner.

PSO7: To recognize the need to engage in lifelong learning through continuing education and research

PSO8: To work in multidisciplinary and multicultural environment, become entrepreneur based upon societal needs, understanding of professional, social and ethical responsibilities.

SEMESTER-I

S. No	Course Name	Course Outcome
		CO1. Understand the concept of Dynamic memory
		management, data types, algorithms, Big O notation.
		CO2. Understand basic data structures such as arrays,
		linked lists, stacks and queues.
	C++ AND DATA	CO3. Describe the hash function and concepts of
1.	STRUCTURES	collision and its resolution methods Solve problem
		involving graphs, trees and heaps
		CO4. Apply Algorithm for solving problems like sorting,
		searching, insertion and deletion of data
		CO1. Explain the organization of basic computer, its
		design and the design of control unit.
		CO2. Demonstrate the working of central processing unit
		and RISC and CISC Architecture.
2	COMPUTER	CO3. Describe the operations and language f the register
2.	ARCHITECTURE	transfer, micro operations and input- output organization.
		CO4. Understand the organization of memory and memory
		management hardware. Elaborate advanced concepts of
		computer architecture, Parallel Processing, interprocessor
		communication and synchronization
3.	DATABASE	CO1. Describe the fundamental elements of relational

	MANAGEMENT	database management systems Explain the basic concepts
	SYSTEMS	of relational data model, entity-relationship model,
		relational database design, relational algebra and SQL
		CO2. Design ER-models to represent simple database
		application scenarios
		CO3. Convert the ER-model to relational tables, populate
		relational database and formulate SQL queries on data.
		CO4. Improve the database design by normalization.
		CO5. Familiar with basic database storage structures and
		access techniques: file and page organizations, indexing
		methods including B tree, and hashing.
		CO1. Demonstrate fundamental skills in utilizing the tools
		of a visual environment such as command, menus and
		toolbars.
	VISUAL	CO2. Implement SDI and MDI applications using forms,
4.	PROGRAMMING	dialogs, and other types of GUI components.
	PROGRAMMING	CO3. Understand the connectivity between VB with MS-
		ACCESS, ORACLE and SQL and SQL database
		CO4. Implement the methods and techniques to develop
		projects.

SEMESTER-II

S. No	Course Name	Course Outcome
		CO1. To understand the design of control unit.
		CO2. Understanding CPU Scheduling,
		Synchronization, Deadlock Handling and Comparing
1.	OPERATING SYSTEMS	CPU Scheduling Algorithms.
		CO3. Solve Deadlock Detection Problems. Describe
		the role of paging, segmentation and virtual memory in
		operating systems.

		CO4. Description of protection and security and also
		the Comparison of UNIX and Windows based OS.
		CO5. Defining I/O systems, Device Management
		Policies and Secondary Storage Structure and
		Evaluation of various Disk Scheduling Algorithms.
		CO1. Use the syntax and semantics of java
		programming language and basic concepts of OOP.
		CO2. Develop reusable programs using the concepts of
		inheritance, polymorphism, interfaces and packages.
2.	PROGRAMMING IN JAVA	CO3. Apply the concepts of Multithreading and
	JAVA	Exception handling to develop efficient and error free
		codes.
		CO4. Design event driven GUI and web related
		applications which mimic the real word scenarios.
		CO1. Understand the functionality of the various data
		mining and data warehousing component
		CO2. Appreciate the strengths and limitations of
		various data mining and data warehousing models
		CO3. Explain the analyzing techniques of various data
		CO4. Describe different methodologies used in data
3.	DATA WAREHOUSING AND DATA MINING	mining and data ware housing.
		CO5. Compare different approaches of data ware
		housing and data mining with various technologies.
		CO1. Understand the basic concepts and applications
		of the Internet and World Wide Web.
	INTERNET	CO2. Apply relevant Internet knowledge to enhance
4.	TECHNOLOGY	their understanding of other networking situations.
		CO3. Use current Internet Technology necessary for
		daily life application.

S. No	Course Name	Course Outcome
		CO1. Understand basic computer network technology.
		CO 2. Identify the different types of network topologies
		and protocols.
		CO3. Enumerate the layers of the OSI model and TCP/IP.
		CO 4. Identify the different types of network devices and
1	COMPUTER	their functions within a network
1.	NETWORKS	CO5. Understand and building the skills of sub-netting and
		routing mechanisms.
		CO6. Familiarity with the basic protocols of computer
		networks, and how they can be used to assist in network
		design and implementation
		CO 1. Able to Argue the correctness of algorithms using
		inductive proofs and Analyze worst-case running times of
		algorithms using asymptotic analysis.
	DESIGN AND ANALYSIS OF ALGORITHMS	CO 2. Able to explain important algorithmic design
		paradigms (divide-and-conquer, greedy method, dynamic-
		programming and Backtracking) and apply when an
		algorithmic design situation calls for it.
2.		CO3. Able to Explain the major graph algorithms and
		Employ graphs to model engineering problems, when
		appropriate.
		CO4. Able to Compare between different data structures
		and pick an appropriate data structure for a design
		situation.
		CO5. Able to Describe the classes P, NP, and NPComplete
		and be able to prove that a certain problem is NP-Complete
		CO1. Develop program using event handling.
3.	ADVANCED JAVA PROGRAMMING	CO2. Use network concepts (client/server, socket) in the
]		program.

	CO3. Develop program using JDBC connectivity to access	
		data from database and execute different queries to get
		required result.
		CO4. Develop web-based program using servlet and JSP
		CO1. Explain various Information security threat and
		controls for it.
		CO2. Analyze a security incidents and design
		countermeasures.
		CO3. Explain information security incident response.
		CO4. Apply the techniques of Common Key cryptography
		and Public Key cryptography.
4.	INFORMATION	CO5. Explain the mechanism to protect confidentiality and
	SECURITY	completeness of data.
		CO1. Explain the basics of mobile Computing
		CO2. Describe the functionality of Mobile IP and
		Transport Layer
		CO3. Classify different types of mobile telecommunication
5.	MOBILE COMPUTING	systems
	COMPUTING	CO4. Demonstrate the Adhoc networks concepts and its
		routing protocols
		CO5. Make use of mobile operating systems in developing
		mobile applications.

SEMESTER-IV

Project (Viva-Voce)

ProgrammeName:-M.Sc COMPUTER SCIENCE

Programme Outcomes:

PO1: Be technology-oriented with the knowledge and ability to develop creative solutions, and better understand the effects of future developments of computer systems and technology on people and society.

PO2: Get some development experience within a specific field of Computer Science, through project work.

PO3: Get ability to apply knowledge of Computer Science to the real-world issues.

PO4: Be familiar with current research within various fields of Computer Science.

PO5: Use creativity, critical thinking, analysis and research skill.

PO6: Learn new technology, grasping the concepts and issues behind its use and the use of computers.

PO7: Get prepared for placement by developing personality & soft skills.

PO8: Communicate scientific information in a clear and concise manner.

PO9: Build up programming, analytical and logical thinking abilities.

PO10: Be able to understand the role of Computer Science in solving real time problems in society.

PO11: Know the recent developments IT, future possibilities and limitations, and understand the value of lifelong learning.

Programme Specific Outcomes

PSO1: Enrich the knowledge in the areas like Artificial Intelligence, Web Services, Cloud Computing, Paradigm of Programming language, Design and Analysis of Algorithms, Database Technologies Advanced Operating System, Mobile Technologies, Software Project Management and core computing subjects.

PSO2: Students understand all dimensions of the concepts of software application and projects.

PSO3: Students understand the computer subjects with demonstration of all programming and theoretical concepts with the use of ICT.

PSO4: Developed in-house applications in terms of projects.

PSO5: Interact with IT experts & knowledge by IT visits.

PS06: Get industrial exposure through the 6 months project in IT industry.

PS07: To make them employable according to current demand of IT Industry and responsible

citizen.

PS08: Aware them to publish their work in reputed journals.

SEMESTER-I

S. No	Course Name	Course Outcome
		CO1. Able to Argue the correctness of
		algorithms using inductive proofs and Analyze
		worst-case running times of algorithms using
		asymptotic analysis.
		CO2. Able to explain important algorithmic
		design paradigms (divide-and-conquer, greedy
	1	method, dynamic-programming and
		Backtracking) and apply when an algorithmic
		design situation calls for it.
1.	DESIGN AND ANALYSIS	CO3. Able to Explain the major graph
	OF ALGORITHMS	algorithms and Employ graphs to model
	01 1220 0 122 1211 125	engineering problems, when appropriate.
		CO4. Able to Compare between different data
		structures and pick an appropriate data structure
		for a design situation.
		CO5. Able to Describe the classes P, NP, and
		NP Complete and be able to prove that a certain
		problem is NP-Complete
		CO1. Design GUI using AWT
		CO2. Develop program using event handling.
		CO3. Use network concepts (client/server,
	ADVANCED JAVA	socket) in the program.
2.	PROGRAMMING	CO4 Daveler magness voing IDDC
2.	PROGRAMMING	CO4. Develop program using JDBC
2.	PROGRAMMING	connectivity to access data from database and
2.	PROGRAMMING	

		and JSP
		CO1. To understand the basics of system
		programs like editors, compiler, assembler,
		linker, loader, interpreter and debugger.
		CO2. Describe the various concepts of
		assemblers and macro processors.
		CO3. To understand the various phases of
3.	SYSTEM SOFTWARE	compiler and compare its working with
		assembler.
		CO4. To understand how linker and loader
		create an executable program from an object
		module created by assembler and compiler.
		CO5. To know various editors and debugging
		techniques
	THEORETICAL FOUNDATIONS OF COMPUTER SCIENCE	CO1. Analyze language-recognition and
		generation-problems through the powers and
		limitations of abstract formal models of
		computation (regularity, contextfreedom,
		recursive enumerability), and identify possible
		machine and/or grammar constructions for the
		languages
4.		CO2. Identify and implement possible machine
		and/or grammar constructions for language-
		recognition and generation-problems with
		resource-restrictions:
		determinism/nondeterminism, "normal-form"
		machines/grammars, variants of
		machines/computation models
		CO3. Constructions of machines and/or
		grammars for language-recognition and

	generation-problems follow general
	programming paradigms such as semantics of
	states/variables, recursion/induction/iteration-
	loops, and divide/conquer.
	CO4. Limitations of the abstract formal models
	of computation are studied through
	contradictory arguments (pumping lemmas),
	closure properties, and diagonalization
	argument.

