# Intelligent Systems

Special 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

Evaluated with reports (75%) and a term exam (25%).

## 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)

Introduction

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

#### 6. Note

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#### 7. Schedule

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

Classical artificial intelligent I