Master’s Thesis Information
SoC Master Program, year 2

Elena Dubrova
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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 cite, 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