

College of IT and Management Education

Lesson plan

Sub : ARTIFICIAL INTELLIGENCE AND EXPERT (MCC 501)

Branch : MCA

Semester :5th Semester MCA

Name of the Faculty : PRANAB KUMAR MOHANTY

Total Credit Point: :4

Total number of classes: 40

Sl. No.	TOPIC PLANNED	SESSION
	MODULE-I	15Hours
1	Artificial Intelligence: Introduction.	1
2	Intelligent Agents: Agents & Environments .	1
3	Concept of Rationality, Nature & Structure of Agents.	1
4	Problem Solving: Solving Problems by Searching .	1
5	Classical Search .	1
6	Adversarial Search .	1
7	Constraint Satisfaction Problems.	1
8	Knowledge.	1
9	Reasoning and Planning: Logical agents.	1
10	First order logic.	1
11	Representation by FOPL.	1
12	Inference in First order logic.	1
13	Resolution Algorithm.	1
14	Problem Discussion.	1
15	Problem Discussion.	1
	MODULE-II	13Hours
16	Classical planning.	1
17	Knowledge Representation.	1
18	Uncertain Knowledge and Reasoning.	1
19	Probabilistic Reasoning.	1
20	Learning from Examples.	1
21	Knowledge in Learning.	1
22	Natural Language Processing.	1
23	Language models.	1
24	Text Classification.	1
25	Information retrieval	


26	Information extraction.	1
27	Problem Discussion.	1
28	Problem Discussion.	1
	MODULE-II	12Hours
29	Natural Language for Communication.	1
30	Phrase structure Grammars.	1
31	Syntactic Analysis.	1
32	Augmented grammars and semantic interpretation.	1
33	Problem Discussion.	1
34	Machine translation.	1
35	Speech recognition.	1
36	Perception.	1
37	Expert Systems: Introduction.	1
38	Design of Expert systems.	1
39	Problem Discussion.	1
40	Problem Discussion.	1

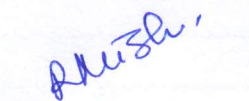
Text book:

1. Stuart **Russell** and Peter **Norvig**, "*Artificial Intelligence: A Modern Approach*", Third Edition, 2010, Pearson Education, New Delhi.

Reference Books:

1. Elaine A. **Rich** and Kevin **Knight**, "*Artificial Intelligence*", 3rd Edition, 2009, McGrawHill Education (India), New Delhi.
2. Nills J. **Nilsson**, "*Artificial Intelligence: A New Synthesis*", 2nd Edition, 2000, Elsevier India Publications, New Delhi.
3. Michael **Negnevitsky**, "*Artificial Intelligence: A Guide to Intelligent Systems*", Second Edition, 2005, Pearson Education, Inc. New Delhi.
4. Dan W. **Patterson**, "*Introduction to Artificial Intelligence and Expert Systems*", 1st Edition, 1996, PHI Learning Pvt. Ltd., New Delhi.
5. Ben **Coppin**, "*Artificial Intelligence Illuminated*", 2005, Narosa Publication, New Delhi. ISBN: 978-81-7319-671-3


Faculty


course Coordinator


Principal