

Program Name: **BCA**

Program specific Outcomes

A student completing this program will be able to

- **PSO1:** Identify the basic fundamentals of computers and to describe the application of computational technologies in the IT industry.
- **PSO2:** Understand and demonstrate the professional, ethical, legal, security, social issues and responsibilities in the usage of computer systems.
- **PSO3:** Ability to analyze, apply and evaluate the knowledge gained for solving realistic constraints using different programming languages including the concepts of object oriented programming, data structure and managing data efficiently.
- **PSO4:** Apply management principles, mathematical foundation in the development of computational solutions.
- **PSO5:** Design and develop computer programs individually or in a team for varied professional environments.
- **PSO6:** To demonstrate the technical content writing skills and Communicate effectively both in verbal and written form.
- **PSO7:** To acquire knowledge of ethics, human values and effective leadership skills from the life and contribution of various world leaders.
- **PSO8:** To equip with the scope and understanding of consultancy industry made up of large organizations operating globally, and other local and regional firms

Course outcomes for all courses offered by the department:

Semester	Course code	Course name	Course Outcomes Student completing this course is able to
1	BCA-1501	Introduction to Computers and Emerging Technologies	01: Describe the basic concepts of computers, Artificial Intelligence, Cloud Computing and the ethical aspects of using computers. 02: Identify types of Processors, types of memories Adapters and Buses. 03: Recognize the basic input and output devices of the Computer system. 04: Familiarize different computer codes and understand the representation of data in computer. 05: Recognize ports and buses.
1	BCA-1502	Programming Concepts with C	01: Discuss the concepts of Algorithm Development, Flow Chart and introduction to

			<p>programming languages and classification of computer language</p> <p>02: Acquire a basic understanding of the C Language</p> <p>03: Discuss the basic fundamentals of Console based I/O and related built-in I/O function</p> <p>04: Practice and demonstrate the basic fundamentals of C language operators and decision making</p> <p>05: Describe the working with control structure</p> <p>06: Describe and demonstrate the working with array</p> <p>07: Estimate the use and demonstrate of Character Arrays and Strings</p> <p>08: Estimate the use and demonstrate User Defined Functions</p>
1	BCA-1503	Internet and HTML	<p>01: To clarify about the internet and how computers are connected to it to change the world.</p> <p>02: To Acquire the concept of WWW, web browsers and hands on use of E-mail systems.</p> <p>03: To recognize the various aspects of internet security.</p> <p>04: To familiarize with the different basic html tags and list operations.</p> <p>05: To produce awareness about the tags used for table, forms and frames.</p> <p>06: To discuss various insights about HTML 5.</p>
1	BCA-1504	Basics Mathematics of	<p>01: To develop logical thinking and its application to computer science</p> <p>02: To familiarize students with set theory, linear Algebra, functions matrices and determinants</p> <p>03: To develop Concepts and notations from discrete mathematics are useful in studying and describing objects and problems in branches of computer science, such as computer algorithms, programming languages, etc.</p> <p>04: To understand matrices to solve and manipulate large data sets</p> <p>05: To understand the basic concepts of graphics using coordinate geometry.</p> <p>06: To get the knowledge about limits, differential and integral calculus.</p>

1	BCA-1505L	Programing Concepts with C (Practical)	<p>01: Discuss the concepts of Algorithm Development, Flow Chart and introduction to programming languages and classification of computer language</p> <p>02: Acquire a basic understanding of the C Language</p> <p>03: Discuss the basic fundamentals of Console based I/O and related built-in I/O function</p> <p>04: Practice and demonstrate the basic fundamentals of C language operators and decision making</p> <p>05: Describe the working with control structure</p> <p>06: Describe and demonstrate the working with array</p> <p>07: Estimate the use and demonstrate of Character Arrays and Strings</p> <p>08: Estimate the use and demonstrate User Defined Functions</p>
1	BCA-1506L	Internet & HTML Practicals	<p>01: State and interpret the hands on information about static web page designing using basic HTML tags.</p> <p>02: Implement the various list operations in a web page.</p> <p>03: Incorporate tables, frames, links and form designing required in a web page.</p> <p>04: Work with html-5 elements, audio, video and images.</p>
1	BCA-1507L	PC Software Practicals I	<p>01: Identify the use of computers in day to day life and also enlighten them how computers are essential components in business and society.</p> <p>02: Gain the knowledge about types of operating systems, different components of OS, also learn to create, edit, delete, rename, move the files and folders.</p> <p>03: Acquire hands-on use of Microsoft Office Word.</p> <p>04: Prepare a slide presentation using Text, Graphics and Animations.</p> <p>05: Apply formatings, validatations, summarizing the data, construct formulas, use inbuilt functions, prepare charts and also use the advanced features of excel.formulas, use inbuilt</p>

