



# Master of Science Electrical Engineering and Information Technology













**September 16, 2019**

Prof. Dr. Juerg Leuthold, Director of Studies D-ITET

# Welcome at the D-ITET Faculty



# ETH Zurich – Top Ranking

1	 Massachusetts Institute of Technology (MIT)	<a href="#">More</a>	United States
2	 Stanford University	<a href="#">More</a>	Engineering - Electrical & Electronic
3	 Harvard University	<a href="#">More</a>	
4	 University of Oxford	<a href="#">More</a>	
5	 California Institute of Technology (Caltech)	<a href="#">More</a>	
6	 ETH Zurich - Swiss Federal Institute of Technology	<a href="#">More</a>	
7	 University of Cambridge	<a href="#">More</a>	
1	 Massachusetts Institute of Technology (MIT)	<a href="#">More</a>	
2	 Stanford University	<a href="#">More</a>	United States
3	 ETH Zurich - Swiss Federal Institute of Technology	<a href="#">More</a>	Switzerland
4	 University of California, Berkeley (UCB)	<a href="#">More</a>	United States
5	 University of Cambridge	<a href="#">More</a>	United Kingdom

# An international program

**Joining approx. 120 ETH Zurich Bachelor graduates, 80 external students add to the international character of D-ITET's Master's level.**

## A very international programme

Albania, Belgium, Brazil, China, Democratic Republic of the Congo, Egypt, France, Germany, Greece, Iceland, India, Islamic Republic of Iran, Italy, Latvia, Netherlands, Republic of China, Romania, Slovakia, Spain, Switzerland, Turkey, United Kingdom.

## Great variety of schools

Anna University / Aristotle University / Beihang University / Beijing Institute of Technology / Beijing University of Post & Telecommunications / Bilkent University / BITS Pilani / Cardiff University / CentraleSupélec / Chinese University of Hong Kong / EP Palaiseau / EPFL / Epoka University / Harbin Institute of Technology / FHNW / HSLU / Jilin University / KIT / Manchester University / Melbourne University / METU / Mumbai University / Peking University / Politecnico di Milano / Politecnico di Torino / Purdue University / RWTH Aachen / Sharif University of Technology / South China University of Technology / Southeast University / Toronto University / Tsinghua University / TU Berlin / TU Eindhoven / TU München / UC San Diego / Uni Bologna / Uni Stuttgart / Uni Twente / Universidade Federal do Rio de Janeiro / Universitat Politècnica de Catalunya / University of Electronic Science & Technology of China / University of Iceland / Wuhan University / Xi'an Jiaotong University / Yale University

# Students at ETHZ and D-ITET (2018 figures)

<b>Students at ETH</b>	<b>21'397</b>
<b>Students at D-ITET</b>	<b>1'808</b>
<b>Students at bachelor level (years 1 to 3)</b>	
ETH	9'517
<b>D-ITET</b>	<b>704</b>
<b>Students at master level (years 4 to 5)</b>	
ETH	6'590
<b>D-ITET</b>	<b>668</b>
<b>Electrical Engineering MSc</b>	<b>400</b>
Biomedical Engineering MSc (with D-HEST, D-MAVT and D-PHYS)	105
Energy Science & Technology MSc (with D-MAVT and D-MTEC)	107
Neural Systems and Computation MSc (with University Zurich)	56
<b>Exchange students</b>	
ETH	480
<b>D-ITET</b>	<b>39</b>
<b>PhD students</b>	
ETH	4'175
<b>D-ITET</b>	<b>397</b>

# Optimal support for 1200 students



- 36 professors and professors
- over 50 other lecturers
- 400 doctoral students
- study administration
- AMIV (student organization)
- IT support

# Our Professors



Prof. Luca Benini



Prof. Jürgen Biela



Prof. Helmut Bölcskei



Prof. Colombo Bolognesi



Prof. Gian-Luca Bona



Prof. Florian Dörfler



Prof. Christian M. Franck



Prof. Orçun Gökset



Prof. Benjamin Grewe



Prof. Ulrike Grossner



Prof. Richard Hahnloser



Prof. Qiuting Huang



Prof. Gabriela Hug



Prof. Taekwang Jang



Prof. Maryam Kamgarpour



Prof. Johann W. Kolar



Prof. Ender Konukoglu



Prof. Sebastian Kozerke



Prof. Amos Lapidoth



Prof. Jürg Leuthold



Prof. Hans-Andrea Loeliger



Prof. Mathieu Luisier



Prof. John Lygeros



Prof. Lukas Novotny



Prof. Klaas P. Prüssmann



Prof. Daniel Razansky



Prof. Marco Stampanoni



Prof. Klaas Enno Stephan



Prof. Lothar Thiele



Prof. Luc Van Gool



Prof. Laurent Vanbever



Prof. János Vörös



Prof. Roger P. Wattenhofer



Prof. Armin Wittneben



Prof. Vanessa C. Wood



Prof. Mehmet Fatih Yanik

# A Few Important Things to Note

- The choice is broad
  - electronics and photonics
  - information and communication
  - energy
  - and biomedical engineering/neuroinformatics.

## Electronics and Photonics

- Integrated Systems Laboratory
- Electronics Laboratory
- Millimeter-wave Electronics Laboratory
- Institute of Electromagnetic Fields
- Photonics Laboratory
- Photonics Laboratory, Empa

## Information and Communication

- Communication Technology Laboratory
- Automatic Control Laboratory
- Computer Engineering and Networks Laboratory
- Signal and Information Processing Laboratory
- Computer Vision Laboratory

## Energy

- Power Systems and High Voltage Laboratories
- Laboratory for High-power Electronic Systems
- Power Electronic Systems Laboratory
- Advanced Power Semiconductor Laboratory

## Biomedical Engineering and Neuroinformatics

- Institute of Neuroinformatics ○
- Institute for Biomedical Engineering ○



# A Choice of 24 Credit Points Done in Core Courses

▶ ▶ Electronics and Photonics  
 The core courses and specialisation courses below are a selection for students who wish to specialise in the area of "Electronics and Photonics", see <https://www.ee.ethz.ch/studies/main-master/areas-of-specialisation.html> →.  
 The individual study plan is subject to the tutor's approval.

