Introduction to Cognitive Science

Single subject and programme course

6 credits

Introduktion till kognitionsvetenskap

729A10

Valid from: 2011 Autumn semester

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

Date determined
2010-09-24

Revision date
2020-05-05

Main field of study
Cognitive Science

Course level
Second cycle

Advancement level
A1N

Course offered for
- Master Programme in Cognitive Science

Entry requirements
- Bachelor's Degree in Cognitive Science equivalent to a Swedish Kandidatexamen
  or
  Bachelor's Degree in Computer Science equivalent to a Swedish Kandidatexamen
  and
  30 ECTS credits in one of the following subject areas
  - Psychology
  - Linguistics
  - Philosophy
  - Neuroscience
  - Anthropology

  or
  Bachelor's Degree in Psychology of Neuroscience equivalent to a Swedish Kandidatexamen
  30 ECTS credits passed in Computer Science

- English and Swedish corresponding to the level of English and Swedish in Swedish upper secondary education (Engelska 6 and Svenska 3)

Intended learning outcomes
On completion of the course, the student should, at an advanced level, be able to:
- account for the central questions and research areas of cognitive science from both a historical and current perspective.
- account for and compare differnet perspectives of what cognition in natural and artificial systems is
- account for and compare the different research methods that are used within cognitive science

Course content

Covered in the course are

- the scientific roots and origins of cognitive science
- computation and algorithms
- information processing in humans and the computer as symbolic and sub-symbolic computations
- embodied, situated and distributed cognition
- interdisciplinarity and theoretical and methodological diversity
- current research and application areas

Teaching and working methods

The teaching takes the form of lectures, seminars and laboratory sessions. The student is expected to study independently, individually or in groups.

Examination

The course is examined through a written examination, written assignments and laboratory sessions. Detailed information can be found in the study guide. Detailed information can be found in the study guide.

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it. If the coordinator has instead recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

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