



# IDEAL COLLEGE FOR ADVANCED STUDIES

( Affiliated to University of Calicut )

KADAKASSERY, THAVANUR PO, MALAPPURAM DT, KERALA 679573  
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## BACHELOR OF COMPUTER APPLICATIONS

### COURSE OUTCOMES 2019

#### SEMESTER I

BCA1B01 – Computer Fundamentals and HTML

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	Familiar with fundamental concepts of Computer hardware and software
CO2	Have knowledge of different Number system, Digital codes and Boolean algebra
CO3	Understand the problem-solving aspect
CO4	Demonstrate the algorithm and flow chart for the given problem.
CO5	Design a Webpage with CSS

BCA1C01– Mathematical Foundation for Computer Applications

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	Learn the basic principles of linear algebra and vectors.
CO2	Familiar with Determinant and Matrices.
CO3	Formulate Limit, Continuity and Differentiability.
CO4	Principles of differential and integral Calculus
CO 5	Demonstrate a working knowledge Definite and Indefinite Integrals.

BCA1C02 – Discrete Mathematics

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	To equip the students with basic principles of discrete mathematics
CO2	To learn the mathematical logic
CO3	To understand , set theory & Boolean Algebra



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CO4	To understand the he basic concept of graphs and trees.
CO5	To apply graphs in problems.

### SEMESTER II

#### BCA2B02 – Problem Solving Using C

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	Interpret the basic principles of C Programming.
CO2	Acquire decision making and looping concepts.
CO3	Design and develop modular programming.
CO4	Explore usage of Arrays, strings, structures, union and files.
CO5	Effective utilization of pointers and dynamic memory allocation

#### BCA2B03 - Programming Laboratory I: Lab Exam of 1st & 2ndSemester - HTML and Programming in C

**Course Evaluation:** Internal – 20 Marks + External – 80 Marks

COs	COURSE OUTCOMES
CO1	Analyze a web page and identify its elements and attributes.
CO2	Create web pages using HTML5 and Cascading Style Sheets.
CO3	Design and develop a web page with Hyperlinks.
CO4	Enhance their analyzing and problem solving skills and use the same for writing programs in C.
CO5	To write diversified programs using C language

#### BCA2C03 – Financial and Management Accounting

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	To get a general introduction on accounting and its general application.
CO2	To get a general understanding on various tools for financial statement analysis.



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CO3	To get a general understanding on accounting procedures up to the preparation of various financial
CO4	To understand of the important tools for managerial decision making.
CO5	Prepare the budget

### BCA2C04 - Operations Research

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	To formulate a real-world problem as a mathematical model.
CO2	To find solutions for the mathematical models using LPP, Assignment and Transportation methods
CO3	Formulate and solve problems as networks and graphs.
CO4	To use CPM and PERT techniques to plan, schedule and control the activities of a project.
CO5	To Understand the mathematical tools that are needed to solve optimisation problems

### SEMESTER III

#### A11 - Python Programming

**Course Evaluation:** Internal – 20 Marks + External – 80 Marks

COs	COURSE OUTCOMES
CO1	Explain basic principles of Python programming language
CO2	Implement decision making and loop statements in Python,.
CO3	Implement GUI applications using Python
CO4	Explain modular programming concepts using Python
CO5	Familiarize with List, Tuple, Dictionary concepts in Python

#### A12 - Sensors and Transducers

**Course Evaluation:** Internal – 20 Marks + External – 80 Marks

COs	COURSE OUTCOMES
CO1	Explain resistance, inductance and capacitance transducers.
CO2	Perceive the concepts of temperature transducers.
CO3	Perceive the concepts level transducers and pressure
CO4	Explain flow transducers, electromagnetic transducers, radiation sensors and sound transducers



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### BCA3B04 – Data Structures Using C

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	To be familiar with fundamental data structures and with the manner
CO2	To have knowledge of complexity of basic operations like insert, delete, search on these data structures
CO3	Ability to choose a data structure to suitably model any data used in computer applications.
CO4	Design programs using various data structures including hash tables, Binary and general search trees, graphs
CO5	Ability to choose a data structure to suitably model any data used in computer applications.

### BCA3C05- Computer Oriented Numerical & Statistical Methods

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	To learn floating point arithmetic
CO2	Learning to solve linear equations.
CO3	To learn numerical differentiation and integration.
CO4	To learn the basics of statistics and probability theory
CO5	

### BCA3C06 –Theory of Computation

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	To discuss key notions of computation, such as algorithm and decidability through problem solving
CO2	To explain the models of computation, including formal languages, grammars and automata, and their connections
CO3	To analyze and design finite automata, pushdown automata and Turing machines
CO4	To solve computational problems regarding their computability and complexity and prove the basic results of theory of computation
CO5	To model a language translator



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## SEMESTER IV

### Course Evaluation: Internal – 20 Marks + External – 80 Marks

COs	COURSE OUTCOMES
CO1	To study general architecture of microprocessor
CO2	To write assembly language programs,both simple programs and interfacing programs
CO3	To know how to interface peripheral devices with 8085
CO4	To study the architecture of 8086 microprocessor

### A14– Data Communication and Optical Fibers

#### Course Evaluation: Internal – 20 Marks + External – 80 Marks

COs	COURSE OUTCOMES
CO1	To Acquaint with the structure of Data Communications System and its components.
CO2	To Familiarize with different network terminologies and transmission media
CO3	To gain knowledge of the different multiplexing techniques ,Telephone system,Mobile System-GSM
CO4	To become familiar with the functions of a Datalink layer and Switching

### BCA4B05– Database Management System and RDBMS

#### Course Evaluation: Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	Gain knowledge of data base systems and data base management system software.
CO2	Ability to model data in applications using conceptual modeling tools such as ER Diagrams and design
CO3	Formulate, using SQL, solutions to a broad range of query and data update problems.
CO4	Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database.
CO5	Be acquainted with the basics of transaction processing and concurrency control

### BCA4B06- Programming Laboratory II: Lab Exam of 3rd and 4thSemester - Data Structures and RDBMS

#### Course Evaluation: Internal – 20 Marks + External – 80 Marks

COs	COURSE OUTCOMES
CO1	Make use of typical data definitions and manipulation commands.
CO2	Test the implementation of nested and join queries.



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CO3	Develop simple application using views, sequences and synonyms.
CO4	Inspect and implement applications that require front-end tools.
CO5	Familiarizing with different data structures tools like searching , sorting, Linked List etc.

### BCA4C07- E-Commerce

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	Understand basics of electronic commerce framework
CO2	Understand the various models of E-Commerce
CO3	Understand the basics of networks and E-marketing
CO4	Understanding the security, legal and ethical issues in E Commerce.
CO5	Analyzing the e-payment systems and designing the payment system

### BCA4C08- Computer Graphics

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	To understand the basics of computer graphics, different graphics systems and applications of computer
CO2	To learn various algorithms for scan conversion and filling of basic objects.
CO3	To understand the use of geometric transformations on graphics objects and their application in composite form.
CO4	To learn different clipping methods and its transformation to graphics display device.
CO5	To apply different color models and image manipulation using GIMP

## SEMESTER V

### BCA5B07- Computer Organization and Architecture

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	To make students understand the basic structure,operation and characteristics of a digital computer.
CO2	To familiarize with Computer Instruction and Interrupt Design
CO3	To make students know the different types of control unit and Addressing Modes
CO4	To familiarize with the Memory organization including cache memories and virtual memory



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CO5	To understand the I/O devices and standard I/O interfaces
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### BCA5B08 - Java Programming

**Course Evaluation:** Internal: 15 Marks + External: 60 Marks

COs	COURSE OUTCOMES
CO1	Knowledge of the structure and model of the Java programming language.
CO2	Use the Java programming language for various programming technologies.
CO3	Develop software in the Java programming language.
CO4	Evaluate user requirements for software functionality
CO5	Creating new programmes in Java

### BCA5B09 -Web Programming using PHP.

**Course Evaluation:** Internal: 15 Marks + External: 60 Marks

COs	COURSE OUTCOMES
CO1	Identify basics of Internet programming
CO2	Identify Client side programming using Java script
CO3	Identify the server side program style
CO4	Design a web application using PHP
CO5	Design web application using the database Postgre sql with PHP

