

## Artificial Intelligence (CS2002)

Date: 26-01-2023

Week No.	Topics	Detailed Topics
1	Introduction to AI;	Agents + Definitions of AI + History + Current State of the art
2	Agents + Environments	Structure of an Agent, Types of Environments, Types of Agents
3	Machine Learning	Supervised Learning kNN, Decision Trees etc.
4		Supervised Learning Artificial Neural Networks (ANN)
5		Multi-layer perceptron, Backpropagation
6	<b>Sessional I</b>	
7		Unsupervised Learning K-mean Clustering
8	Local Search	Optimization Problems Hill Climbing, Simulated Annealing
9		Local Beam Search, Genetic Algorithm
10	Uninformed Searching	Depth First Search, Breadth First Search, <b>Uniform Cost Search, Bidirectional Search</b>
11	Informed Search	Greedy Search, A* Search, Recursive Best First Search
12	<b>Sessional II</b>	
13	Constraint Satisfaction Problems	
14		
15	Adversarial Searches	
16		