

COURSE SYLLABUS

Industrial Placement in Production Engineering and Automation, 15 credits

Näringslivsförlagd kurs i Production Engineering and Automation, 15 högskolepoäng

Course Code:	T2NKIP	Education Cycle:	Second-cycle level
Confirmed:	Sep 01, 2025	Disciplinary domain:	Technology
Valid From:	Aug 30, 2027	Subject group:	Mechanical Engineering
		Specialised in:	A1F Second cycle, has second-cycle course/s as entry requirements
		Main field of study:	Production Systems

Intended Learning Outcomes (ILO)

On completion of the course the student shall:

Knowledge and understanding

- demonstrate comprehension of the difference between the experience of practical work and the theoretical knowledge acquired earlier in the programme
- demonstrate knowledge of challenges that might occur in the field of production engineering and automation

Skills and abilities

- demonstrate skills of scientific methods and approaches when planning and conducting project tasks or a study within predetermined time frames
- demonstrate the ability to apply knowledge related to production engineering and automation to an industrial challenge
- demonstrate the ability to describe, analyse and reflect on the results of the industrial placement
- demonstrate the ability to present results and discuss conclusions in dialogue with different audiences

Judgement and approach

- demonstrate an understanding of problem solving in industrial context
- demonstrate the ability to reflect on how the practical experiences are related to the theoretical knowledge in the field of production engineering and automation
- demonstrate an understanding of their future professional role and the responsibility for sustainability that comes with it
- demonstrate the ability, in practical engineering work, to make assessments with regard to relevant social and ethical issues.

Content

This course includes participating in professional practice relevant to the field of production engineering and automation. The students will have the opportunity to contribute knowledge and help develop companies' processes and work through carrying out of a project task. The course's purpose is to give the student experience from an industrial placement. The professional content in the course is based on the job requestors needs and the objective and adequateness of the Production Engineering and Automation programme.

The course includes the following elements:

- Applying knowledge from previous courses
- Formulation of technical and scientific problems

- Planning of the work
- Identification of knowledge needed for solving the provided project task
- Collection, processing, and analysis of data
- Development of a solution for the provided project task
- Written scientific report
- Oral presentation, and opposition

Type of instruction

Students work individually at the assigned company and/or via digital platform; hands-on professional practice in the workplace; final report, written and oral, on campus.

An application stating the company where the internship is going to be conducted and the main tasks, assignments and deliveries must be submitted to the course responsible and examiner for approval. The internship will be approved only if company, tasks, assignments, and deliveries are evaluated relevant for the programme and the student's educational and professional growth.

Language of instruction is English.

Entry requirements

Passed courses of at least 210 credits in the programme Industrial Product Realisation, or passed courses of at least 90 credits in Mechanical Engineering, Product Development, Materials Engineering, Manufacturing Engineering, Production Engineering, Industrial Engineering, Civil or Construction engineering, Industrial Organization and Economics or the equivalent. The bachelor's degree should comprise a minimum of 15 credits in Mathematics. The student must have completed at least 30 credits of second-cycle courses. Proof of English proficiency is required.

Examination and grades

The course is graded Pass (G) or Fail (U).

Registration of examination:

Name of the Test	Value	Grading
Internship	12 credits	G/U
Presentation	3 credits	G/U

Course literature

Please note that changes may be made to the reading list up until eight weeks before the start of the course.

Selected individually based on the placement task (if applicable). The selection will be based on a discussion between the students and the supervisors in relation to the selected placement task.

The students will hold the main responsibility for the identification and selection of relevant literature.