▶ ▶ ▶ Core Courses  
 These core courses are particularly recommended for the field of "Electronics and Photonics". You may choose core courses from other fields in agreement with your tutor.  
 A minimum of 24 credits must be obtained from core courses during the MSc EEF.

▶ ▶ ▶ ▶ Foundation Core Courses

Number	Title	Type	ECTS	Hours	Lecturers
227-0110-00L	Advanced Electromagnetic Waves	W	6 credits	2V + 2U	P. Leuchtman
227-0112-00L	High-Speed Signal Propagation <span>ⓘ</span>	W	6 credits	2V + 2U	C. Bolognesi
227-0116-00L	VLSI I: From Architectures to VLSI Circuits and FPGAs <span>ⓘ</span>	W	6 credits	5G	F. K. Gürkaynak, L. Benini
227-0145-00L	Solid State Electronics and Optics <span>ⓘ</span>	W	6 credits	4G	V. Wood, R. Zahn
227-0166-00L	Analog Integrated Circuits <span>ⓘ</span>	W	6 credits	2V + 2U	T. Jang

▶ ▶ ▶ ▶ Advanced Core Courses

Number	Title	Type	ECTS	Hours	Lecturers
227-0148-00L	VLSI III: Test and Fabrication of VLSI Circuits <span>ⓘ</span>	W	6 credits	4G	F. K. Gürkaynak, L. Benini
227-0301-00L	Optical Communication Fundamentals	W	6 credits	2V + 1U + 1P	J. Leuthold
227-0655-00L	Nonlinear Optics	W	6 credits	2V + 2U	J. Leuthold
227-0663-00L	Nano-Optics <span>ⓘ</span>   Does not take place this semester.	W	6 credits	2V + 2U	M. Frimmer

Foundation core courses, deepen the fundamental understanding

Advanced core courses bring students to gain in-depth knowledge of the chosen specialization

# A Selection of 40 Credit-Points Done in Specialization Courses

►►► Specialisation Courses  
These specialisation courses are particularly recommended for the area of "Electronics and Informatics", but you are free to choose courses from any other field in agreement with your tutor.

A minimum of 40 credits must be obtained from specialisation courses during the Master's Programme.

Number	Title	Type	ECTS	Hours	Lecturers
227-0121-00L	Communication Systems	W	6 credits	4G	A. Wittneben
227-0157-00L	Semiconductor Devices: Physical Bases and Simulation	W	4 credits	3G	A. Schenk
227-0158-00L	Semiconductor Devices: Transport Theory and Monte Carlo Simulation	W	4 credits	2G	F. Büfeler
227-0163-00L	Nanoscale Device Physics	W	6 credits	2V + 2U	S. Tiwari
227-0166-00L	Analog Integrated Circuits	W	6 credits	2V + 2U	T. Jang
227-0377-00L	Physics of Failure and Failure Analysis of Electronic Devices and Equipment	W	3 credits	2V	U. Sennhauser
227-0468-00L	Analog Signal Processing and Filtering <small>Suitable for Master Students as well as Doctoral Students.</small>	W	6 credits	2V + 2U	H. Schmid
227-0615-00L	Simulation of Photovoltaic Devices - From Materials to Modules	W	3 credits	2G	U. Aeberhard
227-0617-00L	Solar Cells	W	4 credits	3G	A. N. Tiwari, S. Bücheler, Y. Romanyuk
227-0618-00L	Modeling, Characterization and Reliability of Power Semiconductors	W	6 credits	4G	M. P. M. Ciappa
227-0627-00L	Applied Computer Architecture	W	6 credits	4G	A. Gunzinger
227-0653-00L	Electromagnetic Precision Measurements and Opto-Mechanics	W	4 credits	2V + 2U	M. Frimmer
227-0659-00L	Integrated Systems Seminar	W	1 credit	1S	A. Schenk
227-0665-00L	Battery Integration Engineering <small>Priority given to Electrical and Mechanical Engineering students</small>	W	3 credits	2V + 1U	T. J. Patey

Specialization courses allow students to build substantive knowledge in a certain area

# Enjoy the Time at ETH and in Switzerland





# Contacts / Information for Students of the MSc Electrical Engineering and Information Technology

September 16, 2019

**Reto Kreuzer**

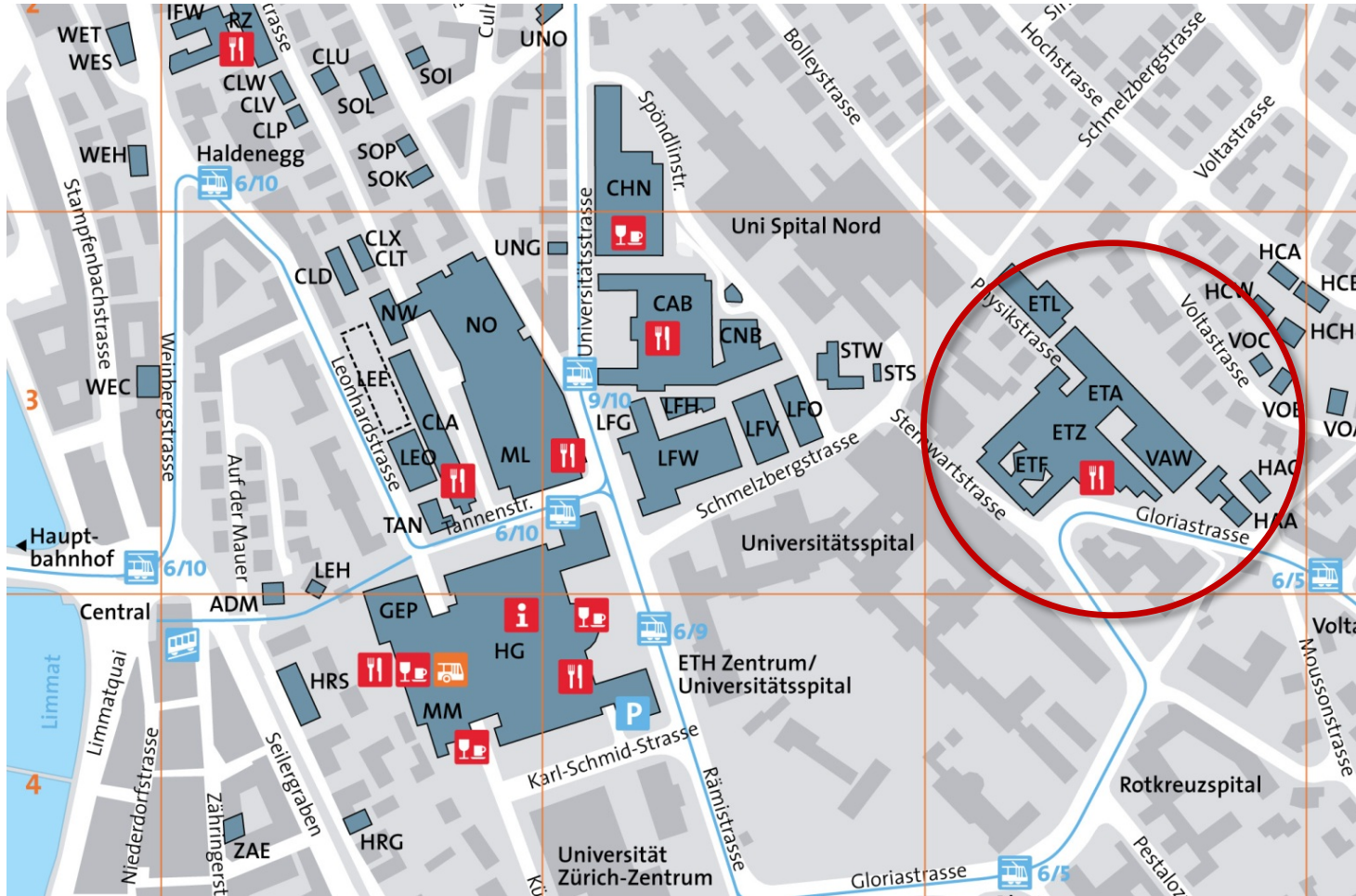
Welcome Day 2019, Coordinator of Studies / Student Advisor, D-ITET

