UNIVERSITY OF SKÖVDE

TRANSLATION FROM SWEDISH

COURSE SYLLABUS

Introduction to Artificial Intelligence G1F

7.5 credits

Course code: IT412G
Version number: 5
Valid from: 1 July 2021
Ratified by: Curriculum Committee for Informatics
Date of ratification: 10 February 2022

1. General information about the course

The course is provided by the University of Skövde and is named Introduction to Artificial Intelligence G1F (Introduktion till artificiell intelligens G1F). It comprises 7.5 credits and is a first-cycle course. The level of progression is G1F.

The course is a part of the main field of study in Informatics. The disciplinary domain of the course is Technology.

2. Entry requirements

The course has the following entry requirements: passed IT120G Programming Fundamentals with C++ G1N and passed MA126G Discrete Mathematics G1N and (passed ST117G Statistics G1N or passed ST310G Statistics for Engineers I - basic course G1F) (or the equivalent).

3. Course content

This course provides an introduction to artificial intelligence from a broad perspective and includes related areas, such as, data mining, data science, and information fusion. Within the course artificial intelligence methods that are used within these areas and that relate to our own research activities are introduced. The different parts introduced will build upon each other. During the whole course, lectures are interleaved with individual or group work and seminar.

4. Objectives

After completed course the student should be able to:

- describe and discuss different application areas for artificial intelligence,
- describe different artificial intelligence terms, methods and techniques,
- use different artificial intelligence methods and techniques, and
- describe and discuss ethical aspects of artificially intelligent solutions.

5. Examination

The course is graded A (Excellent), B (Very good), C (Good), D (Satisfactory), E (Sufficient) or F (Fail).

The examinations of the course consist of the following modes of assessment:

- **Written assignments**
  7.5 credits, grades: A/B/C/D/E/F

Students with a permanent disability who have been approved for directed educational support may be offered adapted modes of assessment.

6. Types of instruction and language of instruction

The teaching is comprised of exercises, lectures and seminars.

Depending on the study period, the language of instruction may be Swedish or English. Even if the teaching is conducted in Swedish, some English may still occur.

7. Course literature and other educational materials

Articles or a reference list will be provided in the learning management system.

8. Student influence

Student influence in the course is ensured by means of course evaluation. The students are informed about the results of the evaluation and potential measures that have been taken or are planned, based on the course evaluation.

9. Additional information

The content of the course corresponds completely or partially with the following course(s) and cannot be included in the required credits of a degree qualification:

- IT143G - Introduction to Artificial Intelligence G1N 7.5 credits

Further information about the course, as well as national and local governing documents for higher education, is available on the website of the University of Skövde.