



## Master's Thesis in Electronics 15 cr

*Examensarbete för magisterexamen i elektronik 15 hp*

Set by Faculty of Engineering and Sustainable Development

Version	Set at	Valid from
	6/9/21	<b>VT2022</b>

<b>Level</b>	A1E
<b>Education level</b>	Second cycle
<b>Course identifier</b>	EEA703
<b>Credits</b>	15 cr
<b>Main field of study</b>	Electronics
<b>Subject group</b>	Electronics
<b>Disciplinary domain</b>	Technology 100.0 %

**Learning outcomes** After completion of the course the student shall be able to

Knowledge and understanding

1. show good information competence, including the understanding of relevant literature concerning the major subject, and use the literature in the thesis in a correct way
2. describe the research area as well as suitable methods and relate the own research in a larger context

Competence and skills

3. demonstrate competence to critically and independently identify, problematize, and formulate research questions within the major subject
4. identify additional knowledge needed, and independently plan and perform a thesis assignment using adequate methods within a given time frame
5. write a thesis according to established scientific standard of the major subject, and demonstrate good skills in written and oral communication

Judgement and approach

6. critically scrutinize and evaluate other students' work
7. show capability within the major subject to make relevant ethical and societal

considerations, and to follow good research practice.

## **Course content**

The Master's thesis is carried out as a scientific project.

The content is described by the following items:

- to find a suitable thesis project and discuss the contents with the client and the university program management
  - to methodologically plan the thesis project
  - to apply gained knowledge in the major subject and peripheral subjects of relevance for the project
  - to gain new knowledge from literature necessary for the project
  - to communicate the project and defend its findings in a professional way both orally and in writing
  - to perform opposition to another student's thesis and presentation

## Teaching

Instruction is given by a scientifically competent supervisor throughout the project.

## Prerequisites

At least 37,5 credits (ECTS) completed courses of the Master Programme in Electronics/Automation (online) 60 credits (ECTS), or equivalent

## **Examination**

Oral and written presentation of the thesis assignment, opposition on another thesis assignment

## **Grade**

A, B, C, D, E, Fx, F

### **Other regulations**

Criteria for final grade will be handed out by the course responsible or examinor at the beginning of the course.

## Sustainable environment

A minor part of the course content deals with sustainable development.

## Module

0010 Master's Thesis

15 cr

Grade: AF