

<b>Department of Computer Application</b>		
<b>BCA : I Semester</b>		
<b>S. No.</b>	<b>Course Code</b>	<b>Course Outcome</b>
<b>1.</b>	<b>BCA 101</b>	<ol style="list-style-type: none"> <li>1. Analyze the fundamentals of C programming</li> <li>2. To create the loops and decision-making statements to solve the problem.</li> <li>3. To create different Operations on arrays.</li> <li>4. To create functions to solve the given problem.</li> <li>5. To design pointers, structures and unions</li> </ol>
<b>2.</b>	<b>BCA 102</b>	<ol style="list-style-type: none"> <li>1. Bridge the fundamental concepts of computers with the present level of knowledge of the students.</li> <li>2. To apply logic circuits and Boolean algebra forms in digital computer.</li> <li>3. To apply binary, hexadecimal and octal number systems and their arithmetic.</li> <li>4. To analyze operating systems, programming languages, peripheral devices, networking, multimedia and internet</li> </ol>
<b>3.</b>	<b>BCA 103</b>	<ol style="list-style-type: none"> <li>1. To apply the basic concepts of sets.</li> <li>2. Evaluate the recurrence relation and solving recurrence relation.</li> <li>3. Evaluate the algebraic structure and group theory that serve as an essential tool for applications of computer and information sciences.</li> <li>4. Developing the relevance of statements, inferences and predicates in computer science.</li> <li>5. Write an argument using logical notation and determine if the argument is or is not valid.</li> </ol>
<b>4.</b>	<b>BCA 104</b>	<ol style="list-style-type: none"> <li>1. Design and develop communication process and barriers to communication and effective Presentations.</li> <li>2. Develop skills for Verbal and Non-verbal communication.</li> <li>3. Demonstrate how the organizational behavior can integrate in understanding the motivation (why) behind behavior of people in the organization.</li> <li>4. Develop how individual personality, Attitudes, perception and learning impacts the typical contemporary work experience.</li> <li>5. Discuss and implement strategies for managing conflict and negotiation in the workplace</li> </ol>
<b>BCA : II Semester</b>		
<b>S. No.</b>	<b>Course Code</b>	<b>Course Outcome</b>

1.	BCA 201	<ol style="list-style-type: none"> <li>1. To analyze the concepts of complexity and be able to apply operations on array and stack.</li> <li>2. To apply the Conversion of Infix to Prefix and Evaluation of postfix expression using stack</li> <li>3. To be able to apply the concept of Queues and Linked List</li> <li>4. To be able to apply Searching method</li> <li>5. To apply Sorting: Insertion sort, merge sort, Heaps and heap sort, Quick sort, linear sort, priority queue, order statistics, lower bounds for sorting</li> </ol>
2.	BCA 202	<ol style="list-style-type: none"> <li>1. To be able to analyze the concept of oops</li> <li>2. To be able to apply class ,constructor ,object ,this pointer in C++</li> <li>3. To be able to apply C++ features such as composition of objects, Operator overloading, inheritance, Polymorphism etc.</li> <li>4. Be able to apply virtual functions in Polymorphism, Dynamic binding, Virtual destructors in C++</li> <li>5. Analyze C++ Stream I/O</li> </ol>
3.	BCA 203	<ol style="list-style-type: none"> <li>1. Analyze the concepts of analog to digital communication and OSI model.</li> <li>2. Analyze Polling/Selection, Switching and routing in Network</li> <li>3. To analyze the initial phases of the SDLC using analytical tools</li> <li>4. To analyze The X.25 &amp; Digital Networks.</li> <li>5. To be able to analyze the personal computers as server linking the personal computer to mainframe computers.</li> </ol>
4.	BCA 204	<ol style="list-style-type: none"> <li>1. To apply different conversion technique of number systems.</li> <li>2. To compare logic families of logic gates in the domain of economy, performance and efficiency.</li> <li>3. To be able to analyze different types of digital electronic circuit using various mapping and logical tools</li> <li>4. Apply the fundamental knowledge of analog and digital electronics to get different types analog to digitalized signal.</li> <li>5. To analyze the nomenclature and technology area of memory devices and apply the memory devices in different types of digital circuits.</li> </ol>

**BCA : III Semester**

S. No.	Course Code	Course Outcome
1.	BCA 301	<ol style="list-style-type: none"> <li>1. To prepare the student to solve algebraic and transcendental equation by the numerical method.</li> <li>2. To prepare the student to use interpolation techniques for a given tabulation data</li> <li>3. To prepare the students to use numerical techniques to solve ordinary differential equation and integration</li> </ol>
2.	BCA 302	<ol style="list-style-type: none"> <li>1. To identify different issues involved in the design and implementation of a database system</li> </ol>

