



D.A.V. Velankar College of Commerce, Solapur
Programme Outcomes of Bachelor of Commerce (B. Com)

PO – 1	Acquire the knowledge of accounting fundamentals, finance, marketing, human resource management, taxation, business laws and international business to the solution of accounting & management problems.
PO – 2	Identify and formulate know-how on socio – economic problems to arrive at substantiated conclusions using principles and theories of commerce and accounting.
PO – 3	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern statistical tools & software.
PO – 4	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional accounting practice and management practice.
PO – 5	Understand the impact of the professional accounting and management solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
PO – 6	Apply ethical principles and commit to professional ethics and responsibilities and norms of the accounting and commerce practices.
PO – 7	Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings to accomplish finance and management practices.
PO – 8	Communicate effectively with the accounting professional & IT community and with society at large.
PO – 9	Demonstrate knowledge and understanding of management & commercial principles and apply these to one's own work, as a member and leader in a team. Manage project in multidisciplinary environments.
PO – 10	Recognize the need for and have the preparation and ability to engage in independent and life – long learning in the broadest context of technological change.

Programme Specific Outcomes (PSO) of Bachelor of Commerce (B. Com)

PSO – 1	Demonstrate progressive knowledge of accounting, finance, marketing, human resource management, taxation, business laws and international business.
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	Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.
PSO – 2	Develop accounting career skills applying both quantitative and qualitative knowledge to their future careers in Commerce.
PSO – 3	Develop proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.

D.A.V. Velankar College of Commerce, Solapur
Course Outcomes of Bachelor of Commerce (B. Com)

Course Outcomes of B. Com - I	
Name of the course	Course Outcomes
English (Compulsory)	At end of the course, students will be able to: <ul style="list-style-type: none"> • Demonstrate knowledge of various forms of communication. • Demonstrate knowledge of listening, reading, speaking and writing skills. • Develop understanding of the basic concept of business communication. • Practice verbal and nonverbal communication in day today situation required for entrepreneur.
Principles of Business Management	At end of the course, students will be able to: <ul style="list-style-type: none"> • Acquire knowledge of management and various management principles and thoughts. • Create awareness about functional areas of business management including planning, decision making, organizing, staffing, direction, communication, direction, coordination and control. . • Demonstration of the knowledge to apply best practices of business administration in the functional areas of business. • Understand recent trends in Business Management. • Demonstrate knowledge of evolution of management thoughts.
Financial Accounting	At end of the course, students will be able to: <ul style="list-style-type: none"> • Demonstrate knowledge of concepts, nature and purpose of financial statements in relationship to decision making. • Acquire knowledge of use the fundamental accounting equation to analyze the effect of business transactions on an organization's accounting records and financial statements.

	<ul style="list-style-type: none"> • Develop concepts of how to use a basic accounting system to create the data needed to solve a variety of business problems. • Understand branch account and its system departmental accounting. • Understand partnership account from admission to dissolution.
Business Economics - I	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand fundamental conceptual foundations of microeconomics. • Analyze the behavior of consumers in terms of the demand for products. • Evaluate the factors affecting firm behavior, such as production and costs. • Analyze the performance of firms under different market structures.
Principles of Marketing	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand core concepts of marketing and the role of marketing in business and society. • Demonstrate Knowledge about social, legal, ethical and technological forces on marketing decision-making. • Acquire knowledge of developing marketing strategies based on product, price, place and promotion objectives. • Evaluate concepts of buyer behavior and market segmentation.
Business Mathematics	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate knowledge of the basic concepts of statistics and its use in business. • Understand key terminologies, concepts tools and techniques used in business statistical analysis. • Critically evaluate the underlying assumptions of analysis tools. • Understand and critically discuss the issues surrounding sampling and significance • Conduct basic statistical analysis of data.
Insurance	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate knowledge of meaning of insurance & its significance in the day to day life. • Summarize the basic principles of insurance. • Familiarize with the necessity of insurance, procedure for determination of insurance claim. • Understand development and progress of the concepts related to life Insurance companies.
Democracy Elections & Good Governance	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate meaning of democracy and the role of the governance. • Understand the various approaches to the study of democracy and governance.

