Teacher: **Mohsen Ramezani**

E-mail: m.ramezani@uok.ac.ir

Webpage: eng.uok.ac.ir/mramezani/teaching

References: Artificial Intelligence: A Modern Approach – by Stuart J. Russell

Projects and Homeworks will be uploaded on the LMS (lms.uok.ac.ir) every Thursday.

Evaluation: 55% Final exam+30% Midterm+15%Project.

Session No.	week	Topic
Session 1	1	Introduction and history. Which scientific field are the prerequisites of AI?
Session 2	2	Artificial agents – Different environments and agents' structures.
Session 3	3	How AI can solve problems? – Introduction to different possible solutions.
Session 4	4	Utilizing Systematic algorithms to find the Global or Local solution. Especially BFS.
Session 5	5	Introduction to DFS and LDFS search methods with examples.
Session 6	6	How to use Innovative search methods? – Creating solutions and evaluating them.
Session 7	7	Greedy based methods based on the evaluation metric – A* and IDA*
Session 8	8	Introduction to hill climbing and simulated annealing methods.
Session 9	9	Constraint satisfaction issues.
Session 10	10	Game based search methods - Min_Max and Alfa_Betta methods.
Session 11	11	Knowledge representation – First order logic
Session 12	12	Introduction to resolution rule.
Session 13	13	Introduction to Prolog programming.
Session 14	14	Presentations.
Session 15	15	Overview.