

Department of Mechanical and Process Engineering

**Study Guide** Master of Science ETH in Micro and Nanosystems

September 2023

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# 1 Master's Program

Micro and Nanosystems are systems or devices that integrate electronic and nonelectronic elements, functioning at the micro or nano scale. Education in this field concentrates on the synthesis of electrical and mechanical engineering. The Department of Mechanical and Process Engineering (D-MAVT) and the Department of Information Technology and Electrical Engineering (D-ITET) combine efforts in a joint Master's Program in Micro and Nanosystems. Members of Department Physics and Biosystems Science and Engineering are also involved in the program.

The Master's Program in Micro and Nanosystems offers a future-oriented education to outstanding Bachelor graduates from all over the world. Micro and nanosystems engineers need to master fundamental theoretical knowledge and application-specific aspects of materials and their properties, quantum mechanics, novel properties of devices, system integration, modeling and simulation.

Well-established companies, start-ups and emerging industries that utilize technology and system integration require a new generation of engineers who are familiar with a broad range of natural and engineering sciences. These engineers must create and drive innovations for new business opportunities. The Master's Program in Micro and Nanosystems provides students with the knowledge and skills needed to meet these challenges. It provides a solid education for the micro and nanosystems engineers of today and tomorrow.

This Master's Study Guide provides detailed information relating to the Master in Micro and Nanosystems (MNS), according to the "Program Regulations 2010 of the Master's Degree Program in Micro and Nanosystems".

→ <u>https://rechtssammlung.sp.ethz.ch/Dokumente/324.1.0300.51.pdf</u> (in German)

### 1.1 Tutor System

Each student in the Master's Program in Micro and Nanosystems is supervised by an ETH professor designated as "tutor". The aim of the tutor system is to help create an individualized curriculum for the student and to provide one-to-one support: it ensures a

top-class, specialized education, which takes into account the student's talents and expectations. Tutors coach their students throughout the program, monitoring their progress and proposing any necessary adjustments required to enhance their performance.

The tutor discusses the student's choice for the category Core and Multidisciplinary Courses and approves the subject as well as the choice of supervisor of the Semester Project and Master's Thesis, thus ensuring that their individual requirements and interests can be followed.

Professors of the different departments at ETH Zurich, who are involved in teaching and research related to one or more aspects of micro and nanosystems, are authorized to act as tutors.

→ <u>http://www.master-micronano.ethz.ch/tutors.html</u>

When applying for the Master's Program, students must indicate three tutors who should be selected according to the topic of focus in the student's chosen core subjects. The tutor will then be specified in the admission letter, according to the decision of the admission committee.

At the student's request, the Director of Studies may approve a change of tutor if justified reasons are given. Changes are only possible at the beginning of a semester. A change does not result in an extension of the maximum allowed study duration.

### 1.1.1 Learning Agreement

The individual study plan is defined in the Learning Agreement between the tutor and the student.

The student discusses the choice of courses in the category Core Courses and Multidisciplinary Courses with his/her tutor, fills out, and submits the Learning Agreement on myStudies. **No other categories are included in the Learning Agreement**.

The tutor can approve it or request changes. In both cases, the student is informed by email. If the tutor requests changes, the student has to update and resubmit the Learning Agreement.

The Learning Agreement must be submitted on myStudies and approved by the tutor within 3 weeks after the start of the semester. The Learning Agreement can be adjusted during the program but **needs to be finalized before starting the Master's Thesis**. Changes in the LAG will only be granted before receiving the grade of the courses or if a student failed a course and needs to choose an alternative. **Adjustments to improve the GPA are not allowed**.

→ <u>https://master-micronano.ethz.ch/administrative</u>

### **1.2 Curriculum structure**

Students must obtain 90 ECTS to qualify for the Master's Degree in Micro and Nanosystems, of which at least 60 ECTS have to be achieved at ETH Zurich. The curriculum is structured in six categories. In each category, a given number of credit points must be attained.

