2.6.1 (15)

Program Outcomes and Course Outcomes for all Programs offered by the institution are stated and displayed on the website and communicated to teachers and students.

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1. Course Outcomes : Under Graduate

1 . A) Course Outcomes of BBA

Program : BBA Part I (Semester I)

Paper : 1T1

Course : English

Course outcomes:

CO1	Explain the following in detail: • Tense, Forms of the verb • Preposition, Articles • Punctuation • Single word for a group of words • Sentence construction and comprehension
CO2	Explain 'Business letter writing' in detail.
CO3	Describe the various business manners.
CO4	Describe the different personalities of human being from fourth unit.

: **Paper: 1T2**

Course : Fundamentals of Business Management

Course outcomes:

CO1	Understand management and functions of manager. Interpret various contributions in development of management thoughts.
CO2	Differentiate between management and administration.
CO3	Gain knowledge of management planning.
CO4	Apply the concepts of decision making in organization.

Paper : 1T3

Course : Computer Applications for Business

Course outcomes:

CO1: Describe basics of computers and networking concepts.

CO2: Describe working with computers and MS-Office.

CO3: Basics of E-Commerce.

CO4: Explain business consulting, strategy and operation.

Paper   : 1T4
Course : Cost Accounting
Course outcomes:

CO1	Cope with the cost sheet, tender sheet and evaluate the cost of production to determine selling price and profit.
CO2	Understand various types of operating costs viz. cost of transportations, hospitals, hotels, etc.
CO3	Understand the costing of various types of process accounts under the manufacturing, construction and oil companies.
CO4	Knowledge about break even analysis, break-even point, profit volume ratio, margin of safety, etc.

Program : BBA Part I (Semester II)

Paper : 2T1
Course: Principles of Marketing Management
Course outcomes:

CO1: Understand the core concept of marketing.

CO2: Get knowledge on segmentation, targeting and positioning (STP model).

CO3: Determine new product and its life cycle.

CO4: Determine use of different promotional mix in marketing.

Paper   : 2T2
Course : Financial and Management Accounting
Course outcomes:

CO1	To understand the accounting procedure, how to apply golden rules of accounts as well as preparation of journal entries.
CO2	To deal with the preparation of Final Accounts of Joint Stock Companies including Trading A/c, Profit & Loss A/c, Balance sheet and various adjustments.
CO3	The applications of various management ratios in the business and to determine break even analysis.
CO4	To understand how to prepare cash and flexible budgets and it's applicability in the business organization.

Paper   : 2T3
Course : Micro-Economic Fundamentals
Course outcomes:

CO1: Difference between micro economics and macroeconomics.

CO2: Understand the concept of demand and supply.

CO3: Apply production function and cost function in economics.

CO4: Determination price in various market structures.

Paper   : 2T4
Course : English
Course outcomes:

CO1: Explain the following in detail:
- Subject-verb-agreement / concord of nouns, pronouns and possessive adjectives
- Spotting errors and rewriting sentences correctly
- Phrasal verbs, collocations and idioms
- Words often confused

CO2: Explain 'Business communication'?

CO3: Describe the various human personalities mentioned in third unit.

CO4: Describe the different aspects of knowledge.

Program : BBA Part II (Semester III)

Paper   : 3T1

Course : Organizational Behaviour

Course outcomes:

CO1	The student will be able to understand the basics of Organizational behaviour and various challenges for organisational behaviour
CO2	The student will be able to analyse the foundations of individual behaviour and various factors influencing individual behaviour.
CO3	The student will be able to understand various dimensions of attitude and personality.
CO4	The student will be able to examine the dynamics of group development and group properties.
CO5	The student will be able to develop an understanding about motivation and apply its theories as a manager.

Paper   : 3T2

Course : Managerial Economics

Course Outcomes :

CO1	The student will be able to understand the various concepts of economics.
CO2	The student will be able to use the various techniques of demand forecasting.
CO3	The student will be able to understand the theory of production and cost function.
CO4	The student will be able to analyze the price determination under different types of competition.
CO5	The student will be able to analyze the various techniques used in managerial economics.

Paper   : 3T3

Course : Aptitude Development 2

Course outcomes :

CO1	The Students will be able to illustrate quantitative and mathematical computational ability.
CO2	The student will be able to interpret various coding based on conditions, word patterns, direction, distance etc.
CO3	The student will be able to inspect situations logically and draw conclusions
CO4	The student will be able to illustrate the ability of verbal comprehension
CO5	The student will be able to develop critical thinking ability.

Paper : 3T4

Course : Advance Excel

Course outcomes :

CO1	The student will be able to apply functions of MS -Excel for various mathematical and conditional analysis.
CO2	The student will be able to perform formatting operations and create a password protected worksheet
CO3	The student will be able to extract information from data using logical functions in MS Excel.
CO4	The student will be able to use advanced functions for statistical calculation and analysis using Tool Pak of MS Excel.
CO5	The student will be able to use and apply various advanced functions of MS Excel in their professions.

Paper : 3T5 A

Course : Content Writing

Course outcomes :

CO1	The student will be able to understand basic concepts of content writing
CO2	The student will be able to gain knowledge regarding types of content writing and editing.
CO3	The student will be able to acquire knowledge on various writing styles.
CO4	The student will be able to create plagiarism-free content.
CO5	The student will be able to understand and write effective content without plagiarism.

Paper : 3T5 B

Course : Healthy Living

Course outcomes :

CO1	The student will be able to identify what lifestyle changes are required for health and wellness.
CO2	The student will be able to assess mental and emotional health and cope with various mental disorders.
CO3	The student will be able to assess nutritional status of diets and develop diet plans for them
CO4	The student will be able to understand about causes and risks associated with various communicable diseases.
CO5	The student will be able to develop preventive measures for better overall health.

Program: BBA Part II (Semester IV)

Paper : 4T1

Course : Fundamentals of Marketing Management

Course Outcomes :

CO1	The student will be able to examine the marketing environment and explain various terms such as need and value.

CO2	The student will be able to understand market segmentation and positioning for a product or service.
CO3	The student will be able to classify the products into various categories and recommend a suitable pricing strategy as per the product's life cycle stage.
CO4	Given a situation, the student will be able to recommend specific media for advertising and evaluate the distribution channels suitable for the situation.
CO5	The student will be able to understand the various marketing concepts in day to day life.

Paper : 4T2
Course : Fundamentals of Human Resource Management
Course outcomes:

CO1	The student will be able to differentiate between Personnel Management and Human Resource Management.
CO2	The student will be able to appraise the various sources of recruitment and methods of selection in an organization.
CO3	The student will be able to analyse the need for training and evaluate the applicability of various training techniques
CO4	The student will be able to assess the performance appraisal process and justify the utility of various modern and traditional methods of performance appraisal.
CO5	The student will be able to apply various techniques of human resource management in an organization.

Paper : 4T3
Course : Fundamentals of Financial Management
Course Outcomes :

CO1	The student will understand the concept of financial management and classify the various sources of finance available for financing.
CO2	The student will be able to compute the time value of money to know the future/present value of money.
CO3	The student will be able to estimate the cost of capital of business and understand its impact on business.
CO4	The student will be able to estimate the need of working capital in the business.
CO5	The student will be able to use various concepts of financial management in day to day life.

Paper : 4T4 - A
Course : Financial Wellbeing
Course outcomes:

CO1	The student will be identify financial goals for individuals and prepare budget to achieve financial goals .
CO2	The student will be able to classify the various personal investment instrument .
CO3	The student will be able to prepare plans for specific financial objectives .
CO4	The student will be able to assess the indebtedness and understand the management of debts.

CO5	The student will be able to assess overall financial wellbeing of an individual.

Paper   : 4T4 - B
Course : Business Startup Skills
Course outcomes:

CO1	The student will be able to identify the key traits required for an entrepreneur
CO2	The student will be able to assess business opportunities for an entrepreneur
CO3	The student will be able to design and develop a business plan
CO4	The student will be able to identify institutional financial support for start-up
CO5	The student will be able to acquire requisite information and skills for entrepreneurship

Paper   : 4T5 - A
Course : Business Psychology
Course outcomes   :

CO1	The student will be able to understand the importance of psychology in a business enterprise.
CO2	The student will be able to comprehend the process of psychological research
CO3	The student will be able to apply psychological tests for evaluation of individuals in business
CO4	The student will be able to relate the causes and effects of stress on an individual
CO5	The student will be able to assess and develop appropriate psychological traits for an individual in business.

Paper   : 4T5 - B
Course : Indian Social Values and Business Ethics
Course Outcomes :

CO1	The student will be to understand the concept of values and relate it with loyalty , behavior and culture.
CO2	The student will be able to implement the concept of values in Indian culture in developing attitudes and beliefs
CO3	The student will be able to understand and apply ethical principles in business
CO4	The student will be able to compare various corporate governance standards for effective business conduct.
CO5	The student will be able to develop and implement values and ethics in business.

Program : BBA Part III (Semester V)

Paper   : 5T1
Course : Entrepreneurship Development
Course Outcome : On completion of the course, student will be able to

CO1: Describe entrepreneur & entrepreneurship.

CO2: Describe entrepreneurial growth.

CO3: Describe small enterprises.

CO4: Describe institutional & financial support to entrepreneurs.

Paper   : 5T2

Course : Principles of Operations Management

Course Outcome : On completion of the course, student will be able to

CO1: Differentiate between production, manufacturing and services.

CO2: Make decision about plant location and plant layout.

CO3: Know how to make material management.

CO4: Determine quality management system.

Paper   : 5T3

Course : International Business Environment

Course Outcome   : On completion of the course, student will be able to

CO1: Describe international business and international collaborative arrangements and strategic alliances.

CO2: Describe international business environment.

CO3: Describe global trading and investment environment.

CO4: Describe international economic institutions and agreements.

Paper: 5T4

Course: Research Methodology

Course Outcome : On completion of the course, student will be able to

CO1: Design research methodology suitable for any organization to achieve its goals.

CO2: Knowledge of sampling design and formulation of hypothesis.

CO3: Understand the measurement and scaling techniques.

CO4: Identify methods of data collection and explain various techniques of data interpretation. Design project layout and prepare research report.

Program: BBA Part III (Semester VI)

Elective A – Financial Management

Paper: 6T1

Course: Fundamentals of Business Finance

Course Outcome   : On completion of the course, student will be able to

CO1: Describe time value of money.

CO2: Make decisions on capital budgeting.

CO3: Make dividend decisions.

CO4: Understand reasons for corporate restructuring.

Paper: 6T2

Course: Advanced Financial Management

Course Outcome : On completion of the course, student will be able to

CO1: Understand banking services and operations.

CO2: Describe various insurance services.

CO3: Explain concepts of mutual funds.

CO4: Describe structure of capital market.

Elective B – Human Resource Management

Paper: 6T1

Course: Fundamentals of Human Resource Management

Course Outcome : On completion of the course, student will be able to

CO1: Describe evolution of HRM and role of HRM in strategic management.

CO2: Describe performance appraisal with traditional & modern methods.

CO3: Describe job evaluation and compensation management.

CO4: Describe Provident Fund Act, Employee State Insurance Corporation Act, Minimum Wages Act, Industrial Relations Act and Industrial Dispute Act.

Paper: 6T2

Course: Advanced Human Resource Management

Course Outcome : On completion of the course, student will be able to

CO1: Describe job analysis, job design and job evaluation.

CO2: Understand performance appraisal.

CO3: Describe industrial relations.

CO4: Explain goal setting, promotions, transfers, separations and recruitment process.

Elective C – Marketing Management

Paper: 6T1

Course: Fundamentals of Marketing Management

Course Outcome : On completion of the course, student will be able to

CO1: Describe concept of integrated communication mix.

CO2: Understand the importance of branding, advertising and digital marketing.

CO3: Know the purpose of sales organisation.

CO4: Describe the concept of service marketing.

Paper: 6T2

Course: Advanced Marketing Management

Course Outcome : On completion of the course, student will be able to

CO1: Understand salesmanship.

