

Syllabus		
Unit No	Contents	Mapped CO
I	What is AI: The AI Problems, What is an AI Techniques, Criteria for Successes? Problems and problem spaces and Search: Problem as a state space search, Production systems, Problem Characteristics, Production system characteristics.	CO1
II	Heuristic search technique: Generate and test, Hill climbing, Best First search, Problem reduction, Constraint satisfaction.	CO1 , CO2
III	Knowledge Representation issues: Representations and mappings. Representing knowledge using rules: Procedural knowledge Vs Declarative knowledge, Forward Vs Backward reasoning, matching.	CO3
IV	Symbolic reasoning under uncertainty: Introduction to Non monotonic reasoning, Implementation in DFS and BFS. Weak, strong slot and filler structures: Semantic nets, Frames, Conceptual dependency, Scripts	CO4
V	Planning: Goal stack planning, Hierarchical planning Expert Systems: Expert system shells, Knowledge acquisition.	CO5

Learning Recourses
Text Books
1. Artificial Intelligence, 2 nd Edition, E.RichandK. Knight (TMH).
References
1. Artificial Intelligence and Expert Systems–Patterson PHI 2. Expert Systems Principles and Programming-Fourth Edn, Giarrantana/Riley,Thomson 3. PROLOG Programming for Artificial Intelligence. Ivan Bratka- Third Edition–PearsonEducation.
e-Resources & other digital material
http://www.jntuk-coeerd.in/ http://nptel.ac.in/video.php?subjectId=106105079 http://nptel.iitk.ac.in/courses/Webcourse-contents/IIT%20Kharagpur/Artificial%20intelligence/New_index1.html