SEMESTER-II

S. No	Course Name	Course Outcome
		CO1. Understand basic computer network
		technology.
		CO2. Identify the different types of network
		topologies and protocols.
		CO3. Enumerate the layers of the OSI model
		and TCP/IP.
		CO4. Identify the different types of network
1.	COMPUTER NETWORKS	devices and their functions within a network
		CO5. Understand and building the skills of
		subnetting and routing mechanisms.
		CO6. Familiarity with the basic protocols of
		computer networks, and how they can be used to
		assist in network design and implementation
		CO1. Review the fundamental concepts of a
		digital image processing system.
		CO2. Analyze images in the frequency domain
2.	DIGITAL IMAGE PROCESSING	using various transforms.

		CO3. Evaluate the techniques for image
		enhancement and image restoration.
		CO4. Categorize various compression
		techniques.
		CO5. Interpret Image compression standards.
		CO6. Interpret image segmentation and
		representation techniques.
		CO1. Explain OOAD concepts and various
		UML diagrams
		CO2. Select an appropriate design pattern
		CO3. Illustrate about domain models and
	OBJECT ORIENTED ANALYSIS AND DESIGN	conceptual classes
3.		CO4. Compare and contrast various testing
		techniques
		CO5. Construct projects using UML diagrams
		CO1. Explain the basics of mobile Computing
		CO2. Describe the functionality of Mobile IP
		and Transport Layer
	MOBILE COMPUTING	CO3. Classify different types of mobile
		telecommunication systems
4.		CO4. Demonstrate the Adhoc networks concepts
		and its routing protocols
		CO5. Make use of mobile operating systems in
		developing mobile applications

SEMESTER-III

S. No	Course Name	Course Outcome
		CO1. Understand the major phases of
1.	Principles of Compiler	compilation and to understand the knowledge of
	Design	Lex tool & YAAC tool Develop the parsers and

		experiment the knowledge of different parsers
		design without automated tools
		CO2. Construct the intermediate code
		representations and generation
		CO3. Convert source code for a novel language
		into machine code for a novel computer
		CO4. Apply for various optimization techniques
		for dataflow analysis
		CO1. Explain various Information security
		threat and controls for it.
		CO2. Analyze a security incidents and design
		countermeasures.
		CO3. Explain information security incident
		response.
2.	Information Security	CO4. Apply the techniques of Common Key
2.	information Security	cryptography and Public Key cryptography.
		CO5. Explain the mechanism to protect
		confidentiality and completeness of data.
		CO1. Demonstrate fundamental understanding
		of the history of artificial intelligence (AI) and
		its foundations
		CO2. Apply basic principles of AI in solutions
		that require problem solving, inference,
3.	Artificial Intelligence	perception, knowledge representation, and
		learning.
		CO3. Demonstrate awareness and a fundamental
		understanding of various applications of AI
		techniques in intelligent agents, expert systems,
		artificial neural networks and other machine

		learning models.
		CO4. Demonstrate proficiency developing
		applications in an 'AI language', expert system
		shell, or data mining tool.
		CO5. Demonstrate proficiency in applying
		scientific method to models of machine
		learning.
		CO6. Demonstrate an ability to share in
		discussions of AI, its current scope and
		limitations, and societal implications
		CO1. Apply the fundamental concepts of
		cryptography
		CO2. Describe the difference between
		symmetric and asymmetric cryptography
		CO3. Define the basic requirements for
		cryptography
		CO4. Identify processes to support secure
	~	protocols
4.	Cryptography	CO5. Describe the process for implementing
		cryptographic systems
		CO6. Define key management concepts
		CO7. Define Public Key Infrastructure
		CO8. Identify processes for key administration
		and validation
		CO9. Describe the implementation of secure
		protocols
	Multimedia Systems	CO1. Describe the types of media and define
		multimedia system.
5.		CO2. Describe the process of digitizing
		(quantization) of different analog signals (text,
		graphics, sound and video).

	CO3. Use and apply tools for image processing,
	video, sound and animation.
	CO4. Apply methodology to develop a
	multimedia system.
	CO5. Apply acquired knowledge in the field of
	multimedia in practice and independently
	continue to expand knowledge in this field.

SEMESTER-IV

Project (Viva-Voce)

ProgrammeName:-MSW

Programme Outcomes:

PO1:Transformthestudentsintoprofessionalsocialworkerscommittedtothevaluesofsocialworkbymaximizingopportunitiesforeveryindividualtorealizehisorherhighest potential.

PO2:Advancepracticeofknowledge, values and skills consistent with the highest ideals of the profession.

PO 3: Promoter espect, awareness and appreciation for culture and social justice at every level of the society.

PO4: To develop research skills and social action

PO5: To understand the social worker specialisation in human resource management, medical and psychiatric social work and community development

PROGRAMME SPECIFIC OUTCOMES

PSO1:Acquireknowledgeonfundamentalssocial work practice, methods and field of social work and scope of social work practice

PSO2:To understand and be able to do self-introspection to get trained to be efficient social workers

PSO3: Understand and practice the values and skills of social work practice

PSO4:Proficientlybeabletofollow the ethical guidelines of social work profession both in national and international perspectives

PSO4:GraspthefundamentalconceptsofNaturalandAcquiredimmunityand the role of organs and cells in the development of immune response.

PSO5:Understandthe social work profession in cultural perspective and to get the understanding of counselling methods of intervention

PSO6: Be capable on understanding various models of practice including indigenous models

PSO7: To learn the theory and practice of social work research and how to conduct action-oriented research and pure research

PSO8: To explore and application of linkage of social work theory, practice and research in social work practice.

PSO9: To understand and explore the labour legislations, industrial relations, organisation behaviours and human resource management as social workers and understand how to apply social work interventions in the field

PSO10: To understand the skills and knowledge required to equip the students as medical social workers, psychiatric social workers, community health workers and understand how to apply social work interventions in the field

PSO11: To clearly understand rural community development, urban community development, development planning and entrepreneurship development as social workers and understand how to apply social work interventions in the field

POS12: To have clear understanding of social legislations, management of organisations, counselling and fields of social work practice.

M.S.W SEMESTER-I

S.NO	COURSE NAME	COURSE OUTCOME
		CO1. To gain an understanding of the history and
		philosophy of Social Work and its emergence as a
		Profession
	COCIAI WORK	CO2. To develop insights into the origin and
	SOCIAL WORK	development of Voluntary organization
1	PROFESSION -	CO3. To understand the ideologies, theories and
1.	HISTORY AND	approaches in social work
	PHILOSOPHY	CO4. To appreciate Social Work as a Profession and to
		recognize the need and importance of Social Work
		Education and training
		CO5. To understand international social work practice
_	WORK WITH INDIVIDUALS (SOCIAL CASE WORK)	CO1. To understand Social Case Work as a method of
		Social Work and develop skills in Social Work practice
		CO2. To understand the helping process
		CO3. To comprehend theory and models and apply
2.		them in direct practice with individuals
		CO4. To understand the tool and techniques of working
		with individuals
		CO5. To become aware of the scope of using the
		methods in various settings
		CO1. To understand Group Work as a method of Social
	WORK WITH	Work and develop skills in practice
3.	GROUPS (SOCIAL	CO2. To understand models and apply them in practice
	GROUP WORK)	with groups
	SHOOT WORK	CO3. To understand the phases of social group work
		200. To understand the phases of social group work

		process
		CO4. To understand the group processes and dynamics
		CO5. To become aware of the scope of using the
		method in various settings
		CO1. To get exposed to wider area of social realities at
		the micro level
		CO2. To develop analytical and assessment skills of
		social problems at the level of individual, group and
	FIELD WORK	community and local, regional, national and
4.	PRACTICUM I	international dimensions
		CO3. To acquire documentation skills to ensure
		professional competence
		CO4. To develop the right values and attitudes required
		for a professional social worker
		CO5. To link theory into practice
		CO1. To give an understanding of concepts in
	SOCIAL AND	Psychology and Sociology relevant to Social Work.
		CO2. To understand the various stages of Human
	PSYCHOLOGICAL	Growth and Development.
5.	FOUNDATIONS FOR	CO3. To understand the behaviour and mental health
	SOCIAL WORK	CO4. To enable the student to gain knowledge about
		the society and its dynamism
		CO5. To understand the social movements in India
SEMES	TER-II	
		CO1. To understand a community as a social system
	001515	CO2. To understand the history of CO and models
	COMMUNITY	CO3. To learn techniques and skills of CO as a
1.	ORGANIZATION &	method of Social Work
	SOCIAL ACTION	CO4. To understand social action as a method of
		social work
	<u> </u>	

