REGULATIONS FOR THE CONTROL OF STUDIES OF THE MICROTECHNOLOGY SECTION FOR THE MASTER IN ROBOTICS for the 2021-2022 academic year
May 26 2021

The management of the Swiss Federal Institute of Technology Lausanne

Having regard to the ordinance on education leading to the bachelor's and master's degrees of the EPFL of June 14, 2004,

Having regard to the ordinance on the control of studies leading to the bachelor's and master's degrees at EPFL of June 30, 2015,

having regard to the study plan of the microtechnology section for the Master in Robotics.

stop:

Art. 1 - Scope of application

The present regulation sets the rules for the application of the control of the Master's degree of the Microengineering Section for the Master's degree in Robotics which refer to the academic year 2020-2021.

Art. 2 - Training stages

The Master in Robotics is composed of two successive stages of training:
- the master's program, which lasts 3 semesters and requires the acquisition of 90 credits, a condition for the master's project.
- the Master's project, lasting 17 weeks at EPFL or 25 weeks outside EPFL (industry or other university), which results in the acquisition of 30 credits. It is placed under the responsibility of a professor or MER affiliated to the Microtechnology Section.

Art. 3 - Examination sessions

1 The examination subjects are examined in writing or orally during the winter or summer sessions. They are mentioned in the study plan with the mention H or E.

2 Semester courses are taken in the fall or spring semester. They are indicated in the syllabus as sem A or sem P.

3 An annual branch, i.e., one that is titled on a single line in the study plan, is examined as a whole during the summer session (E).

4 For the sessional branches, the written or oral form of the examination indicated for the session may be supplemented by written or oral tests of knowledge during the semester, as indicated by the instructor.

Art 4- Prerequisites

Some courses may require prerequisites that are mentioned in the course description. The prerequisite course is validated if the corresponding credits have been acquired for the course or by block average.

Art 5- Admission requirements

1 Students with a Bachelor's degree in Microengineering are automatically admitted.

2 For other students, admission is by application.

Art. – 6 Organization

1 The courses of the master cycle are divided into two blocks and one group whose credits must be obtained independently.

2 Block 1 "Basic compulsory courses" is composed of basic courses for a total of 15 credits.

3 Block 2 "Compulsory practice" is composed of robotics practical work, a 10-credit semester project and SHS instruction.

4 Group 3 "Options" is composed of
   - a 10-credit semester project;
   - elective courses for the remaining credits.

5 From the elective courses, the student chooses a minimum of 17 credits from one of the 3 categories below:
   - Industrial robotics,
   - Medical robotics,
   - Mobile robotics.

6 Courses may be chosen outside the list of electives. Their choice must be validated in advance by the section.

Art. – 7 Examination of the master cycle

1 Block 1 "Basic compulsory courses" is passed when credits 15 are obtained.

2 Block 2 "Compulsory practice" is passed when the credits 18 are obtained.

3 The "Options" group is passed when at least 57 credits are earned.

Art - SHS Education
The two SHS branches are each worth 3 credits. The fall semester course introduces the spring semester project. The College of Humanities and Social Sciences may depart from this organization if it considers that the reason is justified. It may also authorize a student to carry out his or her project in a semester that does not immediately follow the semester in which the introductory teaching takes place.

Art 9- Minors

1 In order to deepen a particular aspect of his or her training or to develop interfaces with other sections, the student may choose the training offered in a minor included in the EPFL offer.

2 The student announces the choice of a minor to his or her section no later than the end of the first semester of master's studies.

3 The choice of courses that make up a minor is made with the microtechnology section and with the person in charge of the minor.

4 The minor is included in Group 3 "Options".

5 All the courses forming the minor are completed with subjects from the "Options" list to reach a minimum of credits 57, including the 30 credits of the minor and respecting the constraints of the orientation. The optional interdisciplinary semester project is excluded from this choice.

6 If the opportunity exists in the minor, the student is required to complete a semester project as part of the minor, within their 30 credits. If the minor does not offer this opportunity, the student is required to complete the semester project outside of the minor's credits, within the student's remaining 10 credits of free electives.

7 A minor is successful when a minimum of 30 credits are earned from the endorsed branches.

Art 10- Engineering internship

1 During their Master's degree, students must complete an engineering internship lasting a minimum of 8 weeks and a maximum of 6 months. However, the completion of a 25-week master's project in a company exempts students from this obligation.

2 As a general rule, the internship is carried out at the earliest after two semesters of the master's program but before the master's project.

3 The section's internship supervisor evaluates the internship with a "successful" or "unsuccessful" assessment. Successful completion is a condition for admission to the Master project. If the internship is not successful, it can be repeated once, usually in another company.

4 It is validated with the 30 credits of the master project.

5 The organization of the internship and the criteria for its validation are the subject of an internal directive of the section.

On behalf of the EPFL management

The President, M. Vetterli
Academic Vice President, J. S. Hesthaven

Lausanne, May 26, 2021

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