

Course Outcomes (COs):
BCA Semester First

SR.NO	NAME OF THE COURSE	COURSE OUTCOME
1	Accountancy-I	<p>Upon successful completion of this course, the student will be able to:</p> <p>CO 1- Acquire conceptual knowledge of basics of accounting</p> <p>CO 2- Identify events that need to be recorded in the accounting records</p> <p>CO 3- Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP</p> <p>CO 4- Describe the role of accounting information and its limitations</p> <p>CO 5- Equip with the knowledge of accounting process and preparation of final accounts of sole trader</p>
2	Industrial Economics	<p>Upon successful completion of this course, the student will be able to:</p> <p>CO 1- describe and explain the determinants of the size and structure of firms and the implications of the separation of ownership and control.</p> <p>CO 2- describe and explain the pricing behaviour by firms with market power and its welfare implications</p> <p>CO 3- apply analytical models of firm behaviour and strategic interaction to evaluate various business practices, including tacit collusion, entry deterrence, product differentiation, price discrimination and vertical restraints</p> <p>CO 4- recognise and explain the basic determinants of market structure and the key issues in competition policy and regulation.</p>
3	Business Statistics	<p>Upon successful completion of this course, the student will be able to:</p> <p>CO 1- Understand basic statistical concepts such as statistical collection, statistical series, tabular and graphical representation of data</p> <p>CO 2- Calculate measures of central tendency, dispersion and asymmetry, correlation and regression analysis</p> <p>CO 3- Apply knowledge to solve simple tasks using computer</p> <p>CO 4- Independently calculate basic statistical</p>

		parameters viz- mean, measures of dispersion, correlation coefficient, indexes)
4	Office Automation Tools	<p>Upon successful completion of this course, the student will be able to:</p> <p>CO 1- Students would be able to documents, spreadsheets, make small presentations and would be acquainted with internet. Knowledge of reading and writing in English.</p>
5	Communicatrions Skills	<p>Upon successful completion of this course, the student will be able to:</p> <p>CO 1- To provide employability skills.</p> <p>CO 2- To provide the skills of comprehension writing.</p> <p>CO 3- To develop Formal correspondence writing skills.</p> <p>CO 4- To learn the language skills grammatically.</p> <p>CO 5- To understand the need, benefits and forms of communication.</p>
6	Operating System-I	<p>Upon successful completion of this course, the student will be able to:</p> <p>CO 1- To understand the working of operating system as a resource manager.</p> <p>CO 2- To familiarize the students with Process and Memory management.</p> <p>CO 3- To describe the problem of process synchronization and its solution.</p> <p>CO 4- Ability to apply CPU scheduling algorithms to manage tasks.</p>

BCA Semester Second

SR.NO	NAME OF THE COURSE	COURSE OUTCOME
1	Accountancy-II	Upon successful completion of this course, the student will be able to: CO 1 -Appreciate the need for negotiable instruments and procedure of accounting for bills honoured and dishonoured CO 2- Differentiate Trade bills from Accommodation Bills CO 3- Understand the concept of Consignment and learn the accounting treatment of the various aspects of consignment CO 4- Distinguish Joint Venture and Partnership and to learn the methods of maintaining records under Joint Venture
2	Industrial Organization	Upon successful completion of this course, the student will be able to: CO 1 -Model the behaviour of monopolists in different circumstances. CO 2 -Solve game theory problems, as used in industrial organisation. CO 3 -Understand the determinants of strategic behaviour in oligopolistic markets. CO 4 -Understand the determinants of industry structure.
3	Mathematics	Upon successful completion of this course, the student will be able to: CO 1 -To impart knowledge regarding relevant topics such as set Theory, basic logic, graphs, trees or discrete probability. CO 2 - To familiarize students with linear Algebra, differential and integral calculus, numerical methods and statistics. CO 3 -Develops formal reasoning. CO 4 - Creates habit of raising questions.
4	Programming in C	Upon successful completion of the student will be able to: CO 1 - Understanding concept on structural Programming language, Pseudo code and Algorithm. CO 2 -Ability to work with textual information, data types, characters and strings.

