

Lesson Plan of Artificial Intelligence

(3rd year 1st sem, CSE)

Course code: PEC-IT501B

Serial no.	Course Plan	No. of Lectures
1.	Natural intelligence and its properties, overview of artificial intelligence, Task domains of AI-Mundane tasks and Expert tasks, Examples of real-life applications of AI in different areas, overview of different types of AI techniques	1L
2.	Overview of different types of AI techniques	1L
3.	Intelligent agents and its properties, goal-based agent, utility-based agent, learning agent	1L
4.	Goal based problem solving and defining the problem as a state space graph	1L
5.	Search techniques: Blind search and Heuristic search, Different types of blind search techniques	1L
6.	Heuristic search and different types of heuristic search techniques for goal-based problem solving	1L
7.	Heuristic search continuation	1L
8.	Game Playing	1L
9.	Game Playing	1L
10.	Constraint satisfaction problem in AI	1L
11.	Production System and its characteristic, examples	1L
12.	Local search techniques for optimization: Hill climbing, simulated annealing	
13.	Genetic Algorithm	1L
14.	Knowledge based reasoning techniques	1L
15.	Proposition and Predicate logic	1L
16.	Proposition and Predicate logic	1L
17.	Proposition and Predicate logic	1L
18.	Probabilistic Reasoning	1L
19.	Probabilistic Reasoning	1L
20.	Probabilistic Reasoning	1L
21.	Probabilistic Reasoning	1L
22.	Machine learning techniques	1L

23.	Machine learning techniques	1L
24.	Expert system	1L