

Artificial Intelligence Course Details:

Sessions:

- **Theoretical:** Presentations Based on:
“Artificial Intelligence: A Modern Approach : Russel,Norvig”

Exercises:

- **Theoretical:**
 1. Problems based on presentations
- **Practical:**
 1. Implementation of theoretical concepts (platform: Quera)

Final Project:

- Machine learning

Course Webpage : <https://vc.kntu.ac.ir/course/view.php?id=2735>

Quera Webpage : https://quera.org/course/add_to_course/course/17229/

Sessions:

Session	Duration	Objectives
1	90 min	Components of an AI System,Rationality,System Propertis,Environment Properties,Agent Types
2	90 min	Search,BFS,DFS
3	90 min	UCS,Informed Searches,BFS,Hill Climbing,A*
4	90 min	Admissible heuristics,IDA*,RBFS,SMA*,Relaxed problems
5	90 min	Simulated Annealing,Genetic Algorithms,PSO
6	90 min	CSP
7	90 min	Types of games,Zero-Sum Games,Minimax Algorithm,Alpha_Beta,Nondeterministic Games,Nash Equilibrium
8	90 min	Knowledge Representation,Role of KR,The Wumpus World Environment,Entailment,Logics,Propositional Logic
9	90 min	Machine Learning
10	90 min	Machine Learning