COURSE- BCA

Program Outcome(PO)

PO **After completing the three year degree program ,students will be able to Attain employability skills to serve Software, IT industry and government sector and can also open their own venture in the area of hardware, software and networking.**

Program Specific Outcome(PSO)

PSO **After Completing Bachelor of Computer Applications, the student will be able to demonstrate the deep and analytical understanding of the course. It will prepare students to provide professional solutions to real time problems and attain skills to work with the latest technologies and programming languages.**

Course Outcomes

I Year- Semester-I

Course: BCA-111 Computer and Programming Fundamentals

CO-111 **Understand the complete fundamental of Computer System**

Course:BCA-112 Windows and PC Software

CO-112 **Includes Windows and its Features including Windows Accessories and complete knowledge of Ms- Office.**

Course:BCA-113 Mathematical Foundation-I

CO-113 **Applications of Sets and differential equations.**

Course:BCA-114 Logical Organisation of Computer-I

CO-114 **Understand Number System, Logic Gates and various Combinational circuits**

Course:BCA-115 English

CO-115 **Improve LSRW-listening, speaking, reading and writing skills and the related sub-Skills.**

Course:BCA-116 Programming in C

CO-116 **Knowledge of Operators, Data types, Array, Functions and can develop programs in C language.**

I Year- Semester-II

Course: BCA-121 Advance Programming in C

CO-121 **Understand memory management using pointers and Design programs using the concept of dynamic memory allocation using pointer and pointer o pointer**

Course: BCA- 122 Logical Organization of Computer-II

CO-122 **Understand and Apply Flip-Flops. Also design Sequential Circuits, registers, counters**

Course: BCA- 123 Mathematical Foundation-II

CO-123 **Understand Equivalence and implications, Laws of logic, Mathematical system, Proposition over a universe, Mathematical induction, Quantifiers**

Course: BCA- 124 Office Automation Tools

CO-124 **Design and edit publication in Page maker**

Course: BCA- 125 Structured System Analysis & Design

CO-125 **Demonstrate knowledge on the different phases of Systems Development Life Cycle(SDLC) and Demonstrate the use of systems design techniques ,methodologies, and tools.**

Course: BCA- 126 Personality Development

CO-126 **Develop and understand sense of Body language use and misuse, Art of good**

Conversation,Art of Intelligent Listening.

II Year- Semester-III

Course: BCA- 231 Object Oriented Programming using C++

CO-231 **Develop simple applications using class, objects, constructors and applications using Concepts of Polymorphism, Function Overloading, Inline Functions.**

Course: BCA- 232 Data Structure

CO-232 **Applying String operations ,Pattern matching algorithms and implementing algorithms using various data structures like Arrays, stacks, queues, Deques , Priority Queues, linked list, trees ,graphs.**

Course: BCA- 233 Computer Architecture

CO-233 **Understand and apply Arithmetic Micro operations, Logic Micro operations, Shift**

Microoperations ,Arithmetic Logic Shift Unit.

Course: BCA- 234 Software Engineering

CO-234 **Understand and apply Structured Analysis and Tools: Data Flow Diagram, Data Dictionary, Decision table, Decision tress, Structured English, Entity-Relationship**

diagrams,Cohesion and Coupling.Gantt chart,PERTChart.

Course: BCA- 235 Fundamentals of Database System

CO-235 **Understand and explain data, Database System Architecture, Data Independence.**

Course: BCA- 236 Computer Oriented Numerical Method

CO-236 **Understand and perform Computer Arithmetic: Floating-point representation of numbers, arithmetic operations with normalized floating-point numbers and the consequences, significant figures.Error in number representation-in herenterror,truncation,absolute,relative, percentage and round-off error and apply Iterative Methods.**

II Year- Semester-IV

Course: BCA- 241 Advance Data Structure

CO-241 **Understand and apply operations on Graph and Implement Warshall's algorithm for shortest path,Dijkstra algorithm for shortest Path.**

Course: BCA- 242 Advance Programming Using C++

CO-242 **Develop applications using inheritance, templates and exception handling.**

Course: BCA- 243 E-commerce

CO-243 **Understand concepts of b2b,b2c,c2c ,b2g,g2h,g2c and Electronic payment systems.**

Course: BCA- 244 Relational Database Management System

CO-244 **Understand and describe Functional Dependencies and Normalization and Understand SQL, PL/SQL.**

Course: BCA- 245 Computer Oriented Statistical Methods

CO-245 **Understand and demonstrate Central Tendency, Dispersion, Correlation and Regression.**

Course: BCA- 246 Management Information System

CO-1	**Understand Information system, its types, Simon's model of Decision making and pitfalls in MIS development.**

III Year- Semester-V

Course: BCA- 351 Web Designing Fundamental

CO-351	**Understand various HTML tags, tables, Frames and Forms.**

Course: BCA- 352 Operating System-I

CO-352	**Define, restate, discuss, and explain the policies for scheduling, deadlocks.**

Course : BCA – 353 Artificial Intelligence

CO-353	**Understand the fundamentals of knowledge representation(logic-based, frame-based, semantic nets),inference and the reproving and Ability to apply Knowledge Representation,reasoning,and machine learning techniques to store all-world problems.**

Course : BCA – 354 Computer Networks

CO-354	**Describe how computer networks are organized with the concept to layered** **Approach and Explain various transmission media.**

Course : BCA – 355 Programming using Visual Basic

CO-355	**Distinguish and compose events and methods, Students code visual programs by using Visual Basic work environment.**

Course :BCA – 356 Multimedia Tools

CO-356	**Use and apply tools for image processing, video, sound and animation and Explain different audio and video compression techniques.**

III Year- Semester-VI

Course :BCA – 361 Web Designing using Advance Tool

CO-361	**Use advanced topics in HTML5,CSS3,JavaScript,DHTML and Working with Macro media flash player and other interactivity tools.**

Course : BCA – 362 Operating System-II

CO-362	**Study different disk scheduling algorithms and Identify and use UNIX/Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security, develop shell script stoppers for more complex tasks..**

Course :BCA – 363 Computer Graphics

CO-363 **Provide an understanding of mapping from a world coordinates to device**

Coordinates, clipping, and projections.

Course :BCA – 364 Internet Technologies

CO-364 **Predict and explain how different networking technologies at the same or**

Different layers interact and affect each other in a large-scale system.

Course :BCA – 365 Advance Programming with Visual Basic

CO-365 **Working with Menus,Accessing Databases (Data Controls, Data-Bound Controls, DAO, RDO, ADO).**

Course :BCA– 366 Programming in Core Java

CO-366 **Write Java application programs using OOP principles and proper program**

Structuring and to implement error handling techniques using exception

Handling.