### BCA5B10 -Principles of Software Engineering

**Course Evaluation:** Internal: 15 Marks + External: 60 Marks

COs	COURSE OUTCOMES
CO1	To learn engineering practices in Software Development.
CO2	Select and implement different software development process models.
CO3	Extract and analyse software requirements specifications for different projects.
CO4	Develop some basic level of software architecture/design.
CO5	Define the basic concepts and importance of Software project management concepts like cost

### OPEN COURSES

#### BCA5D01-Introduction to Computers and Office Automation

**Course Evaluation:** Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
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CO1	Understand different types of computers
CO2	Learn documentation using Word processing software
CO3	Learn calculations using spreadsheet MS Excel and Open Office Writer
CO4	Learn presentations using Open Office Impress/MS-Power Point

### SEMESTER VI

#### BCA6B11- Android Programming

Course Evaluation: Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	To gain knowledge of developing end user application using Android SDK
CO2	To familiarize with Android Resources
CO3	To acquaint with user interfaces development in Android
CO4	To acquire knowledge about creating menus and operating files in Android
CO5	To understand database connectivity in android

#### BCA6B12 - Operating Systems

Course Evaluation: Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	To understand the objectives, functions and types of Operating System
CO2	To have a basic knowledge about process, Threads, Deadlock
CO3	To understand the knowledge of Linux shell programming
CO4	To learn about CPU scheduling and memory management
CO5	To apply security mechanism in operating system.

#### BCA6B13 - Computer Networks

Course Evaluation: Internal – 15 Marks + External – 60 Marks

COs	COURSE OUTCOMES
CO1	To understand about different network terminologies
CO2	To familiarize with different layers of network
CO3	To understand the functions of data link layer and network layer
CO4	To familiarize with the functions of Transport layer





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CO5	To understand the concept of network security and Cryptography
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### BCA6B14 - Programming Laboratory III: Lab Exam of Vth Semester Java and PHP

**Course Evaluation:** Internal – 20 Marks + External – 80 Marks

COs	COURSE OUTCOMES
CO1	To learn about the Object Oriented Concepts in Java Programming
CO2	To understand the practical knowledge of Web Programming using PHP

### BCA6B15 - Programming Laboratory IV: Lab Exam of Android and Linux Shell Programming

**Course Evaluation:** Internal – 20 Marks + External – 80 Marks

COs	COURSE OUTCOMES
CO1	To practice Android programming.
CO2	To practice user interface applications.
CO3	To develop mobile application.
CO4	To practice shell programming

### BCA6B17 -Industrial Visit and Project Work

**Course Evaluation:** Internal – 20 Marks + External – 80 Marks

COs	COURSE OUTCOMES
CO1	To practice programming skill
CO2	To practice user interface applications.
CO3	To provide practical knowledge on software development process
CO4	Basic programming and system development knowledge

### BCA6B16C- Software testing & Quality Assurance

COs	COURSE OUTCOMES
CO1	To understand Software Engineering Paradigm
CO2	To familiarize with the basic concepts of testing
CO3	Introduce various testing tools
CO4	To Apply Various Testing tools
CO5	To design Testing strategy



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## **Bachelor of Social Work (BSW)**

### **Course Outcomes**

#### **Semester I**

##### **Course: BSW1 B01 INTRODUCTION TO SOCIALWORK**

- CO1. Outline the history of Social Work Profession in India and abroad
- CO2. Explain the philosophy and principles of Social Work
- CO3. Explain the basic concepts relevant to Social Work practice.
- CO4. Apply the basic values and code of ethics of social work profession in practice

#### **Semester II**

##### **Course: BSW 2B 02 FIELDS OF SOCIALWORK**

- CO1. Identify the various fields and settings where Social Work profession is practiced
- CO2. Explain the role of Social Workers in various fields
- CO3. Acquire skills for working in different areas of Social Work

#### **Semester III**

##### **Course: BSW 3B 03 INTRODUCTION TO SOCIAL CASE WORK**

- CO1. Explain the basic concepts, process, principles of Social Case Work
- CO2. Describe the tools and techniques of Social Case Work
- CO3. Develop right attitude and skills to practice Social Case Work

##### **Course: BSW 3 B 04 INTRODUCTION TO SOCIAL GROUP WORK**

- CO1. Explain the basic concepts, process, principles of Social Group Work
- CO2. Describe the tools and techniques of Social Case Work
- CO3. Develop skills and attitudes for Social Group Work.

#### **Semester IV**

##### **Course: BSW 4 B 05 INTRODUCTION TO COMMUNITY ORGANISATION AND SOCIAL ACTION**

- CO1. Outline the process, principles and models of Community Organisation.



CO2. Develop skills and attitudes for participatory community work

CO3. Explain the process, principles and models of Social Action

**Course: BSW 5 B 07 INTRODUCTION TO SOCIAL WORK ADMINISTRATION**

CO1. Describe the scope and principles of Social Work Administration

CO2. Explain the process of administration in welfare institutions

CO3. Develop basic skills in the registration and management of nongovernmental organisations

CO4. Outline the various social welfare programmes implemented by Central & State Governments

**Semester V**

**Course: BSW 5 B 08 RURAL AND URBAN COMMUNITY DEVELOPMENT**

CO1. Explain the status and problems of rural and urban communities

CO2. Describe the concept, principles of Rural and Urban Community Development

CO3. Explain the structure and functioning of local self government bodies

CO4. Identify the programmes for rural and urban community development

**Course: BSW 5 B 09 INTRODUCTION TO SOCIAL WORK RESEARCH AND STATISTICS**

CO1. Explain the basic concepts and theory in Social Work Research

CO2. Explain the methodology and designs of Social Work Research

CO3. Develop basic skills in formulating research proposal and conducting social work research

CO4. Develop skills in using basic statistical techniques in Social Work Research

**Course: BSW 5 B 10 GANDHIAN PHILOSOPHY AND SOCIAL WORK**

CO1. Outline the basic Gandhian concepts and his views on society, social problems and rural development

CO2. Examine the relevance of Gandhian philosophy and Gandhian model of development in dealing with social problems

**Semester VI**

**Course: BSW 6 B 11 PROJECT PLANNING AND MANAGEMENT FOR SOCIAL WORK**



CO1. Describe the process of project planning and management and its phases

CO2. Acquire skills in preparation, management, monitoring and evaluation of projects for social work intervention

CO3. Prepare project proposals

**Course: BSW 6 B 12 LEGAL INFORMATION FOR SOCIAL WORKERS**

CO1. Explain the basic concepts related to Social Legislation, Indian Constitution and Indian Judicial System

CO2. Outline the major legislations for the protection and care of Women, Children, Differently Abled, SC/ST and senior citizens and social security

CO3. Describe the concept of Human Rights and the institutional mechanisms for the protection of Human rights

**Course: BSW 6 B 13 COMMUNITY HEALTH AND HEALTH CARE SERVICES**

CO1. Explain the concept of health and its various perspectives

CO2. Outline the various health problems and their impact on communities

CO3. Identify the existing health care services and facilities

CO4. Identify the role of social workers in community health programmes

**Course: BSW 6 B 16 - GENDER AND DEVELOPMENT IN SOCIAL WORK**

CO1. Describe key concepts related to gender and development

CO2. Identify the discrepancies in the status of women in our society and their implications

CO3. Outline the laws and programmes for the protection of women

**Course: BSW 6 B 17- SOCIAL MOVEMENTS AND SOCIAL DEVELOPMENT**

CO1. Explain the meaning, characteristics and achievements of social movements in India

CO2. Classify the types of social movements

CO3. Describe the basic concepts related to Social Development

**Course: BSW 6 B 18 - SOCIAL WORK WITH ELDERLY**

CO1. Describe the concepts of aging, geriatric care and Social Work

CO2. Outline the problems faced by aged.



