

BCA (Bachelor of Computer Applications) – General Course Structure & Syllabus

Semester I

S. No.	Subject Title
1	Fundamentals of Computer
2	Programming in C
3	Mathematics – I
4	Digital Electronics
5	Communication Skills
6	Computer Fundamentals Lab
7	C Programming Lab

Semester II

S. No.	Subject Title
1	Data Structures
2	Operating Systems
3	Mathematics – II
4	Database Management Systems
5	Web Fundamentals
6	Data Structure Lab
7	DBMS Lab

Semester III

S. No.	Subject Title
1	Object-Oriented Programming with C++
2	Software Engineering
3	Computer Networks
4	Web Development
5	Python Programming
6	OOPs Lab
7	Python Lab

Semester IV

S. No.	Subject Title
1	Java Programming
2	Cloud Computing Basics
3	Cybersecurity Fundamentals
4	Mobile Application Development
5	Data Analytics Basics
6	Java Lab
7	Web Development Lab

Semester V

S. No.	Subject Title
1	Artificial Intelligence Basics
2	Machine Learning Fundamentals
3	Software Testing
4	E-Commerce Applications
5	Data Visualization
6	Mini Project
7	AI & ML Lab

Semester VI

S. No.	Subject Title
1	Advanced Web Technologies
2	Cloud & DevOps Basics
3	Project Work
4	Internship / Industrial Training
5	Emerging Technologies
6	Major Project Viva

Note: This is a general academic course structure created for informational and educational purposes. Subjects and semester structure may vary depending on university curriculum updates, specialization, and institutional regulations.