			functions, prepare charts and also use the advanced features of excel.
2	BCA-2501	Advanced Programing C	<p>01: Apply Complex data types structures and union in program development.</p> <p>02: Ability to develop programs using pointers.</p> <p>03: Describe the use of dynamic memory allocation and apply the concepts for the formation of linked list.</p> <p>04: Identify types of pre-processors directives and various memory models.</p>
2	BCA-2502	Dynamic HTML & XML	<p>01: Distinguish the basic as well as advanced features of CSS.</p> <p>02: Acquire the knowledge to develop the dynamic webpages using JavaScript.</p> <p>03: Inculcate the fundamentals of JQuery.</p> <p>04: Describe the use of XML in web site development.</p>
2	BCA-2503	Database Management System-I	<p>01: To illustrate the concept, role and importance of Database.</p> <p>02: To distinguish the elements of Database for real applications.</p> <p>03: To identify the key relationship between the Database components.</p> <p>04: To comprehend the type of relational model to apply according to the scenery of applications.</p> <p>05: To analyse the real functions of Database Management Software.</p>
2	BCA-2504	Mathematical Foundation of Computer Science	<p>01: To describe Group theory.</p> <p>02: To recognize the concepts of various Algebraic structures.</p> <p>03: To discuss Lagrange's theorem.</p> <p>04: To investigate the various types of Relations and Ordering.</p> <p>05: To describe the construction of Hasse diagrams.</p> <p>06: To illustrate about various types of Lattices.</p> <p>07: To identify Boolean Algebra and canonical forms</p> <p>08: To clarify the Graph theory.</p> <p>09: To identify various Graphs and its representations.</p> <p>10: To discuss various types of Trees and its representations.</p>

2	BCA-2505L	Advanced Programming Practicals	C	<p>01: Develop programs using enumerated data types, function structures and Unions.</p> <p>02: Demonstrate the use of pointers through C programming</p> <p>03: Implement linked list using dynamic memory allocation</p> <p>04: Implement file Operations in C programming</p>
2	BCA-2506L	Dynamic HTML & XML Practicals		<p>01: Apply the basic as well as advanced features of CSS to develop the websites.</p> <p>02: Develop the dynamic webpages using JavaScript.</p> <p>03: Implement the fundamentals of Jquery for webpage development.</p> <p>04: Make the use of XML in web site development.</p>
2	BCA-2507L	Database Systems-I (Practicals)		<p>01: To gain the knowledge of various tools of MS Access.</p> <p>02: To develop skills for effective use of the MS Access tools.</p> <p>03: To make students familiar with basic as well as advance features of MS Access</p> <p>04: To understand how to use the database in day to day life.</p> <p>05: To understand what is SQL and how to use it to work with the database.</p>
3	BCA-3501	Computer Organisation And Advanced Microprocessor		<p>01: Describe the internal architecture and organization of components in a computer system.</p> <p>02: Analyse functions of different components of computers.</p> <p>03: Demonstrate various types of digital circuits and their use.</p> <p>04: Create basic digital circuit using logic gates by applying Boolean algebraic expressions and truth tables. (On paper)</p> <p>05: Illustrate how computers store data internally using different arithmetic operations by following IEEE standard 754 for data representation.</p> <p>06: Categorize the various memory types and their working and arrangement in computer systems.</p>