CO2: Know distribution network management.

CO3: Describe service quality information system.

CO4: Understand customer retention and relationship marketing.

Paper: 6P1

Course: Project work

Course Outcome :On completion of the course, student will be able to

CO1: Student develop his/her ability to apply multi-disciplinary concepts, tools and techniques to solve organizational problems and/or to evolve new/innovative theoretical frame work in marketing Management / Finance management / Human resource management.

1. B   Course outcomes of BCCA

Program: BCCA Part I (Semester I)

Paper: 1T1

Course : English and Business Communication - I

Course outcomes:

CO1	Explain	a) Comprehension of an Unseen Passage.

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	b) Synonyms and Antonyms, Single Word for a Group of Words, Change of Word from Noun to Adjective & vice-versa.
CO2	Explain the term "Business Correspondence".
CO3	Describe various aspects of Communication?
CO4	Explain the human nature according to various authors in this unit.

Paper   : 1T2
Course : Financial Accounting
Course outcomes:
CO1 : Understand accounting procedure, apply golden rules of accounts, preparation of
        journal entries.
CO2   : To deal with the preparation of Final Accounts of Sole Traders including Trading A/c,
        Profit & Loss A/c, Balance sheet and various adjustments.
CO3 : To provide the knowledge regarding consignment account and why the consignor sends
        goods on invoice price to consignee.
CO4 : To determine value of goodwill by applying various methods of goodwill.

Paper: 1T3
Course: Fundamental of Computer
Course outcomes:
CO1: Understanding the computer, Memory and storage system.
CO2: Input Devices, Output Devices, Computer Codes.
CO3: Computer Software, Programming Language, Data Communication and Network
CO4: Operating System, Microsoft Software.

Paper: 1T4
Course: Programming in C
Course outcomes:
CO1: Understand data types, operators, control statements and writing program in C.
CO2: Describe function and arrays.
CO3: Describes pointers, pre-processors, macros, header files and standard functions.
CO4: Understand structures, unions, files handling and data file operations.

Paper: 1P1
Course: Practical
Course outcomes:
CO1: Understand practical implementation of all concepts of every unit of 'Fundamentals of
computer' and 'Programming in C' by attempting problems.

Program : BCCA Part I (Semester II)
Paper: 2T1
Course: English and Business Communication – II
Course outcomes:
CO1: Explain a) Comprehension of an Unseen Passage.
                b) Punctuation, Words often confused.

CO2: Explain the term "Business Correspondence"

CO3: Describe various aspects of Communication?

CO4: Explain the human nature according to various authors in this unit.

Paper   : 2T2

Course : Principles of Business Management

Course outcomes:

CO1: Describe meaning of management and its function.

CO2: Describe meaning of organization, its type and staffing.

CO3: Describe training and development, direction and supervision.

CO4: Describe communication and types.

Paper   : 2T3

Course Name : Programming in C++

Course outcomes:

CO1	Understand difference between object oriented concept and procedure oriented concept and also becomes eligible to construct simple program with conditional paradigm.
CO2	Describe advanced features like function, array, pointer, structure and union and their use in programming.
CO3	Understand object oriented structure of C++ along with certain object oriented features like inheritance and different types of it's.
CO4	Describe objected oriented features like "function and operator overloading, polymorphism and virtual functions and Data file operations".

CO1: CO2: CO3: CO4: **Paper: 2T4**

Course : E-Commerce and Web Designing

Course outcomes:

CO1: Electronics commerce, Business strategy, Competitive advantage.

CO2: Inter Organization transaction, Electronic Market, EDI, Inter-organization E Commerce

CO3: Business to customer E-Commerce, Elements of E- Commerce, Introduction to HTML.

CO4: Ordered and unordered lists, Table headings, Sheets, Frames, Forms.

Paper: 2P1

Course : Practical

Course Outcomes:

CO1	Understand practical implementation of all concepts of every unit of 'Programming in C++' and 'E Commerce and web designing' by attempting problems.

Program : BCCA Part II (Semester III)

Paper   : 1

Course   : Environmental Studies & Community Engagement

Course Outcomes :

CO1	Given information on basics of Environmental studies and its types students will be able to understand the importance of resources and will be able to apply in

CO2	Given information on Ecology students will be able to identify the threats to environment and also able to apply their knowledge to reduce it
CO3	Given information on pollutions and its effect student will be able to apply the knowledge to identify the types of pollution and their role in prevention of it
CO4	Given information on social issues and community engagement student will be able to apply their knowledge while doing ISR activities to guide the peoples in the society

Paper   : 2
Course : Business Studies
Course   Outcomes   :

CO1	Given information on Basic of Marketing students will be able to define have working knowledge of Marketing.
CO2	Given information on various financial terms, students will be able to differentiate between different elements of Marketing Mix.
CO3	Given information on Human Resource Management student will be able to develop the basic understanding of role and importance of HRM role.
CO4	Students will be able to understand different functions of Human Resource Management and able to apply the working knowledge of operations management.

Paper   : 3
Course : CSS and Java Script
Course   Outcomes   :

CO1	Given information on basic CSS tags of HTML students will be able to Apply Cascading Style Sheet while developing Web Pages.
CO2	Given information on elements of CSS students will be able to demonstrate the ability to format and represent fonts in effective manner.
CO3	Given information on basics of Java Script student will be able to Use different Data Types, Conditional Statements and Looping Statements to Make Web Pages Interactive.
CO4	Students will be able to Create the Interactive Web Pages by Using Functions, Arrays and Events in JavaScript students will be able to demonstrate different events and objects in their web pages

Paper   : 4   Course Code – 3GE4
Course : Ethical Hacking
Course   Outcomes   :

CO1	Students will be able to understand the basic terminologies of information security and various threats to information.
CO2	Students will be able to apply the obtained knowledge of Ethical hacking, and develop an understanding of different vulnerabilities.
CO3	Students will be able to use hacking tools and techniques in an ethical manner.
CO4	Students will be able to demonstrate knowledge of cryptography and social engineering.
CO5	Given information on Ethical Issues on information security students will be able

	to memories the legal aspects in information security.

Paper   : 4   **Course   Code – 3GE4**
Course   :   Computer Network
Course   Outcomes   :

CO1	Students will be able to understand and use information of basic concepts of Computer Network.
CO2	Students will demonstrate the ability to understand and differentiate between different protocols.
CO3	Students will be able to get detailed knowledge about the various types of transmission media and their uses.
CO4	Students will gain valuable skills in computer networks like switching, routing by using all connectivity devices.
CO5	Students will showcase ability to use different Network Connectivity Devices.

Paper   : 4   **Course Code   –   3GE4**
Course   :   Content Writing & Analysis
Course   Outcomes   :

CO1	Given information on concepts of content writing student will be able, understand the importance of content writing.
CO2	Given information on different types and process of content writing student will be able to understand and identify the process of content writing.
CO3	Given information of various styles and modes of business student will be able to apply the different styles while writing the content according to type of business
CO4	Given information on basic of plagiarism student will be able to apply the rules and regulation while drafting the content.

Program   : BCCA Part II   (Semester IV)

Paper   : I
Course : Business Economics
Course Outcomes :

CO1	Given the basic Problems of an economy, students will be able to gain an insight, understand the concept of Economics, Business Economics, and Classify the different types of economic system and utilities.
CO2	Given the demand -Supply Analysis, Students will be able to understand and analyse Demand Supply, elasticity of demand, elasticity of supply and Calculate the Price ,Income and Cross Elasticity of demand
CO3	Given the information on Production and Cost Analysis, Students will be able to able to relate the basic concepts of Production ,Cost and will also be able to demonstrate the law relating to Short Run and Long Run Production Function and compute the Production cost for the given product.
CO4	Students will be able to understand the concept of Market, identify the features of market. They will also analyse and compare the price -output determination under different market structure

Paper : 2

Course : Business Law & Cyber Security

Course outcomes:

CO1	Given information on Contract Act 1872 students will be able to define various terminologies comes under this Act. Eg. Agreement, Contract, Types of Contracts etc.
CO2	Given information of Negotiable Instruments Act 1881 students will be able to define and understand the types of Negotiation Instruments.
CO3	Given information on The Information Technology Act, 2000 students will be able to illustrate the various legal terminologies comes under IT Act 2000
CO4	Given information on The Information Technology Act, 2000 students will be able to Apply the code of Ethics while using social media for communication.

Paper : 2

Course : Research Methodology

Course outcomes:

CO1	Given the information on various types of research and design and process, student will be able to identify the basic research process and will be able to interpret its scope for organization.
CO2	Given the information on sample design, its types and hypothesis the student will able to describe different parameters used for sample design also able to formulate the hypothesis.
CO3	Given the various measurement techniques the student will be able to compile questionnaire for various research studies
CO4	Given the information on different data collection methods students will be able to collect the data using primary and secondary methods.
CO5	Given the information students will be able to prepare reports for the given data

Paper : 3

Course : Cloud Computing

Course outcomes:

CO1	Students will be able to use the obtained knowledge to differentiate between different computing paradigms.
CO2	Students will be able to understand the ways to develop and deploy the cloud fundamentals programs.
CO3	Students will be able to classify various service delivery models of a cloud computing architecture and management of cloud
CO4	Students will be able to describe the cloud service Model and understand the importance of its service providers.

Paper : 3

Course : Artificial Intelligence & Machine Learning

Course outcomes:

CO1	Student will be able to demonstrate build AI blocks.
CO2	Student will be able to understand basic concept of fuzzy logic and robotics.
CO3	Student will be able to analyze and formalize the problem as a Machine Learning Techniques.
CO4	Students will be able to understand the basics of Neural Network in ML and able to apply and evaluate supervised machine-learning techniques to real world

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	problem

Paper : 3

Course : Management Information System

Course outcomes:

CO1	Students will be able to evaluate dimensions of information and its quality. Students will be able to understand the Impact of Information System on Organization.
CO2	Students will be able to understand the concept of MIS and differentiate various types of MIS. Students will be able to evaluate the concepts of Data Mining and Data Warehousing.
CO3	Students will be able to understand ERP, CRM and SCM. Students will be able to evaluate the concept of Business Intelligence and Knowledge Management Systems.
CO4	Students will be able to understand concept of Project Planning and Project Management. Students will be able to interpret Structured Analysis Tools.

Paper : 4

Course : – PHP & MySQL

Course outcomes :

CO1	Students will able to understand and compare html file and php file and will be able to use the knowledge for a given business application.
CO2	Students will be able to analyse the data and can create forms for real life business applications.
CO3	Student will be able to use techniques to handle cookies and sessions, to create and modify server cookies and operate session on the internet.
CO4	Student will able to explore, analyse and use different files for creating forms and will be able to use database in the backend for the applications

Program: BCCA Part III (Semester V)

Paper : 5T1

Course : Computerized Accounting using Tally

Course Outcomes :

CO1	Discuss about company in Tally, installation procedure of Tally, components of Tally and also explain Stock Group, multiple Stock Categories, multiple godowns with screen.
CO2	Explain primary group, Multiple Groups, Multiple Ledger, steps to create voucher types, a purchase orders, sales.
CO3	Discuss Service Tax, TDS, TCS, create VAT reports and also explain tax Deduction procedure in Tally.
CO4	Understand back-up, restore, migrate data and explain security levels and Security Controls in Tally.

Paper : 5T2

Course : VB.NET

Course outcomes:

CO1: Explain Common Language Common Language Runtime, Visual Basic .NET IDE and various control flow statements.

CO2: Describe structure with syntax and example, Array, Lookup Tables, Hash table, Dialog Box Control.

CO3: Explain menu, errors, debugging, concept of inheritance, .net framework.

CO4: Explain the concept of database, SQL statement, data access components, ADO.Net, properties and methods of Data Set Class.

Paper : 5T3

Course : System Analysis and Design

Course outcomes :

CO1	Describe System Concept and the Information Systems Environment, System Development Life Cycle and Role of System Analyst.
CO2	Describe System Analysis, System Design- Forms Design , File Organization and Data Base Design.
CO3	Describe System Implementation.