		<p>CO 3 - Ability to work with Looping and Branching statements practically.</p> <p>CO 4 -Ability to work with expressions and type casting. • Ability to work with arrays and strings of complex objects.</p>
5	Principles of Management	<p>Upon successful completion of this course, the student will be able to:</p> <p>CO 1 - Understand the importance of Administration & Management.</p> <p>CO 2 - Understand the Principles of Management in traditional & modern scientific way.</p> <p>CO 3 - Understand the details about Planning and MBO</p> <p>CO 4 - Learn about Principles of Organization & various types of Organizations.</p> <p>.</p>
6	Operating System-II Unix	<p>Upon successful completion of this course, the student will be able to:</p> <p>CO 1 - The course will cover an introduction on the policies for scheduling, kernel, processes, deadlocks, memory management, synchronization, system calls, and file systems.</p> <p>CO 2 - To understand the basic components of a computer operating system, and the interactions among the various components.</p> <p>CO 3 - To introduce operating system as a resource manager, its evolutions and fundamentals.</p> <p>CO 4 - Compare between different algorithms used for management and scheduling of processes, memory and input/output operation.</p>

BCA Semester Third

SR.NO	NAME OF THE COURSE	COURSE OUTCOME
1	E-Business Essentials	Upon successful completion of this course, the student will be able to: CO 1 - Analyze the impact of E-commerce on business models and strategy. CO 2 - Describe the major types of E-commerce. Explain the process that should be followed in building an E-commerce presence. CO 3 - Identify the key security threats in the E-commerce environment. CO 4 - Describe how procurement and supply chains relate to B2B E-commerce.
2	Bussiness Law-I	Upon successful completion of Business Law the student will be able to: CO 1 - Demonstrate an understanding of the Legal Environment of Business. CO 2 - Communicate effectively using standard business and legal terminology. CO 3 - Demonstrate recognition of the requirements of the contract agreement CO 4 - Demonstrate understanding of contract consideration and capacity CO 5 - Demonstrate recognition of the genuineness of assent in contract formation.
3	Principles of Management-II	Upon successful completion of Business Law the student will be able to: CO 1 - Describe the primary functions of management and the roles of managers. CO 2 - Understand the work of major contributors to the field of management. CO 3 - Explain how managers align the planning process with company mission, vision, and values. CO 4 - Explain the components and considerations of strategic management.
4	OOPs using C++	Upon successful completion of Business Law the student will be able to: CO 1 - To deliver comprehensive view of OOP

		<p>concept.</p> <p>CO 1 - To impart detailed knowledge of a powerful object-oriented programming language –C++.</p> <p>CO 2 - Familiarization with a widely used programming concept – Object Oriented Programming.</p> <p>CO 3 - Develop logical thinking.</p> <p>CO 4 - Ability to isolate and fix common errors in C++programs</p>
5	Data Structure & Algorithm	<p>Upon successful completion of Business Law the student will be able to:</p> <p>CO 1 - To familiar with basic techniques of algorithm analysis.</p> <p>CO 2 - To familiar with writing recursive methods.</p> <p>CO 3 - To master the implementation of linked data structures such as linked lists and binary trees.</p> <p>CO 4 - To familiar with several sub-quadratic sorting algorithms including Selection sort, Insertion sort etc.</p>
6	Data Base Management and System	<p>Upon successful completion of this course students will be able to:</p> <p>CO 1 - Master the basic concepts and applications of database systems.</p> <p>CO 2 - Mater sound design principles for logical design of databases, ER models.</p> <p>CO 3 - Understanding the rules of Normalization for designing a good database.</p> <p>CO 4 - Master the basics of SQL and construct queries using SQL</p> <p>.</p>

