## Lesson Plan

Name of the Faculty	:	RAJEEV ANAND (ASST.PROFESSOR)
Discipline	:	MCA
Semester	:	4TH
Subject	:	ARTIFICIAL INTELLIGENCE (MCA-508)
Lesson Plan Duration	:	15 weeks (from January, 2018 to April, 2018)

Work Load (Lecture/Practical) per week (in hours):Lecture: 3, Tutorial: 1

Week		Theory			
	Lecture Day	Topic(including Assignment/Test)			
1st	1 <sup>st</sup>	Overview of AI subjects with foundation and history			
	2 <sup>nd</sup>	Overview of AI subjects with foundation and history			
	3 <sup>rd</sup>	Al problems Breadth first- Depth first- heuristic search			
		techniques,			
	4 <sup>th</sup>	Tutorials of AI problems with Real World			
2nd	5 <sup>th</sup>	constraint satisfaction problems,			
	6 <sup>th</sup>	stochastic search methods,			
	7 <sup>th</sup>	stochastic search methods,			
	8 <sup>th</sup>	Problem of students with respect to AI problems			
3rd	9 <sup>th</sup>	game tree: Min max algorithms,			
	10 <sup>th</sup>	game playing- alpha beta pruning			
	11 <sup>th</sup>	Difference between both tree and playing			
	12 <sup>th</sup>	Tutorials for game problems with respect to AI			
4th	13 <sup>th</sup>	Assignments on AI problems to real world compare			
	14 <sup>th</sup>	- Knowledge representation issues			
	15 <sup>th</sup>	predicate logic,			
	16 <sup>th</sup>	Test 1 (Searching Techniques In Al)			
5th	17 <sup>th</sup>	constraint propagation,			
	18 <sup>th</sup>	representing knowledge using rules,			
	19 <sup>th</sup>	rules of inference;			
	20 <sup>th</sup>	converting arbitrary wff to conjunction of clauses			
6th	21 <sup>st</sup>	Overview of knowledge representation in Al			
	22 <sup>nd</sup>	Overview of rules based deduction systems:			
	23 <sup>rd</sup>	Resolution in Predicate Logic, Unification			
	24 <sup>th</sup>	Resolution in Predicate Logic, Unification			
7th	25 <sup>th</sup>	Sessional 1 Examination			
	26 <sup>th</sup>				
	27 <sup>th</sup>				
	28 <sup>th</sup>				
8th	29 <sup>th</sup>	Overview of Reasoning Theory			
	30 <sup>th</sup>	Reasoning under uncertainty			

	31 <sup>st</sup>	review of probability,		
	32 <sup>nd</sup>	Bayesian probabilistic interferences and Dempstershafer		
		theory,		
9th	33 <sup>rd</sup>	Bayesian probabilistic interferences and Dempstershafer		
		theory,		
	34 <sup>th</sup>	Heuristic methods,		
	35 <sup>th</sup>	symbolic reasoning under uncertainty		
	36 <sup>th</sup>	Overview of AI THEORIES		
10th	37 <sup>th</sup>	Statistical reasoning, Non monotonic reasoning.		
	38 <sup>th</sup>	Test 2 (AI Theories)		
	39 <sup>th</sup>	Revision Of first 3 units with real time comparing of AI		
	40 <sup>th</sup>	Revision Of first 3 units with real time comparing of AI		
11th	41 <sup>st</sup>	AI Planning Overview		
	42 <sup>nd</sup>	planning in situational calculus,		
	43 <sup>rd</sup>	representation for planning,		
	44 <sup>th</sup>	Tutorials for detailed study in planning		
12th	45 <sup>th</sup>	partial order planning algorithm,		
	46 <sup>th</sup>	Learning from examples,		
	47 <sup>th</sup>	Learning from examples,		
	48 <sup>th</sup>	discovery as learning,		
13th	49 <sup>th</sup>	Sessional 2 Examination		
	50 <sup>th</sup>			
	51 <sup>st</sup>			
	52 <sup>na</sup>	Tutorials of Learning in Al		
14th	53 <sup>rd</sup>	learning by analogy, Rote learning,		
	54 <sup>th</sup>	Explanation based learning, Neural learning.		
	55 <sup>th</sup>	Tutorials on Overview of NLP		
	56 <sup>th</sup>	Principles of Natural language processing		
15th	57 <sup>th</sup>	AI application to robotics,		
	58 <sup>th</sup>	Current trends in artificial intelligence.		
	59 <sup>th</sup>	Problems Session		
	60 <sup>th</sup>	Problems Session		

## IMPORTANT DATES (KEY DATES)

- \* 14 to 16 February, 2018 (Wednesday -Friday) ------ SESSIONAL I
- \*4 6 April, 2018 (Wednesday Friday) ------ SESSIONAL II
- \*27 April, 2018 (Friday) ------ LAST DAY OF SESSION
- \*1 May to 8 May, 2018 (Tuesday-Tuesday) ------ PRACTICAL EXAMINATION

Start of End semester examinations (Even Semester) -----11 May, 2018 (Friday) to 10 June, 2018 (Sunday)