Paper: 5T4

Course: Cost and Management Accounting

Course outcomes :

CO1	Understand cost and management accounting, framework, taxonomy.
CO2	Understand the concept of strategic management accounting, it's value chain, life cycle costing, target costing and Kaizen Costing.
CO3	Understand costing system and job order costing.
CO4	Understand costing of various types of process accounts under the manufacturing, Construction and oil companies, activity based costing, customer profitability analysis.

Paper: 5P1

Course Name : Practical

Course outcomes:

CO1: Understand practical implementation of all concepts of every unit of 'Tally' and 'VB.Net' by attempting problems.

Program : BCCA Part III (Semester VI)

Paper: 6T1

Course Name : C#.Net

Course outcomes:

CO1: Describe .NET Framework and structure of C# programming.

CO2: Explain Decision making, Loop statements and Methods and Array.

CO3: Describe Structures, Classes, Enum, Constructor, Abstract Classes, Inheritance and Polymorphism.

CO4: Discuss Interface, Operator Overloading and Exceptional Handling concepts with Syntaxes and Programs.

Paper: 6T2

Course Name : Python

Course outcomes:

CO1: Understand basic of python, operations and statement making in python.

CO2: Describe functions and understand importing modules.

CO3: Understand managing string and describe programming objects.

CO4: Understand processing request, building interfaces and developing applications.

Paper: 6T3

Course Name : Entrepreneurship Development

Course outcomes:

CO1: Describe meaning of entrepreneurship types.

CO2: Describe Agri- Preneurship, Factors affecting Entrepreneurship growth.

CO3: Explain Entrepreneurship Development Programmes (EDPs).

CO4: Describe Project Appraisal and Forms of business Ownership.

Paper: 6P1

Course : Practical

Course outcomes:

CO1: Understand practical implementation of all concepts of every unit of 'C#.Net' and 'Python' by attempting problems.

Paper: 6P2

Course : Project work

Course outcomes:

CO1: Students are expected to work out a project in some industry / research and development laboratories / educational institutions / software export companies. The Applications Areas of project – Financial / Marketing / Database Management System / Relational Database Management System / E-Commerce / Internet / Manufacturing / web Designing / Scientific / ERP etc.

1   (C)   Course Outcomes of   B. Com.

Program: B. Com. Part I (Semester I)

Paper: 1T1

Course: Financial Accounting - I

Course outcomes:

CO1	Describe objectives, principles of Accounting, Accounting concepts & Conventions, and Accounting Standards- AS 1 to AS 10.
CO2	Distinguish between Hire Purchase and Instalment System and computation of Hire Purchase System
CO3	Explain Types of Co-operative societies and Preparation of Trading & Profit and Loss A/C and Balance Sheet.
CO4	Describe Methods of joint venture accounting and computation of Joint venture accounting.

Paper: 1T2

Course: Business Organization

Course outcomes:

CO1	Explain nature and scope of business, Classification, Commerce and trades, Social responsibility, Forms of Business units, Service sector business, Advantage in economy.
CO2	Describe Organization and its types, Recent trends, E-Commerce, E-Business, E-

banking.

Paper: 1T3
Course: Company Law
Course outcomes:

CO1: Describe Background of New Company Act 2013.

CO2: Describe Memorandum of Association, Articles of Association.

CO3: Understand Share and share capital, Debt Capital (Borrowing and Debenture).

CO4: Describe Membership in a company.

Paper: 1T4
Course: Business Economics – I
Course outcomes:

CO1	Understand the concept of Business Economics, Decisions, Social Responsibilities Micro and Macro Economics, Law of Demand, Demand, Demand, Forecasting, Production
CO2	Identify the Economies and Diseconomies of Scale. Internal Economies & Diseconomies, External Economies & Diseconomies
CO3	Understand the Concept of Law of Supply and factors influencing Supply. Costing Concepts in Short- Run & Long-Run, Concept of Revenue.

Paper: 1T5
Course : Compulsory English
Course outcomes:

CO1	According to authors what is the concept of "Short Stories" ?
CO2	Describe the theme of the poems prescribed in this unit?
CO3	Describe the different aspects of HUMAN NATURE
CO4	Explain the following: a) BUSINESS CORRESSPONDENCE b) Précis writing c) Comprehension of an Unseen Passage

Paper: 1T6
Course: Second Language – Marathi
Course Outcomes :

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Paper: 1T6
Course: Second Language – Hindi

Course outcomes:

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Program: B. Com. Part I (Semester II)

Paper: 2T1

Course: Statistic & Business Mathematics

Course outcomes:

CO1	Describe the Importance, Function of Statistics and measures of Central Tendency (Mean, Median, Mode Geometric Mean and Harmonic Mean.)
CO2	Explain the significance of dispersion and methods of measuring dispersion, Mean Deviation, Standard Deviation, Co- efficient of Variation.
CO3	Describe Absolute Measures of Skewness , Relative Measures of Skewness. Karl Pearson's Coefficient of Skewness Bowley's Coefficient of Skewness.
CO4	To prepare students to use basic *mathematics* in solving monetary problems in *business* and personal.

Paper: 2T2

Course: Business Management

Course outcomes:

CO1: What is Management, Principal, Scope and Significance, Process.

CO2 : Planning, Decision Making, Traditional and modern decision making.

CO3 : Delegation of Authority, Co-ordination and controlling.

CO4 : Recent trends in Management.

Paper: 2T3

Course: Secretarial Practice

Course outcomes:

CO1	Explain the Procedure for Incorporation of Companies & Conversion of Companies, Alteration of Memorandum of Association and Article of Association, concept of Company Secretary.
CO2	Understand Procedure for Appointment of Directors and Director's Identification Number (DIN) - allotment and surrender, company meetings, concept of Voting and resolution, concept of Report Writing, secretarial audit.
CO3	Explain the concept of E-Governance and E-Filling, Key managerial personnel, Procedure for appointment Directors, Managerial Remuneration.

Paper: 2T4

Course: Business Economics - II

Course outcomes:

CO1: Identify market structures and pricing strategies.

CO2: Distinguish between Firm and Industry.

CO3: Explain Perfect and Imperfect competition market and price determination.

CO4: Identify, Rents and its applicability, Wages and its usage, Interest, Profits and its importance.

CO5: Explain Business Cycle, National Income and methods of calculations.

Paper: 2T5

Course: Compulsory English

Course outcomes:

CO1: According to authors what is the concept of "Short Stories"?

CO2: Describe the theme of the poems prescribed in this unit?

CO3: Describe the different aspects of knowledge.

CO4: Explain the following:

    a) Degrees of Comparison

    b) Words often confused

    c) Comprehension of an Unseen Passage

Paper: 2T6

Course: Second Language – Marathi

Course outcomes :

CO1	□□□□□□□□□□,□□□□□□□□ □□□□□□□□ □□□□□□ □□□□□ □□□□□□□□□□ □□□□□□□□□ □□□□□□□□ □□□□.
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Paper: 2T6

Course: Second Language – Hindi

Course outcomes:

CO1: □□□□□, □□□□□□□□□ □□□ □□□□□□□ □□□□□□ □□ □□□□□□ □□□□□ □□□□□□□□ □□□□□ I

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Program: B. Com. Part II (Semester III)

Paper : 3 T1

Course : Financial Accounting – I

Course Outcomes :

CO1	Student will be able to gain knowledge about consignment, will be able to differentiate between consignment and sale and will be able to calculate Del-credit commission, Account sales and valuation of closing stock.
CO2	Student will be able be aware of Hire Purchase system and instalment system and Hire Purchase system
CO3	Student will be able prepare identify different types of shares, will be familiarize with the procedure of issue of shares .
CO4	Student will be familiarize with Statutory provisions regarding preparation of companies final accounts
CO5	Student will be to prepare final accounts as per The Companies Act, 2013

Paper   : 3T2
Course   : Monetary Economics - I
Course outcomes :

CO1	The students will be able to demonstrate nature and functions of money and will get familiarise with the methods of note issue.
CO2	The students will get familiarise with the concept of Inflation and deflation and will able to identify their role.
CO3	The students will be able to identify role of monetary policy and Fiscal policy.
CO4	The students will get knowledge about public finance, and will also identify the types of taxation
CO5	The students will gain knowledge about recent trends money market and public financé

Paper   : 3T3
Course   : Company Law
Course outcomes   :

CO1	The students will be able to get familiarise with the types and characteristics of company
CO2	The student will be able to demonstrate the procedure of formation of company and will be able to distinguish between Article of Association and Memorandum of Association
CO3	The students will be able to frame the prospectus of the company.
CO4	The students will be able to identify different types of shares and debentures
CO5	The students will be able to gain knowledge of management and administration of the company.

Paper   : 3T4
Course   : Income Tax
Course outcomes   :

CO1	The students will be able to get familiarise with basic concepts of income tax
CO2	The student will be able to compute the income under salary and will be calculate the tax on it.
CO3	The students will be able to gain knowledge about calculation of superannuation fund.
CO4	The student will be able to compute the income under house property and will be calculate the tax on it.

CO5	The student will be able to compute the income under other sources and will be calculate the tax on it.

Paper : 3T5
Course : Holistic Development
Course outcomes:

CO1	The students will be able to get familiarise with concept of holistic development
CO2	The student will be able to manage their time effectively.
CO3	The students will be able to identify causes of stress and will be helped in managing them.
CO4	The student will be able to demonstrate the concept of spirituality and will be able analyses the relations between spirituality and health.
CO5	The student will be able to improve their academic and overall performance in a holistic way

Paper : 3T6
Course : Computerized Accounting (Tally)
Course outcomes :

CO1	Discuss advantages of Computerised accounting over Traditional accounting, Accounts organisation, Financial statements, Inventory management system
CO2	Discus customisation of Accounting Software.
CO3	Discuss Numeric Symbols, procedure to create single group and multiple groups, advance and normal information, Ledgers, Cost Centres, Budget in Tally.
CO4	Explain types of Vouchers, cheque printing, interest calculations, Multi currencies, creation of Stock group, Stock categories and stock items, creation of measuring units and Godown .
CO5	Discuss Accounting and Inventory Reports. Income and expenditure statements, Purchase order and sales order, MIS Report, Reconciliation, security controls, security levels, Tally Auditing.

Course: Second Language – Hindi
Course outcomes :

CO1	□□□□□□□□ □□□□□□□□□□□□□ □□ □□□□□□□□□□□□ □□ □□□□□□, □□□□ □□□□□□ □□ □□□□□ □□□ □□□□□□□□ □□□ □□□□□□□□ □□□□□□ □□ □□□□□□ □□□□□ □□□□□□□ □□ □□□□□ I
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Paper : 4T1
Course : Financial Accounting - III
Course Outcomes :

CO1	To deal with the financial statements of Banking Companies as per the Banking Regulation Act, 1949, preparation of Form 'A' Balance Sheet and Form 'B' Profit & Loss A/c including various schedules.
CO2	To understand the preparation of final accounts of Insurance Companies according to Insurance Companies Regulation Act, 1938.
CO3	To determine value of goodwill by applying various methods of goodwill.
CO4	To discuss the liquidator's final statement of accounts containing various modes of collections and payments of money

Course Type   : Core Course
 Course Name   : Monetary Economics - II
Course Code   : 4T2
Course   Outcomes :

CO1	The students will be able to get knowledge of commercial banks and identify causes of Non-performing Assets
CO2	The students will be able to demonstrate Core banking and will be able to differentiate between different types of Cards.
CO3	The students will be able to identify role of monetary policy and Fiscal policy.
CO4	The students will get knowledge about bank and customer relationship and will be able to open any type of account in banks.
CO5	The students will get familiarise with work of central bank and will able to calculate different ratios of credit control.

