Curriculum Framework for CSE (Artificial Intelligence & Machine Learning)

CORE · **PROGRAMMING** · **MATHEMATICS** · **FUNDAMENTALS**

I B.TECH

- Digital Logic Design
- Problem Solving with C
- Linear Algebra and Differential Equations
- English
- Applied Physics
- Computer Organization
- Data Structures Using C
- Python Programming
- Integral Transforms and Vector Calculus
- Engineering Chemistry
- Environment Science

II B.TECH

- Discrete Mathematics
- Operating Systems
- Database Management Systems
- Fundamentals of Artificial Intelligence
- Programming with Java
- Arts
- Indian Constitution
- Computer Networks
- Data warehousing and data mining
- Software Engineering
- Web Application Development
- Probability & Statistics
- Statistics with R Programming
- Universal Human Values

III B.Tech

- Theory of Computation
- Design & Analysis of Algorithms
- Machine Learning
- Big Data Technologies
- Compiler Design
- Cryptogaphy and Network Security
- Deep Learning
- IPR & Patents
- Soft Skills
- Advanced Communication Skills

Professional Elective-I:
- Advanced Operating Systems
- Multi Agent Systems
- Image Processing
- Software Project Management

Professional Elective-II:
- Information Reterival Systems
- Recomonder Systems
- Computer Vision
- Design Patterns

Job Oriented-I:
- Full Stack Development
- Devops
- Natural Language Processing

IV B.Tech

Professional Elective-III:
- Adhoc & Sensor Networks
- Reinforcement Learning
- Social Media Analytics
- Software Testing Methodologies

Professional Elective-IV:
- Human Computer Interaction
- Cyber Security and Cyber Laws
- Web Intelligence
- Parallel Computing

Professional Elective-V:
- E-Commerce & Digital Marketing
- Bioinformatics
- Block Chain Technologies
- Soft Computing

Job Oriented Elective-II:
- Spring Boots
- Autonomous Systems

Job Oriented Elective-III:
- Cloud Computing
- Secure Coding Techniques

Big Data : Apache Spark

Management Science

Seminar

PROJECT