

Course Title: Introduction to Artificial Intelligence

Course Code: AI101

Semester: 5

Credits: 4

Course Description:

This course introduces the basic principles, techniques, and applications of Artificial Intelligence. Topics include intelligent agents, search algorithms, knowledge representation, reasoning, machine learning, and AI ethics.

Course Objectives:

1. Understand the fundamentals of AI and its real-world applications.
2. Learn different search strategies and problem-solving techniques.
3. Explore concepts of machine learning and neural networks.
4. Examine ethical considerations in AI systems.

Prerequisites:

Basic knowledge of Python and Data Structures.

Textbooks:

1. Artificial Intelligence: A Modern Approach by Russell and Norvig
2. Introduction to Machine Learning by Ethem Alpaydin

Assessment:

- Midterm Exam: 30%
- Assignments: 20%

- Final Exam: 50%

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