	<ul style="list-style-type: none"> Analyze elements of democracy and its function. Evaluate development of Panchayatraj system.
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Course Outcomes of B. Com - II	
Name of the course	Outcomes
English (Compulsory)	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> Enlist components of job letter and resume. Classify and write different types of business letters. Evaluate types of sentences and convert sentences as per instructions. Analyze prose and poetry. Acquire new words, their meanings and use it in day to day communication. Practice speaking, listening, reading and writing skills.
Business Statistics	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> Describe and discuss the key terminology, concepts tools and techniques used in business statistical analysis. Critically evaluate the underlying assumptions of analysis tools Understand and critically discuss the issues surrounding sampling and significance. Solve a range of problems using the techniques covered. Conduct basic statistical analysis of data.
Corporate Accounting	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> Demonstrate conceptual aspect of corporate accounting. Understand concepts of Corporate Accounting in conformity with the provisions of Companies Act and Accounting as per Indian Accounting Standards. Develop various skills about Computerized Accounting and Accounting Standards. Evaluate and acquire concepts related to companies i.e. Issue of shares, Redemption of preference shares and redemption of debentures liquidation.
Fundamentals of Entrepreneurship	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> Develop ability to discern distinct entrepreneurial traits.

	<ul style="list-style-type: none"> • Know the parameters to assess opportunities and constraints for new business ideas • Understand the systematic process to select and screen a business idea • Design strategies for successful implementation of entrepreneurial ideas.
Business Economics - II	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate knowledge of the fundamental and technical concepts of economics. • Demonstrate knowledge of monetary and fiscal policy can be used to achieve business goals. • Compute different measures of macroeconomic activity such as the national income accounts, inflation and deflation. • Analyze the forces that affect the aggregate level of economic activity and the Trade cycle.
Money & Financial System	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand various types of banks and their special features. • Analyze reforms and other developments in the Indian Banking. • Classify functions, role of Reserve Bank of India and the Regulation and supervision of Reserve Bank over Commercial banks • Acquire knowledge of monetary policy and its instruments.
Environmental Studies	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand key concepts from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions. • Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem solving. • Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems. • Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.

Course Outcomes of B. Com - III	
Name of the course	Outcomes
Modern Management Practices	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand competitive business environment and demonstrate knowledge of different strategies and modern techniques. • Acquire concepts of modern management practices in foreign countries like Japan and America for compare with Indian Management practices. • Measure the skills, capabilities of Human assets through applications of different valuation methods. • Practice methods of entry in international market and develop

	employability skills through management practices.
Business Economics - III	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Familiarize with the basic concept of Macro Economics and its application. • Demonstrate knowledge of concepts of effective demand, investment and consumption and would be able to see the relevance of the theory in the developing countries. • Analyze effects of public policies on the control of inflation and the various approaches to liquidity approach. • Apply economic reasoning to solve the problems of the economy.
Cooperative Development	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate knowledge of various cooperative institutions. • Acquire the knowledge of establishment of cooperative societies • Analyze development of Co-operatives in India and various cooperative Acts • Compare international cooperative movement to national cooperative development. • Appreciate role and relevance of co-operatives in the present economic environment.
Business Regulatory Framework	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Acquaint with the basic concepts, terms & provisions of Mercantile and Business Laws. • Understand provisions regarding legal frame work governing the business world. • Analyze how laws effect on business, trade and commerce. • Apply the knowledge of legal provisions for banking business practices. •
Advanced Accountancy P-I	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate knowledge of various advanced accounting concepts and its Practical approach. • Appreciate nature of Banking Company and its Financial Statements. • Interpret concepts of analysis of financial statements. • Practice various accounting methods, procedures and techniques.