		CO5. To understand methods and approaches in Community Organisation and Social Action
2.	SOCIALWORK RESEARCH AND STATISTICS	CO1. To understand the nature, principles and methods of Social Work Research CO2. To develop the skills of independently conceptualizing a problem and executing a research study CO3. To understand the designs, methods and tool of collecting data CO4. To understand qualitative research CO5. To understand and learn the application of appropriate statistical techniques in Social Work Research
3.	FIELD WORK PRACTICUM -II	CO1. Acquire knowledge and practice related to social work intervention at the individual, group and community level in different fields. CO2. To train students to practice social work from an ecological, development and integrated perspective CO3. Develop skills for problem solving in work at the micro level and change at the macro level. CO4. Provide concurrent opportunity for the integration of class-room learning and Field Practicum CO5. Develop professional values and commitment and the professional ideal
4.	DISASTER MANAGEMENT	CO1. To develop an understanding of eco system equilibrium and dis-equilibrium CO2. To develop skills to analyze the factors

		contributing to disaster
		CO3. To develop and understanding of the process of
		Disaster Management
		CO4. To understand the legislations and policy related
		to disaster management
		CO5. To understand the stress management
		CO1. To help students get a better understanding of
		HIV / AIDS in India
		CO2. To enable students in developing skills to work
		with people living with HIV
	WORKING WITH	CO3. To encourage students in understanding the
5.	PEOPLE LIVING	ethical and human rights issues
	WITH HIV / AIDS	CO4. To understand the approaches to working and
		awareness raising and preventive Programmes in the
		field of people living with HIV/AIDS
		CO5. To understand the social and legal issues related
		to HIV/AIDS.
		CO1. To develop an understanding of the perspective of
		gender and development
		CO2. To develop and ability to identify areas of work
		with women and men and concept of feminism
6.	GENDER AND	CO3. To understand the protective measures for women
0.	DEVELOPMENT	in India
		CO4. To understand the global perspectives in women
		development
		CO5. To understand strategies and interventions that
		changes the situation.
SEMES	TER-III	
1.	RURAL COMMUNITY	CO1. To Understand the community as a method, its
	DEVELOPMENT	specific approaches and models
		CO2. To develop ability to utilize appropriate

		approaches and skills to work with communities	
		CO3. To develop sensitivity and commitment towards	
		issues of marginalized and oppressed groups.	
		CO4. To understand rural community development and	
		rural administration	
		CO5. To understand Rural Governance: Panchayat	
		systems and local self-government in ancient India.	
		CO1. Gain knowledge about the Concepts, Principles	
		and Strategies of HRD	
		CO2. Understand the strategic role and efficient use of	
	HUMAN RESOURCE	human resources	
2.	MANAGEMENT AND	CO3. Acquire the skills of implementing Strategic HR	
	DEVELOPMENT	aiming at higher practices; Acquiring counseling skills.	
		CO4. To understand training and development and	
		talent development	
		CO5. To understand employee empowerment	
		CO1. To develop an in-depth understanding of the	
		patients and their problems and to enhance social work	
		skills and intervention in health care settings.	
		CO2. To develop a holistic and integrated approach to	
		Medical Social Work practice.	
		CO3. To develop an analytical view in relation to the	
3.	MEDICAL SOCIAL	Psychological, Socio – cultural & environmental factors	
<i>J</i> •	WORK	in disease and to develop an inter-interdisciplinary	
		approach in the health care settings.	
		CO4. To understand the medico legal issues and	
		medical social work department	
		CO5. To understand medical social work in different	
		settings	
4.	URBAN COMMUNITY	CO1. To enable students to gain an understanding about	

	DEVELOPMENT	the urban poor.	
		CO2. To develop sensitivity and commitment for	
		working with the urban poor.	
		CO3. To expose students to skills and techniques of	
		working with urban poor.	
		CO4. To understand the urban community development	
		in India and people participation	
		CO5. To understand conscientization and programme	
		planning	
		CO1. Gain knowledge about labour legislations and	
		labour welfare	
		CO2. Understand the legal provisions of labour welfare	
5.	LABOUR	CO3. Acquire the skills of working with corporate	
3.	LEGISLATIONS	sector and legislations related to wages	
		CO4. To understand the social security legislations	
		CO5. To understand the enforcement authorities	
		CO1. To acquire knowledge of various treatment	
		approaches and to develop appropriate skills	
	PSYCHIATRIC	CO2. To understand the need for preventive and	
		promotive approaches	
6.	SOCIAL WORK	CO3. To develop ability to apply Social work methods	
	Social Works	in the promotion of mental health.	
		CO4. To understand the rehabilitation in Psychiatry	
		CO5. To understand the policies and programmes	
		related to mental health.	
		CO1. To understand the environment and its impact on	
	MANAGEMENT OF	nature, structure and development of the organizations	
7.	ORGANIZATIONS	in corporate, public and voluntary sectors.	
	5	CO2. Understand policies and procedures involved in	
		establishing and maintaining human service	

		organization, need for change.
		CO3. To understand the programme development
		CO4. To understand project management
		CO5. Acquire skills to network and participate in the
		management of resources - human material,
		environmental and network.
		CO1. To study the rural and semi-rural life in all its
		ramifications including group dynamics and power
		structure in rural community
		CO2. To develop an understanding of the process of
		programme formulation and programme management
		of the rural local bodies, government and non-
		government agencies
		CO3. To practically understand the concept of
		Industrial Relations and to acquire the related
		competencies
		CO4. To familiarize with the Labour Legislations
8.	FIELD WORK PRACTICUM III	CO5. To learn to apply the various methods of Social
		Work in various Industrial Settings
		CO6. To equip the students with the necessary
		assessment skills to understand the psycho-social
		problems of the patient and family with respect to the
		consequences of the disease and disability
		CO7. To enable the students to practice the methods of
		Social Work, particularly, Social Case work and Social
		Group Work
		CO8. To enable the students to function as a member of
		the Multidisciplinary team with respect to the Medical,
		Physical and Psycho-social Treatments.
9.	COUNSELING -	CO1. To develop a basic understanding of theory and

	THEORY AND skills in counselling	
	PRACTICE	CO2. To learn the different approaches and to develop
		an eclectic approach to counselling
		CO3. To integrate counselling skills in social work
		practice
		CO4. To understand the Egan model of counselling
		CO5. To understand the counselling in different
		settings.
		CO1. To develop an understanding of the social policy
		in the perspective of the National Goals as stated in the
		Constitution
	SOCIAL POLICY AND	CO2. To develop the capacity to recognize the linkage
10	SOCIAL POLICY AND SOCIAL LEGISLATION	between development issues and social policy in terms
10		of the plans and programmes
		CO3. To develop an understanding of the concepts of
		social policy and social welfare policy
		CO4. To understand the policy and planning in India
		CO5. To understand the major legislations in India
	HUMAN RIGHTS AND SOCIAL WORK	CO1. To provide a perspective and foundation for a
		human rights culture among students.
		CO2. To create awareness on the Indian legal system,
		rule of law, human rights related to custody and
11		detention.
		CO3. To equip students with knowledge about the
		global market and human rights.
		CO4. To understand the rights of marginalized sections
		CO5. To understand the human rights movements
SEMES'	TER-IV	
	DEVELOPMENT PLANNING	CO1. To develop theoretical understanding of
1.		development and planning
		CO2. To enable students to gain an understanding of

the administrative machinery involved		the administrative machinery involved in development.	
		CO3. To provide knowledge on various methods	
		strategies and development efforts. CO4. To understand the role and contribution of professional social worker in the development.	
		CO5. To understand the cooperative movement in India	
		and development of SC and ST	
		CO1. To gain knowledge about trade unions	
		CO2. To understand functions and activities of trade	
	INDICTOIAI	unions	
2	INDUSTRIAL DELATIONS AND	CO3. To understand conciliation and collective	
2.	RELATIONS AND	bargaining	
	LABOUR WELFARE	CO4. To understand the labour welfare	
		CO5. To acquire the skill of working with the workers	
		and unions and employee empowerment	
		CO1. To develop an understanding of the Health Care	
		System in India.	
		CO2. To develop skills in planning and implementation	
		of Community Health programmes.	
3.	COMMUNITY	CO3. To understand the health policy and programmes	
3.	HEALTH	and communicable and non-communicable diseases	
		CO4. To understand maternal and child health	
		CO5. To have an insight into the existing programmes	
		and services at the local, National and International	
		level.	
		CO1. To enable students comprehend the role of	
		entrepreneurship in economic development	
4.	ENTREPRENEURSHIP	CO2. To provide an understanding, nature and process	
4.	DEVELOPMENT	of entrepreneurship development	
		CO3. To motivate the students to innovate and develop	
		entrepreneurial initiatives	
	•	•	