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CO3. Identify the role of Social Work interventions in caring for the Aged

CO4. Acquire basic skills in working with elderly





## BACHELOR OF BUSINESS ADMINISTRATION

Semester	Course code	Course title	CO	Course outcome
1	BBAB01	MANAGEMENT THEORY AND PRACTICES	CO1	Acquire knowledge regarding relevant economic concepts applicable in managerial decisions.
			CO2	Design strategies, including costing, pricing, product differentiation and market Environment according to the nature of products and the structures of the markets.
			CO3	Make optimal business decisions by integrating the concepts of economics.
			CO4	Understand the business cycles and make forecasts on the basis of prevailing Conditions.
2	BBA2B02	FINANCIAL ACCOUNTING	CO1	To equip the students with the skills of preparing financial statements for various type of organizations.
			CO2	Enable the students to acquire knowledge about financial reporting standards and to understand corporate accounting methods.
	BBA2CO2	MARKETING MANAGEMENT	CO1	To provide basic knowledge about the concepts, principles, tools and techniques of marketing.
			CO2	To impart necessary knowledge which help the student to choose a career in the field of marketing.
			CO3	To expose the students to the latest trends in marketing
	BBA3A11	BASIC NUMERICAL METHODS	CO1	To enable the students to acquire knowledge of numerical equations, matrices progressions, financial mathematics and descriptive statistics
			CO2	the students will be able to understand, numerical equations, matrix, progression, financial mathematics, descriptive statistics and their applications
	BBA3A12	PROFESSIONAL BUSINESS SKILLS	CO1	To update and expand basic Informatics skills of the students
CO2			To equip the students to effectively utilize the digital knowledge resources for their	



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	BBA3 B04	CORPORATE ACCOUNTING	CO1	study To help the students to acquire conceptual knowledge of the fundamentals of the corporate accounting and the techniques of preparing the financial statements
	BBA3B05	FINANCIAL MANAGEMENT	CO1	Understand various basic concepts of finance.
			CO2	Develop skills for effective Financial, Investment and Dividend decision making.
			CO3	Evaluate projects and select the most suitable project after analysing various aspects.
	BBA3CO2	BUSINESS REGULATIONS	CO1	Analyse statutory provisions and the core concepts in business laws
			CO2	Analyse legal issues arising in day-to-day business operations prevalent in India.
			CO3C	Identify unfair trade practices and gain insights about the consumer redressal Mechanism in the country.
			CO4	Discuss Possible solutions to issues in organisations in the frame work of business Laws
4	BCM4B06	COST AND MANAGEMENT ACCOUNTING	CO1	To familiarize the students with the various concepts and elements of cost.
			CO2	To create cost consciousness among the students.
	BCM4C05	QUANTITATIVE TECHNIQUES FOR BUSINESS	CO1	To familiarize student with the use quantitative techniques in managerial decision making.
	BBA4A13	ENTREPRENEURSHIP DEVELOPMENT	CO1	To familiarize the students with the concept of entrepreneurship.
			CO2	To identify and develop the entrepreneurial talents of the industrial scenario.
			CO3	To identify and develop the entrepreneurial talents of the industrial scenario.
	BBA4A14	BANKING AND INSURANCE	CO1	To enable the students to acquire knowledge about basics of Banking and Insurance.
CO2			To familiarize the students with the modern trends in banking.	
BBA4B06	CORPORATE REGULATIONS	CO1	To familiarise the students with corporate law and to make them aware of the importance of corporate governance in the management of organizations	





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5	BBA5B07	HUMAN RESOURCE MANAGEMENT	CO1	Understand the core functions of Human Resource Management, including recruitment, selection, training, and performance management, to contribute effectively to the strategic goals of an organization.
			CO2	Analyse and apply HR practices and policies that foster a positive organizational culture, enhance employee engagement, and ensure compliance with legal and ethical standards.
	BBA5B08	BUSINESS RESEARCH METHODS	CO 1	To enable students for acquiring basic knowledge in business research methods and to develop basic skills in them to conduct survey researches and case studies.
	BBA 5B10	CONSUMER BEHAVIOUR	CO1	Understand the psychological, social, and cultural factors that influence consumer decision-making processes, enabling the development of effective marketing strategies.
			CO2	Analyse consumer behaviour models and theories to predict consumer responses to marketing stimuli and assess the impact of these responses on market trends.
			CO3	Apply consumer behaviour insights to design marketing campaigns that effectively target specific consumer segments and enhance customer satisfaction and loyalty.
	BBA5B09	OPERATIONS MANAGEMENT	CO1	Describe the different concepts of Operations Management.
			CO2	Acquire the knowledge to make plans at the operational level of an industry
			CO3	Describe the concepts of facilities planning, capacities planning and aggregate planning.
			CO4	Describe the various tools for quality control in an organization.
	BBA5B11	PRODUCT AND BRAND MANAGEMENT	CO1	Understand the key concepts and strategies in product development and brand management, including product lifecycle, brand positioning, and brand equity.
CO2			Analyze market trends and consumer preferences to make informed decisions on product design, branding, and rebranding strategies, ensuring alignment with business objectives.	



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6	BB6B12	ORGANISATIONAL BEHAVIOUR	CO3	Apply product and brand management techniques to create, maintain, and grow strong brands, fostering brand loyalty and competitive advantage in the marketplace.
			CO1	Analyze individual and group behavior, and understand the implications of Organizational behavior on the process of management.
			CO2	Identify different motivational theories and evaluate motivational strategies used in Organizational settings.
			CO3	Evaluate the appropriateness of various leadership styles and conflict management Strategies used in organizations.
	BBA6B13	MANAGEMENT SCIENCE	CO4	Describe organizational change, development and stress.
			CO1	Learn different OR techniques useful in managerial decisions.
			CO2	Solve Linear Programming Problems.
			CO3	Solve Transportation and Assignment Problems
			CO4	Identify critical path on the basis of Network Analysis.
	BBA6B14	PROJECT MANAGEMENT	CO5	Describe various decision making theories.
			CO1	Describe the different concepts of managing a project
			CO2	Analyze the viability of a project.
			CO3	Select the most suitable project.
	BBA6B15	ADVERTISING AND SALES PROMOTION	CO4	Prepare project reports.
			CO1	Understand the principles and strategies of advertising and sales promotion, including the roles of creativity, media planning, and consumer psychology in crafting effective campaigns.
CO2			Analyse the effectiveness of various advertising and sales promotion techniques to develop and execute campaigns that enhance brand visibility and drive consumer engagement.	
			CO3	Apply integrated marketing communication (IMC) strategies to coordinate advertising and sales promotion efforts, maximizing their impact on brand awareness, consumer behaviour, and sales growth.
			CO1	Understand the fundamental concepts of supply chain and logistics management,



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BBA6B16	SUPPLY CHAIN AND LOGISTICS MANAGEMENT	CO2	including the flow of goods, information, and finances across the supply chain network. Analyze supply chain strategies and logistics operations to optimize efficiency, reduce costs, and improve service levels in various industries.
		CO3	Apply supply chain management tools and techniques to design and manage logistics systems that enhance overall supply chain performance and respond effectively to market dynamics.
		CO1	Demonstrate the ability to independently conduct research or develop a project by applying theoretical knowledge and practical skills acquired during the course, leading to meaningful conclusions or deliverables.
BBA6B17	PROJECT	CO2	Effectively communicate project findings and methodologies through a well-organized viva voce, showcasing the ability to articulate ideas, defend decisions, and respond to critical feedback.
		CO3	Reflect on the project experience to identify learning outcomes, personal development, and areas for future improvement, thereby fostering a deeper understanding of the subject matter and professional growth.



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# BACHELOR OF COMMERCE

Semester	Course code	Course title	Co	Course outcome
1	BCMIB01	Business Management	CO1	To understand the process of business management and its functions
			CO2	To familiarize the students with current management practices
			CO3	To understand the importance of ethics in business
			CO4	To acquire knowledge and capability to develop ethical practices for effective management.
2	BCM2B02	Financial Accounting	CO1	To equip the students with the skills of preparing financial statements for various type of organizations.
			CO2	Enable the students to acquire knowledge about financial reporting standards and to understand corporate accounting methods.
	BCM2CO2	Marketing Management	CO1	To provide basic knowledge about the concepts, principles, tools and techniques of marketing.
			CO2	To impart necessary knowledge which help the student to choose a career in the field of marketing.
			CO3	To expose the students to the latest trends in marketing
			CO1	To familiarize the students with certain statutes concerning and affecting business organizations in their operations.
3	BCM3BO3	BUSINESS REGULATIONS	CO1	To familiarize the students with certain statutes concerning and affecting business organizations in their operations.
	BCM3C03	HUMAN RESOURCES MANAGEMENT	CO1	To familiarize the students with the different aspects of managing human resources in an organization.
			CO2	To equip the students with basic knowledge and skills required for the acquisition, development and retention of human resources.
BCM3A11	BASIC NUMERICAL METHODS	CO1	To enable the students to acquire knowledge of numerical equations, matrices progressions, financial	