# Agenda

- 1. Finding the right contact**
- 2. Courses, exams and credits**
- 3. Useful information**

# Finding your contacts

# Map of ETH and D-ITET



# Where do I find information on the web?

- **General Information on studies at ETH**

ETH students' website: [www.ethz.ch/students](http://www.ethz.ch/students)

- **Information on the Master in Electrical Engineering**

D-ITET website: [www.ee.ethz.ch](http://www.ee.ethz.ch) > Studies > Main Master Program

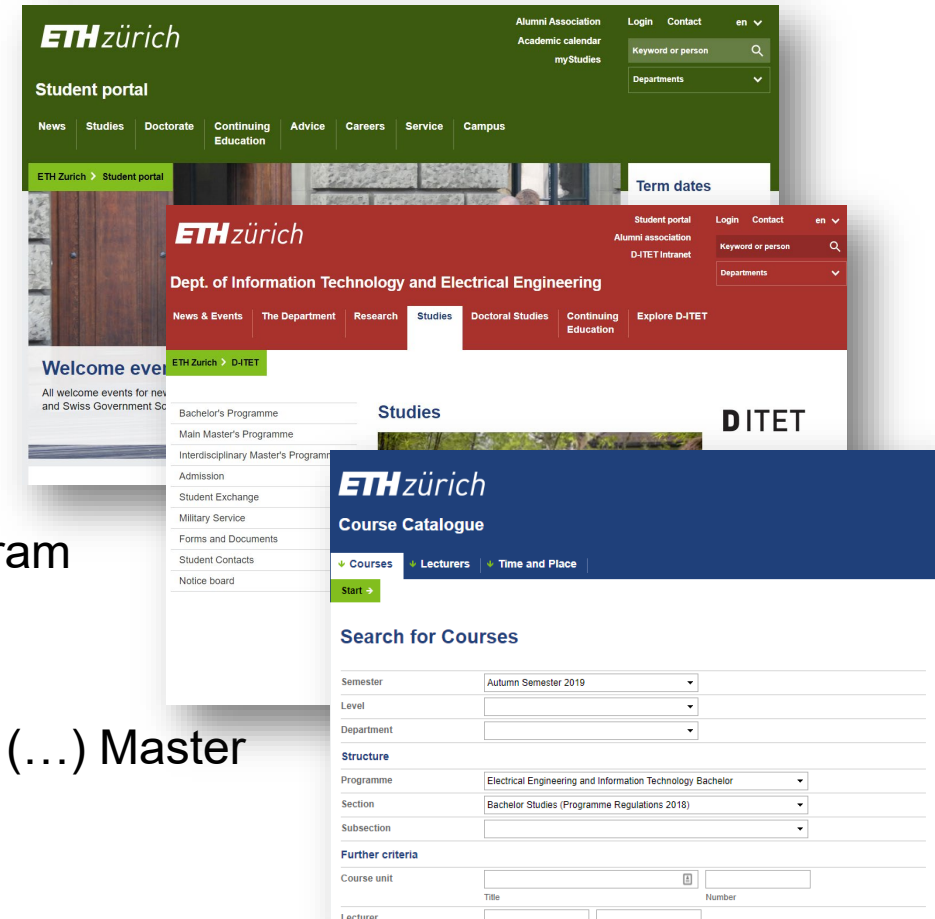
- **Course catalogue**

Online: [www.vvz.ethz.ch](http://www.vvz.ethz.ch) > Programme > Electrical Engineering (...) Master

- **Messages from ETH and the Department**

Email on your ETH-Address ([username@student.ethz.ch](mailto:username@student.ethz.ch))

→ **check your mailbox regularly and read the messages carefully!**





# Your most important contacts at ETH and the D-ITET

ETH / Rectorate

**Registrar's Office (HG F 19)**

**General administrative questions**  
e.g. matriculation, address changes,  
residence etc.

Students' association

**AMIV (CAB E 37)**

Social contacts,  
networking



D-ITET / central services

**Student Admin (ETZ H 85)**

**Study specific admin. questions**  
e.g. grades/transcripts, waivers, counselling

**Tutors / Lecturers / TA**

Course specific questions, study plan

# Your contacts at the D-ITET



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## Courses, exams and credits

# The Master's Degree Program

- **Courses** (3 semesters, between 66 and 78 credits)  
See the [course catalog](#) for the list courses. Each student must find a [tutor](#) by him/herself and submit a tutor agreement in myStudies no later than **four weeks after the beginning of the first semester**.
- **1-2 semester projects** (14 weeks, 12 credits)  
14 weeks half-time during the semester (or 7 weeks full-time outside the semester). [Project offerings](#) are published on the websites of the individual labs.
- **Internship in Industry** (3-6 months, 12 credits)  
Not mandatory. In a company outside ETH.
- **Master Project** (6 months, 30 credits)  
After all else is done, the *masterpiece* of your studies at ETH.