Advanced Accountancy P-II	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none">• Demonstrate knowledge of the concept and principles of Auditing, Audit process, Tax Audit and Audit of computerized Systems.• Construct knowledge of how to prepare the Audit report and its importance.• Understand computation of Taxable Income under the different Heads of Income.• Acquire and practice process of Submission of Income Tax Return, Advance Tax, and Tax deducted at Source and Tax Collection.
Advanced Banking P-I	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none">• Identify knowledge of Banking Law and Practice in relation to the Banking system in India.• Infer the legal aspects of Banking transactions and its implications as Banker and Customer.• Measure development of banking and financial system in India• Integrate knowledge of commercial banks and its products.
Advanced Banking P-II	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none">• Demonstrate knowledge of the Financial Markets and its various segments.• Analyze the operations and developments in financial markets in India.• Categorize functioning and role of financial institutions in the Indian Economy.• Estimate organization functions & working of regulatory Institutions in Financial Market.

D.A.V. Velankar College of Commerce, Solapur
Programme Outcomes of Master of Commerce (M. Com)

PO – 1	Demonstrate comprehensive knowledge and understanding of Advanced Accountancy, Advanced Costing, & Taxation.
PO – 2	Develop an ability to express thoughts and ideas related to commerce, management thoughts & theories, organizational behavior, managerial economics, e-commerce and office management effectively in writing and orally; Communicate with others using appropriate media; confidently share one’s views and express herself/himself.
PO – 3	Demonstrate skills to apply analytic thoughts to a body of knowledge; analyze and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development in the field of Commerce, Organizational Behavior, Economics, finance, Business Ethics, CSR, HRM and financial systems.
PO – 4	Demonstrate capacity to extrapolate from what one has learned during the Bachelor of Commerce Programme and apply their competencies to solve different kinds of non-familiar problems and apply one’s learning to real life situations.
PO – 5	Develop ability to evaluate the reliability and relevance of evidence in Commerce & management; analyze and synthesize commercial and technical data from a variety of sources; draw valid conclusions addressing opposing viewpoints with objectives to establish business, industry and enterprise.
PO – 6	Create sense of inquiry and capability for asking relevant/appropriate questions, problematizing, synthesizing and articulating research methodology relevant to Commerce, Taxation, Costing, Accounting & Economics.
PO – 7	Integrate ability to work effectively and respectfully with diverse teams to work upon and resolve commerce, finance, costing and management related issues.
PO – 8	Analyze, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.
PO – 9	Develop critical sensibility to lived experiences in Commerce, Management, Costing, E-commerce and finance, with self-awareness and reflexivity of both self and society.
PO – 10	Build capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use

	appropriate software for analysis of enterprise and taxation related data.
PO – 11	Develop ability to embrace moral/ethical values in conducting one’s life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all works and professional life related to Commerce.
PO – 12	Develop ability to acquire knowledge and skills that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development.

Programme Specific Outcomes (PSO) of Master of Commerce (M. Com)

PSO – 1	Fostering students with the requisite advanced knowledge and skills in the field of accounting, costing, management and taxation.
PSO – 2	Develop accounting, costing, taxation and managerial skills and theoretical knowledge for managing business units with special focus on functional areas of business and management.
PSO – 3	Enable learners to acquire advanced theoretical knowledge on research methods and techniques and also develop capabilities in the application of research in solving business related problems.

Course Outcomes of M.Com. I	
Name of the course	Outcomes
Management Concept & Organizational Behaviour – I	At end of the course, students will be able to: <ul style="list-style-type: none"> • Demonstrate the applicability of the concept of organizational behavior to understand the behavior of people in the organization. • Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization. • Analyze the complexities associated with management of the group behavior in the organization. • Demonstrate how the organizational behavior can integrate in understanding the motivation behind behavior of people in the organization.
Managerial	At end of the course, students will be able to:

<p>Economics - I</p>	<ul style="list-style-type: none"> • Develop an understanding of the applications of managerial economics. • Interpret regression analysis and discuss why it's employed in decision-making. • Discuss optimization and utility including consumer behavior. • Analyze perfect competitive markets.
<p>Advanced Accountancy Paper - I</p>	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Acquire theoretical foundation of Accounting and Accounting Standards. • Demonstrate mastery over problems relating to Company Accounts, Valuations and special types of situations. • Prepare Statement of affairs including deficiency /surplus account. • Critically analyze and provide recommendations to improve the operations of organizations through the application of management accounting techniques.
<p>Advanced Accountancy Paper - II</p>	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Acquire methods of auditing and their application. • Integrate knowledge of different types of audits. • Formulate concepts related to Audit under Computerized Information System (CIS) Environment. • Acquire and practice knowledge of provisions of companies act 2013 regarding appointment • Appraise Government System of Audit, Tax audit in India and its provisions related to audit.
<p>Advanced Costing Paper - I</p>	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand various costing systems used in industry. • Demonstrate mastery of costing systems and knowledge of different methods of valuation of stocks. • Evaluate cost accounting methods applicable to service and manufacturing industry. • Evaluate the costs and benefits of different conventional and contemporary costing systems.
<p>Advanced Costing Paper - II</p>	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Explain cost accounting systems. • Understand the Scope of Cost Accounting in any business activity. • Establish the interface between Cost Accounting Standards and the various elements of Cost. • Learn application of different methods of costing in Manufacturing and Service industries.

Taxation Paper - I	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand various terms related to Goods and Service tax(GST). • Understand the difference between forward charge and reverse charge mechanism and also to understand the difference between composite and mixed supply. • Determine the time, place and value of supply. • Compute the amount of CGST, SGST and IGST payable after considering the eligible input tax credit.
Taxation Paper - II	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Identify the technical terms related to direct taxation. • Calculate the taxable income under various Heads of income. • Estimate various slabs of income tax and how to use the slabs to calculate the tax liability. • Analyze various tax authorities in India.

<u>Course Outcomes of M.Com. II</u>	
Name of the course	Outcomes
Business Finance	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand the difference between debtors' management and creditors' management. • Classify the source of business finance. • Calculate economic order quantity and virus inventory levels. • Calculate the assignment of working capital requirement.
Management Accounting	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Provide a systematic and rigorous learning and exposure to Banking and Finance related disciplines. • Facilitate the students for conducting business, accounting and auditing practices, role of regulatory bodies in corporate and financial sectors nature of various financial instruments. • Develop conceptual, applied and research skills as well as competencies required for effective problem solving and right decision making in routine and special activities relevant to financial management and Banking Transactions of a business. • Understanding of all core areas specifically Advanced Accounting, International Accounting, Management, Security Market Operations and Business Environment, Research Methodology and Tax planning.

<p>Advanced Accountancy Paper - III</p>	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand concept and principles of Advanced Accountancy. • Analyze difference between Financial Accounting and Cost Accounting. • Acquire different cost accounting practices. • Appraise Classification, Allocation and Apportionment, Departmentalization and Absorption of overheads.
<p>Advanced Accountancy Paper - IV</p>	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate knowledge of reconciliation of Cost and Financial Accounts-Introduction. • Analyze and appraise Service Costing/Operating Costing concepts. • Acquire knowledge of Process Costing. • Develop practical understanding of Accounting for Packages & Empties.
<p>Advanced Costing Paper - III</p>	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand the concept and demonstrate knowledge of Financial Management. • Evaluate Management of Inventories. • Appraise and analyze Management of Cash AND Management of Receivables. • Analyze of Financial Statements.
<p>Advanced Costing Paper - IV</p>	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Describe and understand Investment Appraisals. • Understand and analyze Operating and Financial Leverage. • Analyze Cost of Capital. • Integrate knowledge of Dividend policy.
<p>Taxation Paper - III</p>	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand the concept of GST. • Analyze concept of supply under GST. • Interpret procedures and functions of registrations. • Evaluate Time and value of Supply.
<p>Taxation Paper - IV</p>	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand and demonstrate knowledge of exemptions under GST. • Analyze and acquire Tax Invoices, Credit and Debit Notes. • Interpret payment of tax. • Understand Custom Act and its provisions.