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				mathematics and descriptive statistics
			<b>CO2</b>	the students will be able to understand, numerical equations, matrix, progression, financial mathematics, descriptive statistics and their applications
	<b>BCM3A12</b>	<b>PROFESSIONAL BUSINESS SKILLS</b>	<b>CO1</b>	To update and expand basic Informatics skills of the students
			<b>CO2</b>	To equip the students to effectively utilize the digital knowledge resources for their study
	<b>BCM3 BO4</b>	<b>CORPORATE ACCOUNTING</b>	<b>CO1</b>	To help the students to acquire conceptual knowledge of the fundamentals of the corporate accounting and the techniques of preparing the financial statements
4	<b>BCM4B05</b>	<b>COST ACCOUNTING</b>	<b>CO1</b>	To familiarize the students with the various concepts and elements of cost.
			<b>CO2</b>	To create cost consciousness among the students.
	<b>BCM4C04</b>	<b>QUANTITATIVE TECHNIQUES FOR BUSINESS</b>	<b>CO1</b>	To familiarize student with the use quantitative techniques in managerial decision making.
	<b>BCM4A13</b>	<b>ENTREPRENEURSHIP DEVELOPMENT</b>	<b>CO1</b>	To familiarize the students with the concept of entrepreneurship.
			<b>CO2</b>	To identify and develop the entrepreneurial talents of the industrial scenario.
			<b>CO3</b>	To identify and develop the entrepreneurial talents of the industrial scenario.
	<b>BCM4A14</b>	<b>BANKING AND INSURANCE</b>	<b>CO1</b>	To enable the students to acquire knowledge about basics of Banking and Insurance.
			<b>CO2</b>	To familiarize the students with the modern trends in banking.
	<b>BCM4B06</b>	<b>CORPORATE REGULATIONS</b>	<b>CO1</b>	To familiarise the students with corporate law and to make them aware of the importance of corporate governance in the management of organizations
	5	<b>BCM5B07</b>	<b>ACCOUNTING FOR MANAGEMENT</b>	<b>CO1</b>
<b>CO2</b>				To provide the students an



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				understanding about the use of accounting and costing data for planning, control, and decision making.
	<b>BCM5B08</b>	<b>BUSINESS RESEARCH METHODS</b>	<b>CO 1</b>	To enable students for acquiring basic knowledge in business research methods and to develop basic skills in them to conduct survey researches and case studies.
	<b>BCM 5B10</b>	<b>COOPERATIVE THEORY AND PRACTICE</b>	<b>CO1</b>	Analyse the principles and functioning of cooperative societies, understanding their role in fostering economic development and social welfare.
			<b>CO2</b>	Apply the concepts of cooperative management to evaluate the operational challenges and opportunities in various types of cooperative organizations
	<b>BCM5B09</b>	<b>INCOME TAX LAW AND ACCOUNTS</b>	<b>CO1</b>	To impart basic knowledge and equip students with application of principles and provisions Income - tax Act, 1961 amended up to date.
	<b>BCM5B11</b>	<b>LEGAL ENVIRONMENT FOR COOPERATIVES</b>	<b>CO1</b>	To enable the students to acquire knowledge about co operative legal frame work in India and Kerala.
			<b>CO2</b>	To understand the formalities for registering co-operatives and administering set up
	<b>BCM 5B10</b>	<b>COMPUTER APPLICATION IN BUSINESS</b>	<b>CO1</b>	To help the students to acquire basic knowledge about computer and its applications in various areas of business.
			<b>CO2</b>	To enable the students to understand the modern trends and technologies in computer application
	<b>BCM5B11</b>	<b>BUSINESS INFORMAIION SYSYTEM</b>	<b>CO1</b>	To enable the students to acquire basic knowledge in the information technology and its relevance to the various areas of business.
<b>6</b>	<b>BCM6B12</b>	<b>INCOME TAX AND GST</b>	<b>CO1</b>	To impart basic knowledge and equip students with the application of principles and provisions of INCOME TAX ACT 1961 AND GST ACT 2016
	<b>BCM6B13</b>	<b>AUDITING AND CORPORATE GOVERNANACE</b>	<b>CO1</b>	To provide knowledge of auditing principles and techniques and to familiarize the students with the



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				understanding of issues and practices of corporate governance in the global and Indian context
	<b>BCM6B14</b>	<b>OFFICE AUTOMATION AND TOOLS</b>	<b>CO1</b>	To enable the students to acquire basic knowledge in the various office automation tools and its applications in the various areas of business.
	<b>BCM6B15</b>	<b>COMPUTERISED ACCOUNTING WITH TALLY</b>	<b>CO1</b>	To enable the students to acquire basic knowledge in the various office automation tools and its applications in the various areas of business.
	<b>BCM6B14</b>	<b>INTERNATIONAL COOPERATIVE MOVEMENT</b>	<b>CO 1</b>	To enable the students to acquire knowledge about the co operative management and administration
			<b>CO2</b>	To familiarize the students with accounting and auditing of cooperatives.
	<b>BCM6B15</b>	<b>COOPERATIVE MANAGEMENT AND ADMINISTRATION</b>	<b>CO1</b>	To enable the students to acquire knowledge about the co operative management and administration.
	<b>BCM6B15</b>	<b>PROJECT</b>	<b>CO1</b>	Develop a comprehensive understanding of project management principles, including planning, execution, monitoring, and closure, to effectively manage projects within scope, time, and budget constraints.
			<b>CO2</b>	Apply project management tools and techniques to analyze and solve real-world project challenges, ensuring the successful delivery of projects in diverse industries.



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### DEPARTMENT OF ENGLISH

#### COURSE OUTCOME

### ENG1B01 - INTRODUCING LITERATURE

#### COURSE OUTCOME

CO1	To introduce students to the language of literature, i.e., the meaning-making devices, verb phrases, collocations, linkers, sense groups and their functions in the literary text
CO2	To train the students to identify the linguistic structures of poetic texts: symbols, metaphors, and other tropes and equip them in poetic conventions
CO3	To recognize diverse points of view within a single text and to understand the rationale of polyphony
CO4	To prepare students in reading literary/cultural texts closely, beyond the literal.
CO5	To enable students to recognize the dominant voice/s within the text and its agendas
CO6	To encourage questioning the text in order to perceive marginalized voices - the voices of the child, Dalit, transgender and female

### ENG2B02: APPRECIATING POETRY

#### COURSE OUTCOME

CO1	To introduce the students to the basic elements of poetry, including the stylistic and rhetorical devices employed in poetry, and to various genres of poetry
CO2	To facilitate students to attain various perspective in reading poetry like gender, race, caste, ethnicity, religion, region, environment and nation
CO3	To familiarize the learners with different forms of poetry written in British and American literature
CO4	To create awareness among the learners about different forms and themes of poetry produced across the globe in the history of literature.
CO5	It will gain insight into the cultural, historical, and social contexts in which various poems were written. They will learn to appreciate how poetry reflects and responds to the time and place of its creation.
CO6	To improve their ability to interpret poetry and articulate their interpretations in discussions and written analyses. They will learn to support their interpretations with textual evidence and engage in constructive dialogue with peers.





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### ENG3B03: APPRECIATING PROSE

#### COURSE OUTCOME

CO1	To familiarize the students with different types of prose writing
CO2	To introduce to them the basic concepts of style and literary devices in prose.
CO3	To acquaint them with cultural diversity and divergence in perspectives.
CO4	To develop their critical thinking abilities and write creatively and critically.
CO5	By engaging with diverse prose works, students will develop a broader understanding of different cultures, historical contexts, and philosophical ideas, enhancing their empathy and worldview.
CO6	Through discussions, presentations, and written assignments, students will improve their ability to communicate ideas effectively and persuasively.