Course Type   : Ability Enhancement Course
 Course Name   : Organizational Behaviour
 Course Code   : 4T5-A
Course   Outcomes :

CO1	The students will be able to get familiarise with concept of Organisational Behaviour
CO2	The student will be able to distinguish different types of organisational culture
CO3	The students will be able to evaluate organisational culture on its performance
CO4	The student will be able to demonstrate the significance of motivation as well as morale
CO5	The student will be able to identify the factors responsible to organisational change

 Course Type   : Ability Enhancement Course
 Course Name   : Banking Procedures and Practices
Course Code   :   4T5-B
Course   Outcomes :

CO1	The students will be able to get familiarise with types of banks and will get knowledge about its influence on economic development
CO2	The students will be able to demonstrate with types of account and will get knowledge about opening of these account
CO3	The students will be able to understand types of cheques and cards and will able to use them.

CO4	The student will relate with the concept of mobile banking
CO5	The student will be able to identify and avoid frauds in using mobile banking

Course Type   : Skill Enhancement Course
Course Name : Secretarial Practice
Course Code   : 4T6-A
Course   Outcomes :

CO1	The students will be able to demonstrate the rights and duties of company secretary
CO2	The student will be able to gain knowledge about The companies Act.
CO3	The students will be able to state powers of SEBI
CO4	The student will be able to develop the knowledge about the appointment and removal of company auditor.
CO5	The student will be aware about the procedure of winding up of the companies.

Course Type   : Skill Enhancement Course
Course Name   : Insurance Procedures and Practices
 Course Code   :   4T6-B

CO1	The students will be able to gain knowledge about Insurance sector and will be familiar with the latest scenario of the insurance sector
CO2	The student will be able to gain knowledge about life insurance and will be able aware of documentation of Life insurance policy
CO3	The students will be able to different types of insurance Policies
CO4	The student will be aware about the procedure of becoming Life insurance Agent
CO5	The student will be aware about the code of conduct and will be able to calculate the remuneration of insurance agent

Course: Compulsory English

Course outcomes:

CO1: Explain the struggle of life which inspires us in prose.

CO2: Describe the theme of the poems prescribed in this unit?

CO3: Understand the "Transformation of Sentences" and "Change the Voice".

CO4: Explain the term "Business Correspondence"

Paper: 4T6

Course: Second Language – Marathi

Course outcomes:

CO1	विद्यार्थ्यांना, मराठीतील कादंबरीकारांची तसेच कादंबरीविषयक एक व्यापक दृष्टीकोन निर्माण करण्यासाठी केले.
CO2	मराठी साहित्यातील विविध प्रवाह, संकल्पना यांचे आकलन होईल.
CO3	:साहित्यप्रकारातील गद्य, पद्यप्रकार यातील आशय सौंदर्याचे आकलन, मूल्यमापन करण्याबरोबरच रसग्रहण होईल.
CO4	विद्यार्थ्यांना साहित्याचा अभ्यासक्रमातून विद्यार्थ्यांना उपयोजित लेखन करता येईल

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Paper: 4T6

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Course: Second Language – Hindi

Course outcomes:

CO1	☐☐☐☐☐☐☐☐☐ ☐☐☐☐☐☐ , ☐☐☐☐☐☐ ☐☐☐☐☐☐☐☐☐ ☐☐☐ ☐☐☐☐☐☐☐☐ ☐☐☐☐☐☐☐ ☐☐☐☐☐☐ ☐☐☐☐☐ ☐☐☐☐☐☐☐ ☐☐ ☐☐☐☐☐☐ I
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CO3	☐☐☐☐☐☐☐☐☐ ☐☐ ☐☐☐☐☐☐ ☐☐☐ ☐☐☐☐☐☐☐ ☐☐ ☐☐☐☐☐☐ ☐☐☐☐☐ ☐☐☐ ☐☐☐ ☐☐☐☐☐ ☐☐☐☐ I
CO4	☐☐☐☐☐☐☐☐☐ ☐☐ ☐☐☐☐☐ ,☐☐☐☐☐☐☐ ☐☐☐ ☐☐☐☐☐☐☐☐ ☐☐☐☐☐☐ ☐☐☐ ☐☐☐☐☐☐☐ ☐☐☐☐ ☐☐ ☐☐☐☐☐☐☐☐☐ ☐☐ ☐☐☐☐☐☐☐ ☐☐☐☐ ☐☐☐ ☐☐ ☐☐☐☐ ☐☐☐☐☐☐☐☐☐ ☐☐ ☐☐☐☐☐☐☐ ☐☐☐☐☐ I

Program: B. Com. Part III (Semester V)

Paper: 5T1

Course: Financial Accounting - IV

Course outcomes:

CO1: Explain the concept of amalgamation and absorption of companies and it's accounting procedure.

CO2: Understand accounting procedure of internal and external reconstruction of company.

CO3: Prepare the financial statements with respect to electricity, gas and water supply company including Revenue A/c, Capital A/c and General Balance Sheet.

CO4: Determine the value of shares by adopting net assets method, yield value method and fair value method.

Paper: 5T2

Course: Management Accounting

Course outcomes:

CO1: Explain Cost Accounting and Financial Accounting, Simple Problems.

CO2: Explain Need for reconciliation of profit, cost accounts and financial accounts.

CO3: Describe Methods of Process Costing and job costing.

CO4: Explain contract costing.

Paper: 5T3

Course: Management Process

Course outcomes:

CO1: Understand Management and Administration.

CO2: Describe Managerial Development and Group Dynamics.

CO3: Understand Managerial Style.

CO4: Understand Motivation.

Paper: 5T4

Course: Indian Economics - I

Course outcomes:

CO1: Describe Indian Economy & Planning.

CO2: Describe Indian Economy & Policy.

CO3: Describe Population & Unemployment.

CO4: Describe India's Public Finance.

Paper: 5T5

Course: Computerized Accounting

Course outcomes:

CO1	Discuss advantages of Computerised accounting over Traditional accounting, Accounts organisation, Financial statements, Inventory management system
CO2	Discus customisation of Accounting Software.
CO3	Discuss Numeric Symbols, procedure to create single group and multiple groups, advance and normal information, Ledgers, Cost Centres, Budget in Tally.
CO4	Explain types of Vouchers, cheque printing, interest calculations, Multi currencies, creation of Stock group, Stock categories and stock items, creation of measuring units and Godown.
CO5	Discuss Accounting and Inventory Reports. Income and expenditure statements, Purchase order and sales order, MIS Report, Reconciliation, security controls, security levels, Tally Auditing.

Paper: 5T6

Course: Business Finance - I

Course outcomes:

CO1: Describe Objects and Scope of Business Finance.

CO2: Explain Steps involved in Project Financing.

CO3: Understand Working Capital.

CO4: Explain Debtors and Creditors Management, Venture Capital Industry.

Program: B. Com. Part III (Semester VI)

Paper: 5T1

Course: Financial Accounting - V

Course outcomes:

CO1: Understand the consolidation of accounts between holding and subsidiary company.

CO2: Calculate amount of claim to be lodged with Insurance Companies for the loss of stock.

CO3: Calculate profit or loss related to investments in securities, amount of cum and ex Interest.

CO4: Understand the concept of profit for prior incorporation period and after incorporation period.

Paper: 6T2

Course: Cost Accounting

Course outcomes:

CO1: Understand Cost Accounting and Management Accounting.

CO2: Describe Objectives, Advantages of Business Budget & Budgetory Control.

CO3: Explain Importance, Classification and Computation of Ratio Analysis.

CO4: Describe Source, Uses of fund, fund flow statement & Balance Sheet

Paper: 6T3

Course: Advanced Statistics

Course outcomes:

CO1: Described correlation.

CO2: Explain Regressions.

CO3: Explain Index Number.

CO4: Describe Measurement of Trend Line.

Paper: 6T4

Course: Indian Economics - II

Course outcomes:

CO1: Describe Indian Agriculture.

CO2: Describe Indian Industry.

CO3: Understand Indian Service Sector and International Trade.

CO4: Describe Contribution of Indian Economic Thinkers.

Paper: 6T5

Course: Human Resources Management

Course outcomes:

CO1: Describe Human Resource Management Objectives, Functions, Scope, Importance.

CO2: Describe Recruitment selection and training.

CO3: Describe Labour welfare and Collective bargaining.

CO4: Describe Human resource planning and accounting.

Paper: 6T6

Course: Business Finance – II

Course outcomes:

CO1	Understand the concept of financial market, money market, capital market, SEBI, their objectives, functions and reforms
CO2	Understand the applicability of capital budgeting in order to determine net present value, pay back period, accounting rate of return, discounted pay back period.
CO3	Explain of dividend policies by adopting Walter's Approach, Gordon's Model and MM Approach .
CO4	Prepare cash flow statements as per AS – 3 by applying direct and indirect method

1. (D) Course Outcomes of B. Sc. (IT)

Program: B. Sc. (IT) Part I (Semester I)

Course : English

Course Outcomes :

CO1	According to authors what is the concept of "Short Stories" ?
CO2	Describe the theme of the poems prescribed in this unit?
CO3	Describe the different aspects of HUMAN NATURE.
CO4	Explain the following: a) Business correspondence b) Precise writing c) Comprehension of an Unseen Passage

Course: Marathi

Course outcomes:

CO1: □□□□□□□□ □□□□□ □□□□□□□, □□□□□□□□□□□□ □□□□□□ □□□□□ □□□□□□□ □□□ □□□□□□.

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Course: Hindi

Course outcomes:

CO1: □□□□□□□□ ,□□□□□□□□□ □□□ □□□□□□□□□ □□□□□□ □□ □□□□□□ □□□□□ □□□□□□ □□ □□□□□□

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Paper: I

Course: Fundamentals of Information Technology

Course outcomes:

CO1: Describe basic components of digital computers, CPU, number systems, language evolution, Translators.

CO2: Explain memory, storage devices.

CO3: Understand input and output Devices.

CO4: Can elaborate network.

Paper: II

Course: Programming Methodology in C

Course outcomes:

CO1: Understand programming structure, problem solving techniques and developing Algorithms and flowcharts.

CO2: Work with data types, operators, library functions and control structure.

CO3: Write programs using arrays, string and functions.

CO4: Differentiate structure and union, work with pointers and file handling.

Course: Practical

Course outcomes:

CO1: Write algorithms, draw flowchart and execute C programs on data types, conditional statements, control statements, operators, string functions, arrays, structure, union, pointers, file handling and command line program.

Paper: III

Course: System analysis and design

Course outcomes:

CO1: Understand concepts of system development life cycle.

CO2: Work with different types of design use to make software.

CO3: Understand testing and conversion of system.

CO4: Understand the concept of project planning, risk management, maintenance process.

Paper: IV

Course: Web Technology

Course outcomes:

CO1: Describe Internet, Internet Security, Security Issues and Procedure.

CO2: Describe how to create web pages with HTML tags.

CO3: Describe how to create Images, Tables and Form Design in HTML.

CO4: Describe Cascading Style Sheet and Java Script.

Course: Practical

Course outcomes:

CO1: HTML practical based on basic html tags, table, form designing, linking, cascading style sheet and Java Script Programming.

Paper: V

Course: Multimedia Application Development

Course outcomes:

CO1: Understand the basic concepts used in Multimedia and hypermedia.

CO2: Understand the fundamental concepts in video and digital audio.

CO3: Work confidently with object-oriented Action Script- I and II.

CO4: Understand with different Multimedia data compression algorithms.

Course: Practical

Course outcomes:

CO1: Executed simple Action Script programs on windows media Flash Player software.

Paper: VI

Course: Applied Mathematics – I

Course outcomes:

CO1: Perceive Propositional Calculus.

CO2: Learn disjunctive and conjunctive normal forms.

CO3: Understand predicate Calculus.

CO4: Solve problems based on predicate calculus.

Program: B. Sc. (IT) Part I (Semester II)

Course: English

Course outcomes:

CO1: Describe how the lessons in this prose inspire you?

CO2: Describe the theme of the poems prescribed in this unit?

