



## COURSE SYLLABUS

# Final Project Work in Informatics, 15 credits

*Examensarbete i Informatik, 15 högskolepoäng*

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| <b>Course Code:</b> TEIT22                           | <b>Education Cycle:</b> Second-cycle level |
| <b>Confirmed by:</b> Dean Mar 1, 2021                | <b>Disciplinary domain:</b> Technology     |
| <b>Revised by:</b> Director of Education May 3, 2023 | <b>Subject group:</b> IF1                  |
| <b>Valid From:</b> Jan 1, 2024                       | <b>Specialised in:</b> A1E                 |
| <b>Version:</b> 3                                    | <b>Main field of study:</b> Informatics    |

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### Intended Learning Outcomes (ILO)

After a successful course, the student shall:

Knowledge and understanding

- demonstrate comprehension of the main field of study, including knowledge of the fields' scientific foundation, proven experience and methodology
- display knowledge and in-depth insight into a selected area within the field of study as well as the current research and development within that selected area

Skills and abilities

- demonstrate the ability to search, gather, evaluate, and critically interpret relevant information, to create a problem formulation and critically discuss phenomena, issues and situations
- demonstrate the ability to, with a holistic view, independently and creatively identify, formulate and manage problem formulations
- demonstrate the ability to independently identify, formulate and solve problems as well as with adequate methods plan, implement and evaluate the work within a given framework
- demonstrate the ability to orally, in writing and in dialog with others explain and discuss information, problems and solutions
- demonstrate the ability to critically and systematically apply knowledge and model, simulate, predict and evaluate events based on relevant information

Judgement and approach

- demonstrate the ability to apply the knowledge and skills acquired during the programme and to identify the need of further knowledge development
- demonstrate the ability to make judgements with regard to relevant scientific, social and ethical aspects within the main field of study
- demonstrate the ability to identify one's own need for further knowledge and to continuously develop one's own competencies
- demonstrate an understanding of the opportunities and limitations of technology and knowledge within society and the human responsibility for their use, including for the work

relevant social and economic aspects as well as environmental and sustainability aspects

### Contents

The student will (working individually or in a group) conduct a final project work demonstrating the students' ability to apply, critically use and develop to knowledge gained during the programme studies. The student can choose to work independently or together with a companies, organisations or authorities.

The course includes the following elements:

- Problem Formulation
- Project planning
- Collection, processing and analysis of data
- Project implementation
- Reporting
- Oral presentation and opposition

### 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 an approved thesis work at first cycle and completed courses comprising 15 credits in the Master's program

### 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 of another group's report. A grade for the course is received only after passed grade for all examination parts. The grade is set using a specific grading template.

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 |
|------------------|------------|---------|
| Examination      | 15 credits | 5/4/3/U |

### Other information

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.