			07: Discuss microprocessor's working architecture and latest microprocessors for both computers and mobile.
3	BCA-3502	Data Structures	<p>01: Acquire the basic understanding and working of Data Structures</p> <p>02: Discuss the concept of the Array, Linked list and various algorithms for data structure.</p> <p>03: Clarify the concept of the Searching, Sorting and various algorithms for data structure</p> <p>04: Acquire the basic understanding and working idea of the stack, operations of the Stack with Algorithm and Explanation</p> <p>05: Acquire the basic understanding and working idea of the queue, types of queue, operations with Algorithm and Explanation</p> <p>06: Clarify the concept of the tree, terminology, binary tree definition, representation of binary tree, operations on binary tree, types of binary tree with Algorithm and Explanation</p> <p>07: Distinguish the concept of the graph, basic terminology, representation of graphs, adjacency Matrix (Array), adjacency linked, traversal of the graph, application of graph, spanning tree with Algorithm and Explanation</p>
3	BCA-3503	Object Oriented Concepts And Programming	<p>01: To differentiate the procedural programming and object oriented programming.</p> <p>02: To describe the basic fundamentals of object oriented programming such as class, objects, polymorphism, inheritance, encapsulation etc.</p> <p>03: To describe the working with variables and also to discuss various types of functions and data members.</p> <p>04: To describe how to initialize variables inside class using constructors and also the usage of destructor.</p> <p>05: To demonstrate the allocation and deallocation of memory in c++.</p> <p>06: To understand the use of advanced features of C++ such as templates, Virtual function, function overloading and operator overloading.</p>

3	BCA-3504	Fundamentals of Operating Systems	<p>01: Clarify the basic understanding of the Operating system.</p> <p>02: Describe the concepts of process and can practice various process Scheduling Algorithms.</p> <p>03: State and interpret the role of Process Synchronization in increasing throughput of the system and can practice various deadlock concepts for handling deadlock</p> <p>04: Describe the techniques of memory management.</p> <p>05: Describe the concept of the device management and can practice algorithms for device handling seek strategies.</p> <p>06: Clarify the file system concept and can recognize security issues with the system.</p>
3	BCA-3505	Statistical Computing	<p>01: Describe the use of statistical methods to solve the real world problems.</p> <p>02: Acquire the knowledge of measure of central tendency.</p> <p>03: Solve the statistical problems of measure of dispersion.</p> <p>04: Implement the different methods of correlation and regression to solve the problems.</p> <p>05: Distinguish the concept of probability</p>
3	BCA-3506L	Data Structure Practicals	<p>01: Implement linked list using dynamic memory allocation</p> <p>02: Implement various searching and sorting algorithms using c language.</p> <p>03: Develop programs in c to demonstrate the implementation of various operations on stack and queue.</p> <p>04: Design non-linear data structures trees and Graphs, and implement their operations</p>
3	BCA-3507L	Object Oriented Concepts And Programing Practical's	<p>01: Develop solutions for a range of problems using function overloading and default arguments</p> <p>02: Develop solutions for a range of problems using access specifiers, objects and classes.</p> <p>03: Write, compile and run the C++ programs based on dynamic memory management methods, constructors, destructors and operator overloading.</p>

			<p>04: Describe and interpret fundamental algorithmic problems including type casting, inheritance, and polymorphism.</p> <p>05: Apply generic programming, templates, and file handling methods to make the code more maintainable.</p>
4	BCA-4501	Database Management System-II	<p>01: Acquire the basic concept and understanding of structured query language (SQL), Data Definition and manipulation Commands, Aggregate functions and view.</p> <p>02: Analyse and manage the need of business intelligence, data warehouse, Online Analytical Processing and Data Mining.</p> <p>03: Acquire the detailed understanding of the Distributed Database Management System with Levels of Data and Process Distribution and Introduction to Distributed Database Transparency Features in detail.</p> <p>04: Distinguish different methods of Advance SQL like Set Operators, types of SQL Join, different types of SQL Functions</p> <p>05: Distinguish different methods of Advance SQL like Subqueries, different types of Subquery Operators and Sequence.</p>
4	BCA-4502	Visual and Windows Programming	<p>01: To recognize the concepts of program design and to describe the features of Integrated Development Environment precisely.</p> <p>02: To understand the features of .Net framework.</p> <p>03: To understand the basic workings of various controls with their properties and methods.</p> <p>04: To demonstrate the basic concepts of VB.Net including the concepts of variables, decision making and looping constructs.</p> <p>05: To describe the better manipulation of string.</p> <p>06: To work with menus, dialog boxes, arrays and methods efficiently.</p>
4	BCA-4503	Core Java	<p>01: Clarify the concept of Object Oriented Programming and describe the basic concepts of Java Programming Language, creation of the class and its objects.</p> <p>02: Describe the concepts of looping, String, Arrays and Wrapper classes.</p>

