

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Syllabus

III Year-VI Semester: B.Tech. Computer Science and Engineering

6CS4-05: Artificial Intelligence

Credit: 2 Max. Marks: 100(IA:20, ETE:80)
2L+0T+0P End Term Exam: 2 Hours

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SN	Contents	Hours	
1	Introduction: Objective, scope and outcome of the course.	01	
2	Introduction to AI and Intelligent agent: Different Approach of AI, Problem Solving: Solving Problems by Searching, Uninformed search, BFS, DFS, Iterative deepening, Bi directional search, Hill climbing, Informed search techniques: heuristic, Greedy search, A* search, AO* search, constraint satisfaction problems.	03	
3	Game Playing: Minimax, alpha-beta pruning, jug problem, chess problem, tiles problem	06	
4	Knowledge and Reasoning: Building a Knowledge Base: Propositional logic, first order logic, situation calculus. Theorem Proving in First Order Logic. Planning, partial order planning. Uncertain Knowledge and Reasoning, Probabilities, Bayesian Networks.	06	
5	Learning: Overview of different forms of learning, Supervised base learning: Learning Decision Trees, SVM, Unsupervised based learning, Market Basket Analysis, Neural Networks.	07	
6	Introduction to Natural Language Processing: Different issue involved in NLP, Expert System, Robotics.	05	
	Total	28	