		CO4. To understand the entrepreneurship personality	
		characteristics	
		CO5. To understand small scale industries	
		CO1. To help students gain knowledge on the dynamics	
		of human behavior in the organization setup.	
		CO2. To enable students to gain understanding on the	
	ODC ANIZATIONAL	factors influencing human behavior in organization	
_	ORGANIZATIONAL	CO3. To understand the key pillars of organization	
5.	BEHAVIOUR AND	behaviour	
	DEVELOPMENT	CO4. To understand the foundation of Organisation	
		behaviour	
		CO5. To help students to build knowledge and develop	
		skill in implementation of OD practices.	
		CO1. To understand the concept of Mental Health and	
		Positive Mental Health and acquire knowledge of	
		Psychiatric disorders	
		CO2. To develop skills in identifying mental disorders	
	MENTAL HEALTH	in health setting and community work.	
6.	AND SOCIAL WORK	CO3. To sensitize students of the need for a proactive,	
		preventive approach in mental health.	
		CO4. To understand the psychiatric assessment	
		CO5. To understand the mental health programme	
		among vulnerable groups.	
		CO1. To enable the students to understand socio-	
		economic dynamics with special reference to the family	
	EIEI D WODK	setting.	
7	FIELD WORK PRACTICUM IV	CO2. To focus on urban community life pattern – its	
7.		social, economic, political and cultural aspects with	
		specific focus to informal settlements, their needs and	
		problems	
		CO3. To practically understand the concept of	

	Industrial Relations and to acquire the		
		competencies	
		CO4. To familiarize with the Labor Legislations	
		CO5. To learn to apply the various methods of Social	
		Work in various Industrial Settings	
		CO6. To equip the students with the necessary skills for	
		the Psychosocial assessment of persons with mental	
		disorders and disabilities	
		CO7. To apply the methods of Social Work in the	
		management of persons with mental disorders.	
		CO1. Understand migration in the context of	
		development and displacement	
		CO2. Explore current and emerging trends on internal	
	MIGRATION ISSUES	and International migrations	
8.	AND HUMAN	CO3. Acquire knowledge on determinants of migration	
	SECURITY	and rights of Migrants	
		CO4. To understand international migration and	
		globalization	
		CO5. To understand migration and human security.	
		CO1. To provide an understanding into the extent and	
		nature of unorganized workers in Urban and rural India.	
	SOCIAL WORK IN	CO2. To understand the unorganized sector	
		CO3. To provide an understanding to the problem of	
9.	THE UNORGANIZED	unorganized worker, nature of work and services	
	SECTOR	available for these groups	
		CO4. To understand policies, programmes and	
		legislations	
		CO5. To develop skills for intervention and working	
		with the workers of the unorganized sector	
10.	SOCIAL WORK AND	CO1. To develop understanding of the needs and	
	PERSONS WITH	problems of persons with disability.	

	DISABILITY	CO2. To understand policies, programmes and services	
		available to persons with disability.	
		CO3. To provide opportunities for social work	
		intervention to the persons with persons	
CO4. To understand UN decla		CO4. To understand UN declaration of human rights of	
		disabled persons	
		CO5. To understand work, occupation and disability.	
		CO1. To enable students, familiarize with UN systems	
	UN SYSTEMS FOR DEVELOPMENT AND SOCIAL CHANGE	and frameworks for development	
		CO2. To familiarize students with current UN	
		documents, treaties and policies for development	
11.		CO3. To understand Organisation of economic and	
11.		social council	
		CO4. To understand the programme of the UN	
		CO5. To critically analyze the functioning and	
		achievements of the UN Systems	

Programme: M.COM (GENERAL)

Programme Outcomes:

- **PO1.** To provide a systematic and rigorous learning and exposure to Banking and Finance related disciplines.
- **PO2.** To train the student to develop conceptual, applied and research skills as well as competencies required for effective problem solving and right decision making in routine and special activities relevant to financial management and Banking Transactions of a business.
- **PO3.** To acquaint a student with conventional as well as contemporary areas in the discipline of Commerce.
- **PO4.** To enable a student well versed in national as well as international trends.

- **PO5.** To facilitate the students for conducting business, accounting and auditing practices, role of regulatory bodies in corporate and financial sectors nature of various financial instruments.
- **PO6.** To provide in-depth understanding of all core areas specifically Advanced Accounting, International Accounting, Management, Security Market Operations and Business Environment, Research Methodology and Tax planning.

Programme Specific Outcome (PSO)

- **PSO1.** Develop an ability to apply knowledge acquired in problem solving.
- PSO2. Ability to work in teams with enhanced interpersonal skills and communication.
- **PSO3**. The students can work in different domains like Accounting, Taxation, HRM, Banking and Administration.
- **PSO4**. Ability to start their own business.
- **PSO5**. Ability to work in MNCs as well as pvt, and public companies.
- **PSO6**. To develop team work, leadership and managerial and administrative skills

COURSE OUTCOME:

S.NO	COURSE NAME	COURSE OUTCOME
SEMEST	TER - I	
		CO1. To familiarize the concept of price level
		changes, social responsibility accounting and
		human resources accounting
		CO2. Enable the students to understand about
		amalgamation, absorption and external
	ADVANCED CORPORATE ACCOUNTING AND ACCOUNTING STANDARDS	Reconstruction
		CO3. To make them aware about accounting
1.		procedures of banking companies and Insurance
		Companies
		CO4. Enable the students to gain an idea of
		liquidation of companies
		CO5. To introduce and develop knowledge of
		Holding Companies and Subsidiary Companies
		accounts
		CO1. Understanding the basics of Financial
2.	FINANCIAL MANAGEMENT	Management.

		CO2. Enabling students to understand the
		concepts of the Investment, Financing and
		Working Capital.
		CO3. Students get knowledge about effective
		finance management.
		CO1. Demonstrate the applicability of the
		concept of organizational behavior to understand
		the behavior of people in the organization.
		CO2. Demonstrate the applicability of analyzing
		the complexities associated with management of
		individual behavior in the organization.
3.	ORGANIZATIONAL	CO3. Analyze the complexities associated with
	BEHAVIOUR	management of the group behavior in the
		organization.
		CO4. Demonstrate how the organizational
		behavior can integrate in understanding the
		motivation (why) behind behavior of people in
		the organization.
		CO1. Understanding the applications of
		managerial economics.
	MANAGERIAL ECONOMICS	CO2. Interpret regression analysis and discuss
		why it's employed in decision-making.
		CO3. Discuss optimization and utility including
		consumer behavior.
4.		CO4. Assess the relationships between short-run
		and long-run costs.
		CO5. Analyze perfectly competitive markets
		including substitution.
		CO6. Explain uniform pricing and how it relates
		to price discrimination and total revenue.
		CO7. Analyze a chosen company to include the
		Cor. I maryze a chosen company to include the

		above, but to further make recommendations for
		the company based upon the weekly topics.
		CO1. Benefits of CRM to companies and
		consumers
	CRM AND RELATIONSHIP	CO2. How to implement CRM best practices
5.	MARKETING	CO3. The importance of bonding and building
		loyalty with customers
		CO4. How to build long term customer
		relationships
SEMESTI	ER - II	•
		CO1. To know about the preparation of Cost sheet
		of business concerns
		CO2. To get the knowledge about the preparation
	ADVANCED COST AND MANAGEMENT ACCOUNTING	of cost control
		CO3. To understand the methods of payment in
		wages
		CO4. To extend the knowledge through the
		preparation of overheads and machine hour rates
1.		CO5. Understand the nature of standard costing
		and demonstrate the necessary skills to calculate
		advanced variances.
		CO6. Understand and critique both the theoretical
		issues and influences on practical decisions
		associated with multi-product break-even
		analysis.
		CO7. Identify and evaluate the key factors that in
		luence transfer pricing.
2.		CO1. Understand the Concept of Services and
	MARKETING OF SERVICES	intangible products
		CO2. Discuss the relevance of the services

		Industry to Industry
		CO3. Examine the characteristics of the services
		industry and the modus operand
		CO4. Analyse the role and relevance of Quality in
		Services
		CO5. Visualise future changes in the Services
		Industry
		CO1. Identify the major influences in consumer
		behaviour
		CO2. Distinguish between different consumer
		behaviour influences and their relationships
	CONSUMER BEHAVIOIUR	CO3. Establish the relevance of consumer
		behaviour theories and concepts to marketing
3.		decisions
		CO4. Implement appropriate combinations of
		theories and concepts
		CO5. Recognise social and ethical implications
		of marketing actions on consumer behaviour
		CO6. Use most appropriate techniques to apply
		market solutions
		CO1. Understand the fundamental principles of
		Total Quality Management;
		CO2. Choose appropriate statistical techniques for
4	TOTAL QUALITY	improving processes;
4.	MANAGEMENT	CO3. Develop research skills that will allow them
		to keep abreast of changes in the field of Total
		Quality Management
SEMESTE	ER - III	
1.	RESEARCH METHODOLOGY	CO1. Identify and discuss the role and

		importance of research in the social sciences.
		CO2. Identify and discuss the issues and
		concepts salient to the research process.
		CO3. Identify and discuss the complex issues
		inherent in selecting a research problem,
		selecting an appropriate research design, and
		implementing a research project.
		CO4. Identify and discuss the concepts and
		procedures of sampling, data collection, analysis
		and reporting.
		CO1. Apply complex theories and practice of
		knowledge and intellectual capital management;
		CO2. Apply theories to a wide range of
		scenarios;
	KNOWLEDGE MANAGEMENT	CO3. Formulate action plans for knowledge
2		intensive organisations;
2.		CO4. Distinguish aspects of industrial era
		management that may be inappropriate for
		knowledge intensive organisations and provide
		alternatives;
		CO5. Formulate a framework for thinking about
		knowledge intensive organisations;
		CO1.Understand basic concepts and terminology
	FUNDAMENTALS OF INFORMATION	of information technology.
3.		CO2. Have a basic understanding of personal
3.	TECHNOLOGY	computers and their operations.
		CO3. Be able to identify issues related to
		information security.
	CONSUMER RIGHTS AND	CO1.Understand why consumers need protection
4.	EDUCATION	CO2.Understand the role of consumer guidance
		society of India