CO3: Explain the following in detail:

a) Subject-Verb Agreement

b) Transformation of Sentences

c) Exercises on Common Errors

CO4: Explain the term "CURRICULUM VITAE"

Course: Marathi

Course outcomes:

CO1: [Marathi text — illegible in source]

CO2: [Marathi text — illegible in source]

CO3: [Marathi text — illegible in source]

CO4: [Marathi text — illegible in source]

Course: Hindi

Course outcomes:

CO1: □□□□□□□□, □□□□□□□□□, □□□□□□□ □□□ □□□ □□ □□□□□□□□ □□□□ □□ □□□□□□□ □□□□□□ □□□□□□□
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Paper: I

Course: Fundamentals of Digital Electronics

Course outcomes:

CO1: Explain features of Digital Systems, Number Systems, Representation of Data, Codes.

CO2: Understand Boolean algebra, Boolean identities, Karnaugh maps.

CO3: Understand Combinational Circuits, Sequential Circuit Design, Shift registers and their types, Counters: Synchronous and Asynchronous counters.

CO4: Understand Basic Organization, Secondary Memory.

Paper: II

Course: Object Oriented Programming Using C++

Course outcomes:

CO1: Understand object oriented methodology, conceptualize classes and objects.

CO2: Interpretation of constructors, destructors and operator overloading.

CO3: Gain knowledge on dynamic objects and inheritance.

CO4: Perceive virtual functions, exception handling and write programs in C++.

Course: Practical

Course outcomes:

CO1: Write algorithms, draw flowchart and execute C++ programs on classes, objects, outside and inside function, static data member, access specifier, constructor, destructor, overloading, operator overloading, virtual function, virtual class, inheritance, pointer to a class.

Paper: III

Course: Operating System

Course outcomes:

CO1: Understand concepts of process management and different type of CPU scheduling.

CO2: Work with deadlocks and different conditions of deadlock.

CO3: Understand swapping, paging, segmentation.

CO4: Understand I/O management, file management

Paper: IV

Course: Web Programming

Course outcomes:

CO1: Describe the fundamental concepts of Internet, WWW and browsers.

CO2: Work confidently with JavaScript and solve problems by using JavaScript.

CO3: Work confidently with ASP and solve problems by using ASP.

CO4: Understand XML documents and Java Server Pages and solve problems.

Course: Practical

Course outcomes:

CO1: Executed simple HTML programs. Program wrote on notepad and ran through Mozilla browser.

Paper: V

Course : Database Management System

Course outcomes:

CO1: Describe DBMS and architecture of DBMS.

CO2: Describe Entity Relationship Model, Specialization and aggregation.

CO3: Describe various relational algebra operations.

CO4: Describe Normalization. Explain different types of Normal Form.

Course: Practical

Course outcomes:

CO1: Write a Query to Create Table, Insert Table, Update Table, Delete Table and also access the value from the Table. To perform query apply Data Definition Language (DDL) and Data Manipulation Language (DML).

Paper: VI

Course: Applied Mathematics – II

Course outcomes:

CO1: Solve problems based on set theory.

CO2: Understand functions.

CO3: Can answer algebraic structures semi groups and lattices.

CO4: Graph theory and trees concept understand.

Program: B. Sc. (IT) Part II (Semester III)

Paper: I

Course: Microprocessor & ALP

Course outcomes:

CO1: Understand an over view of 8085, architecture of 8086 microprocessor, assembly language programs.

CO2: Understand pin diagram of 8086, need for DMA, 8255 PPI, D/A and A/D converter interfacing.

CO3: Describe interrupt structure of 8086, serial data transfer schemes.

CO4: Understand advanced micro processors.

Paper: II

Course: Data Structure

Course outcomes:

CO1: Describe linked list - single and double.

CO2: Work with stacks and its operations.

CO3: Understand Queue, sorting and searching methods.

CO4: Elaborate trees and graphs.

Course: Practical

Course outcomes:

CO1: Can write programs based on linked list, stack, queue, sorting, searching.

Paper: III

Course: Data Communication & Network – I

Course outcomes:

CO1: Understand the fundamental concepts of data communications and Network   Architecture.

CO2: Perceive the used of different Transmission Media.

CO3: Differentiate wireless communication systems and their data format.

CO4: Understand with different types of Network Topologies & Connectivity Devices.

Paper: IV

Course: Linux Operating System

Course outcomes:

CO1: Work on Linux environment and master the basics of Linux commands.

CO2: Work efficiently on vi editor, manage and print Linux files.

CO3: Administrate users, groups and manage accounts.

CO4: Work with X windows, KDE and GNOME environment.

Course: Practical

Course outcomes:

CO1: Can work with basic Linux commands, filters, creating and managing users and groups, taking backup and restore, communication utilities, shell scripts, GNOME and KDE.

Paper: V

Course: E-Commerce

Course outcomes:

CO1: Understand scope of e-Commerce, e-Market, value and supply chain.

CO2: Explain various Business Strategies in electronics age.

CO3: Understand Business to Business e-Commerce and E-Market.

CO4: Understand Business to Consumer Electronics Commerce & elements of e-Commerce.

Paper: VI

Course: Statistical Methods

Course outcomes:

CO1: Explain definition of statistics, importance and scope of statistics, limitations of statistics, presentation of statistical data.

CO2: Understand measures of central tendency, relationship amongst different averages.

CO3: Measures of dispersion, meaning and significance of dispersion, methods of measuring dispersion.

CO4: Understand correlation and regression.

Course: Practical

Course outcomes:

CO1: Statistical methods program based on requisites for an ideal measure of central tendency arithmetic, methods of measuring dispersion.

Program: B. Sc. (IT) Part II (Semester IV)

Paper: I

Course: Software Engineering – I

Course outcomes:

CO1: Understand concepts of software engineering and generic view of process.

CO2: Work with different process models and understand software requirements.

CO3: Understand requirements engineering process and system model.

CO4: Can design engineering.

Paper: II

Course: Java Programming

Course outcomes:

CO1: Describe Variables, Data types and Operators in Java.

CO2: Describe how to create object, array, inheritance and interface in Java.

CO3: Describe how to create Packages, Applet, Threads in Java.

CO4: Describe various components, Graphics control, Layout and Container using awt in Java.

Course: Practical

Course outcomes:

CO1: Java Program based on application, Applets , Objects , Methods, Inheritance, Loops, Conditions, Threads and various abstract window toolkit at controls

Paper: III

Course: Data Communication and Network – II

Course outcomes:

CO1: Understand Communication Architecture and Internetworking.

CO2: Understand Transport Protocols.

CO3: Explain Session Services & Protocols.

CO4: Understand Digital Network, ISDN.

Paper: IV

Course: Oracle

Course outcomes:

CO1: Understand Oracle, Introduction to (SQL), Data types.

CO2: Execute SQL Command, Aggregate function, PL/SQL, Join, Sub queries, Views.

CO3: Perform Cursor, Exception Management.

CO4: Describe Database Triggers & Built in Packages, Nested tables, Varrays.

Course: Practical

Course outcomes:

CO1: Executing SQL query based on select and creates Queries based on join, view, cursor and trigger.

Paper: V

Course: Compiler Construction

Course outcomes:

CO1: Understand the compiler and translator and describe the structure of compiler.

CO2: Perceive the structure of high level programming language.

CO3: Know the role of the lexical analyzer and their implementation.

CO4: Understand parsers, code optimization and Code generation in details.

Paper: VI

Course: Numerical Methods

Course outcomes:

CO1: Understand Roots of Non-Linear Equations, Starting & Stopping Iterative method, determining all possible roots.

CO2: Understand Solution to Linear Equations, Round off errors and refinement, m Conditioned system, Matrix inversion method.

CO3: Understand Linear interpolation, Least Square regression Fitting, m conditioning in Least square, Transcendental equations.

CO4: Describe Integration & Differentiation, Multistep method for differential equations.

Course: Practical

Course outcomes:CO1: Numerical Methods programs based on Roots of Non-Linear Equations, Solution to Linear Equations, Linear interpolation and Integration.

Program: B. Sc. (IT) Part III (Semester V)

Paper: I

Course: Software Project Management

Course outcomes:

CO1: Elaborate process and project management, models, project planning infrastructure.

CO2: Explain Process planning, effort estimation & scheduling, effort.

CO3: Know quality planning, risk management.

CO4: Describe measurement and planning, project management plan.

Paper: II

Course: Dot Net Framework and C#

Course outcomes:

CO1: .Net framework, Common Language Runtime, Common Type System, Common Language Specification, Microsoft Intermediate Language (MSIL).

CO2: C-Sharp Language, Data Types, Variables, Array and Strings, Object and Classes, Inheritance, Operator Overloading, Delegates and Events, Interfaces.

CO3: C# Using Libraries, Multi-Threading, Windows Forms, Error Handling.

CO4: Advanced Features Using C#, Web Form Controls, ADO.Net, .Net Assemblies and Attribute.

Course: Practical

Course outcomes:

CO1: Execute programs based on variables, array and string, object and classes, inheritance, operator overloading, delegates and events, interfaces, multi-threading, windows forms, error handling, web form controls.

Paper: III

Course: Network Security

Course outcomes:

CO1: Explain security, threats, risks, attacks, authentication, model for internetwork security.

CO2: Access control model, cryptography and its methods.

CO3: Elaborate encryption, security protocols, network and transport layer security.

CO4: Network security applications and different firewalls.

Course: Practical

Course outcomes:

CO1: C++ Programs based on cryptography, encryption, implement DES, RSA and EIGamal algorithms.

Paper: IV

Course: Data Warehousing

Course outcomes:

CO1: Understand data warehouse, data mart.

CO2: Understand data and dimensional modelling.

CO3: Work with OLAP in data warehouse.

CO4: Build data warehouse.

Paper: V

Course : VB Programming

Course outcomes:

CO1: Describe working with VB Window components, Forms and basic programming fundamentals.

CO2: Describe Array, Procedure, Function and Module.

CO3: Describe menus and Database handling Concepts using DAO.

CO4: Describe how to use ADO data control and Error handling concepts.

Course : Practical

Course outcomes:

CO1: VB Program based on different VB window components like Textbox, Combobox, Checkbox, List box, Images and different database controls.

Paper: VI

Course : Graph Theory

Course outcomes:

CO1: Work with graphs and its operations.

CO2: Understand connected graph.

CO3: Solve theorems.

CO4: Efficiently manage directed graphs.

Program: B. Sc. (IT) Part III (Semester VI)

Paper: I

Course: Enterprise Resource Planning

Course outcomes:

CO1: Introduction to business needs and ERP, overview of ERP, Data Mining, Data Warehousing.

CO2: ERP Client server architecture and ERP, ERP implementation life cycle.

CO3: The business module business models in an ER.

CO4: Selection of ERP, SWOT analysis of various ER? Electronic Data Interchange (EDI).

Paper: II

Course: Advance Java Programming

Course outcomes:

CO1: Describe different controls in java swing.

CO2: Describe JDBC-ODBC model in detail.

CO3: Describe Java bean, Enterprise java bean (EJB) and RMI (Remote Method Invocation).

CO4: Describe Java Servlet and JSP in detail.

Course: Practical

Course outcomes:

CO1: Advance Java Program based on different controls present in swing such as Text Field, Combo box, Checkbox, Windows, Dialog box, Tabbed pane and jdbc- odbc connectivity with the database.

Paper: III

Course: Cloud Computing

Course outcomes:

CO1: Describe cloud computing, IaaS, MaaS, PaaS, SaaS.

CO2: Explain federation, security, standards in cloud.

CO3: Elaborate utility application architecture, service oriented architecture, data   centre, hyper threading, blade servers, automated provisioning.

CO4: Software utility application architecture, characteristics of SaaS, software utility applications, cost versus value, software application services framework, common enablers, and conceptual view to reality.

Paper: IV

Course: Data Mining

Course outcomes:

CO1: Understand the fundamental concept of data mining and frequent pattern mining.

CO2: Understand the concept of classification and decision tree construction algorithm.

CO3: Understand the different clustering techniques and classification of clustering.

CO4: Understand the different types of partitioned methods using in Data Mining.

