

## (B): Bachelor of Computer Applications

This is an undergraduate three years program where students are introduced to various areas of computer science, programming, database design, software engineering, and networking and information systems. The course prepares graduates for further postgraduate degrees or employment in variety of roles in organizations requiring expert professionals who can apply computer science principles to solve problems induced between business and technology, BCA graduates can start their career as programmers and can rise to top level management. The course is aimed at developing the computer professionals in the wide range of application such as business sectors, government sectors, scientific research, medical science, social sciences, management, communication etc.



### Semester- 1

Core Courses	
BCA	1. Fundamentals of Computer Programming Using C
	2. Computer Organization
	3. Personal Computer & Software Packages
	4. Fundamentals of Web Designing
	5. Practicals
Elective Courses	
	1. Elective
Foundation Course	
	1. Communication Skills in English- I
	2. Mathematics-I

### Semester- 2

Core Courses	
BCA	1. Advanced C Programming & Introduction to Data Stru.
	2. Systems Analysis & Design
	3. Database Management Systems Using Open office base
	4. Web Application Development
	5. Practicals
Elective Courses	
	1. Elective
Foundation Course	
	1. Communication Skills in English - II
	2. Mathematics - II

### Semester- 2

Core Courses	
BCA	1. Relational Database Management Systems-I
	2. Object Oriented Programming and C++
	3. Advanced Data and File Structures
	4. Practicals
Elective Courses	
	1. Elective
Foundation Course	
	1. Financial and Accounting Management

### Semester- 4

Core Courses	
BCA	1. Relational Database Management Systems-II
	2. Object Oriented Programming Through Java
	3. Operating Systems
	4. Practicals
Elective Courses	
	1. Elective
Foundation Course	
	1. Computer Based Numerical & Statistical Methods

### Semester- 3

Core Courses	
BCA	1. Visual Programming Through VB.NET
	2. Computer Graphics
	3. Software Engineering
	4. Practicals
Elective Courses	
	1. Elective
Foundation Course	
	1. Operations Research

### Semester- 6

Core Courses	
BCA	1. Server-side Web Programming
	2. Computer Networks
	3. Business Information Systems
	4. Practical
Elective Courses	
	1. Elective
Foundation Course	
	1. Systems Software