



MSc in Energy Science and Technology

Administrative Notes

September 20, 2016

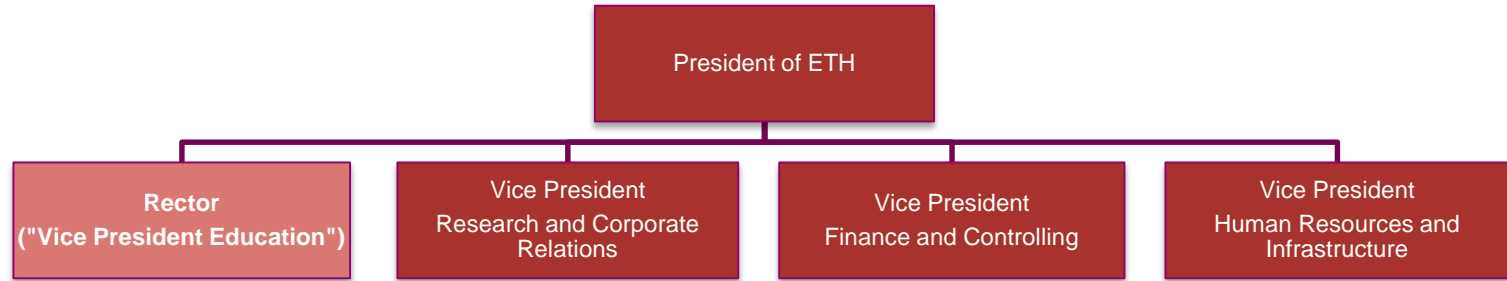
Reto Kreuzer | Study Coordinator/Counsellor

Department of Information Technology and Electrical Engineering (D-ITET)



The ETH Zurich and the 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 (2015 figures)

Students at ETH	19'754
Female Students*	31 %
International Students	37 %
Students at D-ITET	1'624
Female Students*	16 %
International Students**	45 %
Students at bachelor level (year 1-3)	
ETH	9'117 (*30%)
D-ITET	672 (*11%)
Students at master level (year 4-5)	
ETH	5'450 (*30%)
D-ITET	507 (*20%)
Electrical Engineering MSc	308 (*9%)
Biomedical Engineering MSc	81 (*48%)
Energy Science & Technology MSc	90 (*26%)
Neural Systems and Computation MSc	28 (*43%)
Exchange students	
ETH	416 (*33%)
D-ITET	42 (*19%)
PhD students	
ETH	4'031 (*31%)
D-ITET	403 (*20%)

The D-ITET: Size and members

- 11 laboratories (institutes) und 5 independent professorships
- 36 professors (4 women), **one fourth in the energy field or related**
- ca. 500 scientific and administrative employees
- ca. 400 PhD students
- ca. 1'200 undergraduate and master students

36 Professors at D-ITET



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 Göksele



Prof. Ulrike Grossner



Prof. Richard Hahnloser



Prof. Qiuting Huang



Prof. Gabriela Hug



Prof. Maryam Kamgarpour



Prof. Johann W. Kolar



Ender Konukoglu



Prof. Sebastian Kozerke



Prof. Amos Lapidot



Prof. Jürg Leuthold



Prof. Hans-Andrea Loeliger



Prof. Mathieu Luisier



Prof. John Lygeros



Prof. Kevan A. C. Martin



Prof. Lukas Novotny



Prof. Klaas P. Prüssmann



Prof. Markus Rudin



Prof. Marco Stamparoni



Prof. Klaas Enno Stephan



Prof. Lothar Thiele



Prof. Gerhard Tröster



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

Where do I find information on the web?

- **General Information on studies at ETH**

ETH students' website: www.ethz.ch/students

- **Information on the Master in Energy Science and Technology**

Webpage D-ITET: www.ee.ethz.ch > Studies > Interdisciplinary Master

Webpage Energy Science and Technology: www.master-energy.ethz.ch

- **Course catalogue**

Online: 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 (complete collection, German)
www.master-energy.ethz.ch > The Programme > Documents (MEST regulations in English)
- **Rector's Directives** (some available in German only)
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.



