



## COURSE SYLLABUS

# Final Project Work in Computer Science, 15 credits

*Examensarbete i Datavetenskap, 15 högskolepoäng*

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<b>Course Code:</b> TEXT25	<b>Education Cycle:</b> Second-cycle level
<b>Confirmed by:</b> Dean Mar 1, 2024	<b>Disciplinary domain:</b> Technology
<b>Valid From:</b> Jan 1, 2025	<b>Subject group:</b> DT1
<b>Version:</b> 1	<b>Specialised in:</b> A1E
	<b>Main field of study:</b> Computer Science

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### Intended Learning Outcomes (ILO)

After a successful course, the student shall:

Knowledge and understanding

- display knowledge and understanding in the main field of study, including both an overview of the field and specialised knowledge in certain areas of the field as well as insight into current research and development work, and
- display specialised methodological knowledge in the main field of study.

Skills and abilities

- demonstrate the ability to integrate knowledge and analyse, assess and deal with complex phenomena, issues and situations even with limited information,
- demonstrate the ability to identify and formulate issues autonomously as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames,
- demonstrate the ability in speech and writing to report clearly and discuss his or her conclusions and the knowledge and arguments on which they are based in dialogue with different audiences, and
- demonstrate the skills required for participation in research and development work or employment in some other qualified capacity.

Judgement and approach

- demonstrate the ability to make assessments in the main field of study informed by relevant disciplinary, social and ethical issues and also to demonstrate awareness of ethical aspects of research and development work,
- demonstrate insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used, and
- demonstrate the ability to identify the personal need for further knowledge and take responsibility for his or her ongoing learning.

### Contents

The student will (individually or in a group of two) conduct a final project demonstrating the

ability to apply, critically use and develop knowledge gained during the programme studies. The student(s) can work independently or with a company, organisation or authority.

The course includes the following elements:

- Formulating a problem
- Planning the project
- Searching and reviewing literature
- Collecting, processing and analysing data
- Implementing the project
- Writing a report
- Presenting and defending the report
- Opposing another group's work

### **Type of instruction**

The course shall follow the instructions for thesis work established at JTH.

The teaching is conducted in English.

### **Prerequisites**

The applicant must hold a minimum of a Bachelor's degree (i.e. the equivalent of 180 credits at an accredited university) with at least 90 credits in Computer Science, Informatics, Information Systems, Computer Engineering, or the equivalent, with an approved thesis work at the first cycle and completed courses comprising 15 credits in the Master's program. Proof of English proficiency is required.

### **Examination and grades**

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

The course is examined through a written report, oral presentation of the report, and opposition to another group's report. A grade for the course is received only after passing all examination parts. The grade is set using a specific grading template. The grades are set individually by the members of a group. The final project work must be terminated within 12 months from the approval at the start of the course, although special reasons may lead to a prolongation of this time frame.

Registration of examination:

Name of the Test	Value	Grading
Final project work	15 credits	5/4/3/U

### **Other information**

Students may start the final project work upon approval by the examiner. The programme manager can grant an exemption from the points requirements under Prerequisites. No exemption will be made to the required Bachelor degree.

### **Course literature**

The literature list for the course will be provided 8 weeks before the course starts.

Relevant literature is chosen based on the thesis topics in consultation with the supervisor. The student has the main responsibility in this process.