

Course Structure for BCA

Code No.	Paper	Total Mark	Credits
1st SEMESTER			
A	CORE PAPERS		
BCA 101	Fundamentals of Information Technology	100	6
BCA 102	Programming using C	100	6
B	ABILITY ENHANCEMENT COMPULSORY COURSE		
AECC 1	Communicative English	100	4
C	SKILL ENHANCEMENT COURSE		
BCASE123A	Mathematical Foundation	100	4
D	VALUE ADDED COURSE		
	VAC-1	50	2
	VAC -2	50	2
Total Credit in Semester – I			24
2nd SEMESTER			
A	CORE PAPERS		
BCA 203	Programming using Python	100	6
BCA 204	Computer System Architecture	100	6

B	ABILITY ENHANCEMENT COMPULSORY COURSE		
AECC 2	Environmental Studies	100	4
C	SKILL ENHANCEMENT COURSE		
BCASE224B	Object oriented programming using C++	100	4
D	VALUE ADDED COURSE		
	VAC-3	50	2
	VAC-4	50	2
Total Credit in Semester – II			24
3rd SEMESTER			
A	CORE PAPERS		
BCA 305	Data Structure using C	100	6
BCA 306	Operating System	100	6
BCA 307	Discrete Mathematics	100	6
B	GENERAL ELECTIVE COURSE		
BCA 101 (GEC)	Fundamentals of Information Technology	100	6
D	VALUE ADDED COURSE		
	VAC-5	50	2
Total Credit in Semester – III			26

4th SEMESTER**A CORE PAPERS**

BCA 408	Probability and Statistics	100	6
BCA 409	DBMS	100	6
BCA 410	Web Technology	100	6

B GENERIC ELECTIVE COURSE

BCA 102 (GEC)	Programming using C	100	6
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D VALUE ADDED COURSE

VAC-6	50	2
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Total Credit in Semester – IV **26**

5th SEMESTER**A CORE PAPERS**

BCA 511	Computer Networks	100	6
BCA 512	Java Programming	100	6

B DISCIPLINE SPECIFIC ELECTIVE

BCA 519A/B/C	.NET/Network Security/Computer Oriented Numerical Methods	100	6
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C GENERIC ELECTIVE COURSE

BCA 203 (GEC)	Programming with Python	100	6
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D	VALUE ADDED COURSE		
	VAC-7	50	2
Total Credit in Semester – V			26
6th SEMESTER			
A	CORE PAPERS		
BCA 613	Theory of Computation	100	6
BCA 614	Financial Accounting	100	6
B	DISCIPLINE SPECIFIC ELECTIVE		
BCA 620A/B/C	Internet of Things (IOT) and its applications	100	6
C	GENERAL ELECTIVE COURSE		
BCA 512 (GEC)	Java Programming	100	6
D	VALUE ADDED COURSE		
	VAC-8	50	2
Total Credit in Semester – VI			26
7th SEMESTER			
A	CORE PAPERS		
BCA 715	Design and Analysis of Algorithm	100	6
BCA 716	Computer Graphics	100	6

B	DISCIPLINE SPECIFIC ELECTIVE		
BCA 721A/B/C	Deep Learning/ Data Analysis and Visualization/ Fundamentals of Data Science	100	6
C	GENERIC ELECTIVE COURSE		
BCA 410 (GEC)	Web Technologies	100	6
Total Credit in Semester – VII			24
8th SEMESTER			
A	CORE PAPERS		
BCA 816	Artificial Intelligence	100	6
BCA 817	Software Engineering	100	6
B	DISCIPLINE SPECIFIC ELECTIVE		
BCA 822A/B/C	Digital Image Processing/ Data Mining/ Project Work Dissertation	100	6
C	GENERIC ELECTIVE COURSE		
BCA 825	Introduction to Multimedia	100	6
Total Credit in Semester – VIII			24