

# **Seminar in Computer Science: Formal Verification**

<http://fmv.jku.at/sem/index.html>

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# Overview

- Objectives:
  - Write scientific paper
  - Give scientific talk

**State if you want to use this seminar for your Bachelor's thesis when selecting your topic.**

# Workflow

- topic selection
- presentation of the first concept
- submission of the paper
- submission of the slides
- oral presentation

Groups of 2 students are possible.

# Important Dates

Personal registration (optional)	12.10.2010	(optional)
Registration & selection of a topic:	15.10.2010	(per email)
Submission of the first concept:	28.10.2010	(per email)
Presentation of the first concept:	03.11.2010 - 05.11.2010	(personal)
Submission of paper:	09.01.2011	(per email)
Feedback for paper:	11.01.2011 - 13.01.2011	(personal)
Submission of final paper:	23.01.2011	(per email)
Submission of slides:	23.01.2011	(per email)
Oral presentation:	tba	(all participants)

# Concept

- abstract
- structure of your paper, i.e., table of content
- short outline of each section
- references
  - provided references
  - 2 additional references per person

# Paper

- 15 – 20 pages per person
- style: Springer LNCS (see course homepage)
- language: English preferred
- cite other sources correctly

# Presentation

- compulsory attendance
- last week of January/first week of February
- each participant gives a talk of max. 20 minutes
- discussion/questions

# Grading

- quality of the paper
- quality of the slides
- quality of the presentation
- participation in discussion



# Topics

- The semantics of semantics in the context of UML
- Semantics for UML Diagrams
- Lack of clarity in the semantics of UML
- Formalization of model evolution
- Checking UML models
- Correctness of refactorings
- SAT/SMT/QBF Solvers

# Next Steps

- Register for a topic
- You get a few references where you can start from
- Prepare the concept of your work
- Submit your concept via email

## Questions?