→ <u>www.master-micronano.ethz.ch/curriculum.html</u>

Category	ECTS	Description			
Core Courses	36	<ul><li>Foundation of the Master's Program</li><li>Core knowledge in the area of interests</li></ul>			
Multidisciplinary Courses	6	Deepen degree-specific knowledge			
Science in Perspective (SiP)	2	<ul> <li>Courses in humanities, social and political sciences offered by ETH</li> </ul>			
Semester Project	8	Experience in the solution of a specific engineering problem			
Industrial Internship	8	12-week internship in a company			
Master's Thesis	30	Independent scientific work			

### 1.2.1 Core Courses

The Core Courses lay the foundation for the Master's Program by providing the students with core knowledge in their area of specialization.

Together with the students, tutors define the courses for this category and include them in the Learning Agreement.

The core courses must be master level courses.

### 1.2.2 Multidisciplinary Courses

The courses in this category (6 ECTS) give the students an opportunity to deepen their degree-specific knowledge or extend their understanding of economics and the social sciences.

The Multidisciplinary Courses are chosen in agreement with the tutor and must be included in the Learning Agreement.

Language courses will NOT be accredited in this category.

### **1.2.3 Science in Perspective (SiP)**

Science in Perspective (2 ECTS) is an integral part of the curriculum. It opens up new perspectives on the natural and engineering sciences and teaches the students to understand and critically question the correlations between scientific knowledge, technological innovations, cultural contexts, individuals and society.

The courses are selected from the special Course Catalogue "GESS Science in Perspective" of the Department of Humanities, Social and Political Sciences (D-GESS) at ETH Zurich.

- → <u>www.gess.ethz.ch/en/studies/science-in-perspective.html</u>
- → www.ethz.ch/content/dam/ethz/common/docs/weisungssammlung/filesde/wissenschaft-im-kontext.pdf (in German)
- → www.ethz.ch/content/dam/ethz/common/docs/weisungssammlung/filesen/science-in-perspective.pdf (English translation)

### **1.2.4 Semester Project**

The Semester Project makes use of the technical knowledge acquired during the Master's Program and is aimed at training the students in the solution of specific engineering problems. It corresponds to a workload of 240 hours (six weeks full time) and can be completed in part- or full-time.

The Semester Project is supervised by an ETH Zurich professor and must be approved in advance by the tutor.

The supervisor proposes the subject of the project, supports the student in the preparation of the project plan, defines the road map together with the student and monitors the overall execution of the project.

Due to the interdisciplinary nature of this Master's Program, it is strongly recommended that the Semester Project and the Master's Thesis be carried out in two different departments or labs.

The student has to enroll for the Semester Project on myStudies between one month before and one month after the starting date. It is necessary to enter all details (start date and submission deadline, title) as agreed upon with the supervisor. After the supervisor and the tutor give their confirmation, the project registration is final.

The Director of Studies may approve an extension of the submission deadline if justified reasons are given.

→ www.ethz.ch/content/dam/ethz/special-interest/study-programmewebsites/master-mechanical-engineeringdam/documents/Request%20to%20extend%20project\_thesis.pdf

An extension to improve the grade will not be granted.

The Semester Project is concluded with a written report and a presentation, handed in to the supervisor before the deadline. If the student does not pass the Semester Project, a new topic must be defined and undertaken.

### 1.2.5 Industrial Internship

The main objective of the 12-week internship is to expose Master students to the industrial work environment. The Industrial Internship may be undertaken in a Swiss or a foreign company. The choice of the internship requires the approval of the tutor.

The aim of the internship is to apply engineering knowledge to practical situations.

The internship should be completed before the student starts the Master studies or during the study program. The first option is recommended. Only internships that have been completed after achieving all required credit points for the Bachelor's Program may be credited as Industrial Internship.

The internship can be split in two parts.

It is the student's responsibility to find an eligible internship position. To help students in their search, potential companies that may offer internship positions are listed in the internship application under "Company directory". Further positions are published on the ETH students' portal and IAESTE Switzerland or on the webpage of D-MAVT.