Course: Practical

Course outcomes:

CO1: Implemented different types of databases in WEKA software, case study on different databases.

Paper: V

Course: Animation Techniques

Course outcomes:

CO1: Understand techniques and principles of animation techniques.

CO2: Create animation using Flash.

CO3: Explain 3D animation & its concepts.

CO4: Explain motion caption, concept development.

Paper: VI

Course: Operation Research

Course outcomes:

CO1: Understand overview of operations research, linear programming.

CO2: Know dual problems, transportation model.

CO3: Perceive network models, dynamic programming.

CO4: Describe assignment problem.

Course: Practical

Course outcomes:

CO1: Operation research programs based on linear programming, transportation model, network models, assignment problem.

Program: BCA Part I (Semester I)

Course: English

Course outcomes:

CO1: According to authors what is the concept of "Short Stories"?

CO2: Describe the theme of the poems prescribed in this unit?

CO3: Describe the different aspects of HUMAN NATURE.

CO4: Explain the following: a) Business correspondence

b) Precise writing

c) Comprehension of an Unseen Passage

Course: Marathi

Course outcomes:

CO1: □□□□□□□ □□□□□ □□□□□□□, □□□□□□□□□□ □□□□□□ □□□□□ □□□□□□□ □□□ □□□□□.

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Course: Hindi

Course outcomes:

CO1: □□□□□□□□□ ,□□□□□□□□□ □□□ □□□□□□□□□□ □□□□□□□ □□□□□□ □□□□□ □□□□□□ □□ □□□□□□

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Paper: I

Course: Computer Fundamentals

Course outcomes:

CO1: Understand Basic Components of Digital Computers, CPU, Number Systems, Language Evolution, Translators.

CO2: Understand Memory, Storage Devices.

CO3: Understand Input Devices, Output Devices.

CO4: Understand Network.

Paper: II

Course: C Programming

Course outcomes:

CO1: Understand programming structure, problem solving techniques and developing algorithms and flowcharts.

CO2: Work with data types, operators, library functions and control structure.

CO3: Write programs using arrays, string and functions.

CO4: Differentiate structure and union, work with pointers and file handling.

Course: Practical

Course outcomes:

CO1: Conduct Practical's based on C Programming language.

Paper: III

Course: Statistical Methods

Course outcomes:

CO1: Understand about the definition Statistics, Importance and scope of Statistics, Primary and Secondary data collection, study of Classification, Tabulation, Frequency Distribution, Diagrams and Graphs.

CO2: Understand about Measures of Central Tendency, Graphic Representation of a Frequency Distribution, Study of Mean, Medium and Mode.

CO3: Understand about the Standard of Deviation, Kurtosis Deviation.

CO4: Study of Correlation, regression, Scatter Diagram.

Course: Practical

Course outcomes:

CO1: Conduct Practical's based on CPP Programming language.

Paper: IV

Course: Discrete Mathematics - I

Course outcomes:

CO1: Understand and study of connectives, conjunction and disjunction.

CO2: Study of disjunctive normal forms.

CO3: Study of Predicate calculus.

CO4: Understand the Theory of inference for predicate calculus.

Paper: V

Course: Operating System

Course outcomes:

CO1: Explain Structure of Operating System, Operating System functions, Process Management, CPU Scheduling.

CO2: Understand Performance comparison, Deadlock and Starvation.

CO3: Understand Memory Management, Memory Allocation Method.

CO4: Explain I/O Management, File Management, Protection Mechanisms.

Paper: VI

Course: Office Automation

Course outcomes:

CO1: Windows Operating System, operating with windows, windows XP/Vista versions.

CO2: MS- Word.

CO3: MS-Excel.

CO4: MS-PowerPoint.

Course: Practical

Course outcomes:

CO1: Conduct practical's based on MS Word, Excel and Power Point. Based on practical's prepared record book.

Program: BCA Part I (Semester II)

Course: English

Course outcomes:

CO1: Describe how the lessons in this prose inspire you?

CO2: Describe the theme of the poems prescribed in this unit?

CO3: Explain the following in detail:

a) Subject-Verb Agreement

b) Transformation of Sentences

c) Exercises on Common Errors

CO4: Explain the term "CURRICULUM VITAE"

Course: Marathi

Course outcomes:

CO1	□□□□□□□□□□, □□□□□□□□□ □□□□□□ □□□□□ □□□□□□□□□ □□□□□.
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Course: Hindi

Course outcomes:

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Paper: I

Course: Object Oriented Programming Using C++

Course outcomes:

CO1: Understand Object oriented methodology, conceptualize classes and objects.

CO2: Interpretation of constructors, destructors and operator overloading.

CO3: Gain knowledge on dynamic objects and inheritance.

CO4: Perceive virtual functions, exception handling and write programs in C++.

Course: Practical

Course outcomes:

CO1: Conduct practical's based on CPP Programming language.

Paper: II

Course: System Analysis and Design

Course outcomes:

CO1: Understand concepts of system development life cycle.

CO2: Work with different types of design use to make software.

CO3: Understand testing and conversion of system.

CO4: Understand the concept of project planning, risk management, maintenance process.

Paper: III

Course: Numerical Methods

Course outcomes:

CO1 : Understand Roots of Non-Linear Equations, Starting & Stopping Iterative method, determining all possible roots.

CO2 : Understand Solution to Linear Equations, Round off errors and refinement, m Conditioned system, Matrix inversion method.

CO3 : Understand Linear interpolation, Least Square regression Fitting, m conditioning in Least square, Transcendental equations.

CO4 :   Describe Integration & Differentiation, Multistep method for differential equations.

Course: Practical

Course outcomes:

CO1: Conduct practical's based on CPP Programming language.

Paper: IV

Course: Discrete Mathematics - II

Course outcomes:

CO1: Understand and study of set theory.

CO2: Study of different types of functions.

CO3: Understand and study Algebraic structures.

CO4: Understand and study of Graph theory and trees.

Paper: V

Course: Linux Operating System

Course outcomes:

CO1: Work on Linux environment and master the basics of Linux commands.

CO2: Work efficiently on vi editor, manage and print Linux files.

CO3: Administrate users, groups and manage accounts.

CO4: Work with X windows, KDE and GNOME environment.

Course: Practical

Course outcomes:

CO1: Can work with basic Linux commands, filters, creating and managing users and groups, taking backup and restore, communication utilities, shell scripts, GNOME and KDE.

Paper: VI

Course: E-Commerce

Course outcomes:

CO1: Explain introduction to e-Commerce, Trade Cycle, E-Market.

CO2: Understand business strategy in electronic age.

CO3: Understand Business to Business e-Commerce.

CO4: Explain Business to Consumer Electronic Commerce.

Program: BCA Part II (Semester III)

Paper: I

Course: Visual Basic Programming

Course outcomes:

CO1: Describe working with VB Window components, Forms and basic programming
    fundamentals.

CO2: Describe Array, Procedure, Function and Module.

CO3: Describe menus and Database handling Concepts using DAO.

CO4: Describe how to use ADO data control and Error handling concepts.

Course: Practical

Course outcomes:

CO1: VB Program based on different VB window components like Textbox, Combobox, Checkbox, List box, Images and different database controls.

Paper: II

Course: Database Management System

Course outcomes:

CO1: Understand DBMS Definition, Three level architectures of DBMS, Different types of
    data models.

CO2: Understand E-R Models.

CO3: Explain Relational Model, Aggregate Functions.

CO4: Understand Functional Dependency, Normalization.

Paper: III

Course: Data Structure

Course outcomes:

CO1: Understand and study the concept of linked list.

CO2: Understand and study the concept of stacks.

CO3: Understand and study the concept of queues, sorting and searching.

CO4: Understand and study the concept of trees and graphs.

Course: Practical

Course outcomes:

CO1: Executions of DS practical's in CPP language.

Paper: IV

Course: Operation Research – I

Course outcomes:

CO1: Describe Introduction to Operation Research, Linear Programming, Mathematical Formulation of the Problem.

CO2: Describe Linear Programming Methods, Duality in Linear Programming.

CO3: Describe Transportation Problem.

CO4: Describe Assignment Problem.

Paper: V

Course: Web Technology - I

Course outcomes:

CO1: Understand concept of HTTP, URL, Search Engines, Search Engines categories.

CO2: Work with different HTML Command Tags.

CO3: Understand the concept of DHTML.

CO4: Describe CSS (Cascading style sheets).

Course: Practical

Course outcomes:

CO1: Practical's executed on Notepad.

Paper: VI

Course: Digital Electronics - I

Course outcomes:

CO1: Number System and Data Representation.

CO2: Data Representation, Binary Arithmetic.

CO3: Logic gates, NOR and NAND gates as a universal gates.

CO4: Boolean Algebra, K-Map for 2,3,4 variables, SOP and POS Logic Expression.

Program: BCA Part II (Semester IV)

Paper: I

Course: Software Engineering - I

Course outcomes:

CO1: Understand concepts of software engineering and generic view of process.

CO2: Work with different process models and understand software requirements.

CO3: Understand requirements engineering process and system model.

CO4: Can design engineering.

Paper: II

Course: SQL and PL/SQL

Course outcomes:

CO1: Explain CODD'S Rules, DDL Statement, DCL and TCL Statements, Joins.

CO2: Understand Practical's based on VIEWS, PL/SQL Programming.

CO3: Understand Practical's based on Exception Handling, Cursors and Procedures.

CO4: Understand Practical's based on Function, Triggers.

Course: Practical

Course outcomes:

CO1: All SQL queries are executed on ORACLE 9i software.

Paper: III

Course: Theory of Computation

Course outcomes:

CO1: Describe Finite Automata and Regular Expression.

CO2: Describe Regular Set and Derivation Tree.

CO3: Describe Context Free Grammar and Context Free Languages (CFL's).

CO4: Describe Push Down Automata

Paper: IV

Course: Operation Research - II

Course outcomes:

CO1: Describe Game Theory, Introduction Decision under Certainty, Decision under Risk, Decision under Uncertainty, Decision Tree.

CO2: Understand Network Scheduling by CPM/PERT, Advantage of Network (PERT/CPM).

CO3: Understand Inventory Control, Inventory Control with Price Breaks.

CO4: Describe Queuing Theory Introduction, Terminologies in Queuing System, Queuing Control.

Course: Practical

Course outcomes:

CO1: Practical's executed in CPP language.

Paper: V

Course: Web Technology - II

Course outcomes:

CO1: Understand concept of JSP lifecycles.

CO2: Work with different JSP Exceptions, JSP tags, declaration, object.

CO3: Understand the concept of vb script.

CO4: Describe web services.

Course: Practical

Course outcomes:

CO1: Practical's executed on Notepad

Paper: VI

Course: Digital Electronics - II

Course outcomes:

CO1: Combinational / Sequential Circuits Combinational circuits, Multiplexer, Demultiplexer, Decoder, Encoder, Parity detector.

CO2: Sequential Circuits Counters shift registers and their types.

CO3: Architecture of 8086 and Assembly Language Programming Block diagram of 8086, Pin diagram of 8086, Addressing modes,

CO4: Instruction set: Data transfer, Arithmetic, Logical, String manipulations, Control Transfer, Unconditional branch, Conditional branch, Flag, Processor control. Assembler directives and operators, simple assembly programs.

Program: BCA Part III (Semester V)

Paper: I

Course: Computer Graphics - I

Course outcomes:

CO1: Understand of Introduction and Primitives.

CO2: Study of Output primitives.

CO3: Study of 2D Transformations.

CO4: Study of 2-D viewing.

Course: Practical

Course outcomes:

CO1: Practical's executed in CPP language.

Paper: II

Course: Compiler Construction

Course outcomes:

CO1: Understand the compiler and translator and describe the structure of compiler.

CO2: Understand the structure of high level programming language.

CO3: Understand the role of the lexical analyser and their implementation.

CO4: Understand the Parsers, Code optimization and Code generation in details.

Paper: III

Course: VB.Net

Course outcomes:

CO1: Understand the concept of .NET framework.

