Republic of Iraq
The Ministry of Higher Education
& Scientific Research

University: Anbar
College: CS & IT
Department: Computer Networks Systems
Stage: 4th Year
Instructor name: Dr. Belal Al-Khateeb
Academic status: Prof.
Qualification: PhD
Place of work: University of Anbar

Course Weekly Outline

Course Name: Artificial Intelligence I

Course Instructor	Dr. Belal Al-Khateeb				
E-mail	belal-alkhateeb@uoanbar.edu.iq				
Title	Prof.				
Course Coordinator	Dr. Belal Al-Khateeb				
Course Objective	1- Understanding of AI definitions, characteristics and types. 2- Distinguishing between AI search techniques. 3- Designing smart systems for solving daily life problems.				
Course Description	This course aims to make students know about AI and how to solve problems by using blind search techniques and resolution methods.				
Textbook	Artificial Intelligence: A Modern Approach, Stuart Russell and Peter Norvig, Pearson Education, 2020.				
References	Artificial Intelligence: Structures and Strategies for Complex Problem Solving, George F. Luger, Addison-Wesley, 2008				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%	15%	10%	5%	50%
General Notes	-				

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Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		General Introduction.		
2		The History of AI.		
3		Systematic Search: Basic Graph Concepts; State Space Representation of Problems.		
4		Depth-First Search.		
5		Breadth-First search.		
6		Hybrid Search.		
7		Propositional Logic and Resolution in Proposional Logic;		
8		Predicate Logic: Basic Concepts and Definitions		
9		Predicate Logic: Examples		
10		Mid Term Exam		
11		Horn Clauses; Unification and Skolemization		
12		Clause Normal Form.		
13		Modus-Ponens and Resolution Inference Rules in Predicate Logic.		
14		Control Strategies for Resolution Inference (Problem Solving).		
15		Control Strategies for Resolution Inference (Problem Solving).		

Instructor Signature: **Dean Signature:**