- → <u>www.mavt.ethz.ch/praxis</u>
- → www.mavt.ethz.ch/studies/notice-board.html
- → <u>www.eth-gethired.ch/en/</u>
- → <u>www.iaeste.ch</u>

To acquire the 8 ECTS for the internship, the student must complete the following steps:

- Obtain an internship;
- Work in a company for at least twelve weeks;
- Receive a letter of confirmation from the company including the activities and tasks performed during the internship;
- Submit the letter of confirmation through the internship application.
  - → <u>www.mavt.ethz.ch/praxis</u>

#### 1.2.6 Master's Thesis

The Master's Thesis (30 ECTS) constitutes a six-month, full-time project, aimed at advancing the skills and capabilities of students to work independently and creatively towards the solution of an independent research problem.

In order to start the Master's Thesis, students must:

- have obtained a Bachelor's Degree;
- have fulfilled all additional requirements requested for the admission;
- have achieved at least 32 credit points in the category "Core Courses";
- have acquired the 8 credit points for the Semester Project;
- have submitted the **final** version of the Learning Agreement (through myStudies).

Nonetheless, it is recommended to only start the Master's Thesis after achieving all required credit points.

The Master's Thesis is either closely related to the research activity of the tutor or of an ETH Zurich professor or deals with a challenging topic faced by industry. Enrollment and grading of the Thesis has to be at ETH Zurich.

Due to the interdisciplinary nature of this Master's Program, it is strongly recommended that the Semester Project and the Master's Thesis be carried out in two different departments or labs.

The tutor approves the subject as well as the choice of the supervisor (professor at ETH Zurich) of the Master's Thesis. The supervisor defines the roadmap, the milestones, deadlines, presentation, report, dates and the criteria for assessment, and is responsible for monitoring the structure and quality of the thesis.

The student has to register the Master's Thesis on myStudies latest up to one month after the start date. It is necessary to enter the details (start date and title) as agreed upon with the supervisor, as well as uploading the project description. The submission deadline is calculated automatically by the system (28 weeks) and is binding. Once the supervisor and the tutor confirm, the thesis registration is final. The Director of Studies may approve an extension of the submission deadline if cogent reasons are given.

A request to extend the project/thesis needs to be signed and handed in to info@mavt.ethz.ch before the deadline:

https://ethz.ch/content/dam/ethz/special-interest/mavt/departmentdam/studium/Request-extend-project thesis.pdf

An extension to improve the grade will not be granted.

The Master's Thesis is concluded with a written report and a presentation, handed in to the supervisor before the deadline. The department does not need a copy. If a Master's Thesis is not successfully completed, a new topic must be defined.

No form of remuneration is to be agreed upon by students or institutions of ETH Zurich with third parties. Expenses, however, may be covered by third parties.

## → www.ethz.ch/content/dam/ethz/common/docs/weisungssammlung/filesen/remuneration-written-papers.pdf

The ownership of the intellectual property has to be determined for each particular case. Generally, students are creators and authors of their work according to Swiss copyright law. All intellectual property rights regarding the Master's Thesis and its results remain in their possession.

If secrecy between ETH Zurich and the industrial partner is required, it must be specified in an arrangement between the responsible professor and the company.

# 2 Master's Degree

As soon as all required credit points from the six categories have been obtained, the student may request the diploma through myStudies and send it to the D-MAVT student administration for processing by the end of each month.

The courses in the category Core and Multidisciplinary Courses must correspond with the Learning Agreement approved by the tutor.

Students may have 100 ECTS recognized for the Master's Degree, of which a maximum of 4 ECTS may be earned in the category "Science in Perspective". Additionally obtained credit points from the Course Catalogue of ETH must be without category and will be listed on the Addendum of the final academic record.

All performance assessments appear on the academic record. Failed performances that have not been successfully repeated are listed on the Addendum.

The printed and signed diploma request needs to be submitted to the D-MAVT Student Administration or sent to <u>info@mavt.ethz.ch</u>.

When all prerequisites are completed, the Master's Degree will be conferred and the student may assume the title of:

### Master of Science ETH in Micro and Nanosystems

The shorter form *MSc ETH MNS* may be used.