			<p>03: Clarify the concepts of Exception handling techniques, Inheritance and Interface.</p> <p>04: Describe the concepts of Package, Multithreading and Applet</p>
4	BCA-4504	Object Oriented System Analysis and Design	<p>01: Understand how a software development process takes place in the IT industry and which models they use.</p> <p>02: What are the different stages of software development process like 'user requirement, collecting data, analysis of data, system design, system testing' and 'implementation' and also learn their importance.</p> <p>03: Learn different methods to collect data for the system.</p> <p>04: Draw data flow diagram where they can shows how data flows in the system from one module to another.</p> <p>05: Design data dictionary</p> <p>06: Identify main entities of a software and how entities interact with the processes and how processes interact with the database.</p> <p>07: Analyze system requirement specifications and after that prepare a design of the system.</p> <p>08: Study various feasibility study and decide that the project is feasible or not.</p> <p>09: Understand the concept of Object oriented modeling and approach along with the Pillars of OOAD</p> <p>10: Use of various UML and draw a specific UML for one particular stage of software development process.</p>
4	BCA-4505L	Database Management System - II Practicals	<p>01: Acquire the basic concept and understanding of structured query language (SQL), Data Definition and manipulation Commands</p> <p>02: Demonstrate the basic concepts of structured query language (SQL), advanced data definition commands data definition and manipulation Commands, perform select queries on different tables with different operators.</p> <p>03: Explain and demonstrate different methods of Advance SQL like aggregate functions, set operators and different types of join.</p>

			<p>04: Explain and demonstrate the use of SQL functions using SQL query on different tables: Date and Time, Numeric, String, Conversion and sub queries on different tables.</p> <p>05: Demonstrate the use of Creating, deleting sequences.</p>
4	BCA-4506L	Visual and Windows Programming Practicals	<p>01: To implement the properties and methods of various controls available.</p> <p>02: To demonstrate the basic concepts of VB.Net including the concepts of variables, decision making and looping constructs effectively.</p> <p>03: To apply the basic concepts of visual basic such as arrays, functions and procedures</p> <p>04: To apply the better manipulation of string.</p> <p>05: To efficiently demonstrate the working of menus, dialog boxes, arrays and methods.</p>
4	BCA-4507L	Core Practicals JAVA	<p>01: Apply the various concepts of java in the development of basic java programs with or without use of the objects</p> <p>02: Develop programs by using the concepts of java loop constructs, String, Arrays and Wrapper classes.</p> <p>03: Create the programs by using the concepts of Exception handling, Inheritance and Interface.</p> <p>04: Apply the concepts of package and multithreading in the program development and also demonstrate the use of java applets in web pages.</p>
5	BCA-5501	Open Source Operating Systems	<p>01: Acquire the basic understanding of the Linux operating system and Introduction to Ubuntu and various configuration steps for adding various hardware components, email, and messenger.</p> <p>02: Understand the various ways for securing Ubuntu computer system and personalizing Ubuntu computer system.</p> <p>03: Acquire the basic knowledge of file management by understanding various file system concepts.</p> <p>04: Understand the various commands to work with the text files and controlling</p>

			the system as well as Introduction to Multimedia.
5	BCA-5502	Advanced Visual & Windows Programming	<p>01: To describe the fundamentals of VB.Net project using object oriented concepts effectively.</p> <p>02: To demonstrate the usage of various controls and the structured handling of exceptions.</p> <p>03: To apply the fundamentals of working with different types of files, string manipulation and to describe the workings with date, time and numbers</p> <p>04: To describe the better managing of objects using collection as well as arraylist.</p> <p>05: To create applications using windows application forms with database connectivity using ADO.Net</p> <p>06: To understand the importance and generation of crystal reports.</p>
5	BCA-5503	Data Communication & Networking	<p>01: Describe computer network basics, network architecture, TCP/IP and OSI reference models.</p> <p>02: Identify and understand various techniques and modes of transmission, transmission error detection and correction mechanisms</p> <p>03: Describe data link protocols, multi-channel access protocols and IEEE 802 standards for LAN</p> <p>04: Analyse the elements and protocols of transport layer</p> <p>05: Describe different advanced network technologies and different internetworking devices that can be used to connect different networks.</p>
5	BCA-5504L	Open Source Operating Systems Practicals	<p>01: Implement the basic Linux general purpose commands.</p> <p>02: Apply file management commands and write Linux shell scripts using various commands.</p> <p>03: Acquire the basic understanding of various filter commands and develop shell scripts using various filter commands.</p> <p>04: Understand compression and decompression of files, environment variables and communication commands.</p>

