

Faculty of Computers and Information Technology

Artificial Intelligence

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Information	<u>:</u>						
Course Coo	le: CSC 341	Level :	Undergraduate	Course Hours :	3.00- Hours		
Department	: Department of Informa	tion Systems					
Area Of Stu	<u>dy :</u>						
Knowledge Representations: Predicate Calculus, Structured Representations, Network Representations. State Space Search: trees and graphs, heuristic search, model based reasoning, case-based reasoning, reasoning with uncertain or incomplete knowledge. Overview of AI languages, Overview of AI Application Areas.							
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Course out	comes :						
a.Knowledg	e and Understanding: :						
1 -	Have some understanding of the basic concepts and techniques of AI						
2 -	Have some understanding of the basic concepts of knowledge based systems.						
3 -	Have some understanding of some blind and heuristic search techniques						
4 -	Have some understanding of issues in knowledge acquisition, and representation						
5 -	Have some understanding of issues in monotonic and non-monotonic Logic						
6 -	Have some understanding of Machine Learning and Neural Networks						
b.Intellectua	al Skills: :						
1 -	Appreciate the subtleties related to different approaches to AI						
2 -	Appreciate the subtleties related to different AI techniques						
3 -	Decide the suitability of AI techniques for a problem/domain						
4 -	Analyze and design a KBS for a simple domain.						
c.Professio	nal and Practical Skills: :						
1 -	Have some practice of knowledge acquisition						
2 -	Represent knowledge of a domain in a suitable knowledge representation formalism						
3 -	Write simple AI programs in PROLOG or C/C++.						
4 -	Represent and implement AI solutions to a suitable AI problems						
5 -	Implement a KBS for a simple domain						
d.General a	d.General and Transferable Skills: :						
1 -	Deploy communication ski	lls					

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2 -	Deploy research skills		
3 -	Work effectively within a group to analyze, design and implement an Intelligent Systems		
4 -	To work to tight deadlines		
5 -	Effectively present the final work in a demo		
6 -	Justify students design decisions in a written document		

Course Topic And Contents :

Торіс	No. of hours	Lecture	Tutorial / Practical
Introduction to AI Concepts	4	2	2
Problems and Problem space	4	2	2
Problem Characteristics	4	2	2
Al-Search	4	2	2
1st Mid-Term Exam	4	2	2
Knowledge Acquisition	4	2	2
Knowledge Representation (Production Rules)	4	2	2
Knowledge Representation (Semantic Nets Frame)	4	2	2
2nd Mid-Term Exam	4	2	2
Geometric analogy net	4	2	2
Recording Cases	4	2	2
AI Topics	4	2	2
Revision	4	2	2
Final Exam	4	2	2

Teaching And Learning Methodologies :		
Lectures		
Practical training		
Projects		
Web-Site searches		

Course Assessment :						
Methods of assessment	Relative weight %	Week No	Assess What			
Final Exam	40.00	16				
Midterm I	15.00	6				
Midterm II	15.00	12				
Quiz &assignment	30.00	4				