The Overall Grade Point Average of the Master's Degree is composed of the weighted grade point average of the following categories:

<u>Category</u>	<u>Weight</u>
Core Courses	5
Semester Project	1
Master's Thesis	4

The average of the Core Courses is weighted according to the credit points of each course.

The students receive a transcript in German and in English, a ranking information, a diploma supplement, and an official diploma in either German, French or Italian.

Outstanding students with an overall average grade of 5.75 (or higher) will be awarded with the title "passed with distinction". This title will be specified on the diploma and the transcript.

# 3 Duration

The Master's Program is designed as a full-time study program. The completion of 90 ECTS requires 3 semesters, the maximum duration of study is 3 years.

Under special circumstances, the Rector may approve an extension of the study duration.

→ <u>www.ethz.ch/students/en/studies/administrative/study-terms.html</u>

# 4 Language

Course units in the Master Micro and Nanosystems and the corresponding performance assessments are normally conducted in English. The language used is listed for each course in the Course Catalogue.

→ <u>www.course-catalogue.ethz.ch</u>

# 5 Admission and application

The Master's Degree Program in Micro and Nanosystems has a strong interdisciplinary nature and students can apply to the program with a Bachelor's Degree in:

- Mechanical Engineering
- Electrical Engineering and Information Technology
- Microsystems Technology

It is only possible to start the Master's Program in autumn semester.

Candidates for the Master's Program must present very good performances in fundamental disciplines and competences in technical and natural sciences which must in content, scope, and quality be equivalent to those covered in the ETH Bachelor's degree programs Mechanical Engineering or Electrical Engineering and Information Technology. These skills are a minimum requirement and serve as a basis for the admission process.

→ <u>www.ethz.ch/master-requirement-profiles</u>

Admission is made by the admission committee of the Master's Program, based on an individual evaluation of the application file (evaluation sur dossier):

- Assessment of the profile;
- Performance and grades;
- Academic ranking;
- CV and motivation letter describing personal goals and motivation for studying for the Master's in Mechanical Engineering at ETH Zurich;
- Three preferred tutors and their order of preference;
- 2 letters of recommendation (except for ETH students);
- GRE Test;
- Any additional documents that may be relevant for the application, such as scientific or professional publications, awards, information about previous education, etc.;
- An English test (Level C1) for non-native speakers (TOEFL, IELTS or equivalent).

Students can be admitted with or without additional requirements, but they may be rejected as well. The Admissions Office will inform the students about the decision and (in case of admission) about the tutor assigned and the courses defined as additional requirements.

Credit points acquired from courses from other degree programs at ETH Zurich may be recognized towards the Master's Degree if these credit points have not yet been counted towards another degree. It is not possible to recognize ECTS credit points obtained from previous study programs outside ETH Zurich.

### 5.1 Enrollment

Upon successful application, external students will receive a registration form enclosed with an admission letter and they must follow the instructions and deadlines set in the admission letter.

→ <u>www.ethz.ch/en/studies/master/accepting-your-place/registration.htmlh</u>

Students from ETH Zurich who have not yet finished a Bachelor's Program must be enrolled in both the Bachelor's and the Master's Program until issuing of the Bachelor's diploma.

→ <u>www.myStudies.ethz.ch</u>

# 6 Performance Assessment

A performance assessment is required for all courses of the Master's Program in Micro and Nanosystems. The type of assessment is defined by the lecturer. For example, assessments can be made through exercises, projects, presentations or tests. The details are given in the Course Catalogue of ETH Zurich. Only one repetition is permitted. It is only possible to repeat a failed examination if the offering department of ETH Zurich or the respective university provides no other regulations for the repetition. A passed examination cannot be repeated.

