Course Code	CSC643		
Course Name	Artificial Intelligence		
Credits	4		
Course Offered to	UG/PG		
Course Description	This is an introductory course in Artificial Intelligence. This could knowledge representation, reasoning, and learning.	rse introduces the students to vari	ious search techniques,
	Pre-requisites		
Pre-requisite (Mandatory)	Pre-requisite (Desirable)	Pre-requisite(other)	
CSE102 Data Structures & Algorithms			
*Please insert more rows if require	ed	•	_
	Post Conditions*(For suggestions on verbs please refe	er the second sheet)	
CO1	CO2	CO3	CO4
Students are able to apply basic search techniques for problem solving.	Students are able to explain how to represent Knowledge required for problem solving.	Students are able to apply reasoning to sift through data.	Students are able to utilize AI for application in real world.
	Weekly Lecture Plan		
Week Number	Lecture Topic	COs Met	Assignment/Labs/Tutorial
week 1	Introduction to AI	CO1, CO2	
week 2	Blind search and search based on Heuristics	CO1	
week 3	Search using constrained satisfaction	CO1	Assignment 1
week 4	Adversarial search (game playing)	CO1,CO2	
week 5	Nature inspired search algorithms	CO1,CO2	Assignment 2
week 6	Knowledge representation using Frames and Conceptual dependency	CO1,CO2	
week 7-8	Knowledge representation using Predicate Logic	CO2,CO3	
week 9-10	Probabilistic Reasoning: Bayesian Network, Dempser Shafer, Fuzzy Logic	CO2,CO3	Assignment 3
Week 11	Learning: Perceptrons and Neural Networks	CO3,CO4	Assignment 4
Week 12	Planning	CO2,CO3,CO4	
week 13	Knowledge representation : Natural Language processing, Applications	CO2,CO4	
*Please insert more rows if require	ed		
	Weekly Lab Plan		
			Platform
Week Number	Laboratory Exercise	COs Met	(Hardware/Software)

*Please insert more rows if	required		
Assessment Plan			
Type of Evaluation	% Contribution in Grade		
Class Test	15		
Mid-sem	25		

*Please insert more row for other type of Evaluation

Resource Material			
Туре	Title		
Textbook	Artificial Intelligence: A modern approach by Peter Norvig and S Russell,		
	Artificial Intelligence:by Rich, Knight, and Nair, TMH		