

MES ARTS AND SCIENCE COLLEGE KUTTIPPURAM
Department of Computer Application
Add on course
Artificial Intelligence

Time: 4 hrs/week
30

Hours:

Learning Outcomes:

- Identify problems where AI techniques are applicable
- Develop an appreciation for what is involved in models that are optimised on data.
- To provide software that can reason on input and explain on output.

MODULE 1 (10 hr)

Introduction to Artificial Intelligence, Fundamentals of Machine Learning, Types of Machine Learning, Importance of data in AI, Natural Language Processing (NLP).

MODULE 2 (10 hr)

Block word problem, BFS, DFS, 8 puzzle problem-Nearest Neighbours.

MODULE 3 (10 hr)

Fuzzy Logic: Fuzzy Variables, Fuzzy Sets and Fuzzy Set Operations, Typical Examples using Fuzzy Sets, Ethics and Future of AI, AI in Real-World Applications.

Final Assessment:

- A comprehensive exam covering all modules.
- Group project presentation synthesizing knowledge from all modules.

References:

1. Kevin Night and Elaine Rich, "Artificial intelligence(SIE)", McGrawHill-2008
2. Stuart Russel and Peter Noving "AI- A Modern Approach", 2nd edition, Pearson Education 2007.

