

Syllabi for Data Science course from Third Semester onwards

Third Semester

- Mathematics for Computer Science
- Digital Design & Computer Organization (VHDL)
- Operating Systems (Lab component is on the Shell commands and API's)
- Data Structures and Application
- Python Programming for Data Science
- Version controller with GiT

Fourth Semester

- Analysis & Design of Algorithms
- Microcontrollers
- Database Management Systems
- Kubernetes(lab)
- Discrete Mathematics

Fifth Semester

- Software Engineering & Project Management
- Computer Networks
- Theory of Computation
- Data Visualization Lab
- NoSQL Databases

Sixth Semester

- Big Data Analytics
- Artificial Intelligence & Machine Learning

- Machine Learning lab
- Blockchain Technology
- Devops

Seventh Semester

- Scalable Computing
- Statistical Machine Learning for Data Science
- Information & Network Security
- Deep Learning
- IOT Analytics

Eighth Semester

- Professional Elective (Online Courses) through NPTEL
- Open Elective (Online Courses) through NPTEL