

Lesson Plan

Name of Faculty : Harpreet Kaur, Assistant Professor
Discipline : Computer Science and Engineering
Semester : 7th (odd)
Subject : Artificial Intelligence (PC/CSE/20-T)
Load (Lecture/Practical) per week (in hours):

Lectures-03hours.

Week	Theory		Topic Covered Date and Remarks		
	Lecture Day	Topic(Including Assignment/Test)	Date	HOD	Director-Principal
1 st	1	Introduction to AI			
	2	Turing Test, AI problems, State Space Search			
	3	Problem Solving Using Search			
2 nd	4	Blind search techniques-Breadth first search			
	5	Depth first search. Heuristic Search techniques			
	6	Generate and test, hill Climbing			
3 rd	7	Best first search, A* Algorithm			
	8	AO+ Algorithm			
	9	Minimax Search Procedure			
4 th	10	Adding Alpha-Beta Cut-offs			
	11	Knowledge Representation			
	12	Representation and Mappings			
5 th	13	Symbolic Logic-Propositional logic			
	14	Predicate logic-Representing simple facts in logic			
	15	Representing Instances and ISA Relationship, Computable functions and Predicates,			
6 th	16	Unification, Resolution			
	17	Representing Knowledge Using Rules			
	18	Procedural versus Declarative Knowledge			
7 th		1stMinor Test			
8 th	19	Logic Programming			
		Forward versus backward reasoning			
	20	Matching, control Knowledge.			
9 th	21	Introduction to Non monotonic Reasoning			
	22	Probability and Baye's Theorem,			
	23	Baye's theorem			
10 th	24	Certainty Factors and Rule-based Systems			
	25	Bayesian networks,			
	26	Fuzzy logic system			
11 th	27	Introduction, Crisp Set			
	28	Fuzzy Sets			
	29	Fuzzy Membership Functions			
12 th	30	Operations on Fuzzy Sets.			
	31	Fuzzy Relations			
	32	Planning			
13 th	33	Components of Planning System			
	34	Goal Stack planning,			
	35	Nonlinear planning using Constraint Posting,			
14 th	36	Hierarchical planning			
		2ndMinor Test			
15 th	37	Expert System and Applications			
	38	Architecture, Rule based Expert Systems			
	39	Applications of Expert Systems.			