



University
of Basel

Bachelor's Theses

An introduction

Malte Helmert

Based on material by H. Schuldt, L. Probst and S. Heller

Formal Aspects: Study Regulations

- duration: 3 months (15 ECTS)
 - “In exceptional cases, requests for an extension [one month] can be submitted to the curriculum commission”
 - exceptions: parallel courses, work, family commitments
- topic defined together with a lecturer
 - They sign the learning contract and grade the thesis
- details specified in a learning contract
 - “Within the first month after signing the learning contract, students can cancel their Bachelor’s thesis. A later termination is considered a failed Bachelor’s thesis.”
 - „If the thesis is assessed with an insufficient grade, a second Bachelor’s thesis with a new topic can be written.”
 - „A second insufficient grade for a Bachelor’s thesis leads to exclusion from the study of Computer Science”

The Selection Process

- use available information
 - this event
 - list of projects of the different research groups
 - BSc project descriptions on group websites
 - directly contact professors/PhD students
 - talk to students in higher semesters/Master students
- can start at any time (by arrangement)
- contact lecturer(s) early, but not too early
- take a look at previous Bachelor's theses
 - <https://archiv.dmi.unibas.ch> (VPN required)
- you can also propose your own ideas
 - but it is up to the lecturers if they are willing to supervise them

The Bachelor's Thesis

- Bachelor's thesis **is not** yet another programming project
- Bachelor's thesis **is your first individual scientific project**
- important aspects
 - **good scientific practices**
 - individual work: no plagiarism
 - scientific work: reproducibility
 - scientific work: sound theoretical basis
 - sound content, well written report
 - programming is usually an essential part – but only a part – of the thesis
 - final presentation on concepts, implementation, evaluation

General Aspects

- language: German or English
- programming language: differs from research group to research group
- length of the report: depends on work
- use LaTeX
- use of AI tools: must follow guidelines on department website

The End(s)

- two “end points” for your thesis
 - **written report**; includes declaration of scientific integrity
 - **presentation** (with discussion)
- **criteria for final assessment**
(same for BSc and MSc theses, only weights differ)
 - Quality of results (35%)
 - Originality of results (5%)
 - Methodology (35%)
 - Literature research (5%)
 - Written report (10%)
 - Presentation (10%)



University
of Basel

Thank you for your attention.

Any questions?
