

# EMERGING TECHNOLOGIES IN COMPUTER SCIENCE

## ECS Department offers the following courses

- **Computer Science and Business Systems (CSBS)**
- **CSE- Artificial Intelligence and Machine Learning (CSM)**
- **CSE- Data Science (CSD)**

### **CSE – Data Science (CSM)**

Our 4-year B.Tech. Computer Science and Engineering (Data Science) programme seeks to develop skilled professionals with expertise in computer, data science, and business skills to serve the growing digital world. The programme will equip students with programming skills, statistical skills, Machine Learning, mathematical reasoning, knowledge discovery, and visualization skills to make an impact in the field of data science.

A B.Tech. Computer Science and Engineering (Data Science) from our institute will provide students with the right engineering knowledge, design & development of solutions, problem analysis, sustainability, project management, and effective business communication. A degree in this programme will cover the following topics:

- Basic engineering mechanics & physics
- Mathematical reasoning and statistics
- Data structures and algorithm design
- Machine Learning & Virtualization
- Natural Language Processing & Neural Networks
- Big Data Analytics & Deep Learning

Additionally, the programme will also educate the students on the general principles of all the disciplines of engineering. Students will also learn how to apply scientific techniques to practical problems and build business models for data analytics.



### **Scope of B.Tech. Computer Science and Engineering (Data Science)**

The programme will enable students to demonstrate proficiency in Data Science, leading to successful careers as Data Scientists. The graduates will exhibit commitment to developing sustainable data-based solutions that satisfy the modern data analysis and scientific application needs. The graduates will adapt to and aid in technological advances by life-long learning and innovation.

### **Career Options for B.Tech. Computer Science and Engineering - Data Science**

Students who enroll in the B.Tech. Computer Science and Engineering (Data Science) programme will open a world of opportunities for themselves in this world driven by data-based innovations. Career options include:

- Data Scientist
- Data Analyst
- Business Analyst
- Data Engineer
- Product Manager
- Lead Data Scientist

### **Duration of the Programme**

- 4 Years

❖ Dept of Emerging Technologies in computer Science has a MoU with Excel R Solutions.