

# COMPETENCY BASED LEARNING DESIGN/COMPETENCY BASED POST-TEACHING REFLECTION

YEAR – 2025 - 2026 SEMESTER - II DEPARTMENT - Department of Computer

SEC paper

Artificial Intelligence (A.I.) (for science discipline)

offered by the University under CCF, 2022

Topic / Unit	Competency-Based Expected Learning Outcome (Knowledge, Skill, Value, Attitude)	Assessment	Brief Description of Strategies, Aids (if any), Evaluation Process	Hours Allotted	Evaluated Outcome / Post-Teaching Reflections
Introduction to Artificial Intelligence	Attaining clarity regarding the concepts, scope, and evolution of Artificial Intelligence. Enhancing the ability to identify real-life applications of AI. Fostering sustained curiosity and interest in emerging AI technologies.	MCQ Test, Class Interaction	PPT-based lecture, real-life examples, interactive discussion; formative MCQ assessment	3	
Intelligent Agents & Problem Solving	Developing understanding of intelligent agents and problem-solving concepts. Strengthening the ability to logically explain agent behaviour. Enhancing analytical thinking and structured reasoning.	Short Test, Oral Questions	Chalk-and-talk, diagrams, problem examples; oral questioning and written assessment	4	
Basics of Machine Learning	Acquiring familiarity with supervised and unsupervised learning techniques. Interpreting basic machine learning use-cases in real-world contexts. Encouraging	MCQ Test	PPT presentation, case-based discussion; MCQ-based evaluation	4	

	an analytical and data-oriented approach to problem solving.				
AI Applications (Image Processing / NLP / Chatbots)	Establishing awareness of major Artificial Intelligence application domains. Applying AI concepts to practical and real-life problem scenarios. Instilling ethical sensitivity regarding the use of Artificial Intelligence technologies.	Presentation / Assignment	Demonstration videos, student presentations; rubric-based assessment	4	
Term Paper / Project Work	Achieving in-depth understanding of the selected Artificial Intelligence topic. Practising research, documentation, and analytical skills through guided work. Reinforcing independent learning and adherence to academic integrity.	Term Paper	Topic selection, guided supervision, report submission; rubric-based evaluation	8	
Ethics and Social Impact of AI	Understanding ethical and social issues related to Artificial Intelligence. Critically examining the societal impact of AI-driven technologies. Promoting responsible and informed use of emerging technologies.	Reflective Writing / Discussion	Case-study discussion, reflective writing; qualitative assessment	2	
Revision & Assessment Preparation	Consolidating knowledge across the entire syllabus. Applying learned concepts effectively in MCQ-based assessment formats. Building confidence and examination preparedness.	Mock MCQ Test	Revision sessions, practice MCQs, feedback discussion	2	