



IC1004 Cognitive Psychology 6.0 credits

Kognitionspsykologi

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

Establishment

Course syllabus for IC1004 valid from Autumn 2008

Grading scale

A, B, C, D, E, FX, F

Education cycle

First cycle

Main field of study

Electrical Engineering, Technology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

On successful completion of this course the student has:

Knowledge and understanding regarding: ·

- To be able to account for basic knowledge regarding theories within cognitive psychology.
- To be able to account for basic concepts and assumptions that are made regarding human cognition within cognitive psychology.
- To be able to account for criticism that is directed towards cognitive psychology

Skills and capacities, to be able to:·

- Reflect on and analyze basic theories within cognitive psychology and their applicability within HMI.
- Reflect on and analyze basic assumption made within cognitive psychology as related to the criticism that is directed towards cognitive psychology.
- Formulate, plan and conduct a study within behavioral science.
- Choose and apply appropriate methodology to investigate a certain problem.
- Write and report a behavioral science study scientifically

Values and attitudes, to be able to:·

- Value ethical aspects that are relevant to behavioral science research

Course contents

- Introduction to cognitive psychology with an emphasis on aspects that are of relevance to the area of human-machine interaction and related areas such as IT and learning, and IT and collaboration
- Basic theories and questions including mental representations, learning, memory, language and thought, as well as problem solving
- Some general psychological questions concerning the relation between cognition, perception and motivation as well as knowledge as to how cognitive psychology evolved
- Cognitive aspects of important applications within decision-making, risk-judgment, and collaboration and learning
- An introduction to behavioral research methodology.

Course literature

Cognitive Psychology and it's implications, John, R., Anderson.

Upplaga: fourth edition Förlag: Freeman and company År: 1995

ISBN: 0-7167-2385-9

Foundations of Behavioral Research, Fred, N., Kerlinger

Upplaga: third edition Förlag: CBS College Publishing År: 1986

ISBN: 0-03-910713-2

Compendia

Examination

- **TEN1** - Examination, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- **LAB1** - Hand in Task, 3.0 credits, grading scale: A, B, C, D, E, FX, 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.

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

Other requirements for final grade

Assessment on the course consists in one group task and one individual task (conventional exam). To pass the whole course requires pass on both the individual task and the group task.

Grades: A, B, C, D, E, Fx, F

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.