

## CBCS Course Structure for BCA Programme

### SEMESTER WISE PLACEMENT OF THE COURSES

Semester	CORE COURSE (14)	Ability Enhancement Compulsory Course (AECC) (2)	Skill Enhancement Course (SEC) (2)	Elective: Discipline Specific (DSE) (4)	Elective: Generic (GE) (4)
<b>I</b>	BCA-HC-1016 Introduction to C programming	ENG-AE-1014			Any course from the list GE-1
	BCA-HC-1026 Computer Fundamentals & ICT Hardware				
<b>II</b>	BCA-HC-2016 Mathematics –I	ENV-AE-2014			Any course from the list GE-2
	BCA-HC-2026 Digital Logic Fundamentals				
<b>III</b>	BCA-HC-3016 Software Engineering		SEC -1		Any course from the list GE-3
	BCA-HC-3026 Data Structure and Algorithms				
	BCA-HC-3036 Database Management System				
<b>IV</b>	BCA-HC-4016 Computer Organization and Architecture		SEC -2		Any course from the list GE-4
	BCA-HC-4026 Mathematics-II				
	BCA-HC-4036 Object Oriented Programming in C++				
<b>V</b>	BCA-HC-5016 Java Programming			DSE-1	
	BCA-HC-5026 Operating System			DSE -2	
<b>VI</b>	BCA-HC-6016 System Administration using Linux			DSE -3	
	C14: BCA-HC-6026 Computer Networks			DSE -4	

Paper Code: CIT-HC-1016: Means: CIT (Subject code), HC (Course type: Honours Core), 1(Semester), 01(first paper of the semester), 6(credit).

## **Skill Enhancement Course (SEC)**

### **SEC 1 (choose one)**

- (i) BCA-SE-3014: Web Technology
- (ii) BCA-SE-3024: Programming with C#
- (iii) BCA-SE-3034: Open Source Software

### **SEC 2 (choose one)**

- (i) BCA-SE-4014: Animation
- (ii) BCA-SE-4024: Mobile Applications
- (iii) BCA-SE-4034: Advanced Web Technology

## **Discipline Specific Electives (DSE)**

### **DSE-1**

- (i) BCA-HE-5016: Project Work / Dissertation (Credit: 6)

### **DSE-2 (choose any One)**

- (i) BCA-HE-5026: Data Mining & Warehousing
- (ii) BCA-HE-5036: Computer Oriented Numerical Methods and statistical Techniques
- (iii) BCA-HE-5046: Programming in Python

### **DSE-3 (choose any One)**

- (i) BCA-HE-6016: Automata Theory and Languages
- (ii) BCA-HE-6026: Optimization Techniques
- (iii) BCA-HE-6036: Multimedia and Applications

### **DSE-4 (choose any One)**

- (i) BCA-HE-6046: Distributed System
- (ii) BCA-HE-6056: Microprocessor and Assembly Language Programming
- (iii) BCA-HE-6066: Artificial Intelligence

## **Generic Elective (GE)**

### **GE 1 (choose any One)**

- (i) BCA-HG-1016: Computer Based Accounting and Financial Management
- (ii) BCA-HG-1026: Office Automation

### **GE 2 (choose any One)**

- (i) BCA-HG-2016: Basic Electronics
- (ii) BCA-HG-2026: Introduction to Bio-Informatics

### **GE 3 (choose any One)**

- (i) BCA-HG-3016: Introduction to Indian History
- (ii) BCA-HG-3026: Positive Psychology

### **GE 4 (choose any One)**

- (i) BCA-HG-4016: Introduction to Dramatic Arts
- (ii) BCA-HG-4026: Information Security and Cyber Laws