### ENG3B04: ENGLISH GRAMMAR AND USAGE

#### COURSE OUTCOME

CO1	To familiarize the students with the key concepts of English grammar and to use them more sensitively in their day-to-day communication needs.
CO2	To help students towards a better language use through the understanding of the sentence patterns in English.
CO3	To help the students develop a sense of English grammar, idioms, syntax, semantics and their usage
CO4	To develop the logical and analytical skills in the use of language for communication.
CO5	To familiarize students with contemporary English usage
CO6	It aims at a recapitulation of English grammar and usage that learners would have acquired at the lower levels



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### ENG4B05: APPRECIATING FICTION

#### COURSE OUTCOME

CO1	To help students discover the pleasures in reading fiction.
CO2	To aid students gain an insight into the human condition and the complexities of life.
CO3	To acquaint the students with different types of fiction and analyze them.
CO4	To instill in the learners a love of fiction, to stimulate their imagination and to foster intercultural dialogue
CO5	They will learn to read between the lines and appreciate the nuances of language and storytelling
CO6	Students will develop an appreciation for diverse voices and perspectives in fiction, including those from different cultures, genders, and social backgrounds

### ENG4B06: LITERARY CRITICISM

#### COURSE OUTCOME

CO1	To have an understanding of important texts and movements in the history of literary criticism.
CO2	To examine how literary criticism shapes literature and culture across centuries.
CO3	To recognize and critique the major arguments underlying critical writings.
CO4	To relate critical perspectives to the history of eastern and western ideas.
CO5	It seeks to introduce the students to the history and principles of literary criticism
CO6	To cultivate in them the philosophical and critical skills with which literature can be appreciated.



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### ENG5B07: APPRECIATING DRAMA AND THEATRE

#### COURSE OUTCOME

CO1	To introduce the students to the basic elements of drama, including the historical progress of drama in different continents.
CO2	To foster an ability in the students for appreciating drama as an art form.
CO3	To familiarize the students with the different genres and masters of drama.
CO4	To facilitate the learners to critically go beyond the theatrical performances to the texts and approach them critically from various standpoints.
CO5	To stimulate in the learners interest in drama, to appreciate drama as an art form and to fathom its trends and techniques
CO6	Students will learn about the evolution of theater from ancient to modern times, exploring different genres, movements, and the impact of cultural and historical contexts on theatrical production

### ENG5B08: LITERARY THEORY

#### COURSE OUTCOME

CO1	To cultivate among the students an understanding of important texts and movements in the history of literary theory
CO2	To enable the learners to critically approach literature and culture in the context of theory.
CO3	To enrich the students through various perspectives of thinking and critique the major arguments presented in theory.
CO4	To promote a pluralistic perspective of culture and literature in a multicultural society
CO5	Enhance critical thinking skills by evaluating and critiquing literary texts and theories, and understanding their historical and cultural contexts.
CO6	Compare and contrast different theoretical approaches and understand their methodologies and applications.



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### ENG5B09: LANGUAGE AND LINGUISTICS

#### COURSE OUTCOME

CO1	To lead to a greater understanding of the human mind, of human communicative action and relations through an objective study of language
CO2	To familiarize students with key concepts of Linguistics and develop awareness of latest trends in Language Study
CO3	To help students towards a better pronunciation and to improve the general standard of pronunciation in every day conversation and in reading.
CO4	To help the students develop a sense of English grammar, syntax and usage.
CO5	To improve writing and speech skills.

### ENG5B10: INDIAN WRITING IN ENGLISH

#### COURSE OUTCOME

CO1	To provide an overview of the various phases of the evolution of Indian writing in English
CO2	To introduce students to the thematic concerns, genres and trends of Indian writing in English
CO3	To expose students to the pluralistic aspects of Indian culture and identity
CO4	To enable students to appreciate Indian literature in English and to explore its uniqueness
CO5	To aware about the various writers of Indian Literature



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### ENG6B11: VOICES OF WOMEN

#### COURSE OUTCOME

CO1	To introduce students to experiences unique to women and to the fundamental precepts of the feminist movement.
CO2	To identify the polyphonic quality of women's voices
CO3	To equip students to steer clear of misconceptions regarding women and to evolve a human perspective about them.
CO4	To arouse a keen interest in analyzing critically the diversity of women's experiences across the world and to marvel at their creative skills.
CO5	To perceive gender as a social construct

### ENG6B12: CLASSICS OF WORLD LITERATURE

#### COURSE OUTCOME

CO1	To hone the sensibility of the student to appreciate the great classics
CO2	To understand their universal quality and thereby achieve a broader perspective of life
CO3	To acquaint the students with the classic literatures and thereby composite cultures of the world
CO4	To enable students to develop cross cultural perspectives
CO5	To enhance the literary sensibility of students

### ENG6B13: FILM STUDIES

#### COURSE OUTCOME

CO1	To introduce students to films studies as a discipline and to develop in them analytical and critical skills so that they can appreciate cinema as an independent art form
CO2	To appreciate film as an art form and its aesthetics.
CO3	To understand how film connects with history, politics, technology, psychology and performance



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<b>CO4</b>	To critically appraise the nature of representation on screen and how class, race ethnicity and sexuality are represented.
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<b>CO5</b>	To develop analytical skills so that the student can produce informed and thorough close readings of films.
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### ENG6B14: NEW LITERATURES

#### COURSE OUTCOME

<b>CO1</b>	To expose the students to diverse cultures and modes of expression
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<b>CO2</b>	To enable them to explore issues of cultural plurality and hybridity
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<b>CO3</b>	To expose the learners to literary negotiations of colonization and decolonization, identity, inequality, marginalization and so on.
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<b>CO4</b>	Understand the impact of colonization and decolonization on literary production.
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<b>CO5</b>	Develop the ability to critically analyze texts, focusing on themes like identity, migration, hybridity, resistance, and power dynamics.
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### ENG6B17: WRITING FOR THE MEDIA

#### COURSE OUTCOME

<b>CO1</b>	To make a better understanding on professional media industry and to the forms of writings for mass media.
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<b>CO2</b>	To familiarize the students with the latest trends in media
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<b>CO3</b>	To understand the specificities and possibilities of the different kinds of media
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<b>CO4</b>	To impart necessary technical writing skills
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<b>CO5</b>	To study about various commercials and digital reporting
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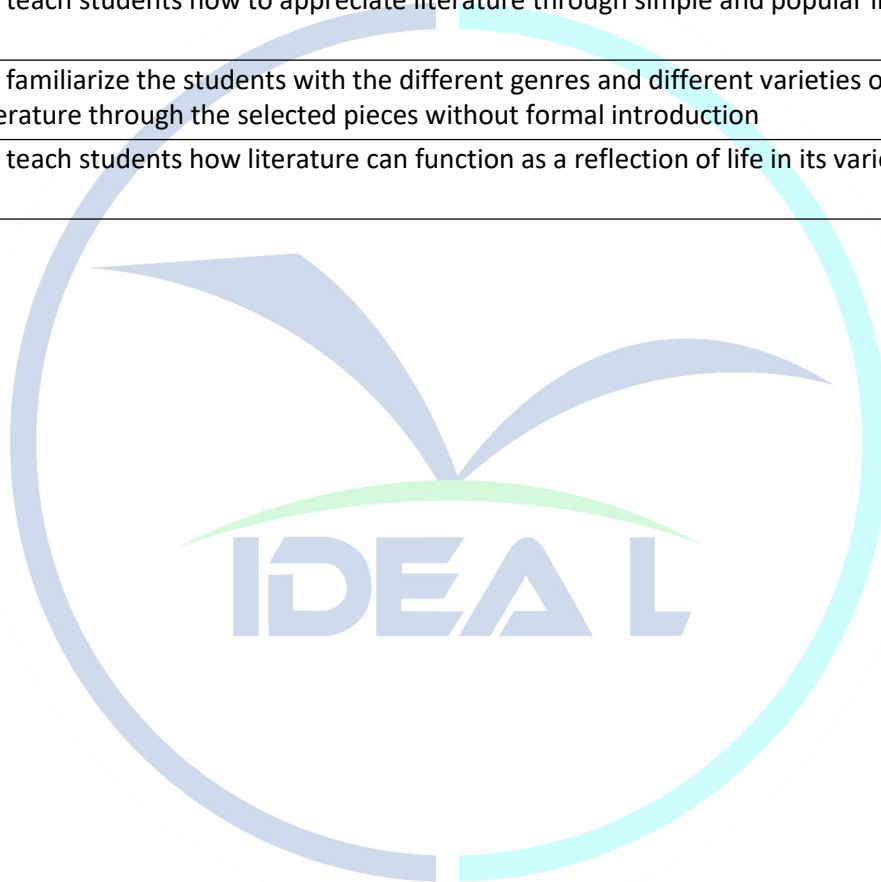
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### ENG5D03: APPRECIATING LITERATURE

#### COURSE OUTCOME

CO1	To generate genuine interest in literature
CO2	Focus is given on the literary aspects than the technical aspects of literary texts
CO3	To teach students how to appreciate literature through simple and popular literary works.
CO4	To familiarize the students with the different genres and different varieties of English literature through the selected pieces without formal introduction
CO5	To teach students how literature can function as a reflection of life in its varied forms.





