

B.Tech Computer Sci & Engg. with Specialization in Data Science

1st Year

Semester I	Semester II
Engineering Mathematics-I	Engineering Mathematics-II
Applied Physics	Engineering Drawing
Elements of Electrical Engineering	Python Programming
Applied Mechanics-I	Electronics Devices & Circuits
Computer Programming - I	Applied Mechanics-II
Workshop Practice	Computer Programming - II
Constitution of India	Communication Skills

2nd Year

Semester III	Semester IV
Data Structures and Algorithms	Computer Networks
Digital Logic Design	Microprocessor and Microcontroller
Applied Statistics	Introduction to Data Analytics
Engineering Mathematics - III	Digital Communications
Advanced Java	Operating Systems
Software Engineering	Database Management Systems
Discrete Mathematical Structures	Computer Graphics
Computer System Architecture	Multimedia Systems & Animations

3rd Year

Semester V	Semester VI
Information Security	Computer Simulation and Modeling
Mobile Apps Development	Object Oriented Modeling and Design
Formal Languages and Automata Theory	Network Performance Modelling & Analysis
Predictive Analytics	Data Warehouse & Multidimensional Modeling
Object Oriented Analysis and Design	Cloud Computing
Compiler Design	Information Retrieval and Search Engines
Network Security	Software Project Management

4th Year

Semester VII	Semester VIII
Descriptive Analytics	Big Data Analytics
Social & Web Analytics	BA for Industries & Functional Areas
Embedded Systems	Elective - III (Any Two)
Elective - I (Any One)	• Web Programming
• Service Oriented Architecture	• Image Processing
• Software Quality Assurance	• Programming for Analytics
Elective - II (Any Two)	• Advanced Computer Network
• Artificial Intelligence	Project
• Information Storage Management	
• Cloud Computing Architecture	
• Mobile Analytics	