

COURSE SYLLABUS

Project Course, 15 credits

Projektkurs, 15 högskolepoäng

Course Code:	TPJS22	Education Cycle:	Second-cycle level
Confirmed:	Aug 07, 2026	Disciplinary domain:	Technology (75%) and Social sciences (25%)
Valid From:	Aug 31, 2026	Subject group:	Other Subjects within Technology
		Specialised in:	A1N Second cycle, has only first-cycle course/s as entry requirements
		Main field of study:	Production Systems, Product Development

Intended Learning Outcomes (ILO)

On completion of the course the student shall:

Knowledge and Understanding

- demonstrate familiarity with challenges that might occur in multidisciplinary projects
- demonstrate knowledge of scoping and planning projects
- demonstrate knowledge of challenges in integrated product and production development

Skills and Abilities

- demonstrate the ability to apply knowledge, methods, and tools to conceive, develop and analyse solutions and artifacts
- demonstrate the ability to progress a project by finding, analysing, and using information from various sources
- demonstrate the ability to plan and conduct a complete collaborative project involving several disciplines
- demonstrate the ability to solve industrial problem in the field of integrated product and production development with a scientific result

Judgement and Approach

- demonstrate an understanding of problem solving in industrial and scientific contexts
- demonstrate an understanding of multidisciplinary aspects in projects.

Content

This course is project based. It involves applying knowledge from previous courses in combination with searching for relevant knowledge to conceive and develop solutions to technical and scientific problems.

The course includes the following elements:

- Formulation of technical and scientific problems
- Plan and division of work
- Identification of knowledge needed for solving the provided project task
- Collection, processing, and analysis of data
- Development of a conceptual solution for the provided project task
- Validation of the derived results
- Report of project progress
- Written scientific report
- Oral presentation and opposition

Type of Instruction

Supervision, lectures, and seminars.

Language of instruction is English.

Entry Requirements

Passed courses 180 credits in first cycle, at least 90 credits within the major subject Mechanical Engineering, Industrial Engineering and Management, Computer Engineering or Civil Engineering, and 15 credits in Mathematics or equivalent. Proof of English proficiency is required.

Examination and Grades

The course is graded 5, 4, 3 or U.

The final grade is derived from the grades of the two examinations. They must both be completed before the final grade is given.

Registration of examination:

Name of the Test	Value	Grading
Individual examination	3 credits	5/4/3/U
Project	12 credits	5/4/3/U

Course Literature

Please note that the course literature may be revised up to eight weeks before the start of the course.

Selected individually based on the project task. The selection will be based on a discussion between the students and the supervisors in relation to the selected project task. The students will be the main responsible for the identification and the selection of relevant literature.