DD2414 Engineering project in Robotics, Perception and Learning 15.0 credits

Ingenjörsprojekt i robotik, perception och lärande

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

On 2019-10-15, the Head of School of EECS has decided to establish this official course syllabus to apply from the autumn semester 2020 (registration number J-2019-2404).

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Computer Science and Engineering

Specific prerequisites

Completed courses of at least 12 credits at second cycle level in robotics, perception or machine learning.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

Having passed the course, the student shall be able to

- choose a course of approach and define, follow and follow up a plan for carrying out the task in a given resource budget,
- Present orally and in writing, a description and defense of a technical solution to a problem in robotics, perception and learning

in order to

- be able to participate professionally in project work in activities in robotics, perception and learning.

Course contents

The course gives students with a special interest in robotics, perception and learning the opportunity to read an especially designed a project course in their own interest field. Both course content and assessment are designed individually for each project.
To be able to start the course, the student should first contact a teacher connected to the interest field and thereafter course coordinator. The course can only be offered if the department has enough resources and skills in the current field.

Examination

- PRO1 - Project work, 7.5 credits, grading scale: P, F
- PRO2 - Project work, 7.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

As a first stage in the project work of the course a specification must be approved by the course coordinator. The specification should contain intended learning outcomes that can be accessed for each student and a description of how the examination should be carried out for both these and the general aims for this specific project.
The project work is divided into two parts with a half time evaluation between to allow individual follow up take place.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.