

Bachelor of Technology (B.Tech) in Machine Learning

Duration: 4 Years (8 Semesters)

Total Credits: 160

Marks Distribution: Internal 30 + External 70 = 100

Semester I

ML101 - Engineering Mathematics I | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML102 - Programming for Problem Solving | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML103 - Engineering Physics | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML104 - Basic Electrical Engineering | Credits: 3 | Internal: 30 | External: 70 | Total: 100

ML105 - Communication Skills | Credits: 2 | Internal: 30 | External: 70 | Total: 100

Semester II

ML201 - Engineering Mathematics II | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML202 - Data Structures | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML203 - Engineering Chemistry | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML204 - Digital Logic Design | Credits: 3 | Internal: 30 | External: 70 | Total: 100

ML205 - Environmental Studies | Credits: 2 | Internal: 30 | External: 70 | Total: 100

Semester III

ML301 - Discrete Mathematics | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML302 - Object Oriented Programming | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML303 - Database Management Systems | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML304 - Computer Organization | Credits: 3 | Internal: 30 | External: 70 | Total: 100

ML305 - Probability & Statistics | Credits: 3 | Internal: 30 | External: 70 | Total: 100

Semester IV

ML401 - Design and Analysis of Algorithms | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML402 - Operating Systems | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML403 - Software Engineering | Credits: 3 | Internal: 30 | External: 70 | Total: 100

ML404 - Machine Learning Fundamentals | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML405 - Linear Algebra for AI | Credits: 3 | Internal: 30 | External: 70 | Total: 100

Semester V

ML501 - Artificial Intelligence | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML502 - Data Mining | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML503 - Computer Networks | Credits: 3 | Internal: 30 | External: 70 | Total: 100

ML504 - Deep Learning | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML505 - Machine Learning Lab | Credits: 2 | Internal: 30 | External: 70 | Total: 100

Semester VI

ML601 - Natural Language Processing | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML602 - Computer Vision | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML603 - Big Data Analytics | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML604 - Cloud Computing | Credits: 3 | Internal: 30 | External: 70 | Total: 100

ML605 - Mini Project | Credits: 2 | Internal: 30 | External: 70 | Total: 100

Semester VII

ML701 - Reinforcement Learning | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML702 - MLOps | Credits: 3 | Internal: 30 | External: 70 | Total: 100

ML703 - Ethics in AI | Credits: 2 | Internal: 30 | External: 70 | Total: 100

ML704 - Data Visualization | Credits: 3 | Internal: 30 | External: 70 | Total: 100

ML705 - Industrial Internship | Credits: 4 | Internal: 30 | External: 70 | Total: 100

Semester VIII

ML801 - Advanced Machine Learning | Credits: 4 | Internal: 30 | External: 70 | Total: 100

ML802 - AI Product Development | Credits: 3 | Internal: 30 | External: 70 | Total: 100

ML803 - Research Methodology | Credits: 2 | Internal: 30 | External: 70 | Total: 100

ML804 - Major Project | Credits: 8 | Internal: 30 | External: 70 | Total: 100

ML805 - Viva Voce | Credits: 2 | Internal: 30 | External: 70 | Total: 100

Practical Components

- Programming Labs
- Machine Learning Labs
- Deep Learning Projects
- Industrial Internship
- Research Seminar
- Major Project
- Viva Voce