

Faculty of Computers & Information Technology

Artificial Intelligence

Information :						
Course Code :	CSC 341	Level	:	Undergraduate	Course Hours :	3.00- Hours
Department :	Department of Compu	ter Science				
Instructor Infor	mation :					
Title		Name				Office hours
Lecturer		HEBA MOH	ISE	N MOHAMED MOSA	AD HUSSIEN	3
Lecturer		HEBA MOH	ISE	N MOHAMED MOSA	AD HUSSIEN	3
Assistant Lecture	er	Hadeer Kha	alid	Tawfik El Zayat		
Teaching Assista	ant	Rahmatalla	ıh H	lossam Farouk Hassar	Mohamed	6

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Teaching Assistant	Rahmatallah Hossam Farouk Hassan Mohamed AlSofany	6
Teaching Assistant	Rahmatallah Hossam Farouk Hassan Mohamed AlSofany	6

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 outcomes :			
a.Knowledge 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.Intellectual 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.Professi	c.Professional 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 and 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 :

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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		