

Faculty of Computers and Information Technology

Artificial Intelligence

Information:

Course Code: CSC 341 Level: Undergraduate Course Hours: 3.00- Hours

Department : Department of Computer Science

Instructor Information :				
Title	Name	Office hours		
Associate Professor	Hanaa Bayoumy Ali Mubarrez			
Teaching Assistant	Hoda Ashraf Mohamed Mohamed Mostafa			
Teaching Assistant	Basmala Fouad Farouq Abdultwab			

Area Of Study:

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 ou	tcomes:			
a.Knowled	lge 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.Intellect	ual Skills: :			
1 -	Appreciate the subtleties related to different approaches to Al			
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.Profess	onal 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	nd Transferable Skills: :	
1 -	Deploy communication skills	
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 :			
Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to Al 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
Al 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