5	BCA-5505L	Advanced Visual & Windows Programming Practicals	<p>01: To implement the fundamental structure of VB.Net project using object oriented concepts effectively.</p> <p>02: To develop applications applying the concepts of structured exception handling.</p> <p>03: To implement the fundamentals of working with different types of files, string manipulation and to describe the workings with date, time and numbers.</p> <p>04: To describe the better managing of objects using collection as well as arraylist.</p> <p>05: To develop applications with database connectivity using ADO.Net and generation of crystal reports.</p>
5	BCA-5506L	Software Development. Project Part-1	<p>01: To analyse in depth the existing as well as the proposed system.</p> <p>02: To prepare the blueprint of any real time system using various diagrams such as DFD, ERD and UML diagrams.</p> <p>03: To create the datastore and normalize them by identifying the relationships between the different data tables.</p> <p>04: To improve their communication as well as presentation skills.</p> <p>05: To achieve the goal within the given time constraint.</p> <p>06: To manage the team work effectively</p>
6	BCA-6501	Web-Site Development-1 (ASP.NET)	<p>01: To recognize the concepts and workings of web applications.</p> <p>02: To understand the IDE and the features of .Net framework.</p> <p>03: To demonstrate the working of web page, web controls and code behind feature.</p> <p>04: To learn how to develop the web page, validating different controls and authoring user controls.</p> <p>05: To understand the concepts of intrinsic objects and to demonstrate the workings of files.</p> <p>06: To understand the connectivity with database using ADO.Net and also report generation.</p>

6	BCA-6502	Database Administrator	<p>01: Describe of Oracle Architecture, Administering Databases and Tablespace , Creating Database and Tablespaces</p> <p>02: Give an outline of how to Manage physical files and administering users, privileges and roles</p> <p>03: Generalize the concepts and usage of indexes and cluster</p> <p>04: Explain the concepts Optimizing Database Performance</p> <p>05: Discuss the concepts how to take backup and use for recovery</p>
6	BCA-6503	E-Commerce	<p>01: To develop an understanding of scope of E-Commerce.</p> <p>02: Internet trading relationships including Business to Consumer, Business-to- Business, Intra-organizational.</p> <p>03: To develop an understanding of electronic market and market place.</p> <p>04: To develop an understanding of business models.</p> <p>05: Assess electronic payment systems.</p> <p>06: Recognize and discuss global E-commerce issues.</p> <p>07: To develop an understanding of legal issues, threats of E-Commerce.</p>
6	BCA-6504L	Web-Site Development-1 (ASP.NET) Practicals	<p>01: Apply the concept of Global.asax, webcontrols in the development of the webpages for displaying and formatting data</p> <p>02: Develop webpages with the help of various controls.</p> <p>03: Develop dynamic webpages to access data stored in databases by using Microsoft ADO.NET.</p> <p>04: Create a web application which shows interaction between front end and database by using .NET platform</p> <p>05: Apply the concept of the master page and File I/O. in the development of web applications.</p>
6	BCA-6505L	Multimedia Tools (Practical)	<p>01: Implement the different elements of multimedia.</p> <p>02: Draw the attractive objects and designs using different tools.</p>