		CO3.Understand the advantages and limitations
		of the consumer movement and the rights of
		consumers
		CO4.Understand business malpractices and
		legislative regulation to protect consumer
		CO1. Students able to Categorize business
		activities, such as production, management, and
		finance, and describe how these activities relate
		to marketing. •
		CO2. Describe the history of the advertising
		industry and its relation to today's marketplace.
	ADVERTISING AND SALESMANSHIP	CO3. Explain the impact of multiculturalism and
5.	O'ADDOWN NOTH	multi-generationalism on advertising marketing
		activities.
		CO4. Identify the importance of understanding
		cultural diversity from a marketing perspective.
		CO5. Identify the expected wages and salaries
		for jobs in the advertising and marketing
		industry
		CO1. Students understand the ethical issues
		related to business and good governance
		necessary for long term survival of business.
		CO2. Apply a pragmatic and pluralistic approach
	BUSINESS ETHICS,	to business ethics and CSR
	CORPORATE GOVERNANCE & SOCIAL	CO3. Evaluate how decisions are actually made
6.	RESPONSIBILITY	in business ethics.
		CO4. Explain ethical issues that are found in
		corporate governance and shareholder
		relationships.
		CO5. Explain the rights and duties of employees
		to the organization and the issues around this

		stakeholder group.
		CO6. Identify the key ethical elements with
		respect to suppliers and competitors.
		CO7. Develop an understanding of the
		relationship between business and civil society
		organizations (CSO).
SEMESTE	ER - IV	
		CO1. Analyze and evaluate financial markets,
		how securities are traded, mutual funds,
		investment companies, and investor behavior.
		CO2. Construct optimal portfolios and illustrate
	INVESTMENT ANALYSIS AND PORTFOLIO THEORY	the theory and empirical applications of asset
1.		pricing models.
		CO3. Analyze bond prices and yields and fixed-
		income portfolios.
		CO4. Characterize the implications of the market
		efficiency evidence on active portfolio
		management.
		CO1. To give an idea about fundamentals of
		financial services and players in financial sectors
		CO2. To create an awareness about merchant
		banking, issue management, capital markets and
		role of SEBI
	MERCHANT BANKING AND	CO3. To understand the concept of leasing, hire
2.	FINANCIAL SERVICES	purchase and factor
		CO4. Know the basics of the Merchant Banking
		in India.
		CO5. Understand the functioning of Merchant
		Bankers related to Issue Management Process,
		Substantial Acquisition of Equity Shares,

		Buyback of Equity Shares and Delisting of
		Shares.
		CO6. Know the regulatory environment in which
		the Merchant Bankers operates in India.
		CO1. Have developed an understanding of major
		issues related to international marketing
		CO2. Have developed skills in researching and
	INTERNATIONAL	analyzing trends in global markets and in
3.	MARKETING	modern marketing practice
		CO3. Be able to assess an organization's ability
		to enter and compete in international markets.

PROGRAMME: MSC VISUAL COMMUNICATION

Programme Outcomes:

PO1: Creative Thinking: Take informed actions after identifying the assumptions of the visual medium implications and evaluating the validity & usefulness of the decisions taken.

PO2: Effective Communication: Speak, read, write and listen in English and one Indian language and communicate effectively and interact with people.

PO3: Social Interaction: Draw out view of others, moderate lack of agreement and lend a hand to reach views and executing the ideas through the visual medium.

PO4: Ethics: Be socially responsible in creating media content and realize its impact on the society, not forgetting the values of the society.

PO5: Life-long learning: Acquire the ability to continuously keep updated in the latest trends and technologies of modern and new media.

Programme Specific Outcome (PSO)

PSO1: Understand the basic nature and basic concepts of Development of Visual Communication, Media Laws and Ethics, Media Economics, New Media Technology, Media Language, Media Research, International Media, Media Content and Dissertation on any media issue.

PSO2: Understand the applications of Photography, 3D Animation, Audio and Video Production, Radio & Television Technology and Computer Animation

including Cinema.

PSO3: Perform procedures as per laboratory standards in the areas of Drawing and Graphic designing, Advance Photography, Video Editing, Script writing, Computer Graphics, Web Designing & Development, Graphics and Animation, Documentary Film Making.

PSO4: Understand the concepts of Elements of Film, Media Culture and Society, Advertising and Corporate Communication, Cable & Satellite Communication, Production Management, Communication Skills and Media Organization.

PSO5: Analyze the fundamentals of computers and their usage in the areas of 2D, 3D graphics & ANIMATION, Television, and film production.

S.NO	COURSE NAME	COURSE OUTCOME	
SEMES'	SEMESTER - I		
		CO1. Get knowledge in Nature and Scope of	
		human communication.	
	INTRODUCTION TO	CO2. Understand the Theories of Interpersonal	
	HUMAN	Communication.	
1.	COMMUNICATION	CO3. Get knowledge on Theories of Persuasion.	
		CO4.Understand Public Communication.	
		CO5. Understand what is Visual Persuasion-	
		Semiotic Approach	
	MEDIA AESTHETICS	CO1. Gain knowledge in Principles of design and	
		applied media aesthetics, contextualisation and	
		perception.	
		CO2. Have a detail knowledge in Structuring Light	
		and Lighting.	
2.		CO3. Understand the Structuring color, functions,	
		compositions and feel.	
		CO4. Understand the Structuring space-area and	
		frames, depth and volume.	
		CO5. Have a detail knowledge in two and three	
		dimensional space and its visual possibilities.	

		CO1. Have a thorough knowledge in Early
		Cinema-Indian.
		CO2. Have detail understanding in Post
		Independence and Parallel Cinema.
		CO3. Gaining the knowledge in European, Asian
3.	INDIAN CINEMA	and Latin American Cinema-Directors.
		CO4. Have a good knowledge Indian Films-
		Decades.
		CO5. Understand the Contemporary Indian
		Cinema-Directors.
		CO1. Understand the Story Problems-Terminology
		of Story Design.
		CO2. Gain knowledge about Elements of Story.
		CO3.Have detail view in Principles of Story
	STORY DEVELOPMENT & SCRIPTWRITING	Design.
4.		CO4. Have a good knowledge in Scriptwriting
		Tools and Techniques, Formats.
		CO5. Understand the Script Analysis-Exercises,
		Drills, Case Studies.
		CO1. Understand Film Language as a visual
		communication system.
		CO2. Understand Basic elements and tools,
		Camera Movements.
5.	FILM LANGUAGE	CO3. Gain knowledge Editing-Triangle Principles,
		visual punctuation, transition.
		CO4. Have detail view in Signs, Syntax, Montage
		Codes, Framed Images, Diachronic Shots, Scene
		motion.

		CO5. Gain knowledge in Guidelines and Rules of
		Filming (staging), dialogue, matching, glances.
SEMES	ΓER – II	
		CO1. Have detail view in Visual Culture in India.
		CO2. Understand the Film Culture.
		CO3. Gain knowledge in Folk Media and
	VISUAL CULTURE IN	Narratives.
1.	INDIA	CO4. Have a thorough knowledge Cartoon and
		Comic Traditions in India.
		CO5. Have a detail view in Visual Culture/Urban
		Culture.
		CO1. Understand Terminology of Story Design.
		CO2.Have a detail view on Elements of Story.
		CO3. Gain knowledge in Principles of Story
	STORY DEVELOPMENT	Design.
2.	& SCRIPTWRITING	CO4. Have a detail view on Scriptwriting Tools and
		Techniques, Formats.
		CO5.Understand Script Analysis-Exercises, Drills,
		Case Studies.
		CO1. Gain knowledge in Film Language as a
		visual communication system.
		CO2. Have a detail view on Basic elements and
		tools, Camera Movements.
		CO3. Gain knowledge in Editing-Triangle
3.	FILM LANGUAGE	Principles, visual punctuation, transition.
		CO4. Understand Signs, Syntax, Montage Codes,
		Framed Images, Diachronic Shots, Scene motion.
		CO5. Have a detail view on Guidelines and Rules
		of Filming.
4.		CO1. Have a detail view on Visual Culture in

