LESSON PLAN

Subject: Artificial Intelligence　　　　　**Subject code: MCA-20-33**

Semester: III

Sr. No	Topic	No. of Lectures	CO Covered	Teaching Methodology
1	Overview of the Subject	1	CO1	Board
2	Background and History of AI	1		PPT
3	Applications of AI	1		Board
4	The predict Calculus: Syntax and Semantic for prepositional logic & FOPL	2		Board
5	Clausal form.	1		PPT
6	Inference Rules	1		Board
7	Resolution	1		Board, PPT
8	Unification	1		Board
9	Knowledge Representation Networks	1		PPT
10	Structured representation	2		PPT
11	Search Strategies Overview	1	CO2	PPT
12	Depth First Search	1		Board
13	Breadth First Search	1		Board, Flip Learning
14	DFS wit iterative Deepening	1		Board
15	Hill Climbing Search	1		Board
16	Best First Search	1		Board
17	A* Search	1		Board
18	Mini-Max Search	1		Board

19	Properties of Search Algorithm	1			PPT. Board
20	Production System and Types of production System: Overview	1			PPT
21	Decomposable and non-decomposable production system.	1			PPT
22	Control of search in Production system	1			PPT
23	Rule Based Expert System: Architecture, Development	1			PPT
24	Bayesian probability theory	1			PPT
25	Standard certainty factor algebra	1	CO3		PPT
26	Nonmonotonic logic and reasoning with beliefs	1			PPT
27	Fuzzy Logic	2			PPT, Board
28	Dempster/Shaffer and other approaches to uncertainty	1			Board, PPT
29	Knowledge Acquisition: types of learning, Learning by Automata	2	CO4		PPT and Board
30	Intelligent Editors	2			PPT
31	Learning by Induction	1			PPT, Board
32	Genetic Algorithm: Problem representation	1			PPT, Board

| 33 | Encoding Schemes | 2 | | PPT, Board |
| 34 | Operators: Selection, Crossover, Mutation and Replacement etc. | 1 | CO4 | PPT, Board |