D.A.V. Velankar College of Commerce, Solapur
Programme Outcomes of Bachelor of Computer Applications (BCA)

PO – 1	Demonstrate knowledge of computing languages, IT, Dot Net Technology, Network Security and domain knowledge for the conceptualization of computing models from defined problems.
PO – 2	Demonstrate ability to identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains through knowledge acquired from programming, mathematics & statistics.
PO – 3	Demonstrate ability to transform complex technology situations and contemporary issues into problems, investigate, understand and propose integrated solutions using emerging technologies.
PO – 4	Integrate ability to devise and conduct experiments, interpret data and provide well informed conclusions through programming & operating systems.
PO – 5	Develop ability to select modern computing tools, skills and techniques necessary for innovative software solutions.
PO – 6	Integrate research-related skills through research projects of current relevance and critical outcome.
PO – 7	Develop scientific reasoning data analysis in computing that is researched/observed or collected through surveys for projects and term papers required logical thinking and reasoning for arriving at conclusions and analytical outcomes.
PO – 8	Demonstrate self-directed learning curiosity in computing studies to acquire general knowledge and explore information to make better decisions, develop rational and logical beliefs and thinking.
PO – 9	Create awareness of moral and ethical awareness/reasoning through sensitization and cultivation of moral and ethical values in cyber law.
PO – 10	Develop lifelong Learning towards better learning and application on business data; also show awareness for generation of new ideas and innovation.

Programme Specific Outcomes (PSO) of Bachelor of Computer Applications
(BCA)

PSO – 1	Explore technical comprehension in varied areas of Computer Applications and experience a conducive environment in cultivating skills for thriving career and higher studies.
PSO – 2	Comprehend, explore and build up computer programs in the allied areas like algorithms, system software, multimedia, web design, python, web programming, software and data analytics for efficient design of computer-based systems of varying complexity.
PSO – 3	Acquire skills required for information technology professionals, able to work effectively at planning, implementing, configuring and maintaining an organization's computing infrastructure.

Course Outcomes of Bachelor of Computer Application (BCA)

<u>Course Outcomes of BCA I</u>	
Name of the course	Outcomes
English (Communication Skill)	At end of the course, students will be able to: <ul style="list-style-type: none">• Demonstrate knowledge of various forms of communication.• Demonstrate knowledge of listening, reading, speaking and writing skills.• Develop understanding of the basic concept of business communication.• Practice verbal and nonverbal communication in day today situation required for technocrat.
Fundamentals of Computer	At end of the course, students will be able to: <ul style="list-style-type: none">• Understand the fundamental concepts of computers with the present level of knowledge of the students.• Familiarise operating systems, programming languages, peripheral devices, networking, multimedia and internet.• Understand binary, hexadecimal and octal number systems and their

	<p>arithmetic.</p> <ul style="list-style-type: none"> • Demonstrate the building up of Sequential and combinational logic from basic gates. • Develop knowledge of LAN, WAN & MAN, Transmission media, Topologies, E-commerce.
Logic Development with 'C' Programming	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate knowledge of programming tools. • Develop conceptual understanding of algorithms, pseudo code, flow chart. • Acquire basic concept & history of 'c', 'c' fundamentals. • Formulate basics of data input and output operations, Control statements, Array.
Basics of Web Programming – I & II	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Describe fundamentals of web. • Demonstrate knowledge of static website using HTML 4, HTML 5 & CSS. • Describe the function of JavaScript as a dynamic webpage creating tool. • Distinguish PHP as a server side programming language.
Software Engineering – I & II	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Acquire knowledge of System, Software Engineering, SDLC, SDLC models. • Distinguish among different fact finding techniques. • Develop knowledge of analysis & design tools, how to configure & construct of the system, software testing & Maintenance. • Acquire skills and knowledge to support a professional pathway.
Basics of Mathematics – I & II	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Student will learn basics of Matrices. • Demonstrate understanding of Graph, Euler's and Hamilton graph. • Familiar with the concept of Set and Relations, Elementary Logic.

	<ul style="list-style-type: none"> Reason mathematically about Derive Graphs and tree used in computer science.
Statistical Methods – I & II	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> Understand the concept of Population and Sample, measures of central tendency, Co-relation. Estimate different distributions. Learn about how to conduct hypothesis Testing. Acquire knowledge of Permutations & Combinations, Discrete random variable.
Digital Electronics	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> Understand fundamental concepts and techniques used in digital electronics. Understand and examine the structure of various number systems and its application in digital design. Understand, analyze and design various combinational and sequential circuits. Identify basic requirements for a design application and propose a cost effective solution. Develop skill to build, and troubleshoot digital circuits.
Development of Human Skills	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> Understand the verbal communication. Understand the interview techniques. Define questioner for interview, preparation, personality and organisational behaviour, writing skill & study of Industry.
Advanced Programming in C	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> Learn Functions pointers structure and unions, file handling, macros. Able to implement the algorithms and draw flowcharts for solving Mathematical and Engineering problems.