- → <u>www.course-catalogue.ethz.ch</u>
- → www.ethz.ch/students/en/studies/performance-assessments.html

### **Examinations Office**

HG F18, Rämistrasse 101, 8092 Zurich Email: <u>exams@ethz.ch</u>, Tel.: +41 44 632 20 68

### 6.1 Types of Performance assessments

There are three different types of Performance assessments:

- Session examinations
- End-of-semester examinations
- Semester performances

### 6.1.1 Session examinations

This form of performance assessment is carried out during the examination sessions, which are held twice a year: once during the winter session (calendar weeks 4-7) and once during the summer session (calendar weeks 32-35). These examinations are planned by the Examinations Office and are listed in the student's personal examination schedule, which is shown on myStudies.

There are performance assessments which are only offered in the session immediately after the course. These examinations are specified in the Course Catalogue by the following label: "Repetition only possible after re-enrolling for the course unit".

The student must register for the session examinations during the third or fourth week of each semester.

It is possible to withdraw from examinations via myStudies (otherwise, the examination will be considered as failed "no show"), according to the following deadlines:

• from the third week of the semester until Sunday at midnight (24:00 hours) one week before the start of the examination session.

Once the withdrawal deadline has expired, it is only possible to withdraw for reasons of force majeure (e.g. illness, accident).

### 6.1.2 End-of-semester examinations

This form of performance assessment is carried out during the last two weeks of a semester and during the first two weeks after the end of the semester. The examination dates are announced by the lecturer offering the course. These examinations are thus not shown in the examination schedule on myStudies.

The student must register for the end-of-semester examinations during the third or fourth week of each semester through myStudies.

It is possible to withdraw from examinations via myStudies (otherwise, the examination will be considered as failed "no show"), according to the following deadlines:

• from the third week of the semester to the penultimate week of the semester (Sunday at midnight, 24:00 hours).

It is possible to repeat a performance assessment without re-enrolling in a course, if a repetition date, generally at the start of the following semester, is offered. The lecturer offering the course announces this date.

For the repetition, it is necessary to register through myStudies. This is only possible once the results are decreed.

#### 6.1.3 Semester Performance

This usually takes the form of integrated performance assessments during the semester or performance assessments, which take place outside of the normal semester schedule (e.g. theses, projects). Semester performances may be graded or ungraded. Students must enroll in the respective course.

### 6.2 Grading System

Courses are assessed with "pass/fail" or with a grade.

ETH Zurich does not use the ECTS Grading Scheme. The grading scale goes from 1.0 to 6.0 in quarter grade (0.25) steps. The pass grade is 4.0, the maximum grade is 6.0.

If the student discontinues a project or fails to show up at an exam, the performance will be regarded as failed and will be marked with the term "no show".

→ www.ethz.ch/content/dam/ethz/main/education/rechtlichesabschluesse/grading.pdf

### 6.3 Credit points

The credit system of ETH Zurich is based on the European Credit Transfer System (ECTS), and one credit point corresponds to an average workload of 30 hours. 30 ECTS are equivalent to one semester of full-time study.

Credit points are assigned to each learning unit according to the expected student workload. Courses are indicated in the Course Catalogue with credit points as well as hours. In general, courses at Master's level at D-MAVT correspond to 4 ECTS (3-4 hours per week).

Credit points are only awarded for successfully completed assessments. Partial awarding of credit points is not permitted.

# 7 Exchange

The Department of Mechanical and Process Engineering (D-MAVT) supports students to broaden their horizons through a "study abroad experience".

The exchange programs are open only for students with an ETH Bachelor's degree and with good academic performances.

For students who are interested to take part in an exchange program at one of ETH Zurich's partner universities, D-MAVT Student Exchange provides advice on choosing where to study, how to apply and what to do while they are there and once they are back.

- ➔ D-MAVT Student Exchange: <u>www.mavt.ethz.ch/studies/exchange-and-visiting-</u> <u>studies.html</u>
- → D-MAVT Study Abroad: <u>https://ethz.ch/students/en/studies/study-abroad.html</u>
- → Student Exchange Office of ETH: <u>https://ethz.ch/en/the-eth-</u> <u>zurich/organisation/departments/academic-services/student-exchange-office.html</u>

According to ETH Zurich regulations, at least two-thirds of the credit points required for a Master's Degree must be obtained at ETH Zurich. D-MAVT requires that at least 18 credit points in the category Core Courses (36 ECTS) must be achieved at ETH Zürich. The remaining credit points for the category Core Courses may be acquired with the credit points from the exchange semester, provided that this has been agreed with the tutor and is listed in the Learning Agreement.

