



VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN

[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Course Code / Name : U14CS738 / Artificial Intelligence

Class : (IV /B.E / CSE /A&B)

LESSON PLAN

UNIT -1 (INTRODUCTION TO AI AND PRODUCTION SYSTEMS)				
Session No	Topic	Duration in Minutes	Teaching Aid	Book Referred
1	Introduction to AI	45	PPT	R1
2	Problem formulation	45	PPT	R1
3	Problem Definition	45	PPT	R1
4	Production systems	45	PPT	R1
5	Control strategies	45	PPT	R1
6	Production system characteristics	45	PPT	R1
7	Specialized production system	45	PPT	R2
8	Problem solving methods	45	PPT	R2
9	Problem graphs, Matching	45	PPT	R2
UNIT -2 (REPRESENTATION OF KNOWLEDGE)				
10	Game playing	45	PPT	R1,R2
11	Knowledge representation	45	PPT	R1,R2
12	Knowledge representation using Predicate logic	45	PPT	R1,R2
13	Introduction to predicate calculus	45	PPT	R1,R2
14	Resolution	45	PPT	R1,R2
15	Use of predicate calculus	45	PPT	R1,R2
16	Knowledge representation using other logic	45	PPT	R1,R2
17	Structured representation of knowledge	45	PPT	R1,R2
18	Introduction to predicate calculus	45	PPT	R1,R2
UNIT -3 (KNOWLEDGE INFERENCE)				
19	Knowledge representation	45	PPT	R1,R2
20	Production based system	45	PPT	R1,R2
21	Frame based system	45	PPT	R1,R2
22	Inference	45	PPT	R1,R2
23	Backward chaining	45	PPT	R1,R2
24	Forward chaining	45	PPT	R1,R2
25	Rule value approach,	45	PPT	R1,R2
26	Fuzzy reasoning	45	PPT	R1,R2
27	Certainty factors	45	PPT	R1,R2
UNIT -4 (PLANNING AND LEARNING)				
28	Basic plan generation systems	45	PPT	R1
29	Strips	45	PPT	R1
30	Advanced plan generation systems	45	PPT	R1
31	K strips	45	PPT	R1
32	Strategic explanations	45	PPT	R1
33	Why, Why not and how explanations. Learning	45	PPT	R1
34	Statistical learning	45	PPT	R1
35	Reinforced learning	45	PPT	R1
36	Strips	45	PPT	R1

UNIT -5 (EXPERT SYSTEMS)				
37	Expert systems	45	PPT	R1
38	Architecture of expert systems	45	PPT	R1
39	Roles of expert systems	45	PPT	R1
40	Knowledge Acquisition	45	PPT	R1
41	Meta knowledge	45	PPT	R1
42	Heuristics	45	PPT	R1
43	Typical expert systems	45	PPT	R1
44	MYCIN, DART, XOON, Expert systems shells	45	PPT	R1
45	Meta knowledge	45	PPT	R1