BCA Semester Fourth

SR.NO	NAME OF THE COURSE	COURSE OUTCOME
1	Cost Accountancy	Upon successful completion of this course students will be able to: CO 1 - Imbibe conceptual knowledge of cost accounting. CO 2 - Understand the significance of cost accounting in the modern economic environment CO 3 - Select the costs according to their impact on business CO 4 - Differentiate methods of schedule costs per unit of production
2	Bussiness Law-II	Upon successful completion of this course students will be able to: CO 1 - Students will be able to – Understand the legal system prevailing into practice. CO 2 - Develop an understanding of the basic law related to Indian Contract Act. CO 3 - Develop an understanding about legal formality related to Sale of Goods Act CO 4 - Students will understand the legal formality related to Negotiable Instruments
3	Entrepreneurship	Upon successful completion of this course, a student will be able to: CO 1 - Understand the development of entrepreneurship as a field of study and as a profession. CO 2 - Understand the creative process of opportunity identification and screening. CO 3 - Understand the entrepreneurial process. CO 4 - Analyze new concept/product/service ideas as an entrepreneur.
4	Java Programming	Upon successful completion of this course, a student will be able to CO 1 - Understands fundamentals of basic java programming CO 2 - Introduces object-oriented design techniques and problem solving. CO 3 - Emphasizes development of secure, well-designed software projects that solve practical

		<p>real-world problems.</p> <p>CO 4- Be able to use the java SDK environment to create ,debug, & run simple java program.</p>
5	MIS & DSS	<p>Upon successful completion of this course, a student will be able to</p> <p>CO 1 - Demonstrate knowledge on the different phases of Systems Development Life Cycle (SDLC).</p> <p>CO 2 - Appreciate the use of systems design techniques, methodologies, and tools.</p> <p>CO 3 - Identify various types of information systems concepts and terminologies.</p> <p>CO 4 - Explain the types of business needs that can be addressed using information technology based solutions.</p>
6	Advance Networking	<p>Upon successful completion of this course, a student will be able to</p> <p>CO 1- Become familiar with the basics of computer networks</p> <p>CO 2- Become familiar with network architectures</p> <p>CO 3- Become familiar with fundamental protocols</p> <p>CO 4- Become familiar with basic network computing techniques</p>

BCA Semester Fifth

SR.NO	NAME OF THE COURSE	COURSE OUTCOME
1	Management Accounting	Upon successful completion of this course students will be able to: CO 1- Understand various costing systems and management systems CO 2- Analyse and provide recommendations to improve the operations of organisations through the application of Cost and Management accounting techniques CO 3- Evaluate the costs and benefits of different conventional and contemporary costing systems CO 4- Differentiate methods of schedule costs as per unit of production
2	Organizational Behavior	Upon successful completion of this course students will be able to: CO 1 - Demonstrate the applicability of the concept of organizational behavior to understand the behavior of people in the organization. CO 2- Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization. CO 3-Analyze the complexities associated with management of the group behavior in the organization. CO 4-Demonstrate how the organizational behavior can integrate in understanding the motivation (why) behind behavior of people in the organization.
3	Banking & Insurance	Upon successful completion of this course students will be able to: CO 1 - To utilize and enhance their technical and financial training to solve problems and serve financial, insurance, banking, and service sectors that are globally relevant and based on ethically sound principles. CO 2 - To develop the software projects related to banking application by understanding the client requirement. CO 3 - To demonstrate leadership in their respective careers in computational finance or interrelated areas of industry, government, academia. CO 4 - Able to master the basic concept and understand the banking management and financial accounts..

4	RDBMS	<p>Upon successful completion of this course students will be able to:</p> <p>CO 1 - Learn the basic principles of database Management System and RDBMS</p> <p>CO 2 - Understand the concepts of database manipulation using SQL and PL/SQL</p> <p>CO 3 - Enable to design a database to solve real life applications</p>
5	Visual Basic	<p>Upon successful completion of this course students will be able to:</p> <p>CO 1 - To develop applications using Visual Basic.</p> <p>CO 2 - Creating dialogs, menus, windows and use Windows common dialogs</p> <p>CO 3 - Developing modular, reusable Visual Basic code and forms</p> <p>CO 4 - Demonstrate knowledge of programming terminology and how applied using Visual .</p>
6	Software Engineering	<p>Upon successful completion of this course students will be able to:</p> <p>co 1 - To know about software engineering and its application in Software development</p> <p>co 2 - To inculcate in students different concepts of software engineering principles</p> <p>co 3 - To develop the skills necessary to design, develop and execute software projects.</p> <p>co 4 - Select and implement different software development process models.</p>