The Director of Studies is responsible for the credit recognition at D-MAVT. The grades are converted to the ETH system, according to the table provided by the ETH Student Exchange Office. The courses, credit points and grades are included in the ETH transcript, according to the category approved by the tutor.

Information about financial aid, travel costs, and enrollment can be found on the webpages of ETH Zurich.

- → <u>https://ethz.ch/students/en/studies/study-abroad/exchange/exchange-programmes/swiss-european-mobility-programme.html</u>
- → www.ethz.ch/students/en/studies/financial/travel-allowance.html

# 8 MyStudies

"MyStudies" is the central application for all students to administrate their studies. The myStudies application is available to active ETH Zurich students, using the "nethz" (username) and password. The username and password will be assigned by the Registrar's Office once the complete enrollment documents have been received by ETH Zurich.

→ <u>www.myStudies.ethz.ch</u>

The most important activities on myStudies include:

- Enroll for the new semester
- Register for courses, projects, and theses
- Submit the Learning Agreement
- Register for examinations
- Transcript of Records
- Request to issue the Degree certificate
- → www.ethz.ch/students/en/studies/academic-support/web-basedplatforms/mystudies.html

# 9 Legal basis

Study regulations Master in Micro and Nanosystems:

→ <u>https://rechtssammlung.sp.ethz.ch/Dokumente/324.1.0300.51.pdf</u>

Legal Collection:

→ <u>https://rechtssammlung.sp.ethz.ch/\_layouts/15/start.aspx#/default.aspx</u>

Directives Collection of the Rectorate:

→ www.ethz.ch/en/studies/legal-principles-degrees/legal-basis/directives.html

# 10 Plagiarism

It is the responsibility of the student to be aware of the handling of scientific knowledge and the potential consequences of violating the rules.

A signed Declaration of Originality is a component of every Semester Project and Master's Thesis. By signing the Declaration of Originality, students attest that they have authored the work in question themselves; read the 'Citation Etiquette' information sheet on plagiarism; and adhered to the rules of citation standard in their disciplines.

→ <u>www.ethz.ch/plagiarism</u>

# 11 Code of Conduct

The Department of Mechanical and Process Engineering ensures that the environment is respectful and professional for all of our members including professors, students, research, administrative and technical staff, and lecturers.

We treat everyone with the same respect with which we expect to be treated. We behave and present ourselves professionally at all times. Our environment is:

- one of mutual respect
- free from threats and violence
- free from sexual harassment
- free from discrimination
- free from bullying and mobbing
- → <u>http://www.mavt.ethz.ch/the-department/code-of-conduct.html</u>

# **12** Correct usage of Telematics Resources ("BOT")

Each student is personally responsible for ensuring that her/his use of Telematics Resources at ETH Zurich does not violate the provisions of the Acceptable Use Policy as well as ensuring a secure data management.

Acceptable Use Policy:

→ <u>https://rechtssammlung.sp.ethz.ch/Dokumente/203.21en.pdf (English translation)</u>

Manage your data:

→ www.itsecurity.ethz.ch/en/#/manage\_your\_data

safeIT – Awareness program:

→ www.ethz.ch/services/en/it-services/safeit.html

# 13 Financial

Like any form of education, studying at ETH Zurich costs money. In addition to tuition fees and semester fees, most importantly there are living costs to consider too. Students spend an estimate of CHF 16,000 to CHF 26,000 on study and living costs each year.

### 13.1 Tuition fees

The tuition fees and semester fees of ETH Zurich are CHF 730.00/semester plus CHF 74.00/semester compulsory fees.

→ www.ethz.ch/en/studies/financial/tuition-fees.html

The tuition fee does not apply for students taking a leave of absence semester. With enrollment for individual courses during the leave of absence, CHF 60.00 CHF is charged for each semester hour up to a maximum of the tuition fee for a full semester (CHF 730.00). However, the compulsory semester fees must be paid.