			<p>03: Describe and familiarise with 2D and 3D Animation environments.</p> <p>04: Make the animated advertisement, presentations, movie clips, and visual elements on the basis of their imagination.</p> <p>05: Implement the interactivity in their applications with the help of action script.</p>
6	BCA-6506L	Software Development Project-Part 2	<p>01: To gain the knowledge of the new technology and explore the existing technology in depth.</p> <p>02: To achieve the desired output of the proposed system by dividing the modules in group and collaborate their modules among team members.</p> <p>03: To design the interface and implement the code.</p> <p>04: To test their code in order to make the system error free and meet the needs of the conducted analysis.</p> <p>05: To generate reports and provide the organization with neccesary information.</p> <p>06: To gain an experience of working in live environment.</p>
1	EG-1312	Learning from world leaders	<p>01: Identify personal life goals, strengths and weaknesses</p> <p>02: Understand that Ethics, values and morals lead to effective Leadership</p> <p>03: Develop self-confidence and leadership competence in each student</p> <p>04: Inculcate willingness to contribute to societal development</p> <p>05: Gain historical knowledge and major contributions of world leaders</p> <p>06: Recognize the contributions of both male and female leaders and understand that both genders contribute towards the growth of a society.</p>
2	EG-2301	Environmental Studies	<p>01: The discipline provides basic knowledge of the environment and their significance.</p> <p>02: To aware the students about renewable and non-renewable resources.</p> <p>03: To understand about our ecology and our food system.</p>

			<p>04: Briefing about various biodiversity present in India.</p> <p>05: Give knowledge about different types of pollution and how they affect us.</p> <p>06: To make aware about social issues related to poverty, literacy rate.</p> <p>07: To make aware about How human population can affect human health and environment.</p>
3	EG-3311	Soft Development Skill	<p>01: State the need of soft skills for today's world.</p> <p>02: To recognize the need for personality growth and development for a better life and a better world.</p> <p>03: Anticipating, understanding, preparing and dealing with change.</p> <p>04: To regulate the way time is spent by identifying and eliminating time wasters.</p> <p>05: To recognize and identify the causes of stress and learning techniques to manage them.</p> <p>06: List the importance and types of reading.</p> <p>07: Explain the techniques of SQ3R by practicing comprehension.</p> <p>08: Present the importance and methods of writing better.</p> <p>09: To skillfully write formal and informal letters.</p>
1	FC-1033	Communication Skills	<p>01: Understand the process of communication and its importance</p> <p>02: Learn to communicate professionally (oral, written and listening)</p> <p>03: Develop interpersonal skills and maintain healthy relationships</p> <p>04: Participate effectively in group and class discussions</p> <p>05: Improve vocabulary</p>
5	BCA-5401	Software Project Management	<p>01: Familiarize with the characteristics of a project, project management overview risk in environment and the management of challenges for effective project management.</p> <p>02: Understand and use the project planning principles across all phases of a project.</p> <p>03: Demonstrate competency in the management of a project plan, especially in</p>

			<p>monitoring and controlling a project schedule and budget, tracking project progress.</p> <p>04: Acquire the knowledge to understand how to manage the quality of project.</p> <p>05: To understand the need of project management and project management life cycle.</p>
5	BCA-5402	Python for Big Data and Machine Learning-I	<p>01: To get an introduction of Python Programming</p> <p>02: To understand the syntax and semantics of writing algorithms and programs in Python.</p> <p>03: To learn how to make use of Function, Lists and strings.</p> <p>04: To get acquaintance with the processing of Files and usage.</p>
6	BCA-6404	Python for Big Data and Machine Learning-II	<p>01: To learn about Comprehension and map in Dictionaries</p> <p>02: To learn about filtering of Lists and Dictionaries.</p> <p>03: To understand the concept of Exception handling.</p> <p>04: To get acquaintance with Classes and Objects.</p> <p>05: To learn about Address class and its various methods.</p> <p>06: To learn the various approach of data science in python.</p> <p>07: To get familiar with iterators, generators and decision trees.</p> <p>08: To study about GUI in python and information of TKInter.</p> <p>09: To learn the creation of various widgets and buttons.</p> <p>10: To get familiar with few animation games.</p>
1	EG-1311	Culture & Civilization	<p>01: To introduce the students the basic concepts of Culture and Civilization</p> <p>02: To acquire knowledge about Indian Culture with special reference to business</p> <p>03: Familiarize about Organizational and Corporate Culture.</p>
4	EG-4312	Consultancy Skills	<p>01: Describe basics of Consultancy</p> <p>02: Develop business plan</p> <p>03: Manage and grow the consulting firm</p> <p>04: Identify major practice areas in consulting</p>

