



**Flow up of  
implementation  
syllabus**

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<b>Title</b>	Lecturer				
<b>Course Coordinator</b>					
<b>Course Objective</b>	1. Teaching artificial intelligence skills in both practical and theoretical aspects 2. Application of this knowledge in various fields of work				
<b>Course Description</b>					
<b>Textbook</b>	George F. Luger, "Artificial Intelligence, Structures and Strategies for Complex Problem Solving", Sixth Edition, Addison Wesley, 2009 Stuart J. Russell and Peter Norvig, "Artificial Intelligence, a Modern Approach", Fourth Edition, Prentice Hall, 2021				
<b>Course Assessment</b>	Theory	Laboratory	Quizzes	Project	Final Exam
	30	10	5	5	50
<b>General Notes</b>					



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## Course weekly Outline

week	Date		Lab. Experiment Assignments	Notes
1	2023/21/09	Introduction to artificial intelligence languages and branches Intelligence	Components of a programming language facts, properties, ) applications, architecture, and rules) d	
2	9/28/2023	Defining the scope of solving the 2 problem	Types of variables in language prolog	
3	2023/10/05	Characteristics of the problem-solving domain	Backtracking	
4	2023/10/12	Examples of problem solving area -such as 8puzzle And water jug problem	Examples of backtracking	
5	2023/10/19	Types of search (blind search)	Data types and program structure	
6	2023/10/26	Breadth first search	Different programs	
7	2023/11/02	Depth search algorithm	Input and output statements	
8	11/9/2023	Heuristic search	Different programs	
9	11/16/2023	g algorithm Hill Climbing	Logical and mathematical operations	
10	11/30/2023	Best First Search	Various examples	
11	2023/12/07	a* algorithm	Quiz	
12	2023/12/14	Quiz	Loop	
13	2023/21/12	Review before exam	Review before exam	
14	2023/24/12	Exams		



Half-year Break  
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University: Thi-Qar  
College: Education College for pure  
Science  
Department: Computer Science  
Stage: Third  
Lecturer name: Dr Walaa Khashlan  
Yesser  
Academic Status: PhD

17	28/1/2024	Adversarial search	Lists	
18	04/2/2024	Min-Max Algorithm	Programs different from menus	
19	11/2/2024	Alpha-Beta Pruning	Search the list	
20	18/2/2024	Knowledge representation	Merge lists	
21	25/2/2024	Semantic networks Conceptual graph	Programs about lists	
22	03/3/2024			
23	10/3/2024			
24	17/3/2024			
25	24/3/2024			
26	31/3/2024			
27	07/4/2024			
28	14/4/2024			
29	21/4/2024			
30	28/4/2024			
31	05/5/2024			
32	12/6/2024	Exams		

تؤيد اللجنة العلمية مطابقة الخطة التدريسية لمفردات منهج المادة الدراسية

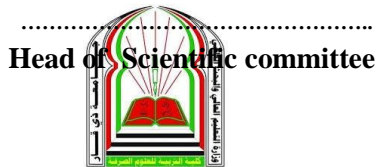
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Instructor Signature(Lab.)

.....  
Instructor Signature(Theoretical)

1<sup>st</sup> Scientific committee member  
Republic of Iraq  
The Ministry of Higher Education  
& Scientific Research  
**2024-2023**



3<sup>rd</sup> Scientific committee member  
University: Thi-Qar  
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