

Bachelor of Technology (B.Tech.) in Artificial Intelligence

Proposed University Syllabus (8 Semesters)

Semester I

Subject Code | Subject Name | Credits | Marks Distribution

AI101 | Engineering Mathematics I | 4 | 70+30

AI102 | Programming for Problem Solving | 4 | 70+30

AI103 | Engineering Physics | 4 | 70+30

AI104 | Basic Electrical Engineering | 3 | 70+30

AI105 | Communication Skills | 2 | 50+50

AI106 | Programming Lab | 2 | 50+50

Total Credits: 19

Semester II

Subject Code | Subject Name | Credits | Marks Distribution

AI201 | Engineering Mathematics II | 4 | 70+30

AI202 | Data Structures | 4 | 70+30

AI203 | Digital Logic Design | 3 | 70+30

AI204 | Discrete Mathematics | 4 | 70+30

AI205 | Environmental Studies | 2 | 50+50

AI206 | Data Structures Lab | 2 | 50+50

Total Credits: 19

Semester III

Subject Code | Subject Name | Credits | Marks Distribution

AI301 | Object-Oriented Programming | 4 | 70+30

AI302 | Database Management Systems | 4 | 70+30

AI303 | Computer Organization & Architecture | 3 | 70+30

AI304 | Probability & Statistics | 4 | 70+30

AI305 | Python for AI | 3 | 70+30

AI306 | DBMS Lab | 2 | 50+50

Total Credits: 20

Semester IV

Subject Code | Subject Name | Credits | Marks Distribution

AI401 | Design & Analysis of Algorithms | 4 | 70+30

AI402 | Operating Systems | 4 | 70+30

AI403 | Machine Learning | 4 | 70+30

AI404 | Data Visualization | 3 | 70+30

AI405 | Software Engineering | 3 | 70+30

AI406 | Machine Learning Lab | 2 | 50+50

Total Credits: 20

Semester V

Subject Code | Subject Name | Credits | Marks Distribution

AI501 | Artificial Intelligence | 4 | 70+30

AI502 | Deep Learning | 4 | 70+30

AI503 | Computer Networks | 3 | 70+30

AI504 | Natural Language Processing | 4 | 70+30

AI505 | AI Ethics & Governance | 2 | 70+30

AI506 | Deep Learning Lab | 2 | 50+50

Total Credits: 19

Semester VI

Subject Code | Subject Name | Credits | Marks Distribution

AI601 | Computer Vision | 4 | 70+30

AI602 | Reinforcement Learning | 4 | 70+30

AI603 | Big Data Analytics | 3 | 70+30

AI604 | Cloud Computing for AI | 3 | 70+30

AI605 | Research Methodology | 2 | 70+30

AI606 | Mini Project | 2 | 50+50

Total Credits: 18

Semester VII

Subject Code | Subject Name | Credits | Marks Distribution

AI701 | Generative AI | 4 | 70+30

AI702 | MLOps | 3 | 70+30

AI703 | AI Security & Privacy | 3 | 70+30

AI704 | Professional Elective I | 3 | 70+30

AI705 | Professional Elective II | 3 | 70+30

AI706 | Industry Internship | 4 | 50+50

Total Credits: 20

Semester VIII

Subject Code | Subject Name | Credits | Marks Distribution

AI801 | Professional Elective III | 3 | 70+30

AI802 | Professional Elective IV | 3 | 70+30

AI803 | Entrepreneurship & Innovation | 2 | 70+30

AI804 | Major Project / Dissertation | 10 | 100

Total Credits: 18

Assessment Scheme

Theory Courses: 70 Marks End Semester Examination + 30 Marks Internal Assessment.

Laboratory Courses: 50 Marks Continuous Assessment + 50 Marks Practical/Viva. Projects and Internship evaluated as per departmental guidelines.