2	FC-2033	General English	<p>01: Familiarize students with the best samples of writings in English so that they can learn the structure of the language as it is used creatively.</p> <p>02: To orient students to social and cultural issues.</p> <p>03: Identify the distinct sounds in English words</p> <p>04: Write sentences adhering to tense rules and Correct common errors such as punctuation</p>
3	FC-3033	Principles of Management	<p>01: Acquire the knowledge of Management Process</p> <p>02: Analyse effective application of Principles of Management knowledge to diagnose and solve organizational problems and develop optimal managerial decisions</p> <p>03: Determine the most effective action to take in specific situations</p> <p>04: Demonstrate the roles, skills and functions of management</p>
4	FC-4033	Interpersonal Skills	<p>01: Understand and choose values for their personal lives and set realistic goals for their life.</p> <p>02: Manage conflicts in efficient way.</p> <p>03: Make ethical decisions.</p> <p>04: Practice time management and solve problems related to it.</p> <p>05: Understand leadership skills and styles and build efficient teams.</p> <p>06: Using negotiations, resolving conflicts effectively.</p> <p>07: Appreciate and respect cultural differences and develop cross culture communication skills.</p>
5	FC-5033	Management Information System	<p>01: To familiarize with the concepts, tools and practices of management information system.</p> <p>02: To understand what is need of decision support system and knowledge management system in an enterprise.</p> <p>03: To have experience of real world problems through case studies</p>
6	FC-6301	Enterprise Resource Planning	<p>01: To comprehend the technical aspects of ERP systems.</p>

			02: To learn concepts of reengineering and how they relate to ERP system implementations. 03: To understand the success and failure factors of ERP implementation. 04: To understand the steps and activities in the ERP life cycle. 05: To identify and describe typical functionality in an ERP system.
6	FC-6311	Mobile Application Development	01: To understand how mobile network works. 02: To understand the process of developing software for the mobile device. 03: To create simple mobile applications on the Android Platform.
5	FC-5311	Software Project Management	01: To get familiar with the characteristics of a project, project management overview, risk in environment and the management of challenges for effective project management. 02: To understand and use the project planning principles across all phases of a project. 03: To demonstrate competency in the management of a project plan, especially in monitor and controlling a project schedule and budget, tracking project progress. 04: To understand how to manage the quality of project.
4	EG-4311	History of Gandhian Movement	01: To know the principles followed by Gandhiji 02: Acquire basic knowledge of to understand how he involved in Satyagraha movement. 03: Recognize the way how he dealt with injustice done by the British Government before Independence 04: Familiarize with the life and works of Gandhiji. 05: To develop Leadership Skills.
6	BCA-6403	Information And Network Security	01: Describe the fundamentals of Cryptography 02: Describe standard algorithms used to provide confidentiality, integrity and authenticity. 03: Explain the various key distribution and management schemes. 04: Explain how to deploy encryption techniques to secure data in transit across data networks

			05: Design security applications in the field of Information technology.
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Course offered to BA and BSc.

1	CA-1101	Computer Fundamentals and Applications	<p>01: Understand the use of Microsoft tools.</p> <p>02: Demonstrate use of features to make professional documents.</p> <p>03: Demonstrate the use of mail merge.</p> <p>04: Demonstrate that how to prepare presentation with animation and various effects.</p> <p>05: Identify the hardware components of computer.</p> <p>06: Understand working of computer system.</p>
1	CA-1102	Operating System & Business Data Processing	<p>01: Understand the concepts of markup language.</p> <p>02: Acquire a basic understanding of the HTML</p> <p>03: To describe the basic fundamentals of web designing with HTML</p> <p>04: To describe and demonstrate the basic fundamentals of HTML tags.</p> <p>05: To describe the working with HTML tags to create web pages and website.</p>
1	CA-1201	Internet Technology, Terminology & HTML	<p>01: Understand the concepts of markup language.</p> <p>02: Acquire a basic understanding of the HTML</p> <p>03: To describe the basic fundamentals of web designing with HTML</p> <p>04: To describe and demonstrate the basic fundamentals of HTML tags.</p> <p>05: To describe the working with HTML tags to create web pages and website</p>
2	CA-2101	Data Base Management Systems	<p>01: Understand the concepts of Database at primary level for storing, retrieving and manipulating data using navigation facility and SQL</p> <p>02: Explore more for entering, organizing and displaying result using FORMS and REPORTS.</p>
2	CA-2102	Networking & HTML	<p>01: Get familiar about basic networking terminology widely used in the market for building small computer network</p> <p>02: To familiarize with the different basic html tags and list operations.</p> <p>03: Design and develop web pages using HTML tags and its attributes</p>

