CSH 511: Artificial Intelligence		
Teaching Scheme Lectures: 4 hrs/Week Tutorials: 2 hr/Week Credits: 6	Examination Scheme Class Test -20 Marks Teachers Assessment – 10 Marks Attendance – 20 Marks End Semester Exam – 100 marks	
Prerequisite: - CSH101 C Programming, CS	H201 Discrete Mathematics.	
<ul> <li>to analyze the data to make a proper</li> <li>To know the application areas and be agents.</li> <li>To initiate the concepts of a Ration</li> </ul>	al Intelligent Agent and the different types of Agens in different fields.	
Detailed Syllabus Unit-1 Introduction: Overview of Artificial Intellige Solving: Problems, Problem Space & Search: System, Problem Characteristics, issues in the d	ence- Problems of AI, AI and related fields. <b>Proble</b> Defining the Problem as State Space Search, Productions of Search Programs.	
r ::::tad Search Comparing Uniform Search St	ries: Breadth First Search, Depth First Search, Depth rategies, Greedy Best-First Search, A* Search, Memothms & Optimization Proplems: Hill Climbing Search.	
Unit-3 Knowledge representation: Knowledge R Approaches to Knowledge Representation, manipulation Knowledge acquisition.  To Computer Approximations  To Computer Science (Honors) in Computer Science (Honors)	Issues in Knowledge Representation, Knowled	

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Unit-4 Using Predicate Logic: Representing Simple Fact in Logic, Representing Computable Functions & Predicates, Resolution, natural deduction. Representing Knowledge Using Rules: Procedural Verses Decl Programming, Forward Verses Backward Reasoning, Matching, Control K. Unit-5 Natural Language Processing: Introduction, Syntactic Processing, Sem. Pragmatic Processing.	arative Knowledge, Logic nowledge.
Unit-6 Expert System: Rule based system architecture, Non production system arganization and validation, Existing Systems (DENDRAL, MYCIN).	em architecture, knowledge
Text and Reference Books  1. "Artificial Intelligence", Ritch & Knight, TMH, 2006.  2. "Introduction to Artificial Intelligence & Expert Systems", Patterson, PHI, 2007.  3. "Artificial Intelligence: A Modern Approach", Russell, S., Norvig, P, Pearson Ed. "Introduction to A.I.", Charnick, Addision Wesley, 1999.	ducation, 2006.
<ol> <li>Course Outcomes:         After completing the course, students will be able to:     </li> <li>How to solve a particular problem by using different algorithms which is 2. How to make proper decisions by gathering information and analyzing to 3. How expert system works and perform tasks.</li> <li>How to convert a particular sentence into logical statement.</li> <li>Analyze the problem as a state space, graph, design heuristics and select based techniques to solve them.</li> <li>Apply concept Natural Language processing to problems leading to computing.</li> </ol>	ct amongst different search-