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# MASTER OF COMMERCE

Semester	Course code	Course title	Co	Course outcome
1	MCM1CO1	<b>BUSINESS ENVIRONMENT AND POLICY</b>	CO1	Understand the Dynamics of the Business Environment-Students will be able to analyze the various external factors (economic, political, social, technological, legal, and environmental) that influence business operations and decision-making.
			CO2	Students will gain the ability to assess how government regulations, trade policies, and fiscal measures affect business activities and strategies in both domestic and global contexts.
			CO3	Students will learn to formulate strategic responses to the challenges and opportunities presented by changes in the business environment, including sustainable practices and corporate social responsibility initiatives.
	MCM1CO2	<b>CORPORATE GOVERNANCE AND BUSINESS ETHICS</b>	CO1	students will explain the main principles and practices of corporate governance. They will describe the roles of boards, shareholders, and stakeholders in ensuring transparency and accountability.
			CO2	Students will identify and





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				use ethical standards in business decisions. They will ensure that business practices follow ethical norms and meet societal expectations.
	MCM1CO3	QUANTITATIVE TECHNIQUES FOR BUSINESS DECISIONS	CO1	Students will apply quantitative methods to analyse business data and make informed decisions.
			CO2	Students will use statistical techniques to identify and solve business problems effectively.
	MCM1CO4	MANAGEMENT THEORY AND ORGANISATIONAL BEHAVIOUR	CO1	Students will learn and explain core management theories and their application in organizational settings.
			CO2	Students will examine and analyse the factors that influence individual and group behavior in organizations.
	MCM1CO5	ADVANCED MANAGEMENT ACCOUNTING	CO1	Students will use advanced costing methods to analyse and control costs in business operations.
			CO2	Students will apply management accounting tools to support strategic decision-making and enhance business performance.
2	MCM2C06	ADVANCED CORPORATE ACCOUNTING	CO1	Students will learn to account for complex corporate transactions like mergers, acquisitions, and consolidations.
			CO2	Students will prepare consolidated financial statements for corporate groups, including subsidiaries and associates.
			CO3	Students will apply relevant



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				accounting standards to ensure accurate and compliant corporate financial reporting.
MCM2C07	ADVANCED STRATEGIC MANAGEMENT	CO1	Students will assess and analyse external and internal environments to formulate effective business strategies.	
		CO2	Students will create strategic plans that align with organizational goals and competitive positioning.	
		CO3	Students will evaluate the effectiveness of strategic initiatives and recommend adjustments for optimal outcomes.	
MCM2C08	ADVANCED COST ACCOUNTING	CO1	Students will use advanced costing methods, such as activity-based costing and standard costing, to analyse costs.	
		CO2	Students will implement cost control techniques to optimize business operations and enhance profitability.	
		CO3	Students will prepare detailed cost reports to support management in making informed financial decisions.	
MCM2C09	INTERNATIONAL BUSINESS	CO1	Students will analyse the economic, political, and cultural factors affecting international business operations.	
		CO2	Students will create strategies for entering and competing in global markets.	
		CO3	Students will manage and lead teams across different	



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				cultures, addressing challenges and leveraging diverse perspectives.	
	<b>MCM2C10</b>	<b>MANAGEMENT SCIENCE</b>	<b>CO1</b>	Students will use quantitative techniques to analyse and solve business problems.	
			<b>CO2</b>	Students will apply optimization methods to improve business processes and decision-making.	
			<b>CO3</b>	Students will analyse data to derive strategic insights and support effective management decisions.	
<b>3</b>	<b>MCM3C11</b>	<b>FINANCIAL MANAGEMENT</b>	<b>CO1</b>	Students will evaluate financial statements to assess an organization's financial health.	
			<b>CO2</b>	Students will use techniques such as budgeting, forecasting, and financial modelling to make informed financial decisions.	
			<b>CO3</b>	Students will assess and make recommendations on investment opportunities based on risk and return analyses.	
	<b>MCM3C12</b>	<b>INCOME TAX LAW, PRACTICE AND TAX PLANNING</b>	<b>CO1</b>	Students will explain the key provisions of income tax laws and regulations.	
			<b>CO2</b>	Students will develop and apply tax planning strategies to optimize tax liabilities.	
			<b>CO3</b>	Students will prepare and file accurate tax returns in compliance with legal requirements.	
			<b>RESEARCH METHODOLOGY</b>	<b>CO1</b>	Students will create research designs and methodologies to address



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	<b>MCM3C13</b>			specific research questions.
			<b>CO2</b>	Students will utilize various data collection methods, including surveys and interviews, to gather relevant information.
			<b>CO3</b>	Students will analyse and interpret research data to draw valid conclusions and make informed recommendations.
	<b>MCM3E01</b>	<b>INVESTMENT MANAGEMENT</b>	<b>CO1</b>	Students will assess and evaluate various investment opportunities to determine their potential returns and risks.
			<b>CO2</b>	Students will create and manage diversified investment portfolios to optimize risk and return based on investor goals and market conditions.
	<b>MCM3E02</b>	<b>FINANCIAL MARKETS AND INSTITUTIONS</b>	<b>CO1</b>	Students will explain the structure and function of various financial markets, including equity, debt, and money markets.
			<b>CO2</b>	Students will assess the roles and functions of financial institutions, such as banks, insurance companies, and investment firms, in the financial system.
<b>4</b>			<b>CO1</b>	Students will explain the types, functions, and pricing of financial derivatives such as options, futures, and swaps.
	<b>MCM4C14</b>	<b>FINANCIAL DERIVATIVES AND RISK MANAGEMENT</b>	<b>CO2</b>	Students will use financial derivatives to manage and hedge against various types of financial risks, including market and credit risks.



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			<b>CO3</b>	Students will analyze market trends and pricing mechanisms of derivatives to make informed investment and risk management decisions.
<b>MCM4C15</b>	<b>INCOME TAX LAW PRACTICE TAX PLANNING II</b>		<b>CO1</b>	Students will apply advanced tax planning techniques to optimize tax efficiency for individuals and businesses.
			<b>CO2</b>	Students will interpret and apply complex income tax laws and regulations to ensure compliance and effective tax planning.
			<b>CO3</b>	Students will create tax-efficient investment plans and strategies to minimize tax liabilities while achieving financial goals.
<b>MCM4EO3</b>	<b>INTERNATIO NAL FINANCE</b>		<b>CO1</b>	Students will assess the structure and functioning of international financial markets, including foreign exchange and international capital markets.
			<b>CO2</b>	Students will apply techniques to manage and hedge against currency risk in international financial transactions.
			<b>CO3</b>	Students will evaluate investment opportunities and financial strategies in a global context to enhance portfolio performance and manage international risks.
<b>MCM4E04</b>	<b>ADVANCED STRATEGIC</b>		<b>CO1</b>	Students will develop comprehensive strategic plans that address complex business challenges and leverage competitive advantages.
			<b>CO2</b>	Students will assess the



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		<b>FINANCIAL MANAGEMENT</b>		effectiveness of implemented strategies using performance metrics and make recommendations for improvement.
			<b>CO3</b>	Students will design and manage the process of strategic change within organizations to adapt to evolving market conditions and business environments.
<b>MCM4PVO1</b>		<b>PROJECT WORK AND COMPREHENSIVE VIVA VOCE</b>	<b>CO1</b>	Students will conduct independent research on a chosen topic, demonstrating the ability to collect, analyze, and interpret data.
			<b>CO2</b>	Students will effectively present their research findings and recommendations in a clear, professional manner, showcasing their understanding and analytical skills.