CO2: Work with abstraction & interfaces on object oriented software design.

CO3: Understand creating a menu.

CO4: Understand delegates in details.

Course: Practical

Course outcomes:

CO1: Practical's executed on Microsoft Visual Studio 2008.

Paper: IV

Course: Software Engineering - II

Course outcomes:

CO1: Create an architectural design.

CO2: Understand different testing strategies.

CO3: Perceive product metrics and metrics for process and products.

CO4: Manage risk and quality.

Paper: V

Course: PHP - I

Course outcomes:

CO1: Describe Introduction to PHP, Basics.

CO2: Understand Functions.

CO3: Understand Arrays.

CO4: Describe reading data in web pages, Handling Buttons.

Course: Practical

Course outcomes:

CO1: PHP-I program based on String, Functions, Arrays executed on WampServer software.

Paper: VI

Course: Data Communication and Network - I

Course outcomes:

CO1: Understand Data Transmission, Data Encoding.

CO2: Explain Digital Data Communication, Data Link Control, Multiplexing.

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CO3: Understand Circuit Switching, Digital switching concept.

CO4: Understand Packet Switching, Traffic control.

Program: BCA Part III (Semester VI)

Paper: I

Course: Computer Graphics - II

Course outcomes:

CO1: Polygon surfaces, quadric surfaces, spline representation, Curves, surfaces.

CO2: 3-D Geometric transformations. 3-D viewing, Viewing pipeline, projection transforms
and clipping.

CO3: Visible surface detection methods, back-face detection.

CO4: Computer animation, Design of animation sequence.

Paper: II

Course: Programming in JAVA

Course outcomes:

CO1: Describe Variables, Data types and Operators in Java.

CO2: Describe how to create object, array, inheritance and interface in Java.

CO3: Describe how to create Packages, Applet, Threads in Java.

CO4: Describe various components, Graphics control, Layout and Container using awt in
Java.

Course: Practical

Course outcomes:

CO1: Java Program based on application, Applets , Objects , Methods, Inheritance, Loops,
Conditions, Threads and various abstract window toolkit (awt) controls.

Paper: III

Course: ASP.Net

Course outcomes:

CO1: Understand the basic elements used for creating XML file.

CO2: Work on ASP.net environment and to solve application by using ASP controls.

CO3: Understand different validation and rich controls.

CO4: Work confidently with database connectivity by using different database controls.

Course: Practical

Course outcomes:

CO1: Executed simple programs by using ASP.net controls, validation controls etc. in Microsoft
Visual Studio 2008.

Paper: IV

Course : Software Testing

Course outcomes:

CO1: Understand testing as a process and tester's role in a software development
organization.

CO2: Work with different test case design strategies.

CO3: Understand levels of testing.

CO4: Understand test management in detail.

Paper: V

Course: PHP - II

Course outcomes:

CO1: PHP Browser-Handling Power, Using PHP's Server Variables Data Validation.

CO2: Classes and Objects, Accessing Properties and Methods, Declaring a Class, Introspection, Serialization, HTTP Basics.

CO3: Working With Database, Using PHP to Access a Database, Accessing The Database In PHP.

CO4: Setting a Cookie, Working with FTP Shell Commands.

Course: Practical

Course outcomes:

CO1: PHP-II program based on Wamp Server software.

Paper: VI

Course: Data Communication and Network - II

Course outcomes:

CO1: Understand Communication Architecture and Internetworking.

CO2: Understand Transport Protocols.

CO3: Explain Session Services & Protocols.

CO4: Understand Digital Network, ISDN.

2. Course Outcomes : Post Graduate

Program : M. Sc. (CS) NEP Part I (Semester I)

Paper: I

Course : ARTIFICIAL INTELLIGENCE

Course outcomes:

CO1 : Evaluate Artificial Intelligence (Al) methods and describe their foundations.,.

CO2 : Apply basic principles of Al in solutions that require problem solving

CO3 : Demonstrate knowledge of reasoning and knowledge representation for solving real world problems

CO4 : Analyse and illustrate how search algorithms and planning play vita! role in problem solving.

Paper: II

Course : COMPILER CONSTRUCTION

Course outcomes:

CO1: Demonstrate the knowledge of Lexical Analysis.

CO2: Derive an appropriate model of code generation

Course: Practical

Course outcomes:

CO1: Practical's Conducted on Text-pad.

Paper: III

Course : COMPUTER ARCHITECTURE AND ORGANIZATION

Course outcomes:

CO1: To provide knowledge on overview of IAS computer function and addressing modes.,.

CO2: Hardware and software implementation of arithmetic unit to solve addition, subtraction multiplication and division..

CO3: To provide knowledge of memory technologies. Interfacing techniques and sub system devices.

Paper: IV

Course : RESEARCH METHODOLOGY

Course outcomes:

CO1: The basic concept of research and its methodologies. Identify appropriate research topics select and define appropriate research problem and parameters.

CO2: Prepare a project (to undertake a project).

CO3: Organize and conduct research in a more appropriate manner. Writing research report and thesis

Course: Practical
Course outcomes:

CO1: Practical's conducted on T assembler.

Program: M. Sc. (CS) NEP Part I (Semester II)

Paper: I

Course : CLOUD COMPUTING

Course outcomes:

CO1 : Analyse the trade-offs between deploying applications in the cloud and over the local infrastructure.

CO2 : Compare the advantages and disadvantages of various cloud computing platforms.

CO3 : Program data intensive parallel applications in the cloud.

CO4 : Analyse the performance. Scalability and availability of the underlying cloud technologies and software.

Paper: II

Course : MACHINE LEARNING

Course outcomes:

CO1: Understand the concepts of various machine learning strategies.

CO2 : Handle computational data and learn ANN learning models.

CO3 : Solve real world applications by selecting suitable learning model.

CO4 : Boost the performance of the model by combining results from different approaches.

Course: Practical
Course outcomes:

CO1: Practical's conducted on Text Pad.

Paper : III

Course : NEURAL NETWORK

Course outcomes:

CO1 : Ability to understand the concepts of Neural Networks.

CO2 : Ability to select the Learning Networks in modelling real world systems.

Course: Practical
Course outcomes:

CO1: Practical's conducted on Text Pad.

Paper: IV

Course: Apprenticeship

Course outcomes:

CO1 : Students has to complete Apprenticeship

Program: M. Sc. (CS) Part II (Semester III)

Paper: I

Course:Data Communication and Networks

Course outcomes:

CO1 : Describe Network structure, architectures and services OS Ireference model.

CO2 : Explain Different layers.

CO3 : Overview of Network Security Fundamentals.

CO4 : Focus on Message Authentication , Public key Systems.

Course: Practical

Course outcomes:

CO1: Practical based on C++software.

Paper: II

Course:Software Engineering

Course outcomes:

CO1 : Introduction to Software Engineering, A Generic view of process, Models.

CO2 : Explain Requirements engineering process   ,Design Engineering.

CO3 : Overview Object-Oriented Design, Testing Strategies.

CO4 : Focus on Metrics for Process and Products, Quality Management.

Paper:III

Course : ASP. NET

Course outcomes:

CO1 :   Understand the ASP.net programming model and core server controls.

CO2 : Work   with different ASP.net web controls and data controls.

CO3 : Work with different Data Grid, List View etc. controls and Http Application class.

CO4 : Work with State management and security in ASP.net and AJAX Practical based on
      Microsoft   Visual studio 2008.

Paper : IV

Course : Mobile Computing

Course outcomes:

CO1 : Perceive communication with mobile and its security.

CO2 : Understand wireless MAC and CDM Abases communication.

CO3 :   Handle mobile databases.

CO4 : Understand Mobile devices server and management and various mobile OS.

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Program: M. Sc. (CS) Part II (Semester IV)

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Paper:I

Course : Data Mining

Course outcomes:

CO1 : Introduction to Data Mining.

CO2 :   Overview of Exploring Data and OLAP.

CO3 : Describe Data Mining Classification.

CO4 : Explain Data Mining Cluster Analysis.

Paper: II

Course : Artificial Intelligence & Expert System

Course outcomes:

CO1:Introduction to AI problems, AI Techniques.

CO2:Understanding Knowledge Representation, Predicate Logic.

CO3: Games playing, Planning.

CO4:Understanding as Constraint satisfaction, Natural Language Processing

Paper:III

Course : Design and Analysis of Algorithm

Course outcomes:

CO1:Elementary Algorithmics, Analysis of Algorithms.

CO2:Understanding Greedy Algorithms, Divide and Conquer.

CO3: Overview of Dynamic Programming, short estpaths.

CO4:Introduction to Backtracking & Brach Bound, NP Completeness.

Course : Practical

Course outcomes:

CO1: Practical based on C++software.

Paper:IV

Course : Parallel Computing

Course outcomes:

CO1 : Describe parallel computing.

CO2 : Understand principles of parallel algorithms design.

CO3 : Analytical modelling of parallel programs.

CO4 : Work with programming shared address space platforms.

Course outcome of M.com- 1 year Business Studies

Programme : M.com – part 1 (Semester I)

Paper : 1T1

Course : Organisational Behaviour

Course outcomes :

CO 1	To learn and understand Organization Behaviour theories and be able to apply them in business organization
CO 2	Compare and contrast job enlargement with job enrichment
CO 3	Evaluate roles of conflicts, power and politics in determining group behaviour
CO 4	Identify determinants of organization culture

Paper: 1T2

Course: Business Law

Course outcomes**:**

CO 1	To learn and understand Organization Behaviour theories and be able to apply them in business organization
CO 2	Compare and contrast job enlargement with job enrichment
CO 3	Evaluate roles of conflicts, power and politics in determining group behaviour
CO 4	Identify determinants of organization culture

Paper   : 1T3

Course : Managerial Economics

Course outcomes:

CO 1	Distinguish between the domains of micro and macroeconomics and their applications in business world
CO 2	Determine factors affecting demand for a particular commodity and be able to ascertain demand in a given condition
CO 3	Identify various elements of cost and relate the same with output and revenue under a given market condition
CO 4	Determine the factors causing business cycles and be able to identify the business cycle stage with given economic indicators

Paper : 1T4

Course : Fundamental of Financial management

Course outcomes**:**

CO 1	Determine the working capital requirement for an organization in a given situation
CO 2	Calculate Weighted Average Cost of Capital for a given Debt-Equity Mix
CO 3	Analyse the impact of capital structure on profitability of organization
CO 4	Select the appropriate investment option from a given choice to ensure maximum profit

Paper   : 1T5

Course   : International Business

Course outcomes:

CO 1	Determine the working capital requirement for an organization in a given situation
CO 2	Calculate Weighted Average Cost of Capital for a given Debt-Equity Mix
CO 3	Analyse the impact of capital structure on profitability of organization
CO 4	Select the appropriate investment option from a given choice to ensure maximum profit

Program: M.com Semester II (Business Studies)

Paper   : 2T1

Course : Indian Financial System

Course outcomes:

CO 1	Compare and Contrast roles of various components of financial system
CO 2	Analyse the role of banks with respect to credit creation and assess impact on economic development
CO 3	Assess the impact of privatisation of insurance companies on penetration of insurance products
CO 4	Evaluate the role of regulatory bodies in capital market operations

Paper   : 2T2

Course : Company law

Course outcomes

CO 1	Exemplify the procedure for formation of a company
CO 2	Compare and Contrast the provisions regarding issue of equity share capital with preference share capital
CO 3	Draft a notice and agenda for Annual General Meeting
CO 4	Understand provisions related to appointment of directors and auditors

Paper   : 2T3

Course : Project Management

Course outcomes

CO 1	Determine the factors of project environment and list out the essentials of project management
CO 2	Determine the optimum capital structure for a project
CO 3	Evaluate applicability and efficiency various control tools for effective project management
CO 4	Design and demonstrate the project execution plan for a given project

Paper : 2T1

Course : Advance Financial Management

Course outcomes

CO 1	Prepare a Cash Budget and determine optimal cash balance in a given situation
CO 2	Determine various costs of receivables & payables and frame cost-effective Receivables Management Policy
CO 3	Prepare a Cash Flow Statement of an organization for a given situation
CO 4	Analyse the impact of dividend decisions under various dividend payout and retention ratios

Paper   : 2T1

Course : Basic of GST

Course outcomes:

CO 1	To learn and understand GST Law, and its application
CO 2	Determine the value of taxable goods and services and Input Tax Credit
CO 3	Understand provisions related to compliances under GST Act
CO 4	Understand provisions related to demand and appeals

Program: M.com semester III (Business Studies)

Paper   : 3T1

Course : Human Resources Management

Course outcomes:

CO 1	Students will be able to understand the concept of Human resource Management.
CO 2	Studentswillknowtherecruitmentandselectionprocessintheorganization.
CO 3	Students will able to learn about job evaluation and job design.
CO 4	Students will able to understand the wages and remuneration rules for the employee.