	VISUAL CULTURE IN	India.
	INDIA	CO2. Gain knowledge in Film Culture.
		CO3. Gain knowledge in Popular Culture in India,
		Folk Media and Narratives.
		CO4. Understand Cartoon and Comic Traditions in
		India.
		CO5.Understand Contemporary Visual
		Culture/Urban Culture.
		CO1. Gain knowledge in Early Cinema-World-
		Indian Beginning to World War.
		CO2.Understand detail view on Hollywood
		Cinema
5.	WORLD CINEMA	CO3.Have knowledge in European Films and Film
3.		Makers.
		CO4.Gain knowledge in Asian and Latin American
		Cinema-Directors.
		CO5.Have a detail view on Contemporary Cinema.
SEMES	TER – III	
		CO1. Have knowledge in Research Process.
		CO2.Gain knowledge in Content Analysis of
		Visual Images.
		CO3. Have a detail view on Social Semiotic
1.	VISUAL RESEARCH METHODS	Approach.
	METHODS	CO4. Have knowledge in Audience Survey,
		Reception Analysis.
		CO5.Gain knowledge in Researching for Story.
		CO1 H 14 7 2 34 34 7 1
	ENTERTAINMENT & SOCIETY	CO1. Have a detail view on Mass Mediated
2.		Entertainment.
	SOCIETI	CO2. Understand detail view on Narrative Theory

		and Dramatic Theory.
		CO3. Gain knowledge in Understanding
		Entertainment Audiences.
		CO4.Gain knowledge in News as Entertainment.
		CO5. Understand detail view on Business of
		Entertainment
		CO1. Gain knowledge in Mass Communication.
		CO2. Have a detail understanding Structuralisms
		Expressionism.
		CO3. Gain knowledge in Cinema Vetier Realism.
3.	FILM ANALYSIS &	CO4. Understand detail view on Post-modern
	CRITICISMS	approaches, Feminist Approaches.
		CO5. Have a detail understanding Contemporary
		Cinema.
SEMES	TER – 1V	
		CO1. Have a detail understanding Market-
	PROJECT MANAGEMENT	Industries.
		CO2. Have a detail view on Project Management.
		CO3. Gain knowledge in Talent Management.
1.		CO4. Gain knowledge in Scheduling, Time
		Management, Delivery, Distribution, Contingency
		Plan.
		CO5. Have a detail view on Project Finance and
		Budgeting.
		CO1. Have a detail understanding Gaming History.
2.	GAME DESIGN	CO2. Gain knowledge in Social and Cultural
		implications of games.
		CO3. Have a detail view on Game design.
		CO4.Understand Stages and Process of Design-
		Game Scripting/Writing.

CO5. Have a detail view on Mobile Gaming,

M.SC. Applied Microbiology

Program Outcomes (PO)

PO1: Post Graduants will obtain wide knowledge and leadership skills for a self confidence for successful career in the field of Microbiology

PO2: Post Graduants will be able to investigate and explain applied science based problems in clinical, environmental, industrial and pharmaceutical oriented

PO3: Post Graduants will work as a team with each other enthusiastically to solve the problems with innovative thoughts and new techniques

PO4: Post Graduants will acquire practical skills - plan & execute experimental techniques independently as well as to analyse interpret data.

PO5: Post Graduants will effectively be able to manage available resources in time.

PO6: Post Graduants will be able to learn separately and develop critical thinking and solve the recent issues in Applied Microbiology.

PO7: Post Graduants will achieve ability to communicate competently and able to understand moral and social responsibility.

PO8: Post Graduants will carry on to learn and to adjust themselves in a world of constantly growing recent research.

Program Specific Outcomes (PSO)

Students who graduate with a Master of Science in Applied Microbiology will,

PSO1: Acquire a significant knowledge on fundamental and advanced aspects of Applied Microbiology.

PSO2: Gain in-depth knowledge on different antimicrobial activities from the viewpoint of targets, resistance mechanisms and spectrum evaluation methods.

PSO3: Increase proficiency in laboratory techniques of basic microbiology, Instrumentation, microbial genetics, molecular biology, medical, applied microbiology, Food and Agricultural Microbiology.

PSO4: To understand the immune system of human being and grasp the fundamental concepts of immunity and the contribution of organs and cells in the development of immune response against antigen.

PSO5: Add insight into the various aspects of immunogenetics, molecular immunology and clinical biochemistry.

PSO6: Assimilate technical skills on immune technology, Medical Microbiology, Applied microbiology and biotechnology.

PSO7: Acquire research skills- in problem-oriented issues in the society and environment, to plan & execute experimental techniques independently as well as to analyse & interpret the data.

Course Outcomes Semester 1:

S. No	SUBJECT	COURSE OUTCOME
1.	MICROBIAL TAXONOMY	CO1. Acquire knowledge on different taxonomical classifications CO2. Know about classification of bacteria CO3. Gain knowledge about classification of fungi CO4. Gain knowledge about taxonomical classification of protozoa CO5. Know about algae.
2.	GENERAL MICROBIOLOGY & LABORATORY ANIMAL SCIENCE	CO1. To obtain knowledge on various classes of microorganisms; their structure extracellular and intracellular components, cultural characteristics and their growth conditions. CO2. Know about the different parts and working mechanisms of basic light microscope up to electron microscopes, phase contrast microscope, dark field

		microscopy and instrument like centrifuges with deep
		knowledge on the sample preparation and staining
		techniques like differential staining, special staining
		method,
		CO3. Acquire knowledge on sterilization techniques with
		adequate information on sterile, aseptic conditions and
		disinfection. To have brief learning about culturing
		techniques and nutrition requirements.
		CO4. To get adequate knowledge about algae and their
		types and beneficial uses of their by products
		CO5. They will get enormous knowledge about lab animal
		handling and their maintenance.
		CO1. Understanding about the fundamental concepts of
		immunity and its types, contributions of theorgans and
		cells in immune responses.
		CO2. Understand about the antigens & their properties and
		involvement in immune response
		CO3. Understand the different types of antibodies like
		monoclonal and polyclonal& their production.
		CO4. Understand the mechanisms involved in antigen-
3.	IMMUNOLOGY	antibody reactions like agglutination and Precipitation and
		getting adequate knowledge
		CO5. Gaining adequate knowledge about tissue
		transplantation and tumor immunology
		CO6. Comprehensive knowledge leading to hypersensitive
		conditions and its consequences in immune system
		CO7. Know how MHC functions in the immune system
		CO8.Gain knowledge on vaccines, immunization and its
		schedule
4	METADOLICALITY	CO1. The structure and function of specialised proteins and
4.	METABOLIC PATHWAYS	enzymes.

		CO2. The relationship between the structure and function
		of specific biological molecules.
		CO3. How enzymes are regulated.
		CO4. The main principles of metabolic biochemistry
		concepts.
		CO5. How homeostasis is controlled in the body.
		CO6. The function of specific anabolic and catabolic
		•
		pathways and how these pathways are controlled and interrelated.
		CO7. How current research has provided us with an
		understanding of the molecular basis of the control of metabolism.
		CO8. Be able to communicate scientific information
		effectively in writing.
		CO9. Hypothesis-based experimental design
		CO1. Describe common groups of bacteria and archaea in
		different ecosystems, and their role in biogeochemical key
		processes in these environments.
		CO2. Describe for cultivation-independent methods for
		studies of the composition of microbial communities and
		for the function and occurrence of individual groups.
		CO3. Describe genomic-based methods to study microbial
		diversity in nature and for the mechanisms behind it.
5.	MICROBIAL DIVERSITY	CO4. Describe important interactions within microbial
		communities and between microorganisms and plants and
		animals.
		CO5. Evaluate, synthesise and present scientific studies of
		genetic and functional microbial diversity in different
		ecosystems.
		CO6. Use bioinformatic tools and databases that are used
		to study microbial diversity.

		CO1. Understand the structural similarities and differences			
		among microorganisms and theunique structure/function			
		relationships of prokaryotic cells.			
		CO2. Know the fundamentals of microbial gene expression			
		and regulation.			
		CO3. Appreciate the diversity of microorganism and			
		microbial and communities and recognize how			
		microorganism solve the fundamental problems their			
		environments present.			
	GENERAL MICROPIOLOGY 8	CO4.Understand how microorganisms cause disease.			
6.	MICROBIOLOGY & LABORATORY ANIMAL SCIENCE, IMMUNOLOGY - PRACTICAL	CO5. Use an understanding of general immunity, serology			
		principles, accurate performance of serological assay			
		procedures and correct interpretation of test results, to			
		make appropriate and effective on-the-job professional			
		decisions.			
		CO6. Perform basic serological laboratory testing, assess			
		laboratory data and report findings according to laboratory			
		protocol.			
		CO7. Adapt serology laboratory techniques and procedures			
		when errors and discrepancies in results are obtained to			
		effect resolution in a professional and timely manner.			

