

## Concept Mapping for Bachelor of Computer Applications(BCA)

**Objectives:** The basic objective of the programme is to open a channel of admission for computing courses for students, who have done the 10+2 and are interested in taking computing/IT as a career. After acquiring the Bachelor's Degree (BCA) at IGNOU, there is further educational opportunity to go for an MCA at IGNOU or Master's Programme at any other University/Institute. Also after completing BCA Programme, a student should be able to get entry level job in the field of Information Technology or ITES.

### BCA → I<sup>st</sup> Year

Soft Skill Courses	Practical Skill Courses	Core Courses
FEG-02: English ECO-01: Business Organization MCS-015: Communication Skills	BCS-011: Computer Basics and PC Software BCSL-013: Computer Basics and PC Software Lab MCS-011: Problem Solving and Programming BCSL-021: C Language Programming Lab	BCS-012: Basics Mathematics MCS-012: Computer Organization and Assembly Language Programming MCS-013: Discrete Mathematics ECO-02: Accountancy-1

### BCA → II<sup>nd</sup> Year

Practical Skill Courses	Core Courses
MCS-023: Introduction to Database Management Systems BCS-031: Programming in C++ BCSL-032: C++ Programming Lab BCSL-033: Data and File Structures Lab BCSL-034: DBMS Lab MCS-024: Object Oriented Technologies and Java Programming MCSL-016: Internet Concepts and Web Design BCSL-043: Java Programming Lab BCSL-044: Statistical Techniques Lab BCSL-045: Introduction to Algorithm Design Lab	MCS-021: Data and File Structures MCS-014: Systems Analysis and Design BCS-040: Statistical Techniques BCS-041: Fundamentals of Computer Networks BCS-042: Introduction to Algorithm Design

### BCA → III<sup>rd</sup> Year

Soft Skill Courses	Practical Skill Courses	Core Courses
BCS-055: Business Communication	BCS-053: Web Programming BCSL-056: Network Programming Lab BCSL-057: Web Programming Lab BCSL-058: Computer Oriented Numerical Techniques Lab BCSL-063: Operating System Concepts and Networking Management Lab <b>BCSP-064: Project</b>	BCS-051: Introduction to Software Engineering BCS-052: Network Programming (TCP/IP Programming) BCS-054: Computer Oriented Numerical Techniques Lab MCS-022: Operating System Concepts and Networking Management BCS-062: E-Commerce

### Assessment Strategy

- Assignments
- Term-End Examination