

Semester III/IV

Course Title: Artificial Intelligence	Course Credits: 2
Total Contact Hours: 13 Hours of Theory and 26 Hours of practical	Duration of ESA: 01 Hour
Formative Assessment Marks: 20 Marks	Summative Assessment Marks: 30 Marks

Course Outcomes (COs):

At the end of the course, the students will be able to:

- Appraise the theory of Artificial Intelligence and list the significance of AI.
- Discuss the various components that are involved in solving AI problem.
- Illustrate the working of AI algorithms in the given contrast.
- Analyse the various knowledge representation schemes, Reasoning and Learning techniques of AI.
- Apply the AI concepts to build an expert system to solve the real-world problems.

Course Content

Unit - 1	
Overview of AI: Definition of Artificial Intelligence, Philosophy of AI, Goals of AI, Elements of AI system, Programming a computer without and with AI, AI Techniques, History of AI. Intelligent Systems: Definition and understanding of intelligence, Types of intelligence, Human intelligence vs. Machine intelligence.	05
Unit - 2	
AI Applications: Virtual assistance, Travel and Navigation, Education and Healthcare, Optical Character Recognition, E-Commerce and mobile payment systems, Image based search and photo editing. AI Examples in Daily Life: Installation of AI apps and instructions to use AI apps.	05
Unit - 3	
Robotics: Introduction to Robotics, Differences in Robot System and Other AI Program, Components of a Robot.	03