

# Bachelor of Science (B.Sc.) – Information Technology

**Duration:** 3 Years (6 Semesters)

**Eligibility:** 10+2 with Science / Mathematics

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## Semester – I

S. No.	Subject
1	Fundamentals of Information Technology
2	Computer Organization
3	Programming in C
4	Mathematics for IT – I
5	Programming in C – Practical
6	IT Lab – I

### Course Details:

This semester introduces basic concepts of information technology, computer hardware organization, and programming fundamentals using C language. Students also develop logical thinking and problem-solving skills through practical sessions.

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## Semester – II

S. No.	Subject
1	Data Structures
2	Operating Systems
3	Object Oriented Programming (C++)
4	Mathematics for IT – II
5	Data Structures – Practical
6	OOP with C++ – Practical

### Course Details:

Focuses on data organization techniques, operating system concepts, and object-oriented programming. Practical work strengthens coding and algorithmic skills.

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## Semester – III

S. No.	Subject
1	Database Management Systems
2	Software Engineering
3	Web Technology (HTML, CSS, JavaScript)
4	Computer Networks – I
5	DBMS – Practical
6	Web Technology – Practical

### Course Details:

This semester covers database design, software development life cycle, web development technologies, and basic networking concepts with hands-on lab training.

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## Semester – IV

S. No.	Subject
1	Java Programming
2	Computer Networks – II
3	System Analysis & Design
4	Linux & Open Source Technology
5	Java Programming – Practical
6	Linux – Practical

### Course Details:

Students learn advanced programming with Java, network protocols, system design techniques, and open-source operating systems with extensive lab exposure.

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## Semester – V

S. No.	Subject
1	Python Programming
2	Artificial Intelligence
3	Cyber Security
4	Mobile Application Development
5	Python – Practical
6	Mini Project

### Course Details:

This semester introduces modern technologies such as Python, AI concepts, cybersecurity fundamentals, and mobile app development along with a mini project.

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## Semester – VI

S. No.	Subject
1	Cloud Computing
2	Big Data Analytics
3	Internet of Things (IoT)
4	Project Work
5	Seminar
6	Viva Voce

### Course Details:

The final semester focuses on emerging technologies like cloud computing, big data, and IoT. Students complete a major project to demonstrate practical and professional skills.

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## Scheme of Examination

- **Theory:** 70%
- **Practical / Project:** 30%