## Core & Specialization Courses (24 + 40 credits)

- The [tutor](#) helps with the selection of courses. These courses permit a specialization in one of our teaching areas (Communications, Computers & Networks, Electronics & Photonics, Energy & Power Electronics, Signal Processing & Machine Learning and Systems & Control)
- **Core courses** (24 credits) must be from our list of core courses but can be selected across specializations in agreement with the tutor.
- **Specialization courses** can be **selected freely**, subject to approval by the tutor. See the [course catalog](#) for the list of courses.
- The tutor's **area of research** will influence the choice of courses he/she is willing to accept, **choose your tutor accordingly**.

# Electives, Internship or Project?

- **Elective courses** (12 credits) are meant to add a management, economics or law component to the curriculum. A list of recommended courses is available in the course catalogue. However, the choice is not limited to this and even more specialization or core courses may be chosen instead. Elective courses are subject to the agreement of the tutor.
- Students can choose a **second semester project** (12 credits) instead of elective courses, we suggest to discuss this with the tutor – even though the choice is not subject to the tutor's agreement – he/she may help deciding what the best curriculum is for you.
- Another alternative is the **Internship in Industry** (12 credits). It is carried out in a company outside ETH and usually lasts between 3 and 6 months. An extra semester must therefore be counted for an internship. Attention, since the internship is not mandatory non EU/Swiss citizens may encounter problems getting a work permit!

# Navigating the course catalogue

When looking up courses offered in the autumn semester 2019, make sure to look for the **2018 regulations!**

The screenshot shows the 'Course Catalogue' search page. The 'Semester' dropdown is set to 'Autumn Semester 2019'. The 'Programme' dropdown is set to 'Electrical Engineering and Information Technology Master'. The 'Section' dropdown is set to 'Master Studies (Programme Regulations 2018)'. The 'Further criteria' section includes fields for 'Course unit' (Title and Number), 'Lecturer' (Last name and First name), and 'Type'.

Search for Courses	
Semester	Autumn Semester 2019
Level	
Department	
Structure	
Programme	Electrical Engineering and Information Technology Master
Section	Master Studies (Programme Regulations 2018)
Subsection	
Further criteria	
Course unit	<input type="text"/> <input type="text"/>
	Title Number
Lecturer	<input type="text"/> <input type="text"/>
	Last name First name
Type	<input type="text"/>

Choose your semester

Choose your programme

Choose your regulations

# Choosing courses from the course catalogue

The courses are listed in the course catalogue according to the **areas of specialization** of the D-ITET.

For courses in the upcoming **spring semester (2020)**, look at the previous year (2019) – courses **change rarely**.

If a new, more suitable course is introduced: **tutor agreements** can be **changed**.

ETH zürich  
Course Catalogue

Print | Help | Contact | de

▼ Courses | ▼ Lecturers | ▼ Time and Place

Start →

Search result: Course units in Autumn Semester 2018

Course units | Catalogue data | Courses | Browse

Electrical Engineering and Information Technology Master

Master Studies (Programme Regulations 2018)

Communication

The core courses and specialization courses below are a selection for students who wish to specialize in the area of "Communication", see <https://www.ee.ethz.ch/studies/main-master/areas-of-specialisation.html>

The individual study plan is subject to the tutor's approval.

Core Courses

These core courses are particularly recommended for the field of "Communication". You may choose core courses from other fields in agreement with your tutor.

Foundation Core Courses

Number	Title	Type	ECTS	Hours	Lecturers
227-0121-00L	Communication Systems	W	6 credits	4G	A. Wittneben
227-0101-00L	Discrete-Time and Statistical Signal Processing	W	6 credits	4G	H.-A. Loeliger

Advanced Core Courses

Number	Title	Type	ECTS	Hours	Lecturers
227-0417-00L	Information Theory I	W	6 credits	4G	A. Lapidoth
227-0427-00L	Signal Analysis, Models, and Machine Learning	W	6 credits	4G	H.-A. Loeliger
227-0439-00L	Wireless Access Systems   Does not take place this semester.	E-	6 credits	2V + 2U	A. Wittneben

Specialization Courses

These specialization courses are particularly recommended for the area of "Communication", but you are free to choose courses from any other field in agreement with your tutor.

A minimum of 40 credits must be obtained from specialization courses during the Master's Programme.

Number	Title	Type	ECTS	Hours	Lecturers
227-0102-00L	Discrete Event Systems	W	6 credits	4G	L. Thiele, L. Vanbever, R. Wattenhofer
227-0103-00L	Control Systems	W	6 credits	2V + 2U	F. Dörfler
227-0112-00L	High-Speed Signal Propagation	W	6 credits	2V + 2U	C. Bolognesi

Choose **core** courses

Choose **specialization** courses



# Submitting a tutor agreement: Best practice

Tutor agreement forms are submitted in myStudies. However, for the sake of simplicity, we suggest the following approach.

1. If you do not have a tutor yet, decide which professors' research areas best fit your study interests (see the [program's website](#)).
2. Put together a list of courses in a *tentative* tutor agreement form without submitting it. Print this list out and/or take your computer to the meeting.
3. Meet the potential tutor(s) and discuss your choice of courses.
4. If you and the tutor agree to a list – and only then – select your tutor in myStudies, wait for confirmation and then *formally* submit the list of courses agreed upon during the discussion with your tutor.

In any case, please **ask your tutor** for his/her favorite way of handling the tutor agreement process!

# Choosing a tutor in myStudies

Navigate to "Matriculation" in your myStudies account and choose "Select Tutor"

The screenshot shows the 'myStudies' interface for 'Matriculation' and 'Select Tutor'. The 'Programme' is 'Electrical Engin. + Information Technology MSc'. A table lists available lecturers with columns for Last Name, First Name, Title, and Organisation.

