

SSN COLLEGE OF ENGINEERING
SSN Nagar, Kalavakkam-603110
Department of CSE
COURSE PLAN

SUBJECT NAME	:	ARTIFICIAL INTELLIGENCE
SUBJECT CODE	:	CS6659
DEGREE / YEAR	:	B.E. CSE / III YEAR
SEMESTER	:	VI
NAME OF THE FACULTY	:	Dr. S. SHEERAZUDDIN / Dr. S. KAVITHA

Teaching methodology and aids: Powerpoint presentations\Projector\Use of ICT\Chalk and Blackboard (Content Delivery Method (CDM)) (for all topics) T-Tutorial, S-Seminar

Sl.No	Unit No	Topic	CDM	No of Hrs (plan)	No of Hrs (actual)	Remarks
1	UNIT 1 (10 Hrs) Introduction To AI And Production Systems	Introduction to AI, Problem Formulation-Problem Definition		2		
2		Production Systems-Control Strategies, Search Strategies		1		
3		Problem characteristics, Production system characteristics -Specialized production system		1		
4		Problem solving methods - Problem graphs, Matching, Indexing and Heuristic functions		2		
5		Hill Climbing-Depth first and Breath first Constraints satisfaction - Related algorithms	T	3		
6		Measure of performance and analysis of search algorithms		1		
		Planned Hours		10		
7	UNIT 2 (10 Hrs) Representat ion of Knowledge	Game playing		2		
8		Knowledge representation, Knowledge representation using Predicate logic		2		
9		Introduction to predicate calculus, Resolution		2		
10		Use of predicate calculus, Knowledge representation using other logic	T	2		
11		Structured representation of knowledge		2		
		Planned Hours		10		

Sl.No	Unit No	Topic		No of Hrs (plan)	No of Hrs (actual)	Remarks
12	UNIT 3 (9 Hrs) Knowledge Inference	Knowledge representation, Production based system, Frame based system		2		
13		Inference - Backward chaining, Forward chaining, Rule value approach		2		
14		Fuzzy reasoning - Certainty factors		2		
15		Bayesian Theory-Bayesian Network-Dempster - Shafer theory.		3		
		Planned Hours		9		
16	UNIT 4 (9 Hrs) Planning and Machine Learning	Basic plan generation systems - Strips		2		
17		Advanced plan generation systems – K strips		2		
18		Strategic explanations -Why, Why not and how explanations		2		
19		Learning- Machine learning, adaptive Learning.	T	3		
		Planned Hours		9		
20	UNIT 5 (9 Hrs) Expert Systems	Expert systems - Architecture of expert systems, Roles of expert systems		3		
21		Knowledge Acquisition –Meta knowledge, Heuristics		2		
22		Typical expert systems - MYCIN, DART, XOON	S	3		
23		Expert systems shells		1		
24		Planned Hours		9		

Total Number of Syllabus Hours : 45

Total Number of Planned Hours : 47

PREPARED BY

Dr. S. SHEERAZUDDIN / Dr. S. KAVITHA

APPROVED BY

HOD-CSE