SEMESTER - I

SUBJECT: INTRODUCTION TO ARTIFICIAL INTELLIGENCE

Semester:	1	CIE Marks:	50
Course Code:	23ETC15A	SEE Marks:	50
Hours/Week (L:T:P):	3: 0:0	Duration of SEE (Hours):	3 hrs.
Type of Course	ETC	Credits	3

Prerequisites: None

$\begin{tabular}{ll} \textbf{Course Learning Objectives:} & \textbf{The course will enable students to:} \\ \end{tabular}$

CLO1	To interpret various concepts like agents, environment in applications to AI.
CLO2	To understand and compare the various search strategies used by the agents.
CLO3	To relate and contrast different learning paradigms and understand the data.
CLO4	To understand the applications of AI in the development of Expert System.

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COURSE OUTCOMES (CO): Upon completion of this course, student will be able to:

CO1	Elucidate the reasons behind AI for being an important field of study, and understand the types of agents, environments, and their relationships
CO2	Describe the Informed search algorithms that make up the fundamental building blocks of AI.
CO3	Understand the importance of preprocessing, types of data, and data transformation.
CO4	Understand different forms of learning and the importance of the structure of the data used by the agent.
CO5	Explore the application of AI ideas in the development of expert systems.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3		2							2	3	
CO2	3	3	3		2							2	3	
CO3	3	3	3		2							2	3	
CO4	3	3	3		2							2	3	
CO5	3	3	3		2							2	3	
Average	3	3	3		2							2	3	

High-3: Medium-2: Low-1

Note: Kindly discuss the relevant case studies.

Textbooks:

- 1. Artificial Intelligence A Modern Approachl, by Stuart J. Russell and Peter Norvig, 3rd EditionPearson 2015.
- 2. Artificial Intelligence E. Rich and Knight, 3rd Edition, McGraw Hill International, 2016.
- 3. Data preprocessing in Data Mining Salvador García, JuliánLuengo Francisco Herrera, Springer.

Reference Books:

1. Introduction to Algorithms, Thomas H. Cormen, Charles E. Leiserson, Ronal L. Rivest, CliffordStein, 3rd Edition, PHI.