Last Name	First Name	Title	Organisation
Aebi	Mirjam	Prof. Dr.	Physik
Baur	Bastian Manuel	Prof. Dr.	Physik
Blau	Gabriele	Prof. Dr.	Informationstechnologie und Elektrotechnik
Botnar	Roman Emanuel Frédéric	Prof. Dr.	Informationstechnologie und Elektrotechnik
Brandli	Raphael Luke	Prof. Dr.	Maschinenbau und Verfahrenstechnik
Cartayrade	Roger	Prof. Dr.	Informationstechnologie und Elektrotechnik
Christ	Martin	Prof. Dr.	Informationstechnologie und Elektrotechnik
Dallenbach	Muriel Barbara	Prof. Dr.	Informationstechnologie und Elektrotechnik
Ducrot	Roger Norbert Albert	Prof. Dr.	Informationstechnologie und Elektrotechnik
Duverney	Christian	Prof. Dr.	Informatik
Freimann	Rolf	Prof. Dr.	Informationstechnologie und Elektrotechnik
Freimann	Alain	Prof. Dr.	Informatik
Gobet	Nuria	Prof. Dr.	Informationstechnologie und Elektrotechnik
Graf	Lukas	Prof. Dr.	Informatik
Grun	Adrian	Dr.	Informationstechnologie und Elektrotechnik
Hahnloser	Richard Hans Robert	Prof. Dr.	Informationstechnologie und Elektrotechnik
Heiduschke	Dror	Prof. Dr.	Informationstechnologie und Elektrotechnik
Heinrichson	Mathis	Prof. Dr.	Informationstechnologie und Elektrotechnik
Heldstab	Thomas	Prof. Dr.	Informationstechnologie und Elektrotechnik
Hiltbrunner	Patrik	Prof. Dr.	Informationstechnologie und Elektrotechnik
Horlacher-Umiker	Fabian Matthias	Prof. Dr.	Maschinenbau und Verfahrenstechnik
Innfeld	Raphael	Prof. Dr.	Informationstechnologie und Elektrotechnik
Immli	Daniel Patrick	Prof. Dr.	Informationstechnologie und Elektrotechnik
Imthurn	Patrick Oliver	Prof. Dr.	Informationstechnologie und Elektrotechnik
Isler	Martin	Prof. Dr.	Informationstechnologie und Elektrotechnik
Klok	Lorenzo	Prof. Dr.	Informationstechnologie und Elektrotechnik
Kotoup	Felice Mauro	Prof. Dr.	Informationstechnologie und Elektrotechnik

Choose your tutor from the list of available tutors, he/she will have to **confirm** in order to make your choice effective.

Discuss your choice with the proposed tutor **before** submitting it in myStudies.

# Create learning agreement in myStudies

The **Tutor Agreement** is called "Learning Agreement" in myStudies, select this from the "Matriculation" page, you are now able to select courses from the course catalogue, by using the "Edit" button.

**ETH** Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

myStudies

Arnold Zürcher (09-932-641) [ Akademische Dienste ] Help • Contact • Logout • ☰

Welcome - Matriculation - Display Learning Agreement [JSP: /showLearningAgreement.jsp]

### Learning Agreement of Arnold Zürcher (In process)

**Programme regulations** Master's Programme in Electrical Engineering and Information Technology

**Tutor** Prof. Dr. J. Reymond

The student has to discuss the Learning Agreement (also known as "Tutor Agreement") with the tutor/track advisor before submitting it in myStudies. The Learning Agreement must be submitted in myStudies and approved by the tutor/track advisor no later than 4 weeks after the start of program (usually the fall semester).  
The Learning Agreement can be updated during the study period, but needs to be in the final version before the start of the Master thesis.

Note: The fields concerning the "Mentor" (see next step) must be left empty.

**Completion of mandatory courses** Treatment of mandatory courses.

**Not regular** Category assignment disagrees with official Course Catalogue.

**Changes** **New:** Newly added, **Moved:** Moved to another category, **Modified:** Text modified, for external courses only.

Category	Registered Number	Title	ECTS credits			Completion of mandatory course	Not regular	Changes
			Planned	Needed	Missing			
<b>Major Courses</b>			42	42				

Print Delete

**Edit** Submit Back

**Note:** you must submit a tutor agreement for the complete duration of your studies, changes are possible in agreement with the tutor.

# Edit learning agreement

Once **all the courses** you wish to enrol for during the upcoming year are entered, your learning agreement is ready for discussion with your tutor.

**ETH** myStudies  
 Eidgenössische Technische Hochschule Zürich  
 Swiss Federal Institute of Technology Zürich  
 Arnold Zürcher (09-932-641) [ Akademische Dienste ]  
 Welcome - Matriculation - Edit Learning Agreement [DSP: /editLearningAgreement.jsp] Help • Contact • Logout • 三

**Edit Learning Agreement**

**Programme regulations** Master's Programme in Electrical Engineering and Information Technology

**Tutor** Prof. Dr. J. Raymond

**Mentor**  **Email**

**Completion of mandatory courses** Indicate for each mandatory course whether it will be completed in this programme (yes), at another university, within another programme, or not at all.

**Change category** Each course must be put into a category of the programme. If a course is assigned to another category than listed in the Course Catalogue, it will be marked in column 'Not reg' by 'X'. Courses without category must be assigned to a category or deleted - otherwise the learning agreement cannot be submitted.

**Completion of mandatory courses** Treatment of mandatory courses. Other courses can be assigned to another category.

**Not regular** Category assignment disagrees with official Course Catalogue.

Category Number	Title	ECTS credits		Completion of mandatory course	Not regular	Delete
		Planned	Needed			
<b>Major Courses</b>						
		<b>42</b>	<b>42</b>			
227-0120-00L	Communication Networks	6		<a href="#">Change category</a>		✖
252-0408-00L	Cryptographic Protocols	5		<a href="#">Change category</a>		✖
252-0407-00L	Cryptography Foundations	7		<a href="#">Change category</a>		✖
227-0436-00L	Digital Communication and Signal Processing	6		<a href="#">Change category</a>		✖
227-0434-00L	Harmonic Analysis: Theory and Applications in Advanced Signal Processing	6		<a href="#">Change category</a>		✖
227-0558-00L	Principles of Distributed Computing	6		<a href="#">Change category</a>		✖
112	<a href="#">Distributed Operating Systems</a>	6		<a href="#">Change category</a>	X	✖

[Add learning units](#) [Save and back](#) [Cancel](#)

# Submit learning agreement

**Note:** the learning agreement can only be submitted if you have a tutor.

If you do not, an error warning (see above) will appear.

