Master Thesis in SE Intro Lecture

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Master Thesis Project

- In pairs of two students
 - Academic Supervisor (+ Faculty Reviewer)
 - Maybe industry advisor/contact
- 30 ECTS points => 20 weeks of work
 - Start Sept => Finish Jan with March/June as backup
 - Start Jan => Finish June with Sept/Oct as backup
 - After backup, you fail if not finished (3 attempts!)
- Three main parts: Proposal, Work, Presentation

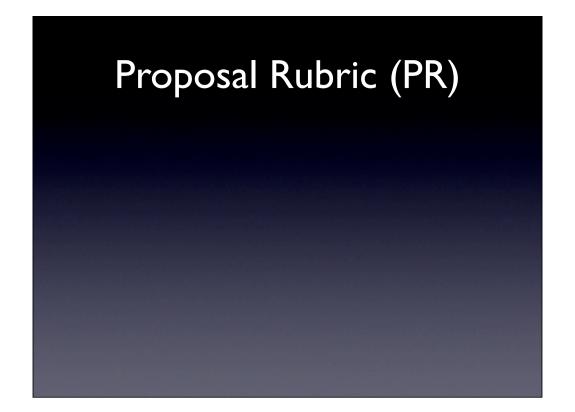
Proposal phase Examiner Student Advisor/ Timeline *PR=Proposal Rubric Supervisor *DR=Defense Rubric Topic or area *OR=Oppostion Assigns advisor report + Defense Startup Rubric meeting & *TPR=Thesis Project contacts Rubric proposal *TR=Thesis report Reviews draft rubric Finalize & feedback proposal Faculty Approves reviewer proposal Proposal Rubric (PR) Proposal OK Reading & inform proposal ok Presentation (P) -15 weeks Aproves proposal & registers

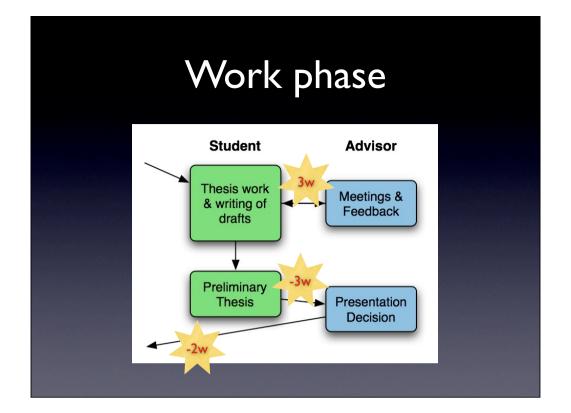
Thesis Proposal Template (TPT)

- Basic info
- Students suitability
- Background
- Aims and Objectives
- Research Questions
- Expected Outcomes
- Research Methodology
- Time plan
- References

Key areas to address

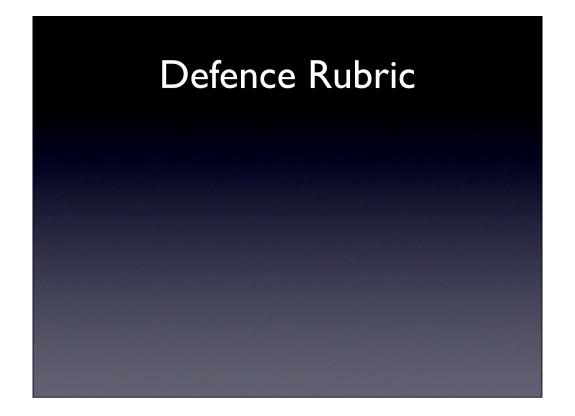
- Introduce subject area (I paragraph)
- Current research (2-4 paragraphs)
- Identify a gap (I paragraph)
- Describe how work will fill gap (rest)
- Formaila (who? when? how? etc)





Thesis Project Rubric ()

