

Master's Thesis Information

SoC Master Program, year 2

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Outline

- Goals and Evaluation
- Master thesis course
- Checklist
- Requirements
- Thesis report

Link to Information

- At the web cite:

<http://web.it.kth.se/~axel/MSc-Theses/>

you can find a complete guide about formalities of master thesis work

- Print it an keep it

Learning Outcomes

- To be able to apply relevant knowledge and skills, within the main area, to a given problem
- Within given constraints, even with limited information, **independently analyze and discuss** complex inquiries/problems and handle larger problems on the advanced level within the main area
- Reflect on, evaluate and critically assess one's own and others' **scientific results**

Learning Outcomes, cont.

- To be able to **document and present** one's work with strict requirements on structure, format, and language usage
- To be able to identify one's need for further knowledge and continuously develop one's own knowledge

Thesis Course

- MSc project is a course
- IL222X for SoC master program master thesis project course code

Checklist

- You need 60 ECTS minimum before starting
- Find a suitable thesis project either in the department, somewhere else at KTH, at a company in Sweden or abroad, at an academic or a research organization in Sweden or abroad

Checklist

- Find a Supervisor and an Examiner at the Department
 - They may or may not be the same person
- If the project is carried out outside the department, a local supervisor and contact person is required
- Give to the local supervisor a copy of this guide
- If the project is carried out outside the department, the examiner has to approve the topic

Checklist

- Apply for the degree project course by filling the form at:
 - Go to www.kth.se International site, student web
 - Choose “System on chip design” in **Exchange and Master's information** window
 - Choose “Forms for ICT”
 - Choose “Degree project Msc”
- Give the form to May-Britt
- Registration has to be done before the start of the project

Process

- Before, or at the very beginning of the project, the student writes a project plan that includes Background, Project Description, Main Results, Deliverables, Project Risks and Time Schedule
- The project plan is typically 3-10 pages long
- Supervisors and examiner have to agree on that plan

Process

- During the project, the student writes a status report once a month
- The status report includes the sections Work Progress Since Last Report, Deviations from Project Plan, Project Risks and Updated Time Schedule
- The status report is submitted to the supervisors and the examiner per email as a pdf file

Process

- For the final report, the student has to request a report number (publication number), and instructions for the cover page from the administrator
- Based on the submitted report the examiner allows the student to present the thesis in a public presentation
- The student finds an opponent for the presentation (use exjobbsinfo@imit.kth.se to find one)

Process

- The student sends title, abstract, opponent name to the supervisor, who make a public announcement for the presentation
- After the presentation, the thesis is approved by the examiner, possibly after one or more iterations
- The student delivers two paper copies with the final cover page to the administrator and sends one pdf complete file of the thesis to the supervisors and examiner

Process

- The student submits the report from his/her opposition to the examiner
- The examiner grades the thesis project and registers it in Daisy
- The administrator reports it in Ladok

Thesis grading criteria

- Process
 - Carry out and plan your own work
 - Obtain new knowledge
 - Relate to work of others
- Engineering-related and scientific content
 - Problem formulation, modeling, analysis, development and evaluation
- Presentation
 - Written report
 - Oral presentation

Being Opponent is Obligatory

- In order to be approved for the thesis project, you are required not only to present your own thesis at a seminar but also to be opponent at another student's seminar

Find a Topic

- External organisation
 - Company or some other organisation
 - Check out their websites
 - Approach them directly
- www.exjobb.nu
 - "Exjobbspoolen"
 - Mostly in Swedish
 - Companies usually accept applications in English
- SoC related projects
 - <http://web.it.kth.se/~axel/MSc-Theses/>
- Suggest your own topic

Project in Industry

- We encourage this
- Keep in mind that you will have two “masters”
 - Possibly different expectations and deliverables
 - From KTH’s point of view, we will evaluate you mainly based on the KTH report

Report

- Scientific approach
 - Problem statement, methodology, evaluation
- Always report sources (references)
- All copying is forbidden!
 - Considered as cheating and will be reported
 - “Student rights and responsibilities at KTH” apply for the thesis as well

Summary

- Print a guide from:

<http://web.it.kth.se/~axel/MSc-Theses/>

- Keep a copy for you and gave one to your local supervisor