



<b>Syllabus</b>		
<b>Unit No</b>	<b>Contents</b>	<b>Mapped CO</b>
<b>I</b>	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.	<b>CO1</b>
<b>II</b>	Heuristic search technique: Generate and test, Hill climbing, Best First search, Problem reduction, Constraint satisfaction.	<b>CO1, CO2</b>
<b>III</b>	Knowledge Representation issues: Representations and mappings. Representing knowledge using rules: Procedural knowledge Vs Declarative knowledge, Forward Vs Backward reasoning, matching.	<b>CO3</b>
<b>IV</b>	Symbolic reasoning under uncertainty: Introduction to Non monotonic reasoning, Implementation in DFS and BFS. Weak, strong slot and filler structures: Semantic nets, Frames,	<b>CO4</b>
<b>V</b>	Planning: Goal stack planning, Hierarchical planning Expert Systems: Expert system shells, Knowledge acquisition.	<b>CO5</b>

<b>Learning Recourses</b>
<b>Text Books</b>
1. Artificial Intelligence, 2 <sup>nd</sup> Edition, E.RichardK. Knight (TMH).
<b>References</b>
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.
<b>e-Resources &amp; other digital material</b>
<a href="http://www.jntuk-coeerd.in/">http://www.jntuk-coeerd.in/</a> <a href="http://nptel.ac.in/video.php?subjectId=106105079">http://nptel.ac.in/video.php?subjectId=106105079</a> <a href="http://nptel.iitk.ac.in/courses/Webcourse-contents/IIT%20Kharagpur/Artificial%20intelligence/New_index1.html">http://nptel.iitk.ac.in/courses/Webcourse-contents/IIT%20Kharagpur/Artificial%20intelligence/New_index1.html</a>