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.

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 Micro operations ,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, PERT Chart.
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 herent error, 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.