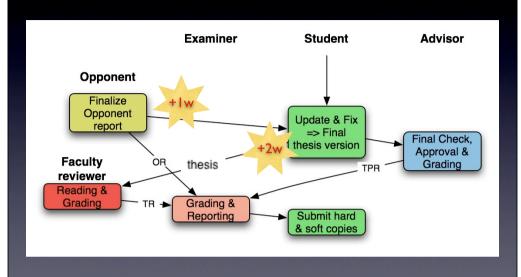
Presentation Phase **Examiner** Student **Advisor** Presentation & Opponent scheduling Thesis & Finalize schedule on thesis Opponent course web Final checks thesis Read Thesis & Write report Questioning Thesis DR -Defense Comments Opposition

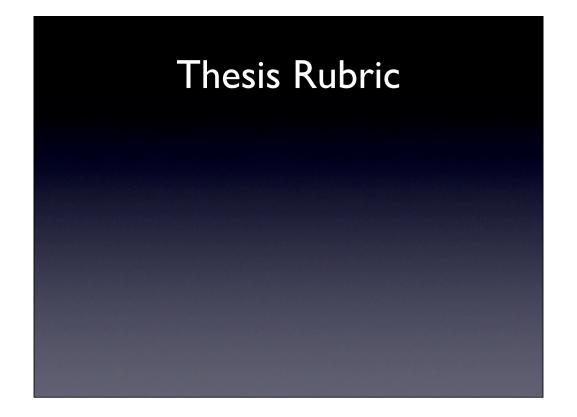


Opposition

- Each student must also be opponent once:
 - Get thesis I week before its presentation
 - Read thesis and criticize
 - Answer questions for opposition
 - Write opponent report
 - At defence: Pose 3-5 key/critical questions
 - Finalize opponent report and submit

Finalization phase





FAQI. How find topic?

- List of projects/topics on web
- Web search: Companies
- Past projects/papers (check future work)
- Read recent papers in your area
- Think / Brainstorm
- Talk with colleagues or companies
- NOT: Contact other univs

FAQ2. Work alone?

- NO, experience shows:
 - More likely to finish if two
 - Better theses if two
- Solo only if:
 - 3 directly relevant courses with A-B/VG grade
 - and there is some reason for the project itself
 - exception for EMSE/FUB

FAQ3. Distance presentation?

- Not allowed! Must present thesis, physically in Ronneby on the upcoming presentation date
 - Dates listed on course web

Indications of failure

- Student DOES NOT:
 - Send proposal / work on time
 - Write continuously
 - Write text that is readable
 - Keep in contact with advisor (long periods of silence, "has to go back home" etc)
 - Update thesis/work based on feedback

Tips

- Weekly status emails. When in doubt or stuck, ask.
- Write early, write often, write all the time.
- Write a log.
- Write with the reader in mind.
- Be honest and modest. Be bold.
- Logical structure and clear line-of-thought.
- Consider alternatives & motivate choices.
- Avoid plagiarism.

Online

- http://iaser.tek.bth.se/pa2403/
- http://se-ts.weebly.com/snippets.html

Now What?

- You must start working ASAP!!!
- Today and tomorrow:
 - Find partner & topic/area => Draft Proposal
 - http://iaser.tek.bth.se/pa2403/ index.html#Starting_thesis
- Next week:
 - Contact advisor, meet and refine proposal
 - Search literature and finalize proposal
- Final proposal OK'ed by deadline!

What is good research?

- Open minds
- Critical analysis
- Generalisations
- Considers alternatives
- Motivates choices
- Has impact (someone would care)

Readable English

- You MUST be able to write good English!
- Or you will fail or get a very low grade
- Study the slides available on course page
- Take the "Academic English Writing" course
 - contact: Victoria Dryselius, victoria.dryselius@bth.se

Know your limits!

- Don't go for a very technical thesis if you are not up to it
- Don't go for a management/industry thesis if you find it hard to contact companies, prefer technical work or have a strong background in it

Some small but important stuff

 When you communicate with me ALWAYS state full name, email, personal number in the mail.ALSO use the same as you register in the thesis system