		2. To explain the physical and logical database designs, database modelling, relational, hierarchical, and network models.
		3. To apply the database languages to query, update, and manage a database.
		4. To develop an understanding of essential DBMS concepts such as: database security, integrity, concurrency
		5. To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modelling, designing, and implementing a DBMS.
3.	BCA 303	1. To discover advanced knowledge of formal computation and its
		2. Distinguish different computing languages and classify their respective types.
		3. Recognize and comprehend formal reasoning about languages.
		4. Illustrate a competent understanding of the basic concepts of complexity theory.
4.	BCA 304	1. Need of management in organizations. Functions of Management and to be an effective manager.
		2. Understanding the organizational hierarchy For the purpose of delegation of authority and responsibility. Knowledge of how an organisation functions.
		3. Manage teams, gain insights into interpersonal dynamics. Managing people at the workplace
		4. Motivate the subordinates, peers and teams. Knowing the rules and procedures of Selection, Training and evaluation of employees
<b>BCA : IV Semester</b>		
<b>S. No.</b>	<b>Course Code</b>	<b>Course Outcome</b>
1.	BCA 401	1. To analyze the role and responsibilities of OS in the computer system.
		2. To analyze how the OS deals with process management, memory management and secondary storage management.
		3. To analyze process synchronization and deadlocks.
		4. To apply the knowledge about OS, Linux operating system case study.
		5. To apply the algorithms for better utilization of external memory
2.	BCA 402	1. To analyze the knowledge of programming terminology and how to apply using VisualBasic.
		2. Develop a Graphical User Interface (GUI) based on problem description.
		3. To develop an Event Planning Chart based on problem

		description.
		4. To develop an Algorithm to verify processing.
		5. To develop programs that retrieve input from a file as opposed to input only provided by user
3.	BCA 403	1. To become aware of the Software Product.
		2. To increase the proficiency in Software Project Management
		3. To develop an Event Planning Chart based on problem description
		4. To gain practical experience in Requirements Engineering.
		5. To acquire the background of Software Architecture.
4.	BCA 404	1. To recognize and describe about the working of Computer Networks.
		2. Illustrate reference models with layers, protocols and interfaces.
		3. Summarize functionalities of different Layers
		4. Distinguish functionalities of different Layers.
		5. Model the LAN and WAN configuration using different media.
<b>BCA : V Semester</b>		
<b>S. No.</b>	<b>Course Code</b>	<b>Course Outcome</b>
1.	BCA 501	1. To be able to analyze graphical components and display techniques used in modern digital computer system.
		2. To be able to analyze input techniques used in graphical user interface.
		3. To be able to apply mathematical algorithm to construct basic graphical components.
		4. To be able to analyze and apply the concept of curve and clipping.
		5. To be able to analyze and evaluate 2D, 3D transformation and animation.
2.	BCA 502	1. Analyze the role of different protocols and tools needed for the web development process.
		2. Analyze the use of different HTML tags and web layout for website development.
		3. Analyze the use of JavaScript, JSP in the dynamic web page creation.
		4. Design interactive web page(s) using HTML, CSS and JavaScript, DHTML.
		5. Analyze the Data Base related operations and its use in web development and Analyze the role of XML, DHTML in web development process.
3.	BCA 503	1. To analyze the basic concepts and technologies used in the field of management information systems.
		2. To be able to analyze the role of the ethical, social, and security issues of information systems
		3. To be able to analyze the role of information systems on

		strategic management processes in organization.
		4. To illustrate how various information systems like DBMS work together to accomplish the information objectives of an organization.
4.	BCA 504	1. Validate form data using server-side Validation controls.
		2. Create dynamic Web applications that interact with a database using server-side programming.
		3. Integrate selected advanced topics in a DOT NET project create re-usable server components to retrieve data from SQL Server using stored procedures.
		4. Create re-usable server components to retrieve data from SQL Server using stored procedures and DOT NET.
<b>BCA : V Semester</b>		
<b>S. No.</b>	<b>Course Code</b>	<b>Course Outcome</b>
1.	BCA 601	1. To analyze Problem solving skills of real life problem
		2. To analyze the basic concepts of programming in C#.
		3. To be able to analyze the developing and debugging software in Visual Studio.
		4. To be able to apply use of C# basics, Objects and Types, Inheritance.
		5. To develop, implement and create Applications with C#.
2.	BCA 602	1. To be able to analyze the concepts of risk, threats, vulnerabilities and attack.
		2. To be able to determine the important ethical and legal issues considered in computer security.
		3. To analyze the architecture of public and private key cryptography.
		4. To analyze the methods of digital signature and encryption
		5. To analyze security protocols of Network layer at different layers hierarchy.