Intelligent Systems

General Engineer Subjects Elective 2 credit

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1. Course Description

We overview classical artificial intelligence and discuss its limitations. Also, this course deals with the following topics: soft-computing, pattern recognition and machine learning.

2. Course Objectives The aim of the course is to learn fundamental concepts and techniques of intelligent systems.

3. Grading Policy Students are evaluated with two reports (50%, 50%).

4. Textbook and Reference Textbook No textbook is used.

The following book written in English is recommended. -Stuart Russel, Peter Norvig, Artificial Intelligence: A Modern Approach, Global Edition, Pearson Education Limited, ISBN 978-1292153964, 2016.

5. Requirements(Assignments)

Basic skills of programming and the knowledge of computer science are required for students.

6. Note

 [1] [2] [3] [4] [5] [6] [7] [8] [9] 	Introduction Classical artificial intelligent I Classical artificial intelligent II Classical artificial intelligent III Limitations of AI Subsumption architecture Soft-computing I Soft-computing II Soft-computing II
[9]	Soft-computing III
[10]	Soft-computing IV
	Pattern recognition and machine learning I
[12]	Pattern recognition and machine learning II
[13]	Reinforcement learning I
[14]	Reinforcement learning II
[15]	Summary