**ETH** myStudies  
Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zürich

Arnold Zürcher (09-932-641) [ Akademische Dienste ] Help • Contact • Logout

Welcome - Matriculation - Display Learning Agreement [JSP: /showLearningAgreement.jsp]

### Learning Agreement of Arnold Zürcher (In process)

**Error:**

- The learning agreement can be submitted only if a tutor is definitely assigned.

**Programme regulations** Master's Programme in Electrical Engineering and Information Technology

**Tutor**

The student has to discuss the Learning Agreement (also known as "Tutor Agreement") with the tutor/track advisor before submitting it in myStudies. The Learning Agreement must be submitted in myStudies and approved by the tutor/track advisor no later than 4 weeks after the start of program (usually the fall semester). The Learning Agreement can be updated during the study period, but needs to be in the final version before the start of the Master thesis.

Note: The fields concerning the "Mentor" (see next step) must be left empty.

**Completion of mandatory courses** Treatment of mandatory courses.

**Not regular** Category assignment disagrees with official Course Catalogue.

**Changes** **New:** Newly added, **Moved:** Moved to another category, **Modified:** Text modified, for external courses only.

Category	Registered	Title	ECTS credits			Completion of mandatory course	Not regular	Changes
			Planned	Needed	Missing			
<b>Major Courses</b>			<b>44</b>	<b>42</b>				
		227-0111-00L ● Communication Electronics	6					
		227-0120-00L ● Communication Networks	6					
		252-0408-00L ● Cryptographic Protocols	5					
		252-0407-00L ● Cryptography Foundations	7					
		227-0436-00L ● Digital Communication and Signal Processing	6					
		227-0438-00L ● Fundamentals of Wireless Communication	6					
		227-0434-00L ● Harmonic Analysis: Theory and Applications in Advanced Signal Processing	6					
		851-0734-00L ● Recht der Informationssicherheit	2					

Print Delete Edit **Submit** Back

# myStudies: Change learning agreement

If:

- you have not discussed your learning agreement before submitting it (and the tutor requires you to change it), or
- the initial tutor agreement must be changed for any reason at a later point in time (with the agreement of the tutor)

you may be invited to change it.

**Learning Agreement of Arnold Zürcher (Changes requested by tutor)**

Programme regulations: Master's Programme in Electrical Engineering and Information Technology

Tutor: Prof. Dr. J. Reymond

Changes required: as discussed in my office earlier today

Completion of mandatory courses: Treatment of mandatory courses.

Not regular: Category assignment disagrees with official Course Catalogue.

Changes: New: Newly added, Moved: Moved to another category, Modified: Text modified, for external courses only.

Category	Registered Number	Title	ECTS credits			Completion of mandatory course	Not regular	Changes
			Planned	Needed	Missing			
<b>Major Courses</b>								
			42	42				
	227-0120-00L	Communication Networks		6				
	252-0408-00L	Cryptographic Protocols		5				
	252-0407-00L	Cryptography Foundations		7				
	227-0436-00L	Digital Communication and Signal Processing		6				
	227-0434-00L	Harmonic Analysis: Theory and Applications in Advanced Signal Processing		6				
	227-0558-00L	Principles of Distributed Computing		6				New
	112	Distributed Operating Systems UZH		6			X	New

**Deleted Course Units**

Number	Title	from Category
227-0111-00L	Communication Electronics	6 Major Courses
227-0438-00L	Fundamentals of Wireless Communication	6 Major Courses
851-0734-00L	Recht der Informationssicherheit	2 Major Courses

Buttons: Print, Edit, Submit, Back

# Not part of the tutor agreement: Science in Perspective (D-GESS)

Courses from the category of "Science in Perspective" offered by the Department of Humanities, Social and Political Sciences (D-GESS) help you learn to **contextualize** specialized knowledge by:

- putting natural and technical sciences in social, political, economical and cultural contexts;
- understanding global conditions and consequences in terms of action in politics, culture and economy;

Students can choose between **Type A** (general) and **Type B** (specially recommended for your curriculum) courses from the course catalogue, for **language courses**, special rules may apply (see [directives collection](#)).

These courses are **mandatory for all students** at ETH, everyone must earn at least **2 credits** during their Master's Degree studies.

**Contact:** Study Admin D-GESS, [studiensekretariat@gess.ethz.ch](mailto:studiensekretariat@gess.ethz.ch)

**On the web:** [www.gess.ethz.ch](http://www.gess.ethz.ch)

# Student online portal (**Reminder**)

Your administrative duties (on [www.mystudies.ethz.ch](http://www.mystudies.ethz.ch)):

## Enrollment to courses and exams

- Register for each semester until the end of the second week.
- Register for **courses** (early in the semester; you need to be registered for a course to enroll for an exam)
- Submit the **tutor agreement** (until the **end of the 4<sup>th</sup> week**).
- Enroll for **exams** – please enroll during the **3<sup>rd</sup> and 4<sup>th</sup> week** of the semester (withdrawal possible until very late).

**Notify us of your address changes**

**Read your E-Mails**



## Enrolling for courses (**Reminder**)

- All courses you wish to **count** towards your Master **Diploma** must be **enrolled** for (both the course and the exam);
- Only **courses agreed upon** by your **tutor** will count for the degree, other courses go on a separate sheet, attached to the final transcript.
- In particular, do not forget to enroll for the **Semester Projects** and the **Master Thesis** (special section in myStudies "Projects/Papers/Theses").  
Note the **list of possible supervisors** on our [website](#): only professors of the D-ITET or associated professors can officially supervise projects and theses.

