

## MASTER'S THESIS REGULATIONS (SEPTEMBER JULY 5, 2016)

### GENERAL INFORMATION

A master's thesis represents a supervised research project realized as a part of the study program. Accordingly, it cannot be the object of an employment contract or a specific financial compensation. A thesis must represent novel research work and must provide a challenging and educational project, which can be completed in six months full-time work with a reasonable effort.

### DURATION

- In general, all work on the master's thesis – including submission of the written thesis and other items (see below) – has to be completed within six months.
- In case of part time working, prolonged sickness, military service, unexpected difficulties in the course of the thesis, etc., the official duration can be extended up to nine months at the maximum. The student has to submit a written request to the study coordination including proof (e.g., confirmation of the employer, medical certificate), 2 weeks before the end of those six months.

### EXAMINERS AND SUPERVISORS

- Each master's thesis must have at least a first examiner (primary academic responsibility), an independent second examiner, and a first supervisor (primary scientific responsibility). Often, the first supervisor is either the first examiner or the second examiner. An additional second supervisor may be assigned.
- The first examiner of a master's thesis must be a lecturer of UniBE or BFH-TI within this BME master's program who holds a PhD degree or an equivalent scientific qualification.
- The second examiner must have at least a master's degree or an equivalent degree in biomedical engineering or in a related field.
- The first supervisor must be affiliated to UniBE or BFH-TI and have at least a master's degree or an equivalent degree in biomedical engineering or in a related field.
- As a special opportunity, it is possible for outstanding candidates to realize an externally supervised master's thesis in collaboration with a company or a university outside Switzerland. The student and the external first supervisor have to submit an application to the study coordination with the following documents: master's thesis proposal, registration form for master's thesis, letter of motivation and transcript of records from the student, letter of commitment and curriculum vitae from the first supervisor. All applications will be evaluated by the program management.

### INTELLECTUAL PROPERTY RIGHTS AND CONFIDENTIALITY AGREEMENT

- Management of intellectual property (IP) rights lies within the responsibility of the first supervisor.
- The program management supplies standard contracts for regulation of IP rights and confidentiality, both for regular master's theses within research groups at the University of Bern or the Bern University of Applied Sciences, and for master's theses supervised externally in collaboration with a company or a university outside Switzerland. Templates for these contracts can be found on Ilias ([www.ilias.unibe.ch](http://www.ilias.unibe.ch)).

### PROCEDURE

#### PROJECT PROPOSAL

- All master thesis project proposals are to be submitted by potential first supervisors to the study coordination for evaluation. Templates for proposals are provided on Ilias. The project description must include background

information of the research, the goal of the project, the specific nature of the research work, and the required skills and experience of the student.

- All proposals will be evaluated by the program management to ensure that the project meets the required standards for scientific originality, organization, technical challenge, feasibility, and depth of supervision. A proposal may be approved, rejected or returned for revision prior to approval and publication on Ilias.
- In general, all approved proposals will be published on Ilias. If the project is of a confidential nature, the author of the proposal may request that the document is not published.

## REGISTRATION

- To start with the master's thesis, not more than 6 ECTS points can be missing. Only one of the missing courses can be from the basic modules.
- Before registration, all courses in KSL have to be credited to the corresponding modules of the master's program.
- The following items have to be submitted to the study coordination:
  - The project proposal
  - The official registration form with the signatures of the master student, the first examiner, and the first supervisor
  - If the student plans to extend the thesis beyond six months: an employment confirmation for the duration of the master's project
- The registration form is evaluated by the study coordination in order to check if the student fulfills all requirements, followed by a final signature of the program management. The study coordination informs all people involved upon their decision on the registration.
- The master's project is not allowed to start before a positive decision has been sent.

## SUBMISSION

The following items must be submitted to the study coordination office, to each of the first and second examiners and to all supervisors within the official deadline indicated on the student's registration form. Submission in due time is a requirement of project planning and organization and is therefore part of the thesis evaluation. As a consequence, submission delays will lead to deductions in the grading. If sent by mail, the post stamp is regarded as submission date. Submission of other project data may be requested by the supervisors.

- **The thesis document**
  - The master's thesis must contain the following declaration, which is signed by the master student: "Ich erkläre hiermit, dass ich diese Arbeit selbständig verfasst und keine anderen als die angegebenen Hilfsmittel benutzt habe. Alle Stellen, die wörtlich oder sinngemäss aus Quellen entnommen wurden, habe ich als solche kenntlich gemacht. Mir ist bekannt, dass andernfalls der Senat gemäss dem Gesetz über die Universität zum Entzug des auf Grund dieser Arbeit verliehenen Titels berechtigt ist." The legally not-binding translation of this statement is: "I hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person, except where due acknowledgement has been made in the text. In accordance with academic rules and ethical conduct, I have fully cited and referenced all material and results that are not original to this work. I am well aware of the fact that, on the basis of the University Law, the Senate is entitled to deny the title awarded on the basis of this work if proven otherwise."
  - The form of the written thesis is to be set in consultation and agreement with the first supervisor and should fulfill the general requirements of an academic thesis. The templates available on Ilias must be used.

- One printed and one PDF copy of the thesis document must be submitted to the study coordination and simultaneously to all supervisors and examiners. We request that all printed copies are bound properly.
- **The one-page summary**
  - The template available on Ilias must be used. Please submit the document in both Word and PDF format.
  - Since the one-page summary will be published in various forms, its content must be suitable for publication even if the thesis itself contains confidential information. It has to be written in English and be approved by all supervisors before submission.
- **The signed declaration of consent on the publication of the thesis document**
  - This declaration available on Ilias states whether the student agrees or does not agree with publication of his/her thesis document.

## PRESENTATION AND DEFENSE

- The presentation and defense must take place at UniBe or BFH-TI no earlier than 2 weeks and within 4 weeks after complete and correct submission of all required documents. Date, location and name of the second examiner with contact information have to be organized by the student with the preliminary approval of the participants and communicated to the study coordination office at least 2 weeks in advance.
- The presentation of the master's thesis lasts 20 to 30 minutes with subsequent defense. In general, the presentation is open to the public and immediately followed by the master's thesis defense. If the student does not agree with publication of the thesis, the defense will be closed to the public. Both the first examiner and the second examiner must imperatively be present for both presentation and defense. The supervisor(s) should be present if feasible.
- An electronic version of the final presentation (in PDF format) must be submitted to the study coordination within two weeks after the presentation.

## FINAL EVALUATION

- The final evaluation must be completed at the thesis defense. The mark for the project and the written document counts for 85%, the mark for the defense counts for 15% of the total mark for the master's thesis.
- The first and second examiner should agree on the marks. In case of disagreement, the mean of the proposed marks will be used. The opinion(s) of the supervisor(s) shall be heard. Both marks have to be transmitted to the study coordination using the standard final evaluation sheet, which is sent to the first examiner by the study coordination.

## GRADUATION

- To be granted the master title, four requirements must be fulfilled:
  - The registration form for granting the diploma has been handed in to the study coordination.
  - The remaining exam fees of 150 CHF have been paid.
  - All marks for the necessary 120 ECTS points have been submitted to the study coordination. This means in particular that all exams have to be passed and a total mark has to be assigned to the master's thesis.
  - The official rules for registration at the University of Bern have to be observed (see <http://www.bme.master.unibe.ch/studies/program/graduation/>).
- The day when the last mark of the master's program has been submitted to the study coordination defines the graduation date. This is usually the day that is associated with the mark for the master's thesis.