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### **MSC COMPUTER SCIENCE 2019 ADMISSION ONWARDS** **COURSE OUTCOME**

#### **CSS1C01 – DISCRETE MATHEMATICAL STRUCTURES**

- CO1: Verify the validity of an argument using propositional and predicate logic.
- CO2: Understand allocations of set theory by applying operations on set.
- CO3: Apply operations of relations and functions in discrete structures.
- CO4: Understand applications of Lattices and Boolean algebra in computer science domain.
- CO5: Identify Group, Ring and Field in Group Theory
- CO6: Understand applications of Graph Theory and Tree
- CO7: Apply the concepts of graph theory and trees to formulate problem solving

#### **CSS1C02 – ADVANCED DATA STRUCTURES**

- CO1: Summarize different categories of data structures.
- CO2: Design algorithms to perform operations with linear and non – linear data structures.
- CO3: Describe how arrays, linked lists, stacks, queues, trees and graphs are represented in memory and used by algorithms.
- CO4: Describe common applications for arrays, linked lists, stack, queue, tree and graphs.
- CO5: Demonstrate different methods for traversing trees

#### **CSS1C03 – THEORY OF COMPUTATION**

- CO1: Describe broad overview of the theoretical foundations of computer science.
- CO2: Understand regular languages and finite automata.
- CO3: Apply the concept of context free languages in problem solving.
- CO4: Solve various problems of applying normal form techniques, push down automata and Turing Machines.
- CO5: Propose solutions for the problems based on computability and decidability

#### **CSS1C04 – THE ART OF PROGRAMMING METHODOLOGY**

- CO1: Improve ability to develop effective algorithms.
- CO2: Understand the fundamental principles of problem-solving using computers.
- CO3. Demonstrate the applications of the programming constructs including decision making, looping, arrays and strings.
- CO4. Conceptualize modular programming basics using functions, structures and Unions
- CO5. Understand features like pointers and macros and to become familiar with programming with files
- CO6: Design, develop, implement, test and document well-structured and reliable computer programs using the C programming language.

#### **CSS1C05 – COMPUTER ORGANIZATION & ARCHITECTURE**

- CO1: Understand the digital representation of data in a computer system.
- CO2: Understand the general concepts in digital logic design and their use in sequential and combinational circuit design.

CO3: Describe fundamental organization of a computer system.

CO4: Explain addressing modes, instruction formats and program control statements.

CO5: Understand computer arithmetic formulae and solve problems.

#### **CSS1L01 – PRACTICAL I**

CO1: Develop programming skills using the fundamentals and basics of C language.

CO2: Develop programs using the basic elements like control statements, arrays and strings.

CO3: Design and implement the effective usage of arrays, structures, functions and pointers.

CO4: Implement files handling and command line arguments.

CO5: Demonstrate the concepts of stack, queue and linked list and apply various operations on them

#### **CSS1A01 – INTRODUCTION TO RESEARCH (ABILITY ENHANCEMENT AUDIT COURSE)**

CO1: Understand research terminology.

CO2: Apply the ethical principles of research.

CO3: Identify the components of a literature review process.

CO4: Critically analyze published research works.

CO5: Innovate and apply research methods in the discipline of computing

#### **CSS2C06 – DESIGN AND ANALYSIS OF ALGORITHMS**

CO1: Design algorithms in context of space and time complexity and apply asymptotic notation.

CO2: Analyze the problem and develop the algorithms related to these problems.

CO3: Classify the problems and apply the appropriate design strategy to develop algorithms.

CO4: Analyze the problem and develop the algorithms related to these problems.

CO5: Demonstrate the use of parallel algorithms

#### **CSS2C07 – OPERATING SYSTEM CONCEPTS**

CO1: Understand the basic components of a computer operating system. CO2:

Compare and interpret the applications of Process and threads. CO3: Describe the policies for scheduling, deadlocks, synchronization, system calls, and file systems.

CO4: Illustrate the functioning of process management, memory management and file management Modules present in an OS.

CO5: Differentiate various types of scheduling algorithms.

#### **CSS2C08 – COMPUTER NETWORKS**

CO1: Understand the basics concepts of computer network organization and implementation.

CO2: Describe theoretical understanding of layered network models - OSI and TCP/IP Models.

CO3: Illustrate the functionalities of different network layers.

CO4: Analyze the network application such as data transmission between client and server, file transfer, real-time and multimedia transmission.

CO5: Explain the security aspects in networks and principles of cryptography.

#### **CSS2C09 – COMPUTATIONAL INTELLIGENCE**

CO1: Apply the basic principles, models, and algorithms of AI to recognize, model, and solve problems in the analysis and design of information systems.

CO2: Conceptualize various knowledge representation techniques.

CO3: Analyze the problem-solving methods and algorithms related to searching, reasoning, game playing and machine learning.



CO4: Understand the functioning of expert systems and its importance. CO5: Demonstrate the implementation various AI algorithms to solve real life problems

### **CSS2C10 – PRINCIPLES OF SOFTWARE ENGINEERING**

CO1: Understand the software process and development models.

CO2: Understand the software design process and structured analysis of systems.

CO3: Distinguish different types of modelling like DFD and UML.

CO4: Illustrate the knowledge about the design of user interface. CO5: Apply the skill of project management and report preparation.

### **CSS2L02 – PRACTICAL II**

CO1: Discuss and formulate the problems based on the basic principles of networks.

CO2: Implementation of different memory management techniques in OS. CO3: Implement various system operations of the operating system and also the various process scheduling algorithms.

CO4: Understand the TCP/IP configuration for Windows and Linux.

CO5: Design and implement various network applications such as data transmission

### **CSS2A02 – TERM PAPER (PROFESSIONAL COMPETENCY AUDIT COURSE)**

CO1: Apply critical thinking skills analytical ability in problem solving.

CO2: Apply foundational research skills to address research problem. CO3: Innovate, experiment and analyze research findings.

CO4: Demonstrate capacity to lead and manage change through a collaborative environment.

CO5: Innovate, experiment and analyze research findings and practice the process of scientific publishing.

### **CSS3C11 – ADVANCED DATABASE MANAGEMENT SYSTEM**

CO1: Explain the basics of database management system, concepts of relational data model, entity-relationship model, relational database design, relational algebra and calculus.

CO2: Apply the normalization techniques to improve the database design.

CO3: Describe various database manipulation commands in SQL.

CO4: Understand Transaction Processing & Locking using the concept of Concurrency control.

CO5: Conceptualize advanced features of Object-Oriented Database Management Systems and Distributed databases.

### **CSS3C12 – OBJECT ORIENTED PROGRAMMING CONCEPTS**

CO1: Recall the object-oriented programming concepts and basics of Java.

CO2: Design and implement object-oriented programs including packages and interfaces.

CO3: Explain and handle exceptions and threads.

CO4: Develop interactive programs using applets, AWT and swings.

CO5: Explain the concepts of JDBC, sockets and gives an introduction to Unified Modelling Language (UML).

### **CSS3C13 – PRINCIPLES OF COMPILERS**

CO1: Understand the major phases of compilation, identify tokens of a typical high-level programming language, define regular expressions for tokens, design and implement a lexical analyzer.

CO2: Develop the parsers and experiment the knowledge of different parsers design without automated tools.

CO3: Construct the intermediate code representations and generation. CO4: Explain the role of different types of runtime environments and memory organization for implementation of typical programming languages.

CO5: Apply the optimization techniques to have a better code for code generation

### **CSS3L03 – PRACTICAL III**

CO1: Design and development of relational database systems.

CO2: Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger and views.

CO3: Apply various software to design and build ER Diagrams, UML, Flowchart for related database systems.

CO4: Design and implement database applications on their own.

CO5: Apply JDBC to provide a program level interface for communicating with database using Java programming.

CO6: Use an integrated development environment to write, compile, run, and test simple object- oriented Java programs.

### **CSS3E01c – WEB TECHNOLOGY**

CO1: Understand the basics of HTML, XML and CSS.

CO2: Learn client-side programming and basics of Javascript.

CO3: Explore web servers and server-side technologies.

CO4: Able to do server-side programming with PHP.

CO5: Illustrate and apply content management systems and its features

### **CSS3E02f – DATA WAREHOUSING AND DATA MINING**

CO1: Understand the basic concepts of Data mining and warehousing. CO2: Identify the different techniques of data preprocessing.

CO3: Analyze patterns that can be discovered by classification and clustering.

CO4: Understand data mining techniques of clustering.

CO5: Identify complex data types based on spatial and web mining

### **CSS4P01 – PROJECT WORK**

CO1: Demonstrate a depth of knowledge of modern technology.

CO2: Practice to communicate effectively and to present ideas clearly and coherently to specific audiences in both the written and oral forms.

CO3: Understand the project requirements, reflect on their learning and take appropriate actions to implement it.

CO4: Estimate, plan, calculate, and adjust project variables.

CO5: Understand the importance of iteration, evaluation and prototyping in design of a software system

### **CSS4E03c – SYSTEM SECURITY**

CO1: Familiarize with different types of securities in information systems, security goals and CIA.