# Performance Assessments (**Examinations**)

- Three types of performance assessments:
  - **Session examination** (Winter session: January/February – Summer session: August), **Attention to registration/deregistration deadlines**
  - **End-of-semester examination (2 weeks before end of lectures until 2 weeks after end of lectures)**, **Attention to registration/deregistration deadlines**
  - Graded/ungraded **semester performance** (e.g. semester project or internship in industry (performance during semester), **Attention minimum/maximum allowed time/deadlines**
- Passed exams cannot be re-taken, failed exams can be re-taken once!
- Special rules may apply regarding allowed (written) aids:
  - Course catalogue > see "Performance assessment"
  - Personal exam schedule in myStudies (for session examinations)
  - Lecturer/examiner

# Your studies are subject to regulation

**Study regulations** (mostly available in German only)

[www.rechtssammlung.ethz.ch](http://www.rechtssammlung.ethz.ch) (complete collection, German)

[www.ee.ethz.ch](http://www.ee.ethz.ch) > Studies > Forms and Documents (MSc EEIT regulations in English)

**Rector's Directives** (some available in German only)

[www.ethz.ch/students](http://www.ethz.ch/students) > Studies > Legal basis > Directives Collection

## Questions?

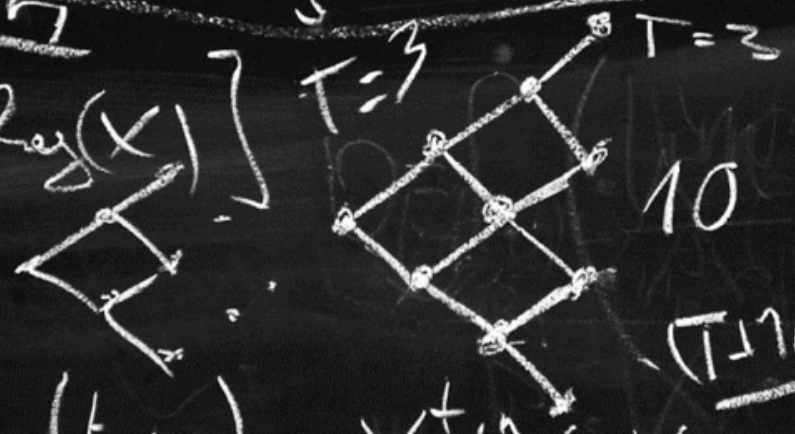
International students, please contact Ms Annina Wanner at the Rectorate (Main Building, HG F 22.3) or D-ITET's Study Administration (ETZ H 85) for help on regulations.

$L(\pi)$ -act,  $E[\log(X_s^{t,n})] = \sup_{P_t} E[\log(X)]$

$X \in C_s \wedge n$

$X_s^{t,n} = \arg \sup_{X \in C_{s,n}} E[\log(X)]$

$T=3$



$T=3$

$10$

$\frac{(T+1)T}{2}$

$\frac{T+2}{2}$

$Y_s^t(\omega) = X_s^t(\omega)$

$0 \Rightarrow \int_{\mathbb{R}_+} \lim_{n \rightarrow \infty}$

Komlos applied to  $(t, \omega) \rightarrow X_s^{t,n}(\omega)$

yields a subsequence

## Useful information

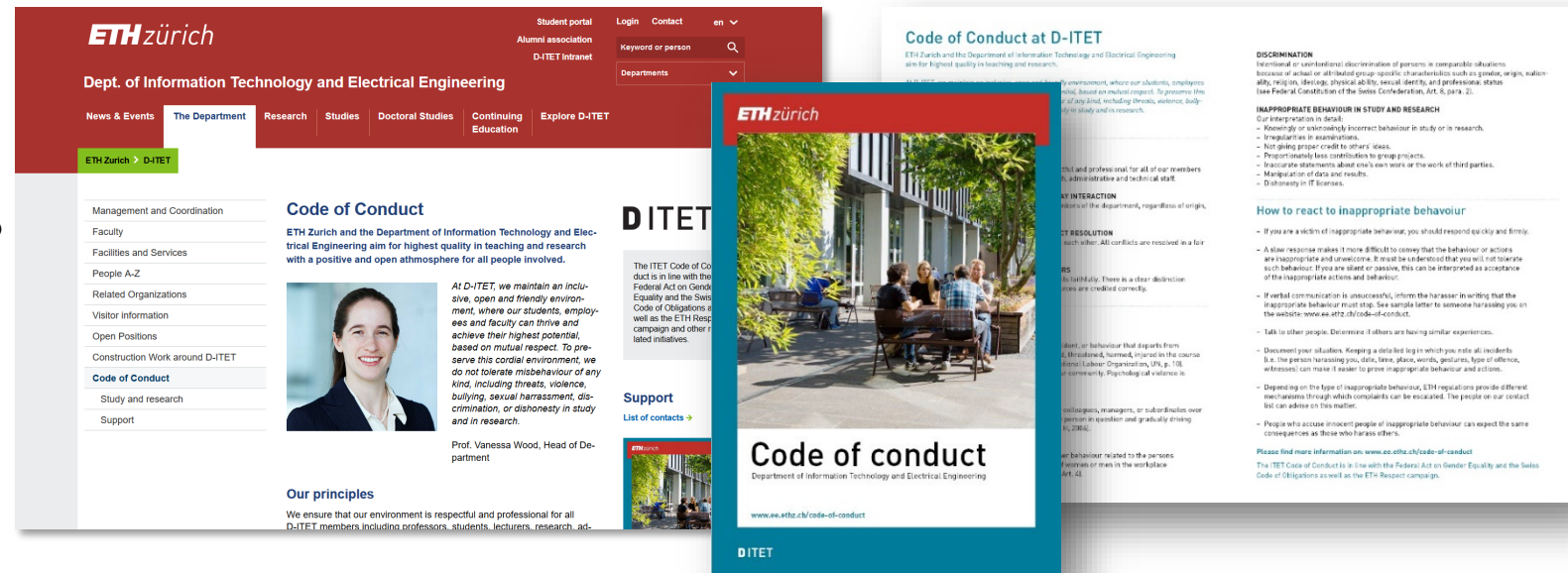
# Code of conduct

« At D-ITET, we maintain an inclusive, open and friendly environment, where our students, employees and faculty can thrive and achieve their highest potential, based on mutual respect. To preserve this cordial environment, we do not tolerate misbehavior of any kind, including threats, violence, bullying, sexual harassment, discrimination, or dishonesty in study and in research. »