Paper   : 3T2

Course : Service Sector Management

Course outcomes:

CO 1	Students will be able to learn about the concept of Service sector management.
CO 2	Students will be able to learn about the various PSU's and Private companies working in India.
CO 3	Students will able to gain knowledge about the market of service Industry.
CO 4	Students will know the recent trends and development in service sector.

Paper   : 3T3

Course : Cooperation And Rural Development

Course outcomes:

CO 1	Students will able to understand the Maharashtra Co-Operative act 1960.
CO 2	Students will be able to evaluate the role of Credit Societies for Nation Development.
CO 3	Students will know the importance of rural economy.
CO 4	Students will able to determine the challenges and problems of cooperative movement.

Paper   : 3T4

Course : Agricultural Economics

Course outcomes:

CO 1	Students will able to understand the role of Indian agricultural system in Indian Economy.
CO 2	Students will know the agricultural infrastructure.

CO 3	Students will able to learn about the agricultural pricing system of India.
CO 4	Students will know the agricultural growth in India since independence

Paper   : 2T1

Course : Indian Banking System

Course outcomes:

CO 1	Students will be able to understand the structure of Indian Banking System
CO 2	Students will be able to learn about various loans and advances facility provided by banks
CO 3	Students will able to evaluate the role of NBFCs in Indian Economy.
CO 4	Students will know the role of technology in banking system.

Program: M.com semester IV (Business Studies)

Paper   : 4T1

Course : Entrepreneurship Development

Course outcomes:

CO 1	Students will be able to determine the factors influencing entrepreneurship development.
CO 2	Students will be able to learn about trends in entrepreneurship.
CO 3	Students will able to understand the concept and issues in small business marketing
CO 4	Students will able to identify various financial incentives for the business.

Paper   : 4T2

Course :   Corporate Social responsibility

Course outcomes

CO 1	Students will be able to evaluate the factors affecting the growth of CSR.
CO 2	Students will be able to understand various rules and legislation for CSR.
CO 3	Students will able to understand the concept of corporate governance.
CO 4	Students will know the recent trends and opportunities in CSR.

Paper   : 4T3

Course : Marketing Management

Course outcomes

CO 1	Students will be able to understand the concept of marketing management.
CO 2	Students will be able to learn about research in marketing.
CO 3	Students will able to understand product decisions and promotion decision.
CO 4	Students will know the various issues in marketing.

Paper   : 4T4

Course : International Market

Course outcomes

CO 1	Students will be able to understand the concept of International Marketing.
CO 2	Students will be able to learn about strategies for international market entry.
CO 3	Students will know the product. Price and promotion strategies used in international marketing.
CO 4	Students will know there cent development in International market.

Paper : 4T5

Course outcomes

CO 1	Students will be able to understand the concept of Insurance.
CO 2	Students will learn about rules and regulations of Insurance industry in India.
CO 3	Students will know the various insurance product available in the market.
CO 4	Students will able to understand the insurance claim settlement process.

Course outcome of   M.com - 1 year Accounting & Taxation

Programme: M.com – part 1 (semester I)

Paper : 1T1

Course : Advance Financial Accounting

Course Outcomes :

CO 1	Student will be able to gain knowledge about Computer Software Accounting, and will be able to amount of Insurance claim.
CO 2	Student will be able be aware of Hire Purchase system and instalment system
CO 3	To develop competency of students to solve problem in accounting for Service Sector.
CO 4	To develop competency of students to solve problem in accounting for non-profit organization

Paper : 1T2

Course :Advance Cost Accounting

Course Outcomes

CO 1	Student will be able the gain knowledge about classification of cost, methods and techniques, and student will be able to calculate the cost of goods.
CO 2	To familiarizes the student for process account.
CO 3	Student will be able to calculate the profit on contract.
CO 4	Student will be able to evaluate the reconciliation of cost and Financial Accounting

Paper : 1T3

Course : Indian Financial System

Course outcomes

CO 1	Students will be able to understand various components of Formal Financial System
CO 2	Students will be able to acknowledge the definition of Banking and creation of money banking System.
CO 3	Students will be able to understand the basics of Insurance and components related to it.
CO 4	Students will have the knowledge of process of creating funds in Capital Market.

Paper : 1T4

Course : Advance statistical Techniques

Course Outcomes

| CO 1 | Students will develop an understanding of basic Statistical decision making and analyze the significance. |
| CO 2 | Students will be able to understand Statistical quality control and will also be able to draw association of attributes and F test. |

CO 3	Students will be able to understand Analysis of time series and will also be able to calculate probability.
CO 4	Student will be able to perform regression analysis, interpolation and also know their usages.

Paper : 1T5
Course : Advance Auditing
Course Outcomes

CO 1	To impart knowledge of Auditing such as Audit programs, Vouching, Verification, an Valuation.
CO 2	To understand the significance of using computers in the Audit program
CO 3	To provide hands-on training in Auditing of a Limited Company.
CO 4	To understand the Management Audit and different firms Audit

Paper : 1T5
Course : Research Methodology
Course outcomes

CO 1	Formulate a research problem and identify appropriate research design for a specific research problem
CO 2	Construct a data collection tool and identify appropriate processing tools for verification of hypothesis
CO 3	Articulate research findings and be able to present the findings in research report
CO 4	Understand various dimensions related to Intellectual Property Rights

Program: M.com semester II (Accounting & Taxation)

Paper : 2T1
Course : Advance financial Accounting
Course outcomes

CO 1	To understand the concept of corporate Reconstruction, its accounting methods.
CO 2	To understanding the Consolidation of Financial Statements of Holding Companies & two Subsidiary Companies.
CO 3	To understand the concept of corporate restructuring, its accounting methods.
CO 4	o Prepare Statement of Affairs of the Companies in Liquidation

Paper : 2T2
Course : Control cost and analysis
Course outcomes

CO 1	Familiarize the students with the basic cost allocation and control of various cost and method of costing.
CO 2	Explain the classification of cost, methods and techniques, and student will be able to calculate the cost of goods.
CO 3	Student will be able to allocate overheads on the basis of Activity Based Costing.
CO 4	Student will be able to skills in computation and analysis of various variances

Paper : 2T3
Course : Financial Analysis And Control
Course outcomes

CO 1	Students will develop an understanding of basic financial analysis.
CO 2	Students will be able to analyse the Balance Sheets to interpret the business's financial situation.
CO 3	Students will be able to use financial analysis and control tools in the future.

CO 4	By providing knowledge of various capital budgeting techniques, students will be able to understand the tools required to manage risks, make wise investment decisions, and achieve financial goals

Paper : 2T4
Course : Advance financial Management
Course outcomes

CO 1	Student will understand the use of various tools, techniques and methods of Financial Management.
CO 2	Student will be able to sharpen their critical thinking about working capital management.
CO 3	Student will understand the methods & computation of cash Management.
CO 4	Student will be able to sharpen their decision making about Debtors, Creditors and Inventory Management.

Paper : 2T5
Course : Business Ethics And corporate Social Responsibility
Course outcomes

CO 1	To familiarize the learners with the concept and relevance of Business Ethics in the modern era.
CO 2	To analyse ethical aspect in finance. To get aware about the consequences of unethical behaviour in finance.
CO 3	To trace the historical evaluation of CSR. To analyses the factors affecting the growth of CSR. To learn the arguments in favour and against CSR.
CO 4	To analyse the provision for Corporate Social Responsibility in Companies Act2013
CO 5	To summarize CSR as Strategic business tool for sustainable development

Program: M.com semester III (Accounting & Taxation)

Paper : 3T1
Course : Human Resources Management
Course outcomes

CO 1	Students will be able to understand the concept of Human resource Management.
CO 2	Students will know the recruitment and selection process in the organization.
CO 3	Students will able to learn about job evaluation and job design.
CO 4	Students will able to understand the wages and remuneration rules for the employee.

Paper : 3T2
Course : Service Sector Management
Course outcomes:

CO 1	Students will be able to learn about the concept of Service sector management.
CO 2	Students will be able to earn about the various PSU's and Private companies working in India.
CO 3	Students will be able to gain knowledge about the market of service Industry.
CO 4	Students will know the recent trends and development in service sector.

Paper : 3T3
Course : Corporation And Rural Development
Course outcomes:

CO 1	Students will able to understand the Maharashtra Co-Operative act1960.
CO 2	Students will be able to evaluate the role of Credit Societies for Nation

	Development.
CO 3	Students will know the importance of rural economy.
CO 4	Students will able to determine the challenges and problems of cooperative movement.

Paper : 3T4
Course : Agricultural Economics
Course outcomes

CO 1	Students will able to understand the role of Indian agricultural system in Indian Economy.
CO 2	Students will know the agricultural in restructure
CO 3	Students will able to learn about the agricultural pricing system of India
CO 4	Students will know the agricultural growth in India since independence

Paper : 3T5
Course : Indian Banking System
Course outcomes

CO 1	Students will be able to understand the structure of Indian Banking System
CO 2	Students will be able to learn about various loans and advances facility provided by banks
CO 3	Students will able to evaluate the role of NBFCs in Indian Economy.
CO 4	Students will know the role of technology in banking system.

Program: M.com semester IV (Accounting & Taxation)

Paper : 4T1
Course : Accounting For Managerial Decisions
Course outcomes

CO 1	To understand the concept of management Accounting.
CO 2	To understand the concept & implementation of Decision making and accounting.
CO 3	To understanding the Fund Flow Statement.
CO 4	To understanding the Cash Flow Statement.

Paper : 4T2
Course : Business Tax Assessment And Planning
Course outcomes

CO 1	Students will be able to understand the various concepts in Income From Business, and able to Computation of Income From Business
CO 2	Students will gain some basic knowledge assessment of Firm and able to Computation book profit of a firms.
CO 3	Students will understand the Assessment of firm, and computation of tax on companies.
CO 4	Students will gain some basic knowledge clubbing of Income, and able to Set-off of losses and its types. Carry forward and set-off of losses, Treatment of carried forward losses.

Paper : 4T3
Course : Indirect Taxes
Course outcomes

CO 1	Students will be able to basic and practical knowledge of Indirect Tax specially of GST.
CO 2	Students will be able to basic and practical knowledge of Indirect Tax specially of

	GST.
CO 3	Students will be able to basic knowledge of GST liabilities of multiple suppliers.
CO 4	Students will be able to basic and practical knowledge of Indirect Tax specially of Customs Duty.

Paper : 4T4
Course : Human Resources Accounting
Course outcomes

CO 1	Student will be able to understand the values of Human Resources in Organisations
CO 2	Student will be able to understand the values of Human Resources in Organisations
CO 3	To acquaint the students with the process and approach of Human Resource Planning.
CO 4	To familiarise the students with the process and approach of Human Resource Investment.

Paper : 4T5
Course : Tax Assessment Process And Appeals
Course outcomes

CO 1	Students will be able to understand the various concepts in Income tax authorities and power.
CO 2	Students will gain some basic knowledge on filling of income tax returns.
CO 3	Students will understand the assessment procedure.
CO 4	Students will gain some basic knowledge of appeals and revision