Courses, Exams and the Tutor Agreement

Choosing courses: Sources of information

- **Consult your tutor for elective, multidisciplinary and GESS courses**
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 > Programme > Energy Science and Technology Master
- **Enrolment through the online-portal**
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	Title	ECTS credits			Completion of mandatory course	Not regular	Changes
			Planned	Needed	Missing			
Major Courses			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 [ESP: /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			
Major Courses		42	42			
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			
Major Courses			44	42				
		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 if 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:

ETH myStudies
 Arnold Zürcher (06-932-641) | Akademische Dienste | Help • Contact • Logout •

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.

Category	Registered Number	Title	ECTS credits			Completion of mandatory course	Not regular	Changes
			Planned	Needed	Missing			
Major Courses			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					
	227-0424-00L	Harmonic Analysis: Theory and Applications in Advanced Signal Processing	6					
	227-0558-00L	Principles of Distributed Computing	6					New
	112	Distributed Operating Systems 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

Print Edit Submit Back

On the waiver of mandatory core courses

- As per the letter you have received from ETH, there are four mandatory core courses (17 cp ECTS):
 - Energy Conversion | 4 cp | Prof Park
 - Introduction to Electric Power Transmission: System & Technology | 6 cp | Profs Franck & Hug
 - Energy System Analysis | 4 cp | Prof Hug et al.
 - Energy Economics and Policy | 3 cp | Prof Filippini
- A mandatory core course can only be waived if the actual course has already been taken during the ETH bachelor studies or if an exact equivalent has been taken during other bachelor studies.
- The waiver can **only** be granted by the professor teaching each course.
- The master program always comprises 90 cp, credits thus "freed" are to be completed from elective core courses.

Humanities, Social and Political Sciences GESS

- The GESS "Science in Perspective" courses are mandatory for all students at ETH, all students must earn 2 cp during their Master's degree studies.
- For language courses, special rules apply (see [directives collection](#)).
- GESS courses are selected and offered by the Department of Humanities, Social and Political Sciences (D-GESS).

Contact: Study Admin D-GESS, Viola Gloor, viola.gloor@gess.ethz.ch

On the web: www.gess.ethz.ch

Reminder: Students online portal

Your (administrative) duties on www.mystudies.ethz.ch:

- **Enrolment 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 enrol for an exam)
 - Submit a **tutor agreement** (until the **end of the 4th week**).
 - Enrol for **exams** – please enrol during the **3rd and 4th week** of the semester (withdrawal possible until very late).

- **Notify us of your address changes**

- **Read your E-Mails**

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).

Performance Assessments (examinations)

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



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-area, should you encounter a problem, contact support@ee.ethz.ch.
- **Project Neptune:** During a short period (until October 3), laptops may be purchased through ETH (see www.projektneptun.ch).
- **IDES:** ETH also offers software at very low cost, some products even for free (see <http://idesnx.ethz.ch>).

Counselling

- As the [student advisor of D-ITET](#), I offer counselling on issues directly related to your studies in MEST.
- The team of the ETH [student services \(StS\)](#) offers individual coaching and helps you with time management / motivational questions and generally offers counselling in difficult situations.
- Ms Annina Wanner of the [international student support](#) will help you with possible issues related to your status as foreign student.

MEST: People

www.master-energy.ethz.ch

- **Christian Schaffner (Executive Director ESC)**
schaffner@esc.ethz.ch, 044 632 72 55, SOI C 5
- **Reto Kreuzer (Coordinator of Studies, D-ITET)**
reto.kreuzer@ee.ethz.ch, 044 632 08 15, ETZ H 85
- **Christian Franck (Head of MEST)**
franck@eeh.ee.ethz.ch, 044 632 47 62, ETL H 28

Enjoy your studies at the D-ITET!