BCA Semester Sixth

SR.NO	NAME OF THE COURSE	COURSE OUTCOME
1	Business Law-II	<p>Upon successful completion of this course students will be able to:</p> <p>CO 1 - Students will understand legal recognition to all transactions done through electronic data exchange, other means of electronic communication or e-commerce in place of the earlier paper-based communication.</p> <p>CO 2 - Develop to promote the IT industry, regulate e-commerce, facilitate e-governance and prevent cybercrime.</p> <p>CO 3 - Develop an understanding of the Develop the he concepts in business laws with respect to foreign trade</p> <p>CO 4.-Develop an understanding about legal formality related to Security tools and Technologies and Services like Fire Wall, Digital signature etc.</p>
2	Export Management	<p>Upon successful completion of this course students will be able to:</p> <p>CO 1 - Students should have appreciation of the role of export/import process in the globalised world market.</p> <p>CO 2 - Students should have a broad overview of the export-import process and its related literature and research streams.</p> <p>CO 3 - Skills:The student should be able to create export and import plans</p> <p>CO 4 - The student shall understand the role of export and import at a societal level</p>
3	Elements of Commercial Portals	<p>Upon successful completion of this course students will be able to:</p> <p>CO 1 - Understand, analyze and apply the role of languages like HTML, DHTML,CSS, XML, JavaScript, VBScript, ASP, PHP and protocols in the workings of the web and web applications. Analyze a web project and identify its elements and attributes in comparison to traditional projects.</p>

		<p>CO 2 - Understand, analyze and create web pages using HTML, DHTML and Cascading Styles Sheets.</p> <p>CO 3 - Understand, analyze and build dynamic web pages using JavaScript and VB Script (client side programming).</p> <p>CO 4 - Understand, analyze and build interactive web applications.</p> <p>CO 5 - Understand, analyze and build web applications using PHP.</p> <p>CO 6 - Understand, analyze and create XML documents and XML Schema.</p>
4	Software Testing	<p>Upon successful completion of this course students will be able to:</p> <p>CO 1 - The course will help students to develop skills that will enable them to learn testing techniques and strategies.</p> <p>CO 2 - It will make the students learn about quality standards, quality planning, quality assurance and quality control.</p> <p>CO 3 - Understand fundamental concepts in software testing, including software testing objectives, process, criteria, strategies, and methods.</p> <p>CO 4 - Gain software testing experience by applying software testing knowledge and methods to practice-oriented software testing projects.</p>
5	STQA	<p>Upon successful completion of this course students will be able to:</p> <p>CO 1 - Students learn to apply software testing knowledge and engineering methods.</p> <p>CO 2 - Students understand and identify various software testing problems, and solve these problems by designing and selecting software test models, criteria, strategies, and methods.</p> <p>CO 3 - Students analyze and understand the use of software testing methods and modern software testing tools for their testing projects.</p> <p>CO 4 - Students identify defects and manage those defects for improvement in quality for given Software. Students learn to design SQA activities, SQA strategy, formal technical review report for software quality.</p>

6	Project	<p>To be able to apply some of the techniques/principles you have been taught</p> <p>co 1 - To carry out time planning for the project.</p> <p>co 2 - To follow correct grounding and shielding practices</p> <p>co 3 - To do effective trouble-shooting of the mini project.</p> <p>co 4 - To develop effective communication skill by delivering a seminar based on mini project</p> <p>co 5 - Demonstrate a thorough and systematic understanding of project contents.</p> <p>co 6 - Know the key stages in development of the project.</p> <p>co 7- Extend or use the idea in mini project for major project.</p>
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