

# Joint Cognitive Systems

Single subject and programme course

6 credits

Sammansatta kognitiva system

729G21

Valid from:

**Determined by**

The Quality Board at the Faculty of Arts  
and Sciences

**Date determined**

2009-06-12

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2016-08-25

**Replaced by**

729G84

## Main field of study

Cognitive Science

## Course level

First cycle

## Advancement level

G2X

## Course offered for

- Bachelor's Programme in Cognitive Science
- Master Programme in Cognitive Science

## Entry requirements

For admission to the course, completion of year 1 and year 2 of the Bachelor's Programme in Cognitive Science, or the equivalent, is required.

## Intended learning outcomes

On completion of the course, the student should be able to

- use theories/models, research methods and applications within cognitive software engineering that are appropriate to successfully analyse joint cognitive systems
- account for how cognitive software engineering can be used to describe how the performance of a system is continuously adapted to conditions and how knowledge of this can be used to safeguard from unexpected consequences,
- account for how a cognitive system is delimited from a control perspective,
- account for why risk and accident analysis in connection with these types of systems is central for the ability to handle them, and demonstrate knowledge of common accident models (sequential, epidemic and systemic accident models).

## Course content

The contents of the course are focused on joint cognitive systems (JCS), which are systems that comprise humans, artefacts and social constructions in collaboration.

The following aspects are covered:

- Perspective on analysis and design of complex joint systems.
- How cognitive systems handle complexity in the surrounding world
- The use of technical and social artefacts
- Analysis and design of joint cognitive systems

## Teaching and working methods

The course is built around lectures with elements of exercises, discussion sessions and study visits. The student is expected to study independently, individually or in groups.

## Examination

the course is examined through written assignments and a written examination.

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.

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## Department

Institutionen för datavetenskap