UNIVERSITY OF SKÖVDE

TRANSLATION FROM SWEDISH

COURSE SYLLABUS

Bachelor Degree Project in Product Design Engineering G2E

30 credits

Course code: IP519G
Version number: 3
Valid from: 1 January 2025
Ratified by: Curriculum Committee for Engineering Science
Date of ratification: 9 November 2023

1. General information about the course

The course is provided by the University of Skövde and is named Bachelor Degree Project in Product Design Engineering G2E (Examensarbete för teknologie kandidatexamen i integrerad produktutveckling G2E). It comprises 30 credits and is a first-cycle course. The level of progression is G2E.

The course is a part of the main field of study in Product Design Engineering. The course is a part of the subject of Integrated Product Development. The disciplinary domain of the course is Technology.

2. Entry requirements

To be eligible for this course, students must have completed a total of 135 credits worth of courses. Of these, at least 60 credits must be in the main field of product design engineering (or equivalent), with a minimum of 15 credits at the G2F level (or equivalent). In addition, students should have completed at least 15 credits in mathematics (or equivalent).

3. Course content

This course involves students conducting an independent project where they apply the knowledge acquired from previous courses to carry out a project closely related to the main field.

Throughout the course, students deepen their knowledge in the main field and develop their ability to organize, plan, and execute all phases of a project. This includes independently identifying a relevant problem and reporting the project's results in a structured manner. The project's problem statement is decided in consultation with the examiner. Additionally, the course focuses on improving students' oral and written communication skills. During the oral examination, each student is expected to be able to explain the entire work, any assistance received and sources used.

4. Objectives

After completed course the student should be able to:

- independently identify, formulate, position, and address a chosen problem within a subfield of the main area,
- search, critically review, and apply relevant scientific literature in relation to the chosen problem,
- select, argue for, and apply appropriate scientific methodology to address the chosen problem,
- plan and complete an independent project within specified timeframes,
- reflect on the results in relation to the chosen problem and position the findings in a broader context, including scientific, ethical, and societal aspects,
- present and discuss the work orally and act as critical reviewers of others' work,
- provide a written account in the form of a report describing the completed work.

5. Examination

The course is graded VG (Pass with distinction), G (Pass) or U (Fail).

After the course has been concluded, limited additional supervision is available for finalizing the bachelor's project. The school will decide the duration of the additional supervision available, which can extend up to six months after the course's regular end date. If a student has not completed the course six months after the regular end date, re-registration may be required. Typically, a new project description is required for re-registration. Exceptions are decided by the examiner.

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

- **Project assignment**
  30 credits, grades: VG/G/U (determines the final grade)

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

6. Types of instruction and language of instruction

Teaching methods include lectures, supervised work, and seminars.

The bachelor's project is typically conducted in pairs, and it is the student's responsibility to find a partner (individual work may be allowed under special circumstances). Suggestions for problem statement/area can come from companies, other external organizations, or from teachers/researchers at the University. The student's effort should be equivalent to 20 weeks of full-time work.

The teaching is conducted in English.

7. Course literature and other educational materials

Säfsten, K. och Gustavsson M. (2019) *Forskningsmetodik för ingenjörer och andra problemlösare*. (uppl. 1). Lund: Studentlitteratur AB. ISBN 9789144067421. **or**

Säfsten, K. och Gustavsson M. (2019) *Research methodology: for engineers and other problem-solvers*. (ed 1) Lund: Studentlitteratur AB. ISBN 9789144122304.

Additional literature is determined in consultation with supervisor.

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.