Semester 2:

S. No	SUBJECT	COURSE OUTCOME		
1.	VIROLOGY	CO1. Gain information properties of viruses, virions and		
		prions		
		CO2. Acquire basic knowledge bacterial viruses		
		CO3. Acquire knowledge on various plant viruses		
		CO4. Get adequate knowledge about different DNA and		
		RNA viruses		

		CO5. Assimilate knowledge on epidemiology, diagnosis
		and treatment of various viral disease.
2.	SYSTEMIC MEDICAL BACTERIOLOGY	CO1, Learn the methods of collection, transport and processing of clinical specimens. CO2. Gain knowledge on antibiotic sensitivity discs, testing procedures and their quality control. CO3. Know the morphological, biochemical, cultural properties of bacteria. CO4. Get complete information about fungal characterization CO5. learn about Isolation and characterization of bacteriophages
3.	MYCOLOGY AND PARASITOLOGY	CO1. Acquire detailed knowledge on taxonomy of Fungi and Lichens. CO2. Obtain complete knowledge about the mycoses. CO3. Understanding of diagnostic mycology. CO4. Assimilate Mycotoxins and antifungal agents. CO5. In-depth knowledge on life cycle, pathogenecity and lab diagnosis Protozoan diseases. CO6. Gain knowledge on Helminth parasites. CO7. A thorough knowledge on parasites causing infections in immunocompromised hosts and AIDS.
4.	INDUSTRIAL & PHARMACEUTICAL MICROBIOLOGY	CO1. Basic understanding about screening, isolation and preservation of industrially important microbes. Co2. Grasp the information on design of inoculum development and nutritional media. CO3. Gain knowledge on various factors influencingfermentation process. CO4. Obtain knowledge on microbial growth kinetics and sterilization processes. CO5. Obtaining in-depth information on scale-up process.

		CO6. Assimilate knowledge on industrially important		
		microbes.		
		CO7. Gain the knowledge on commercial production		
		primary and secondary metabolites such as amino acids		
		and antibiotics		
		CO1. Understanding about the fundamental concepts of		
		bioinformatics.		
		CO2. Understanding about the fundamental types of		
	BIOSTATISTICS & BIOINFORMATICS	databases.		
		CO3. Understanding about the fundamental concepts of		
5.		Human genome project.		
		CO4. Understanding about the concepts of sequence		
		comparison analysis.		
		CO5. Understanding about the fundamental concepts of		
		DNA microarray and next generationsequencing		
		CO1. Learn the methods of collection, transport and		
	PRACTICAL – SYSTEMIC	processing of clinical specimens.		
	BACTERIOLOGY,	CO2. Gain knowledge on antibiotic sensitivity discs,		
6.	MYCOLOGY, PARASITOLOGY AND VIROLOGY	testing procedures and their quality control.		
		CO3. Know the morphological, biochemical, cultural		
		properties of bacteria.		

Semester 3:

S. No	SUBJECT	COURSE OUTCOME			
		CO1. Understand historical events inDNA research.			
		CO2. Molecular basis of heritable through experimental			
		evidences.			
1.	MICROBIAL GENETICS	CO3. Know in detail of the physical & chemical properties			
		and structure of DNA & RNA.			
		CO4. Gain knowledge about the organization of			

		chromosomes and its various types.
		CO5. Understood the replication mechanism of double-
		strand and single- strand DNA bacterial and viral system.
		CO6. Assimilate knowledge regarding extra chromosomal
		DNA and its different types and function and mechanism
		of transfer and integration with host chromosome. :
		Rudimentary knowledge about plasmids and transposons
		especially as cloning vectors.
		CO7. Study the various aspects and types mutation and its
		impact on the environment.
		CO8. Get a complete map about molecular recombination
		process DNA and RNA in both prokaryotes & eukaryotes.
		CO9. Firm grasp of E.coli gene mapping methods as well
		as those of yeast
		CO1. Technical know - how on versatile techniques in
		recombinant DNA technology.
	GENETIC ENGINEERING	CO2. An understanding on application of genetic
2.		engineering techniques in basic and applied experimental
		biology
		CO3. Proficiency in designing and conducting experiments
		involving genetic manipulation.
		CO1. Acquire knowledge about the basic structure of
		biomolecules and their stability
		CO2. Attain knowledge about the basics in structure of
		Nucleic acid and their various forms.
3.	MOLECULAR BIOLOGY	CO3. Learn about the organization of genetic materials in
3.	MOLECULAR BIOLOGY	organisms.
		CO4. Study about the types of damage and repair
		mechanisms.
		CO5. Know about the mechanisms DNA replication,
		transcription and translation processes in organisms.

		CO6. Acquire knowledge about various types and
		processing in RNA molecule.
		CO7. Gain knowledge in the mechanisms of gene
		expression.
		CO8. Achieve knowledge about the regulation of gene
		activity at various level.
		CO1. understand the factors influencing presence of and
		activities of microorganisms in different soils
		CO2. explain influence of pesticides on soil
	SOIL AND	microorganisms
4.	AGRICULTURAL	CO3. explain biodegradation and biofuel generation
	MICROBIOLOGY	CO4. Develop skills in using techniques for isolation,
		characterization and identification of soilmicroorganisms
		CO5. Identify pesticide degrading microorganisms by
		using microbiological techniques.
		CO1. Gain knowledge on causes and effects of biofilm.
	ENVIRONMENTAL	CO2. Assimilate the principles and designing of
		bioreactors.
_		CO3. In-depth knowledge on Waste water treatment
5.	BIOTECHNOLOGY	systems.
		CO4. Obtain complete knowledge on biodegradation of
		environmental contaminants.
		CO5. Get clear view about biomass from the wastes.
		CO1. Acquire knowledge about thebasic isolation and
		purification of the major macromolecules.
	PRACTICAL:MICROBIAL	CO2. Attain knowledge about theestimation of of Nucleic
	GENETICS,	acids and proteins.
6.	MOLECULAR BIOLOGY & GENETIC ENGINEERING	CO3. Learn about the various electrophoresis methods.
		CO4. Study about the types of damage and repair
		mechanisms. Know about the mechanisms
		DNAtransformation and gene transfer methods.
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	CO5.	Acquire	knowledge	about	PCR	and	restriction
	analys	is.					

Semester 4:

S. No	SUBJECT	COURSE OUTCOME			
		CO1. Know the microorganisms present in different			
		types of food.			
		CO2. Understand the principles behind food preservation			
		and the various methods involved in it.			
		CO3. Comprehend the factors influencing microbial			
		growth and survival in foods.			
		CO4. Know the role of microorganism in fermentation			
		and the various types of fermented foodproducts.			
	FOOD, DAIRY AND	CO5. Know the spoilage organisms in different types of			
1.	ENVIRONMENTAL MICROBIOLOGY	foods			
	WHENOBIOLOGI	CO6. Realize the importance of food sanitation and			
		appreciate the practice of GMPs.			
		CO7. Gives knowledge about various aquatic habitats			
		and treatment of liquid waste.			
		CO8. Understand the degradation of xenobiotic, aromatic			
		and phenolic compounds.			
		CO9. Gives knowledge about bioaccumulation and bio			
		fouling.			
		CO1. The role of research in service industries and in			
		other contexts			
		CO2. Methodological considerations and research design,			
2.	RESEARCH	the research process			
	METHODOLOGY	CO3. Identification of research approaches and			
		evaluating research strategies			
		CO4. Setting research aim(s) and objectives			
		- v			

		CO5. Critically reviewing literature and secondary data	
		CO6. Critical thinking skills, and how these relate to	
		research	
		CO7. Types of data: quantitative and qualitative	
		CO8. Selecting samples and exploring research	
		techniques	
		CO1. Collecting primary data through observation,	
		interviews and questionnaires	
		CO2. Data interpretation such as the use of basic	
		descriptive statistics as well as relationships within data	
		sets and tests of significance.	
		CO3. Research Ethics, Data presentation techniques and	
		research report writing.	
		CO1. Quantify the organisms present in food.	
		CO2. Analyse the microbiological quality of raw milk by	
		MBRT and Resazurin test	
	DD A CTICAL COLL	CO3. Evaluate the microbiological quality of curd by	
3.	PRACTICAL – SOIL, AGRICULTURAL, FOOD	Standard Plate Count	
3.	AND ENVIRONMENTAL	CO4. Isolate and identify the yeast and mould in spoiled	
	MICROBIOLOGY	foods	
		CO5. Identifying the toxins in grains by Thin Layer	
		Chromatography	
		CO6. Analyse the potabilty of water	

BRANCH: M.Sc BIOTECHNOLOGY

PROGRAM OUTCOME

PO1: Graduate will gain and apply knowledge of biotechnology, Science and Engineering concepts to solve problems related to the field of biotechnology.

PO2: They will be able to design and apply appropriate tools and techniques in biotechnological engineering practices.

PO3: Graduates will able to undertake need and impact of biotechnological solution on environment and societal context keeping in view need for sustainable development.

PO4: They are able to effectively communicate with biotech and other interdisciplinary professionals.

PO5: They will be able to design, perform experiments analyze and interpret data for investigating complex problem in biotechnology related fields.

PROGRAM SPECIFIC OUTCOME

PSO1: An expert in Biotechnology subjects knowledge.

PSO2: An expert in Biotechnology practical skills

PSO3: Efficient researcher using biotechnology practical skills.

PSO4: Development of own entrepreneur skills in biotechnology industry.

PSO5: Well versed in the field of various biotechnology fields (medical, microbial, agricultural, environmental, plant and animal).