CO2: Illustrate computer system threats and various types of system attacks

CO3: Identify different issues associated with system attacks and how attacking occurs; and various types of attackers

CO4: Provide knowledge in operating system security, file protections, security assurance

CO5: Understand important elements of Database security

CO1: Understand basic networking and SAN topologies

CO2: Illustrate SAN basics technology and configuration

CO3: Understand storage networking architecture and SAN emerging technologies

CO4: Illustrate the storage infrastructure and management activities

CO5: Demonstrate how to build SAN and security guidelines



## **MASTER OF SOCIAL WORK (MSW)**

### **COURSE OUTCOME**

#### **MSW Semester I**

##### **SOW 1 C 01: History, Philosophy and Fields of Social Work**

CO1. Outline the history of Social work and Social Work education and its place in the context of other related concepts

CO2. Explain the philosophical assumptions and values of Social Work and the sources of Social work Philosophy

CO3. Apply social work values while working with various client groups

CO4. Explain the different perspectives in Social Work and evaluate their relative relevance/applicability in different practice contexts

CO5. Describe the basic concepts, methods and functions of Social Work and roles and skills of a professional social worker

CO6. Apply the Code of Ethics and describe the attributes of Social Work as a profession

CO7. Identify the various fields of Social Work

##### **SOW I C 02 : Sociology and Economics for Social Work Practice**

CO1. Describe the important sociological perspectives and theories

CO2. Explain the basic concepts in Sociology and Economics

CO3. Analyse major social and economic problems

##### **SOW1 C 03: Human Growth and Development**

CO1. Describe the definition, nature and scope of Psychology

CO2. Explain the general concepts in Psychology

CO3. Evaluate the theories and principles of development

CO4. Examine the life span approach and development through different stages

##### **SOW I C 04: Professional Skills for Social Workers**

CO1. Explain the concepts of self, self , Self awareness, self concept, self esteem, self image and self acceptance

CO2. Demonstrate the various techniques of understanding oneself

CO3. Demonstrate the relationship, communication and leadership skills required for social workers



CO4. Apply ICT in social work practice

**SOW I C 05: Social Legislation and Human Rights**

CO1. Explain the Legal system in India and the process of making social legislation

CO2. Describe Social Legislation as an instrument for Social Control, Social Security, Social change, Social justice and Social Policy

CO3. Explain human rights and organizations to protect human rights

CO4. Outline the legislations for the protection of children, women, aged and other vulnerable groups and statutory bodies involved in their implementation

CO5. Identify the role of Social Workers in the field of Social legislation and Human rights

**MSW Semester II**

**SOW2 C06: Social Case Work**

CO1. Explain the theoretical framework and core values for the practice of social case work

CO2. Assess and diagnose the problems of individuals

CO3. Plan intervention for individuals with problems

CO4. Develop skills in liaisoning, networking and mobilizing resources for the rehabilitation of individuals with problems

CO5. Acquire skills for recording and documentation of interventions

**SOW2 C 07: Social Group Work**

CO1. Explain the theoretical framework for the practice of Social Group Work

CO2. Describe the group work process

CO3. Assess and diagnose problems and plan group work for individuals in groups

CO4. Analyze the applications of SGW in various settings

**SOW2 C 08: Community Organisation and Social Action**

CO1. Describe the basic concepts of community, community functions and community dynamics

CO2. Apply the values of community organization and social action

CO3. Explain the process, theoretical framework and models of Community Organisation

CO4. Use strategies and skills in community organization and social action



CO5. Practice community organization in different contexts

**SOW2 C 09: Psychology for Social Work**

CO1. Explain the definition, nature and scope of Social Psychology

CO2. Explain the concepts of attitude, social perception and social cognition

CO3. Describe the nature, functions and concepts of group

CO4. Outline the aspects of social influence, theoretical perspectives and features of prosocial behaviour and aggression

CO5. Evaluate the relevance of propaganda and collective behavior

CO6. Explain the concept of mental health, mental health issues and Biopsychosocial model of mental health and mental disorders

**SOW2 C 10: Theory and Practice of Counselling**

CO1. Explain the concept and process of counselling and its elements

CO2. Differentiate counselling from Social Case Work, Guidance and Psychotherapy

CO3. Determine the application of theories in counseling

CO4. Demonstrate the ability to practice counselling in various settings

**MSW Semester III**

**SOW3 C 11: Quantitative and Qualitative Methods for Social Work Research**

CO1. Describe the significance and characteristics of social work research

CO2. Explain the process of social work research

CO3. Demonstrate the ability to use various quantitative and qualitative research methods

CO4. Explain the meaning of descriptive and inferential statistics

CO5. Determine the application of statistical techniques in social work research

CO6. Demonstrate the ability to undertake research projects in social sciences and prepare scientific reports

**SOW3 C 12: Participatory Project Planning and Training**

CO1. Explain relevant theoretical frame work of project preparation and its various stages

CO2. Demonstrate skills in preparation, management and evaluation of development projects

CO3. Design and implement participatory training programme

CO4. Use participatory training methodologies for social work interventions



### **SOW3 C 13: Community Health**

- CO1. Explain the concept of Community health and related terminologies
- CO2. Describe the concept of health and integrated approach to health in the context of Development
- CO3. Analyze plans and policies/legislations in health and implications for social work practice
- CO4. Identify the public health issues and needs facing the country and design social work interventions
- CO5. Outline the Health Care system in India and its administration pattern

### **Elective 1 -Medical and Psychiatric Social Work**

#### **SOW3 E1 01 : Health Care Social Work**

- CO1. Describe the history and scope of Health Care social Work
- CO2. Demonstrate the ability to do psycho-social assessment of persons with health issues
- CO3. Identify the role and functions of social workers in the health care settings.
- CO4. Determine the application of theories and approaches in health care social work
- CO5. Identify the ethical practice in healthcare social work

#### **SOW3 E1 02: Social Work in Mental Health Settings**

- CO1. Explain Classification in Psychiatry
- CO2. Describe psychiatric interviewing and assessment in Psychiatry
- CO3. Describe Epidemiology, Clinical Manifestation, treatment and outcome of major psychiatric disorders
- CO4. Identify the role of psychiatric social worker in psycho social interventions
- CO5. Practice Psycho Social Interventions and Multidisciplinary team approach in the field of mental health
- CO6. Apply social work methods in mental health settings

### **MSW Semester IV**

#### **SOW4 C 14 : Administration of Human Service Organizations**

- CO1. Explain the concepts in administration and administration as a method of Social work
- CO2. Describe the procedure of registering trust, society, CBO, NGO and NPO.



CO3. Outline the social welfare programmes of Ministry of women and child development, Ministry of rural development, Ministry of urban development, Panchayati Raj, Central social welfare board and State social welfare board.

CO4. Explain HRM and its process

CO5. Describe the concept of organizational behavior and theories of motivation and leadership

CO6. Explain the problems in organizations and grievance redressal mechanisms

### **SOW4 C 15 : Social Work with Vulnerable groups**

CO1. Explain the concepts-Vulnerability, Exclusion, Marginalisation, At-risk, disadvantaged and Stigmatisation

CO2. Describe major issues and vulnerabilities faced by different vulnerable groups

CO3. Evaluate the policies and welfare programmes for vulnerable groups in India

CO4. Describe the approaches and strategies of social work with them

CO5. Apply social work principles, skills and methods in helping vulnerable groups

### **Elective 1 - Medical and Psychiatric Social work**

#### **SOW4 E1 03 : Therapeutic Approaches in Medical and Psychiatric settings.**

CO1. Explain the concept of psychotherapy and different types of therapies

CO2. describe Cognitive and behaviour therapies, Humanistic and existential therapies and techniques

CO3. Explain Family Therapy and techniques of practice used in family therapy

CO4. Explain other psychosocial therapies

CO5. Explain the role of Yoga and meditation, mindfulness based stress reduction, motivational enhancement therapy in stress reduction

#### **SOW4 EI 04 : Social Work Practice with Families**

CO1. Describe the conceptual framework related to marriage and family and characteristics of family life cycle

CO2. Identify models of family dynamics and family assessment

CO3. Explain the process of family social work

CO4. Explain the history, concepts and techniques of family therapy

CO5. Practice family therapy in contexts including Family Counselling Centres, Family



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Courts, Family welfare Clinics, Adoption and Foster Care Agencies, and Family Violence.