→ <u>https://ethz.ch/students/en/studies/administrative/leave-of-absence.html</u>

### 13.2 Scholarships

ETH Zurich can offer a scholarship to students if they and their family cannot afford this funding, provided that the students can demonstrate that they are making adequate progress with their studies.

→ <u>www.ethz.ch/scholarships</u>

### Excellence Scholarship & Opportunity Program

ETH Zurich supports excellent Master's students with the Excellence Scholarship & Opportunity Program (ESOP).

→ www.ethz.ch/excellence-scholarships-en

### **Markus Meier Fund**

D-MAVT has special funds for students who have completed studies at a Swiss university or at a University of Applied Science.

→ www.mavt.ethz.ch/studies/markus-meier-fund.html

# 14 Useful information about ETH Zurich

### 14.1 Contacts D-MAVT

### **D-MAVT Student Administration**

LEE K 208 Leonhardstrasse 21, 8092 Zurich Phone: +41 44 632 43 92, email: <u>info@mavt.ethz.ch</u>

### Opening hours (or by appointment)

During	g the semester:	During the semester break:		
Mon:	13:00 - 16:00	Mon:	closed	
Tue:	09:00 - 12:00	Tue:	09:00 - 12:00	
Wed:	09:00 - 12:00	Wed:	closed	
Thu:	13:00 - 16:00	Thu:	13:00 – 16:00	
Fri:	09:00 - 12:00	Fri:	09:00 - 12:00	

### **D-MAVT Student Exchange**

Ji Hyun Lee LEE K 207 Leonhardstrasse 21, 8092 Zurich Phone: +41 44 632 59 24, email: mobility@mavt.ethz.ch

Opening hours: Mon – Thu, 9:00 – 12:00

### 14.2 Contacts ETH

### **Admissions Office**

Zentrum campus, Main Building, HG F 21.2-5 Opening hours: Mon – Fri, 11:00 - 13:00 Phone: +41 44 632 81 00, email: <u>master@ethz.ch</u>

#### **Registrar's Office**

Zentrum campus, Main Building, HG F 19 Phone: +41 44 632 30 00, Fax: +41 44 632 10 61, email: <u>registrar@ethz.ch</u> For opening hours please check: <u>https://ethz.ch/studierende/de/studium/administratives.html#kontakt-kanzlei</u>

### **Examinations Office**

Zentrum campus, Main Building, HG F 18 Opening hours: Mon – Fri, 11:00 – 13:00 or as arranged by phone Phone: +41 44 632 20 68, email: <u>exam@ethz.ch</u>

#### **International Student Support**

Zentrum campus, Main Building, HG F 22.3 Phone: +41 44 632 20 95, email: <u>international@sts.ethz.ch</u>

### **Financial Aid Office**

Zentrum campus, Main Building, HG F 22.1 Phone: +41 44 632 20 40, email: <u>studienfinanzierung@sts.ethz.ch</u>

#### **Disability Advisory Service**

Zentrum campus, Main Building, HG F 68.3 Phone: +44 632 35 92, email: <u>karin.zuest@sts.ethz.ch</u>

### Psychological Counseling University Zurich and ETH Zurich

Phone: +41 44 634 22 80, email: pbs@ad.uzh.ch

### 14.3 Weblinks

### Webpage Master of Science in Micro and Nanosystems

→ www.master-micronano.ethz.ch/

#### Student portal

→ www.ethz.ch/students/en.html

### **Course Catalogue**

→ www.vvz.ethz.ch

AMIV (Academic Association of Mechanical and Electrical Engineers, ETH)

→ <u>www.amiv.ethz.ch</u>

### LIMES (Ladies in Mechanical and Electrical Studies)

→ <u>www.limes.ethz.ch/</u>

### SOSETH

→ <u>https://sos.ethz.ch/</u>

### Housing Office of University Zurich / ETH Zurich

→ <u>www.wohnen.ethz.ch/en</u>

### WOKO Studentische Wohngenossenschaft (Home for Students)

→ <u>www.woko.ch</u>

### ETH Zurich Ombudsperson

Confidential qualified help in case of serious difficulties, conflicts and personal crises