	<ul style="list-style-type: none"> • Demonstrate an understanding of computer programming language concepts. • Develop confidence for self-education and ability for life-long learning needed for Computer language.
Introduction to Operating System	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Learn Introduction to operating system and its types. • Demonstrate knowledge of process management, scheduling, process synchronization. • Describe and extrapolate the interactions among the various components of computing systems. • Measure, evaluate, and compare OS components through instrumentation for performance analysis.
Office Automation	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Learn basic operations of windows, learn to create word document, excel sheet, power point presentation and MS access table. • Describe the usage of computers and why computers are essential components in business and society. • use application software to solve business problems and increase efficiency in the workplace. • Identify categories of programs, system software and applications. Organize and work with files and folders.
Introduction to Microprocessor	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Students will learn fundamentals of Microprocessor, 8 Bit Microprocessor, Instruction set and Interfacing. • Distinguish and analyze the properties of Microprocessors & Microcontrollers. • Analyze the data transfer information through serial & parallel ports. • Recall and apply a basic concept of digital fundamentals to

	Microprocessor based personal computer system.
Democracy Elections & Good Governance	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate meaning of democracy and the role of the governance. • Understand the various approaches to the study of democracy and governance. • Analyze elements of democracy and its function. • Evaluate development of Panchayatraj system.

Course Outcomes of BCA II	
Name of the course	Outcomes
Data Sturcture using C	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Acquire knowledge about the concepts of memory allocation and pointers. • Demonstrate knowledge of Link List and structure of memory. • Understand basic concepts about stacks, queues, lists, trees and graphs. • Summarize searching and sorting techniques.
Networking & Data Communication	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate knowledge of the concepts of basic networking terminologies. • Understand different layer of OSI Model. • Describe the concept of Transmission Media. • Recognize the different internet devices and their functions.
DBMS with Oracle	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand database concepts and structures and query language • Understand concept of data, database and designing of database. • Summarize normalization, CODD's Rule, SQL, PL/SQL. • Understand the principles of storage structure and recovery

	management.
OOP with C++	At end of the course, students will be able to: <ul style="list-style-type: none"> • Learn about Object Oriented Programming. • Understand how the class & object Interact. • Summarize concept of Constructor, Method overloading & overriding and Inheritance. • Create simple programs using classes and objects in C++.
Operation Research	At end of the course, students will be able to: <ul style="list-style-type: none"> • Explain fundamentals of dynamic programming. • Formulate and solve problems as networks and graphs. • Propose the best strategy using decision making methods under uncertainty and game theory. • Gather, analyze and compose information obtained from various sources.
Data Sturcture using C	At end of the course, students will be able to: <ul style="list-style-type: none"> • Learn about the concepts of memory allocation. • Summarize knowledge of pointers. • Evaluate Link List and structure of memory. • Summarize searching and sorting techniques.
Networking & Data Communication	At end of the course, students will be able to: <ul style="list-style-type: none"> • Understand the concepts of basic networking and terminologies. • Demonstrate knowledge of different layer of OSI Model, Transmission Media. • Identify the basic security threats of a network • Analyze the services and features of various protocol layers in data networks.
DBMS with Oracle	At end of the course, students will be able to:

	<ul style="list-style-type: none"> • Understand database concepts and structures and query language • Understand concept of data, database and designing of database. • Summarize normalization, CODD's Rule, SQL, PL/SQL. • Understand the principles of storage structure and recovery management.
Software Testing	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate knowledge of the concepts of Software Testing and different techniques of testing • Discuss about the functional and system testing methods. • Distinguish characteristics of structural testing methods • Analyze testing of different objects.
Python	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand the concepts of introduction of python, features of python and how to program in python. • Acquire programming skills in core Python. • Understand graphical user Interface. • Develop the ability to write database applications in Python.
Operating System	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Identify basic components of operating system. • Demonstrate knowledge of the concepts of Operating system, its types, features, process, thread, synchronization, paging, segmentation, Fragmentation, types of files. • Understand and simulate activities of various operating system components. • Correlate basic concepts of operating system with an existing operating system.
Advance Web Technology	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate knowledge of the concepts of how to use PHP