S.NO	COURSE NAME	COURSE OUTCOME			
SEMESTER I					
		CO1.Students will be able to demonstrate an			
		understanding of fundamental biochemical			
		principles, such as the structure/function of			
		biomolecules,			
1.	BIOCHEMISTRY	CO2.Students will able to demonstrate			
		metabolic pathways, and the regulation of			
		biological/biochemical processes.			
		CO3.Students will able to apply the scientific			
		method to the processes of experimentation			

		and hypothesis testing
		CO4.Students able to apply and effectively
		communicate scientific reasoning and data
		analysis in both written and oral forums
		CO1.Be able to demonstrate their
		understanding of biochemical and molecular
		genetics phenomena
		CO2. Be able to demonstrate knowledge of
		the current state of research in particular areas
2.	MOLECULAR GENETICS	of the biomolecular sciences.
4.	WIOLECULAR GENETICS	CO3.Be able to relate genetics and
		biochemistry to cellular and organismal
		processes
		CO4.Be able to describe mechanisms of
		biochemical processes.
		CO1. Exhibit a knowledge base in cell and
		molecular biology. Elucidate structure of the
		cell and their organization into tissue.
		CO2. Critique and professionally present
		primary literature articles in the general
3.	MOLECULAR CELL	biomedical sciences field
	BIOLOGY	CO3. Exhibit clear and concise
		communication of scientific data
		CO4.Engage in review of scientific literature
		in the areas of biomedical sciences
		CO1.Discuss the applications of biophysics
4.	BIOINSTRUMENTATION	and principle involved in bioinstruments
		CO2.Describe the methodology involved in
		biotechniques

		CO3.Describe the applications of
		bioinstruments
		CO4.Demonstrate knowledge and practical
		skills of using instruments in biology and
		medical field
		CO1.Describe the major classes of enzyme
		and their functions in the cell;
		CO2. Explain the role of co-enzyme cofactor
		in enzyme catalyzed reaction;
		CO3.Differentiate between equilibrium and
5.	ENZYMOLOGY	steady state kinetics and analyzed simple
		kinetic data and estimate important parameter
		(Km. Vmax, Kcatetc);
		CO4. define and describe the properties of
		enzymes in and regulates biochemical
		pathways
		CO1.Describe the roles biostatistics serves in
		the discipline of public health.
		CO2.Apply basic statistical concepts
	BIOSTATISTICS	commonly used in public health and health
		Sciences
6.		CO3.Demonstrate basic analytical techniques
		to generate results
		CO4.Interpret results of commonly used
		statistical analyses in written summaries.
		Demonstrate statistical reasoning skills
		accurately and contextually
SEMES	STER II	
1.		CO1. Exhibit knowledge about normal and
1.	MICROBIOLOGY	common pathogenic microorganism

		approximated with Income in the C. I.
		associated with human infectious diseases.
		Explains importance of microbes in various
		field
		CO2.Students will be able to acquire,
		articulate, retain and apply specialized
		language and knowledge relevant to
		microbiology.
		CO3.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.
		CO4. Students will communicate scientific
		concepts, experimental results and analytical
		arguments clearly and concisely, both verbally
		and in writing.
		CO1.Apply biotechnological methods for
		basic research
		CO2.Apply bimolecular methods to veterinary
		pharmacology, to the design, correct use and
		traceability of medicines
		CO3. Apply biomolecular techniques for the
2.	PLANT AND ANIMAL	diagnosis and study of epidemiology and
	BIOTECHNOLOGY	etiopathogenesis of infective and parasitic
		animal diseases, as well as for the production
		of biotechnological vaccines for veterinary
		use;
		CO4.An appreciation of the issues associated
		with growing and using transgenic plants as

		food crops.
		CO1. Students may obtain interest in
		Molecular biology research
		CO2. Students may acquire knowledge about
		the methods of Rdna technology.
2	CENERIC ENGINEEDING	CO3. Understand the importance of plasmids
3.	GENETIC ENGINEERING	and viruses to genetic engineering
		CO4. Know the natural function of restriction
		endonucleases and how a normal bacterial cell
		protects its DNA from their activity.
		CO1.Describe the principles of tissue
	TISSUE ENGINEERING	engineering
		CO2.Describe clinical applications of tissue
		engineered products in regenerative medicine
		CO3. Define the importance of scaffold
4.		materials in tissue engineering with focus on
		surface-, mechanical- and biological
		properties
		CO4.Describe different scaffold materials and
		define in what applications these materials can
		be applied
		CO1.Acquire knowledge in basic principles of
		genetic engineering and enzyme technology
		CO2. Apply the principles of biosensors and
5.	PHARMACEUTICAL	protein engineering in Pharmaceutical
	BIOTECHNOLOGY	Industry
		CO3. Explain the concepts of rDNA
		technology and its applications
		CO4. Describe the conceptof immunity and

		production of vaccine
6.	ENVIRONMENTAL BIOTECHNOLOGY	CO1.Understand and assimilate The concepts and specific terminology of environmental biotechnology. CO2.Search and manage information from various sources CO3.Describe the scientific bases that are applied by environmental biotechnology. CO4.Describe the properties of microorganisms with potential application to processes of environmental biotechnology.
SEME	STER-III	
1.	BIOINFORMATICS	CO1.Students will interpret relationship among living things and analyze and solve biological problem, from the molecular to ecosystem level using basic biological concepts. Students will able to conduct basic bioinformatics research CO2. The student can explain which type of data is available from the most common protein sequence and structure databases (UniProt, GenBank, Protein Data Bank, CATH). CO3.The candidate can explain the theories underlying the most common methods for sequence searches and sequence alignments, and in particular knows the principle and main steps for pairwise and multiple sequence alignments

		CO4. The student can explain and is able to
		apply the main steps of dynamic programming
		for/too simple alignments of short sequences
		CO1. Exhibit knowledge about immunological
		response, mechanism of this response, its
		regulation and the genetic basis. Provide
		knowledge about protection against disease
		and auto immune disorders to choices in their
		daily life
1	IMMUNOLOGY	CO2.Describe the function of phagocytes in
2.	IMMUNOLOGY	the non-specific immune system
		CO3. Describe professional antigen presenting
		cells and define their purpose
		CO4. Define the major histocompatibility
		complexes (MHCs) type 1 and 2 and explain
		their functions
	BIOPROCESS	CO1.Exhibit knowledge about bioreactors,
		analyze and formulate mechanism for
		enzymatic reactions, specify required
		technology to effectively utilize genetically
		engineered microorganism for bioprocessing.
		CO2.Describe and analyse the control of in
3.	TECHNOLOGY	vitro cellular growth processes.
	TECHNOLOGI	CO3. Discuss and evaluate the operational
		considerations and relative advantages relating
		to the choice of techniques used in
		downstream processing of biotechnology
		products.
		CO4. Discuss and critically analyze the

		upstream and downstream aspects of exemplar
		industry bioprocesses, spanning
		biopharmaceutical and industrial
		biotechnology applications.
		CO1.Explain methods of fabricating
		nanostructures.
		CO2. Relate the unique properties of
		nanomaterials to the reduce dimensionality of
4.	NANOTECHNOLOGY	the material.
4.	NANOTECHNOLOGI	CO3.Describe tools for properties of
		nanostructures.
		CO4. Discuss applications of nanomaterials
		and implication of health and safety related to
		nanomaterials.
		CO1.To provide an introduction to the
		processes of development and the mechanisms
		by which they are achieved.
		CO2.The course will integrate, wherever
		possible, results from different experimental
		systems (vertebrate and invertebrate animals,
	MOLECULAR	plants) and from different experimental
5.	DEVELOPMENTAL	approaches (embryology, developmental
	BIOLOGY	genetics, cell and molecular biology).
		CO3.To develop the skill of observing
		developing organisms and recording by notes
		and drawings;
		CO4.To introduce some of the surgical and
		cellular experimental techniques of
		developmental biology.
6.	POTENTIAL APPLICATION	CO1.Demonstrate mastery of the core

	AND COMMERCIAL	concepts of Bioinformatics, including
	ASPECTS OF	computational biology, database design and
	BIOINFORMATICS	implementation, and probability and statistics.
		CO2. Demonstrate the ability to apply skills in
		a professional environment via an industrial or
		academic internship in Bioinformatics.
		CO3.Be able to effectively communicate
		scientific information in written and oral form
		CO4.Explain about various techniques used in
		genomics and proteomics
SEME	 STER – IV	
		CO1.Apply a range of quantitative and / or
		qualitative research techniques to business and
		management problems / issues
		CO2. Understand and apply research
		approaches, techniques and strategies in the
		Appropriate manner for managerial decision
		making
	RESEARCH	CO3. Demonstrate knowledge and
1.	METHEDOLOGY	understanding of data analysis and
		interpretation in relation to the research
		process
		CO4.Conceptualise the research process and
		develop necessary critical thinking skills in
		order to evaluate different research approaches
		utilized in the service industries.
		CO1.Students will gain awareness about
2.	BIOETHICS	Intellectual Property Rights (IPRs) to take
4.		measure for the protecting their ideas
		CO2. They will able to devise business

		strategies by taking account of IPRs
		CO3. They will be able to assists in
		technology upgradation and enhancing
		competitiveness.
		CO4. They will acquire adequate knowledge
		in the use of genetically modified organisms
		and its effect on human health
		CO1.The different types of stem cells, how
		they are derived and the extent of their
		plasticity.
		CO2.How tumor stem cells give rise to
	STEM CELL BIOLOGY	metastases and treatment-resistant remnant
		cells that cause relapse, and how this impacts
		on the development of future cancer treatment
3.		strategies
3.		CO3.How epigenetic mechanisms
		encompassing various DNA modifications and
		histone dynamics are involved in regulating
		the potentiality and differentiation of stem
		cells
		CO4. How microRNAs are involved in
		regulating stem cell differentiation