



UNIVERSITY  
OF SKÖVDE

## COURSE SYLLABUS

# Cognitive Ergonomics A1F

6 credits

TRANSLATION FROM SWEDISH

**Course code:** VP709A

**Version number:** 6

**Valid from:** 1 July 2022

**Ratified by:** Curriculum Committee for Engineering Science

**Date of ratification:** 6 December 2021

## 1. General information about the course

The course is provided by the University of Skövde and is named Cognitive Ergonomics A1F (Kognitiv ergonomi A1F). It comprises 6 credits and is a second-cycle course. The level of progression is A1F.

The course is a part of the main field of study in Virtual Product Realization. It can also be a part of the main field of study in Informatics. The disciplinary domain of the course is Technology.

## 2. Entry requirements

A Bachelor's degree equivalent to a Swedish kandidatexamen of 180 credits, within the main fields of integrated product development, production engineering, automation engineering, mechanical engineering or information technology (or the equivalent) and passed courses VP706A Industrial Ergonomics A1N and VP741A Scientific Theory in Industrial Informatics A1 (or the equivalent).

A further requirement is proof of skills in English equivalent of studies at upper secondary level in Sweden, known as the Swedish course English 6. This is normally demonstrated by means of an internationally recognized language test, e.g. IELTS or TOEFL.

## 3. Course content

The course mainly contains analysis and application of cognitive science, cognitive psychology research and cognitive ergonomics to the product realization process. The course will be centered around literature concerning the application of cognitive science and psychology for the students to analyze based on their future working roles. They also identify plausible situations where cognitive ergonomics has an effect on performance and results. Furthermore, a number of methods and tools will be analyzed and applied in a group project to a product realization setting.

## 4. Objectives

After completed course the student should be able to:

### *Knowledge and understanding*

- describe cognitive science and psychology research and how it can be related to a plausible future working role,
- describe and analyse methods in cognitive ergonomics.

### *Skills and abilities*

- apply cognitive science and psychology research to situations that relate to a plausible future working role,
- critically discuss and apply methods within cognitive ergonomics.

#### *Judgment and approach*

- argue the role that cognitive ergonomics might play in the product realization process.

## **5. Examination**

The course is graded A (Excellent), B (Very good), C (Good), D (Satisfactory), E (Sufficient) or F (Fail).

The examinations of the course consist of the following modes of assessment:

- **Article summaries**  
3 credits, grades: G/U
- **Oral presentations**  
3 credits, grades: A/B/C/D/E/F (determines the final grade)

Students with a permanent disability who have been approved for directed educational support may be offered adapted or alternative modes of assessment.

## **6. Types of instruction and language of instruction**

Teaching will mainly consist of seminars and group discussions with student presentations of the literature.

The teaching is conducted in English.

## **7. Course literature and other educational materials**

Scientific articles will be available at the start of the course.

## **8. Student influence**

Student influence in the course is ensured by means of course evaluation. The students are informed about the results of the evaluation and potential measures that have been taken or are planned, based on the course evaluation.

## **9. Additional information**

Further information about the course, as well as national and local governing documents for higher education, is available on the website of the University of Skövde.