



# MSc in Energy Science and Technology

## Administrative Notes

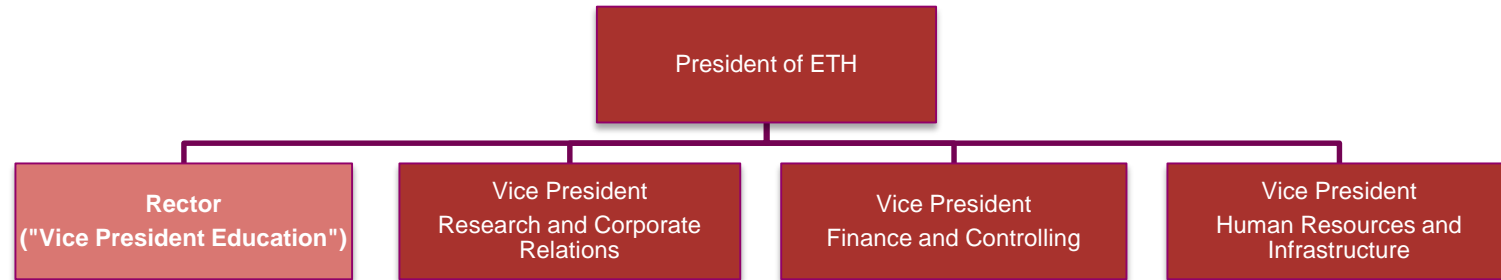
September 18, 2018

Reto Kreuzer | Study Coordinator, Department of Information Technology and Electrical Engineering (D-ITET)



# ETH Zurich & D-ITET: Structure and Key Figures

# ETH Zürich: Organization and structure



## 16 Departments for Education and Research

Architecture and Civil Engineering	Engineering Sciences	Natural Sciences and Mathematics	System-oriented Natural Sciences	Management and Social Sciences
Architecture	Mechanical and Process Engineering	Mathematics	Earth Sciences	Management, Technology and Economics
Civil, Environmental and Geomatic Engineering	Information Technology and Electrical Engineering	Physics	Environmental Systems Science	Humanities, Social and Political Sciences
	Computer Science	Chemistry and Applied Biosciences	Health Sciences and Technology	
	Materials Science	Biology		
	Biosystems Science and Engineering			

# Students at ETHZ and D-ITET (2017 figures)

<b>Students at ETH</b>	<b>20'607</b>	
Female Students *	32 %	
International Students **	34 %	
<b>Students at D-ITET</b>	<b>1'769</b>	
Female Students *	18 %	
International Students **	45 %	
<b>Students at bachelor level (years 1 to 3)</b>		
ETH	9'262	* 31% / ** 13%
D-ITET	<b>700</b>	* 14% / ** 18%
<b>Students at master level (years 4 to 5)</b>		
ETH	6'158	* 32% / ** 38%
D-ITET	<b>624</b>	* 22% / ** 53%
Electrical Engineering MSc	377	* 13% / ** 43%
Biomedical Engineering MSc (with D-HEST, D-MAVT and D-PHYS)	93	* 43% / ** 57%
<b>Energy Science &amp; Technology MSc (with D-MAVT and D-MTEC)</b>	<b>101</b>	* <b>23%</b> / ** <b>71%</b>
Neural Systems and Computation MSc (with University Zurich)	53	* 45% / ** 85%
<b>Exchange students</b>		
ETH	449	* 36% / ** 94%
D-ITET	<b>45</b>	* 22% / ** 100%
<b>PhD students</b>		
ETH	4'902	* 26% / ** 59%
D-ITET	<b>400</b>	* 18% / ** 71%

# D-ITET: Size and members

- 11 laboratories (institutes) und 5 independent professorships
- 35 professors (4 women), **more than one fourth in the energy field or related**
- 100 lecturers in total
- ca. 500 scientific and administrative employees
- ca. 400 PhD students
- ca. 1'300 undergraduate, master and exchange students

