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**
ACADEMIC YEAR	**:**	**2017-2018 (EVEN)**
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 Al 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)** **Representation 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 **APPROVED BY**

Dr. S. SHEERAZUDDIN / Dr. S. KAVITHA **HOD-CSE**