→ <u>https://ethz.ch/en/the-eth-zurich/organisation/ombudspersons-and-trusted-intermediaries.html</u>

### Nightline Zürich

Independent help-line from students for students

→ <u>www.nightline.ch</u>

### 14.4 ETH Zurich in short

Consistently rated among the top universities in Europe, ETH Zurich is a leading participant in the world of research and education in Switzerland and abroad. Its 16 departments offer Bachelor, Master and Doctoral Programs in engineering, natural, and social sciences.

ETH Zurich has more than 22,000 students from approximately 120 countries, 4,000 of whom are doctoral candidates. About 540 professors teach and conduct research in the areas of engineering, architecture, mathematics, natural sciences, system-oriented sciences, and management and social sciences.

21 Nobel Laureates have studied, taught or conducted research at ETH Zurich, underlining the excellent reputation of the institute; the most famous graduate of ETH Zurich was none other than Albert Einstein.

The international environment – close to 60% of the professors come from outside of Switzerland – and the excellent teaching and research infrastructure make ETH Zurich the ideal place for creative individuals. Connections with businesses and industries are strong, as the Greater Zurich Area is the economic center of Switzerland and home to numerous international companies.

ETH Zurich has two principal locations: one in the center of Zurich and one at Hönggerberg, the Science City campus, just outside the city. Students participating in the Master's Program in D-MAVT spend most of their time at the central campus.

→ <u>www.ethz.ch/en/campus.html</u>

### 14.5 Zurich – the city

Zurich is well-known as a safe and attractive city – indeed, for several consecutive years it has been ranked as having the highest quality of life in the world. Despite its relatively small size (380,000 inhabitants), the city has an international metropolitan flair and offers an extensive range of leisure amenities.

While Berne is Switzerland's political capital, Zurich is considered its business capital: formerly an industrial town, the city's focus has shifted to commerce and knowledge-intensive enterprise.

With its theatres, concert halls, museums, art galleries, libraries, bookshops, and educational institutions at all levels, Zurich is also a center of cultural importance. Its location on Lake Zurich and its proximity to the Alps and other places of scenic interest make Zurich a pleasant place to live in both summer and winter.

Zurich has excellent air, rail and road connections. Eurocity and Intercity trains from all directions stop at the central station. Within the metropolitan area, there is a combined network of public transportation, linking rapid suburban rail, trams, buses and boats.

### 14.6 Locations

#### Getting to the campus

→ www.ethz.ch/en/campus/access.html

#### D-MAVT

→ www.mavt.ethz.ch/the-department/locations.html



#### NEL VÕG FLI SOW ROF нит� denbach 9/10 UNO WET V CLP SOP SOK WEH laldenegg CHN 6/10 Uni Spital Nord npfenbachstrasse CLX UNG 🗖 CLD Walche-Brücke CAR NC HCH STW STS Bahnhof-Quai Haupt-bahnhof WEC WEC VOA /OB LFG HAC oriastras HAA Haupt-bahnhof 5/10 Universitätsspital Mauer ADM f-Brück Zoo Central i HG Voltast 6/9 9 Limmatquai ETH Zentrum/ Universitätsspital HRS Beatenplatz mid-St Karl-Sch Rotkreuzspital HRC Universität Zürich-Zentrum Platte Gloriastrasse Kün Rudolf Brun-Brücke Kantonsschule ringer platz SOB Lindenhof Rindermark Bellevue

### **D-ITET**

### → www.ee.ethz.ch/the-department/how-to-find-us.html

### **D-PHYS on the Campus ETH Hönggerberg**

- → <u>https://www.phys.ethz.ch/the-department/how-to-find-us.html</u>
- → <u>http://www.ethz.ch/campus-hoenggerberg</u>



ETH Zürich Departement Maschinenbau und Verfahrenstechnik Leonhardstrasse 21 8092 Zürich

www.mavt.ethz.ch