



## Master's Thesis in Electronics, Online 15 cr

*Examensarbete för magisterexamen i Elektronik, Distans 15 hp*

Set by Faculty of Engineering and Sustainable Development

### Version

**Set at**

**Valid from**

8/25/17

**VT2018**

<b>Level</b>	A1E
<b>Education level</b>	Second cycle
<b>Course identifier</b>	EEA702
<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

The aim of the Master's thesis is to show that the student has gained the professional ability to find, plan, work through, and report a scientifically interesting project within the major subject of the education.

The Master's thesis gives a possibility for the student to deepen knowledge, skills and capabilities in relation to the education given on the Master's level.

After completion of the course the student shall be able to

1. independently integrate and use knowledge gained on the major subject
2. manage complex facts, problems and situations
3. manage a working life in research and development work
4. demonstrate awareness of ethical aspects of research and development work
5. critically review the work of others.

### 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 its findings in a professional way both orally and in writing

<b>Teaching</b>	Instruction is given by scientifically competent supervisors throughout the project.		
<b>Prerequisites</b>	At least 30 cr should be finished of the Master Programme in Electronics/Automation on-line, 60 cr. In addition, courses on the advanced level of relevance for the suggested thesis project should be completed.		
<b>Examination</b>	<p>The examination of the thesis concerns:</p> <p>a) The process          The examiner should be in contact with the supervisor in order to get detailed information about the student's capability as regards:</p> <ul style="list-style-type: none"> <li>- theoretical competence</li> <li>- practical competence (if applicable)</li> <li>- capability of working independently</li> <li>- capability of cooperation</li> <li>- capability of taking advice</li> </ul> <p>b) Technical and scientific content          Assessment of technical content and scientific depth of the written thesis.</p> <p>c) Presentation          The assessment of the presentation of the thesis in a seminar concerns the quality of visual material, the quality of the oral presentation, and defense and answer to criticism.</p> <p>These three ingredients are assessed individually in three levels (sufficient, good, excellent), and and the final grade is produced according to a given grading scheme.</p> <p>Module 0010 Thesis (including presentation) examines learning outcomes 1-4.          Module 0020 Opposition at one thesis seminar examines learning outcomes 4-5.</p>		
<b>Grade</b>	A, B, C, D, E, Fx, F		
<b>Other regulations</b>	Criteria for final grade will be handed out by the course responsible or examiner at the beginning of the course.		
<b>Sustainable environment</b>	Content with sustainable development is not relevant to this course.		
<b>Module</b>	0010 Thesis (including presentation)	14.5 cr	Grade: AF
	0020 Opposition at one thesis seminar	0.5 cr	Grade: UG