	<p>language, development of web pages, forms, database connectivity.</p> <ul style="list-style-type: none"> • Develop a dynamic webpage by the use of java script and DHTML. • Write a well formed / valid XML document. • Write a server side java application called JSP to catch form data sent from client and store it on database.
E-Governance	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Acquire concepts of how government works traditionally. • Evaluate difference between e- government & e-governance. • Analyze models of e-governance, advantages of using e-services. • Identify suitable entities, attributes and database keys for a simple database design.

<u>Course Outcomes of BCA III</u>	
Name of the course	Outcomes
Core Java	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Understand the concepts of java as a programming language /Platform. • Understands the concepts of conceptual handling, threading, event programming & database connectivity using JDBC. • Identify and fix defects and common security issues in code. • Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.
Visual Programming	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none"> • Learn the Dot Net framework, OOP concepts, exception Handling Mechanism, delegates, Collection & generic, window, data access using ADO .Net. • Distinguish variable and data types.

	<ul style="list-style-type: none">• Design a complete program using visual programming concepts.• Prepare project in visual programming.
Linux & Shell Programming	At end of the course, students will be able to: <ul style="list-style-type: none">• Understand the basic commands of Linux operating system.• Write shell scripts.• Create file systems and directories and operate them.• Create shared memory segments, pipes, message queues and can exercise inter-process communication.
Computer Graphics	At end of the course, students will be able to: <ul style="list-style-type: none">• Understand the basics of computer graphics, different graphics systems and applications of computer graphics.• Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis.• Use of geometric transformations on graphics objects and their application in composite form.• Explore projections and visible surface detection techniques for display of 3D scene on 2D screen.• Render projected objects to naturalize the scene in 2D view and use of illumination models for this.
Data warehouse & Data Mining	At end of the course, students will be able to: <ul style="list-style-type: none">• Understand Data Warehouse fundamentals, Data Mining Principles.• Design data warehouse with dimensional modelling and apply OLAP operations.• Identify appropriate data mining algorithms to solve real world problems• Compare and evaluate different data mining techniques like classification, prediction, clustering and association rule mining.• Describe complex data types with respect to spatial and web mining.

Advanced Java	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none">• Identify major subsystems and interfaces• Define system and software requirements• Demonstrate knowledge of different concepts of servlet , JSP , Hibernate & spring• Develop appropriate data model and database scheme.
Dot Net Technology	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none">• Learn about the concepts of ASP .Net.• Interpret web server control, Validation Controls, Master pages & themes.• Acquire knowledge of site Navigation, State Management, AJAX.• Perform Web services, storing & retrieving of data with ADO. Net
Recent Trends in Information Technology	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none">• Understand the computer basics and principles of programming language design.• Learn about the concepts of Green IT , BIG Data & Hadoop.• Analyze Data science , Machine learning ,cloud computing virtualization & IOT.• Use modular programming approach in diversified problem domains.
Cryptography & Network Security	<p>At end of the course, students will be able to:</p> <ul style="list-style-type: none">• Understand various Cryptographic Techniques.• Apply various public key cryptography techniques.• Implement Hashing and Digital Signature techniques.• Understand the various Security Applications.• Implement system level security applications.

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Graduate Attributes in B. Com & BCA

- Disciplinary Knowledge
- Communication skills
- Critical Thinking
- Problem solving
- Research Related Skills
- Information and Communication Technology (ICT) digital literacy
- Self-directed Learning
- Moral and Ethical Awareness/Reasoning
- Lifelong learning

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Graduate Attributes in M. Com

- Disciplinary knowledge
- Communication Skills
- Critical thinking
- Problem solving
- Analytical reasoning
- Research-related skills
- Cooperation/Team work
- Scientific reasoning
- Reflective
- Information/digital literacy
- Self-directed learning
- Multicultural competence
- Moral and ethical awareness/reasoning
- Leadership readiness/qualities
- Lifelong learning