Prof. Vanessa Wood, Head of Department

## Further information on the Web:

- Our principles
- What is “inappropriate behaviour”?
- How to react?
- Contacts / support



# Counselling at ETH and the D-ITET

- **Course selection:** your tutor.
- **Studies at D-ITET** (deadlines, failures at examinations etc.): the coordinator of studies
- **General questions regarding your arrival at ETH:** the [international student support](#)
- **Time management / motivation:** ETH [student coaching](#)
- **Difficult phases / personal problems:** the [psychological counselling service](#) (free of charge and confidential)

# Computer infrastructure at ETHZ / D-ITET

- All ETH Computers (e.g. Main Building HG D 11, or ET-Building ETZ D 61.1) require your **n.ethz** password (same as used for myStudies).
- Only ITET students can access the computer infrastructure in the ET-building area, should you encounter a problem, contact [support@ee.ethz.ch](mailto:support@ee.ethz.ch) (IT support office ETF D 106).
- **Project Neptun:** During a short period (until September 30), laptops may be purchased through ETH (see [www.projektneptun.ch](http://www.projektneptun.ch)).
- **IDES:** ETH also offers software at very low cost, some products even for free (see <http://idesnx.ethz.ch>). Remember: the use of non-licensed software is forbidden and subject to criminal prosecution!

## More details?

- **My Office**

Reto Kreuzer, Study Coordinator D-ITET, ETZ H 83

Please send an E-mail to fix an appointment ([reto.kreuzer@ee.ethz.ch](mailto:reto.kreuzer@ee.ethz.ch))

- **This presentation**

Available tomorrow morning on [www.ee.ethz.ch](http://www.ee.ethz.ch) > Studies > Forms and Documents



**Enjoy your studies at ETH!**



Zürich



**Welcome Day**

# Offers and Activities: Study Documents

- Study documents online on the AMIV website



## Events



## Sport and Fun

- Theater
- Poker- / Jass tournament
- Sushi-Night
- Chocolate fondue
- Strongmanrun
- Wellness-Evening
- Lasertag
- Beachvolleyball tournament



## Events

- Hertz
- Absolventenparty
- AMIV goes Nachtseminar
- And much more 😊



- Skiweekend
- AMIV Fondue (with professors)
- Wine degustation
- Beer degustation





## Offers and Activities: Lounge




- Couches
- 55" TV with:
  - Xbox One and 360
  - PS4
  - Nintendo Wii

- Coffee machine
- Beer vending machine
- Table football
- Billiard table



# How can I participate?

- Become a VSETH member:

**Voluntary contributions  for the Autumn Semester 2019**

Note: If membership is selected, the personal and address data required for member administration and other club activities will be forwarded to the respective club.

	Yes	No
Solidarity fund for foreign students (CHF 5.-)	<input checked="" type="radio"/>	<input type="radio"/>
SOSETH membership (CHF 5.-)	<input checked="" type="radio"/>	<input type="radio"/>
VSETH membership (CHF 10.-; for doctoral students CHF 35.-)	<input checked="" type="radio"/>	<input type="radio"/>

Save

- Teams
- Board member



# Where can you find us?



[www.amiv.ch](http://www.amiv.ch)



@amiv\_eth



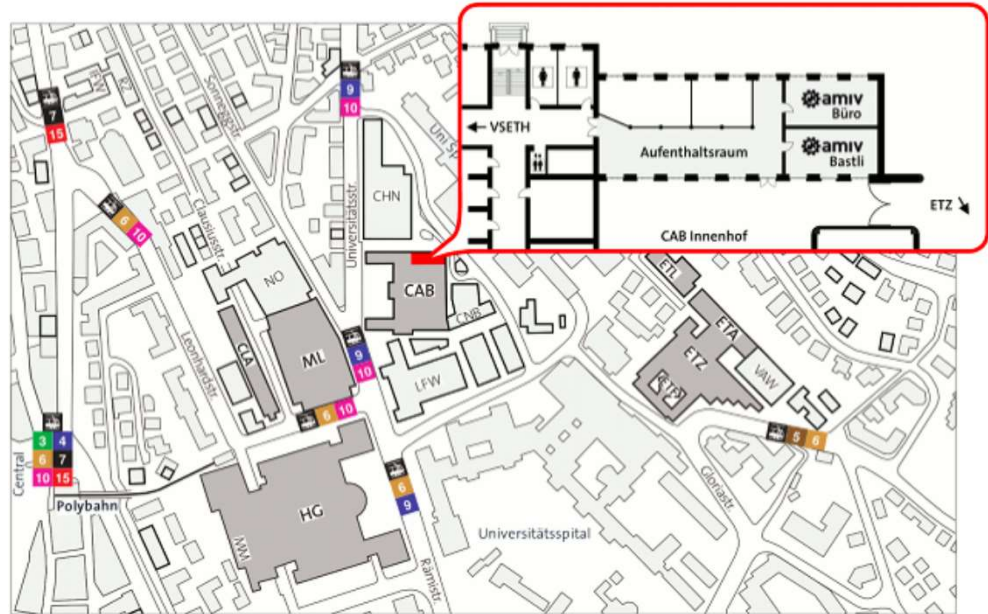
[facebook.com/AMIV.ETHZ](https://facebook.com/AMIV.ETHZ)



[info@amiv.ethz.ch](mailto:info@amiv.ethz.ch)



**CAB E37**  
**Universitätstrasse 6**  
**8092 Zürich**



# Questions?





**amiv** an der ETH

Universitätstrasse 6  
CH-8092 Zürich

[www.amiv.ch](http://www.amiv.ch)  
[info@amiv.ethz.ch](mailto:info@amiv.ethz.ch)



# LIMES

Ladies In Mechanical and Electrical Studies



# What we do:

## Ladies Night:

Dinner and networking with industry partner

## Highschool students day:

Information day for students to inspire them for our field

## Further activities:

- Coaching events
- Excursions
- Sport events



# Welcome-Apero for all women

Tuesday 17.9 12.00 p.m. ETZ Foyer





# LIMES

Ladies In Mechanical and Electrical Studies



[limes@amiv.ethz.ch](mailto:limes@amiv.ethz.ch)



[www.amiv.ethz.ch/limes](http://www.amiv.ethz.ch/limes)



<https://www.facebook.com/LIMES.AMIV>

