Course: CS-401 – Applied Artificial Intelligence

Week 1: Introduction to AI
Topics: AI definition, history, applications
Mapped CLOs: CLO1

Week 2: Search & Problem Solving
Topics: State space, BFS, DFS
Mapped CLOs: CLO1, CLO2

Week 3: Supervised Learning
Topics: Regression, Classification
Mapped CLOs: CLO2

Week 4: Model Evaluation
Topics: Accuracy, Precision, Recall
Mapped CLOs: CLO3

Week 5: Unsupervised Learning
Topics: Clustering, Dimensionality Reduction
Mapped CLOs: CLO2, CLO3

Week 6: Neural Networks
Topics: Perceptron, MLP
Mapped CLOs: CLO2

Week 7: Midterm Review
Mapped CLOs: CLO1, CLO2

Week 8: Midterm Exam

Week 9: NLP Basics
Mapped CLOs: CLO2

Week 10: Embeddings & Semantic Search
Mapped CLOs: CLO2, CLO3

Week 11: AI Ethics
Mapped CLOs: CLO5

Week 12: Assessment Design
Mapped CLOs: CLO4

Week 13: Grading & Fairness

Mapped CLOs: CLO5

Week 14: Course Project
Mapped CLOs: CLO3, CLO4

Week 15: Project Presentations

Week 16: Final Exam