B.Tech in Information Science & Engineering

I Semester

- Calculus and Matrix Algebra
- Applied Chemistry
- Mind Management and Human values - 1
- Computer Aided Engineering Drawing
- Engineering Physics
- Communicative English
- Biology for Engineers
- Electrical and Electronics for computational thinking
- Project Centric Learning

II Semester

- Problem Solving Techniques
- Computer Organization and Architecture
- Probability and Vector Space
- Mind Management and Human Values – 2
- Programming practices using Java
- Python Programming
- Project – 1
- Data Structures

III Semester

- Discrete Mathematics and Graph Theory
- Operating Systems
- Data Communication and Networks
- Indian Constitution
- Foundations of Mathematics – 1+
- Design and Analysis of Algorithms
- Theory of Computation
- Database Management Systems
- Project Centric Learning

IV Semester

- Enterprise Information Systems
- Linux Administration
- Business Communication and Presentation Skills
- Research Methodology
- Department Specific Elective – 1
- Open Elective – 1
- Project Centric Learning

V Semester

- Foundations of Cloud Computing
- Complier Design
- Web Technologies
- Software Engineering
- Cryptography and network security
- Foundations of Mathematics– 2+
- Project – 2
- Internship -1

VI Semester

- IAdvanced DBMS
- IDepartment Specific Elective – 2
- IEnvironmental Science
- IDepartment Specific Elective – 3
- IDecision Support System
- IOpen Elective – 2
- IProject – 3
- Internship - 2

VII Semester

- Information and Network Security
- Department Specific Elective – 4
- Information Retrieval
- Intellectual Property Rights
- Web Searching and Information Discovery
- Department Specific Elective – 5
- Open Elective – 3
- Project - 4

VIII Semester

- Data Mining and Business Intelligence
- Department Specific Elective – 6
- Text Mining Techniques and Tools
- Research *
- Internship - 3
- Internship - 3

Department Specific Electives						
DSE Tracks		Elective-I	Elective-II	Elective-III	Elective-IV	Elective-V	Elective-VI
		5th Semester	6th Semester	6th Semester	7th Semester	7th Semester	8th Semester
Track - I	Cloud Developer	Information theory and coding	Object-Oriented System Design	Software Quality Assurance and Software Testing	Software Design and System Integration	Cloud Computing	IoT Project Management
Track - II	Full Stack Developer	Real Time Data Processing	Mobile Computing	Multimedia computing	Distributed Architecture of Enterprise Applications	Soft Computing	IT Infrastructure Technology
Track - III	Security in Software Engineering	IOT (Internet of Things) Platform Design	Advanced Software Engineering	Embedded Computing System	Distributed Database Management Systems	Database Security	DevOps

Computer Science and Engineering (Open Elective Baskets)			
Sl. No	**Finance and Accounting**	**Entrepreneurship and new venture creation**	**Marketing and Management**
1	Finance for non-finance professionals	Entrepreneurship Theory and Practice	Marketing Management
2	Wealth Management	Launching and managing an enterprise	Consumer Behavior
3	Indian Financial System	Business Plan and Project Implementation	Brand Management
4	Financial Reporting	Sustainable Entrepreneurship	Product Management