# 35 Professors of D-ITET



Prof. Luca Benini



Prof. Jürgen Biela



Prof. Helmut Böltschel



Prof. Colombo Bolognesi



Prof. Gian-Luca Bona



Prof. Florian Dörfler



Prof. Christian M. Franck



Prof. Orçun Göksele



Prof. Benjamin Grewe



Prof. Ulrike Grossner



Prof. Richard Hahnloser



Prof. Qiuting Huang



Prof. Gabriela Hug



Prof. Maryam Kamgarpour



Prof. Johann W. Kolar



Prof. Ender Konukoglu



Prof. Sebastian Kozierke



Prof. Amos Lapidoth



Prof. Jürg Leuthold



Prof. Hans-Andrea Loeliger



Prof. Mathieu Luisier



Prof. John Lygeros



Prof. Lukas Novotny



Prof. Klaas P. Prüssmann



Prof. Markus Rudin



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



# ETHZ and D-ITET: Finding the Right Contact

# Your most important contacts: who?

ETH / Rectorate

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

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

Students' association

**(CAB E 37)**

Social contacts,  
networking



Students

D-ITET / central services

**Student Admin (ETZ H 85)**

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

**Program responsible (SOI C 5)**

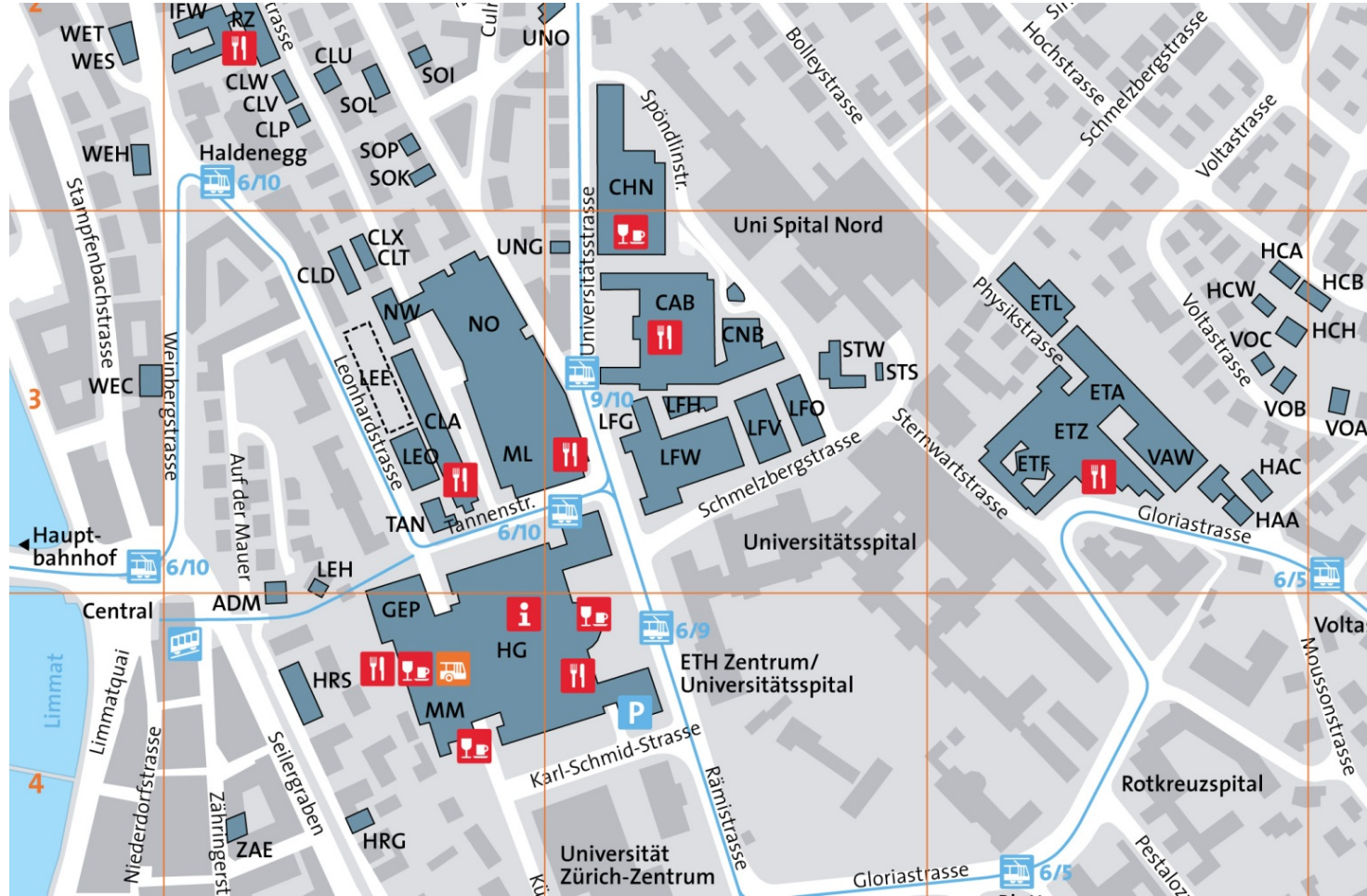
Course selection, tutors

**Tutors / Lecturers / TA**

Course specific questions, study plan



# Your most important contacts: where?



# 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 Energy Science and Technology**

Webpage D-ITET: [www.ee.ethz.ch](http://www.ee.ethz.ch) > Studies > Interdisciplinary Master

Webpage Energy Science and Technology: [www.master-energy.ethz.ch](http://www.master-energy.ethz.ch)

- **Course catalogue**

Online: [www.vvz.ethz.ch](http://www.vvz.ethz.ch) > Programme > Energy Science and Technology Master

- **Messages from ETH and the Department**

E-mails to your ETH-Address (username@student.ethz.ch)

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

# 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.master-energy.ethz.ch](http://www.master-energy.ethz.ch) > The Programme > Documents (MEST 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

International students, please contact Ms Annina Wanner at the Rectorate (HG F 22.3) or Ms Doris Döbeli of the Department Secretariat (ETZ H 85) for help on regulations.



