

# Intelligent Virtual Agents and Social Robots

Single subject and programme course

6 credits

Intelligenta virtuella agenter och sociala robotar

769A12

Valid from: 2019 Autumn semester

**Determined by**

Course and Programme Syllabus Board  
at the Faculty of Arts and Sciences

**Date determined**

2019-06-13

## Main field of study

Cognitive Science

## Course level

Second cycle

## Advancement level

A1X

## Course offered for

- Master Programme in Cognitive Science

## Intended learning outcomes

The course covers theories, methods and technology in the research front of the area. It aims to provide an understanding of current theoretical issues as well as practical knowledge of implementation and/or evaluation of agent- or robot-based interactive systems with focus on the interaction between humans and such systems.

After completion of the course, the student should at an advanced level be able to:

- account for and critically discuss theories and models within the disciplines of Human Factors and Resilience Engineering
- apply methods to analyze human factors in complex systems
- identify, delimit, and analyze a man-machine system from a Human Factors or Resilience Engineering perspective

## Course content

The course covers the following theoretical areas:

- Interaction: natural language, body language
- Cooperation and Trust
- Emotion
- Embodiment
- Visual appearance: gender, ethnicity, anthropomorphism
- Application areas: learning, training, health, entertainment

The project focus on design, implementation or evaluation of an interactive application with a virtual embodied agent or a robot.

## Teaching and working methods

The course consist of an introductory lecture, several student led literature seminars, practical project work, and seminars for presentation and discussion of project work.

## Examination

Mandatory participation in seminars. Written report and an oral presentation of the project work.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

## Grades

Three-grade scale, U, G, VG

## Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

The course is carried out in such a way that both men's and women's experience and knowledge is made visible and developed.

## Department

Institutionen för datavetenskap