2	CA-2201	Multimedia & Front Page	<p>01: Now student is aware with web designing, How to create animation, how to create webpage/website easy. How to insert/modify/delete image, text data using tools.</p> <p>02: Student can connect with the digital and printing world.</p>
3	CA-3101	Introduction to Cyber Security & Multi Media	<p>01: Student will get awareness about cyber security and would become smart online, understanding the importance of data privacy and protecting data. They would have explored the features of Multimedia software – Photoshop by creating Brochures, Information Bulleting, Advertisement, Pamphlets designed for the Web as well.</p>
3	CA-3102	Open Source and Multi Media	<p>01: Students would be able to create an advertisement to promote the products online also get aware to create websites with animated graphics. Intensive interfaces.</p>
4	CA-4101	DTP Application & Internet Technology	<p>01: Understand the practical approach of the DTP Software and manage to implement the exercises using PageMaker tools.</p> <p>02: Design and create various media publications such as Newsletters, Brochures and Catalogues including Web publishing.</p> <p>03: Would be able to use Google Applications and obtain basic understanding about internet and it's applications.</p>
4	CA-4102	CMS For Website Development	<p>01: Understand and use the open source Content manager - WordPress blogging platform</p> <p>02: Install, setup and customize the WordPress and manage the contents and blogs using WordPress</p>
1	CA-1501	Problem Solving & C Programming	<p>01: Understand the concepts of Algorithm Development, Flow Chart and introduction to programming languages and classification of computer language</p> <p>02: Acquire a basic understanding of the C Language</p> <p>03: To describe the basic fundamentals of Console based I/O and related built-in I/O function</p> <p>04: To describe and demonstrate the basic fundamentals of C language</p>

			<p>operators and decision making</p> <p>05: To describe the working with control structure</p> <p>06: To describe and demonstrate the working with array</p> <p>07: To understand the use and demonstrate of Character Arrays and Strings</p> <p>08: To understand the use and demonstrate User Defined Functions</p>
1	CA-1502L	C Programming Practicals	<p>01: Understand the concepts of Algorithm Development, Flow Chart and introduction to programming languages and classification of computer language</p> <p>02: Acquire a basic understanding of the C Language</p> <p>03: To describe the basic fundamentals of Console based I/O and related built-in I/O function</p> <p>04: To describe and demonstrate the basic fundamentals of C language operators and decision making</p> <p>05: To describe the working with control structure</p> <p>06: To describe and demonstrate the working with array</p> <p>07: To understand the use and demonstrate of Character Arrays and Strings</p>
2	CA-2501	Advanced Programming	<p>C</p> <p>01: Understand the concepts of Structure and Union and how to use them in C programming</p> <p>02: Acquire a basic concept of pointers and its functionality.</p> <p>03: To describe the basic fundamentals of Console based I/O and related built-in I/O function</p> <p>04: To describe and demonstrate the basic fundamentals dynamic memory allocation and linked list.</p> <p>05: To describe the various operations on linked list</p> <p>06: To describe and demonstrate file handling using C programming</p> <p>07: To understand the use of pre-processors in programming</p>

2	CA-2502L	Advanced Programming Practicals	C	<p>01: Understand the concepts of Structure and Union and how to use them in C programming</p> <p>02: Acquire a basic concept of pointers and its functionality.</p> <p>03: To describe the basic fundamentals of Console based I/O and related built-in I/O function</p> <p>04: To describe and demonstrate the basic fundamentals dynamic memory allocation and linked list.</p> <p>05: To describe the various operations on linked list</p> <p>06: To describe and demonstrate file handling using C programming</p> <p>07: To understand the use of pre-processors in programming</p>
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