# The Tutor Agreement in details

# Choosing courses: Sources of information

- **Consult your tutor for elective, multidisciplinary and GESS courses**  
[www.master-energy.ethz.ch](http://www.master-energy.ethz.ch) > People > Tutors
- **Overview of lectures to choose from**  
<http://www.master-energy.ethz.ch> > Studies > Courses
- **Course catalogue**  
[www.vvz.ethz.ch](http://www.vvz.ethz.ch) > Programme > Energy Science and Technology Master
- **Enrolment through the online-portal**  
[www.mystudies.ethz.ch](http://www.mystudies.ethz.ch) (as outline in this mooring's presentation)

# myStudies: Create learning agreement

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 Zürich

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

# myStudies: 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**  
 Arnold Zürcher (09-932-641) | Akademische Dienste | Help • Contact • Logout • de

Welcome - Matriculation - Edit Learning Agreement [ISP: /editLearningAgreement.jsp]

### Edit Learning Agreement

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

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

**Mentor**  **Email**

**Completion of mandatory courses** Indicates 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.

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		<input type="button" value="Change category"/>		<input type="button" value="X"/>
252-0408-00L	Cryptographic Protocols	5		<input type="button" value="Change category"/>		<input type="button" value="X"/>
252-0407-00L	Cryptography Foundations	7		<input type="button" value="Change category"/>		<input type="button" value="X"/>
227-0436-00L	Digital Communication and Signal Processing	6		<input type="button" value="Change category"/>		<input type="button" value="X"/>
227-0434-00L	Harmonic Analysis: Theory and Applications in Advanced Signal Processing	6		<input type="button" value="Change category"/>		<input type="button" value="X"/>
227-0558-00L	Principles of Distributed Computing	6		<input type="button" value="Change category"/>		<input type="button" value="X"/>
112	Distributed Operating Systems	6		<input type="button" value="Change category"/>	X	<input type="button" value="X"/>

**Note:** Please do not fill in the "Mentor" field, this does not apply to students of the D-ITET.

# myStudies: Submit learning agreement

**Note:** the learning agreement can only be submitted if you have a tutor; only 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 (09-932-6431) | Akademische Dienste | Help • Contact • Logout • 55  
 Welcome - Matriculation - Display Learning Agreement [ISP: /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				

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# myStudies: Change learning agreement

If you have not discussed your learning agreement before submitting it and the tutor requires you to change it or if the initial tutor agreement must be changed for any reason at a later point in time you may be invited to change it:

**ETH** myStudies  
 Arnold Zürcher (06-932-641) [ Akademische Dienste ]  
 Welcome - Matriculation - Display Learning Agreement [SP: /showLearningAgreement.jsp]

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

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

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

**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.

Number	Registered	Title	ECTS credits			Completion of mandatory course	Not regular	Changes
			Planned	Needed	Missing			
<b>Major Courses</b>			<b>42</b>	<b>42</b>				
227-0120-00L		Communication Networks		6				
252-0408-00L		Cryptographic Protocols		5				
252-0407-00L		Cryptography Fundamentals		7				
227-0436-00L		Digital Communication and Signal Processing		6				
227-0424-00L		Harmonic Analysis: Theory and Applications in Advanced Signal Processing		6				
227-0558-00L		Principles of Distributed Computing		6				New
112		Distributed Operating Systems UZV		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

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... and some more

# Reminder: Enrolling for courses in MEST

- All courses you wish to **count** towards your Master **Diploma** must be **enrolled** for (both the course and the exam).
- Only courses **agreed** upon with your **tutor** will count towards your Diploma.
- In particular, do not forget to enrol for the **Semester Project** and the **Master Thesis** (both online through myStudies).

# On "Performance Assessments" (a.k.a. exams)

Three types of performance assessments:

1. **Session examinations** (Note registration/deregistration deadlines)  
(Winter session: January/February – Summer session: August)
2. **End-of-semester examinations** (Note registration/deregistration deadlines)
3. Graded/ungraded **semester performance** (e.g. semester project or internship in industry) (Note minimum/maximum allowed time)

Where to find the type of examination and allowed (written) aids?

- Course catalogue > see "**Performance assessment**"
- Personal exam schedule in myStudies (for session examinations)
- Lecturer/examiner

# Science in Perspective (SiP)

- Learn to **contextualize specialized knowledge** by putting natural and technical sciences in social, political, economical and cultural contexts, by understanding global conditions and consequences in terms of action in politics, culture and economy and by improving language skills for cross-cultural communication.
- SiP courses are offered by the **Department of Humanities, Social and Political Sciences (D-GESS)**
- SiP courses are **mandatory for all students** at ETH, everyone must earn at least 2 cp during their Master's Degree studies.
- For **language courses, special rules** apply (see [directive SiP courses](#)).

**Contact:** Study Admin D-GESS, Viola Gloor, [viola.gloor@gess.ethz.ch](mailto:viola.gloor@gess.ethz.ch)

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



# Useful information

# 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 October 1), 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!

# Counselling at D-ITET and the rectorate

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



# 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 the D-ITET!

