



Master in Energy Science and Technology

Prof. Dr. Christian Franck
Programme Director
21 September 2021

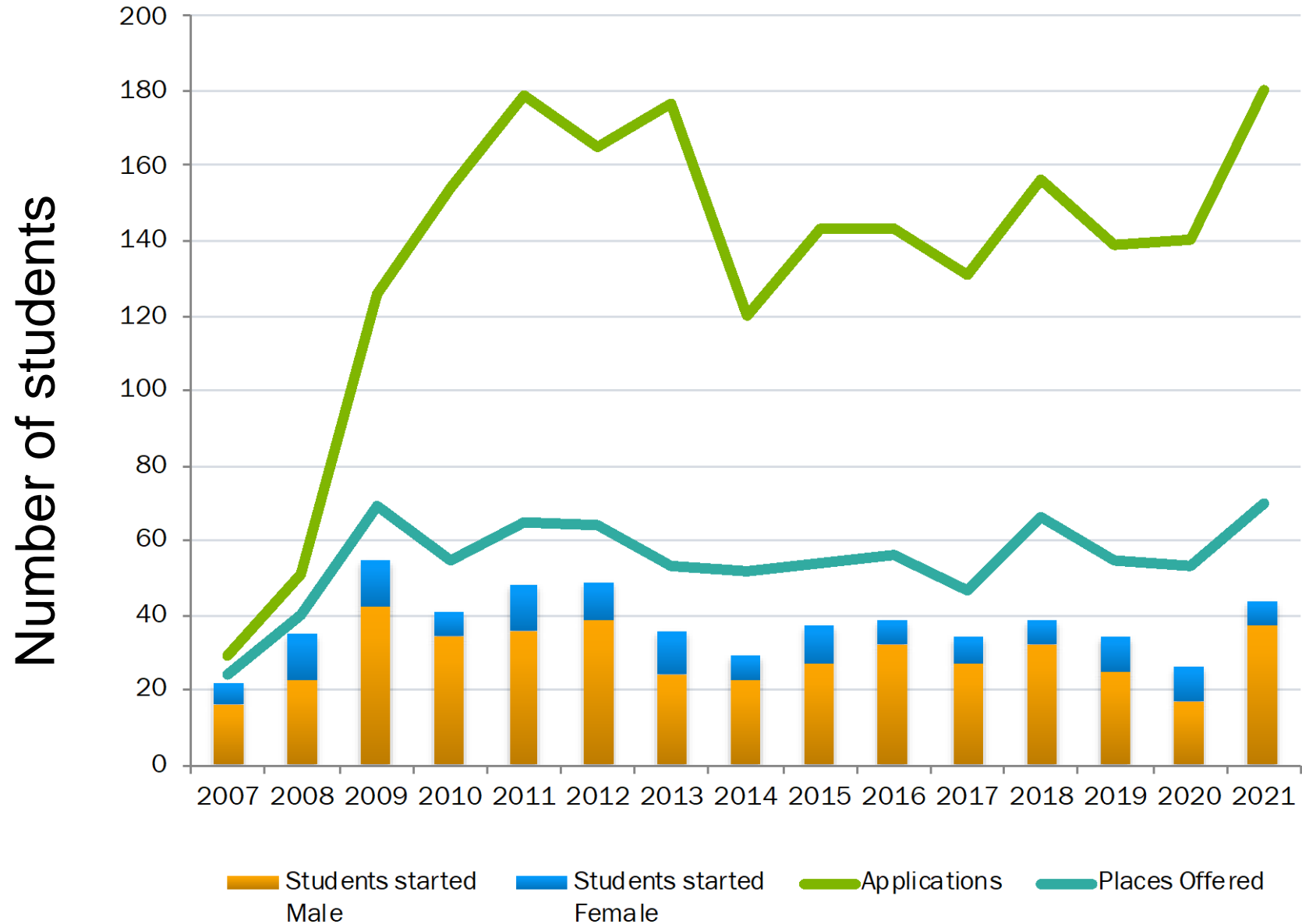


Welcome to MEST

45 new students

| | | |
|-----------------------------|-----------------------------|---------------------------------------|
| Daniel Andersen | Henrik Haussmann | Marius Potfer |
| Tyler Anderson | Tommaso Iarocci | Marc Prébandier |
| Patrick Böhni | Esbern Jakobsen | Taha Ramazanoglu |
| Damien Briens | Anastasios Kallieros | Matthias Rohrer |
| Benedikt Buhk | Oliver Keller | Nathan Rohrlich |
| Maddalena Cenedese | Amir Keshavarzzadeh | Johannes Schretter |
| Emile Chevrel | Cem Keske | Nicolas Seemann-Ricard |
| Charan Dande | Michel Knaff | Hareesh Singanallur Poovalagan |
| Andres Decormis Leon | Tim Kopka | Gaurav Singh |
| Sven Dunkel | Honglin Lai | Sarah Song |
| Gabrielle Every | Alison Maguire | Sophie Spencer |
| Fenja Feitsch | Brendan Mahoney | Dávid Varga |
| Pascal Geistlich | Niccolò Moro | Micha Walder |
| Tim-Luân Grimont | Tobias Oesch | Emmaline Willis |
| Håkon Guddingsmo | Anmol Panda | Ruida Zhang |

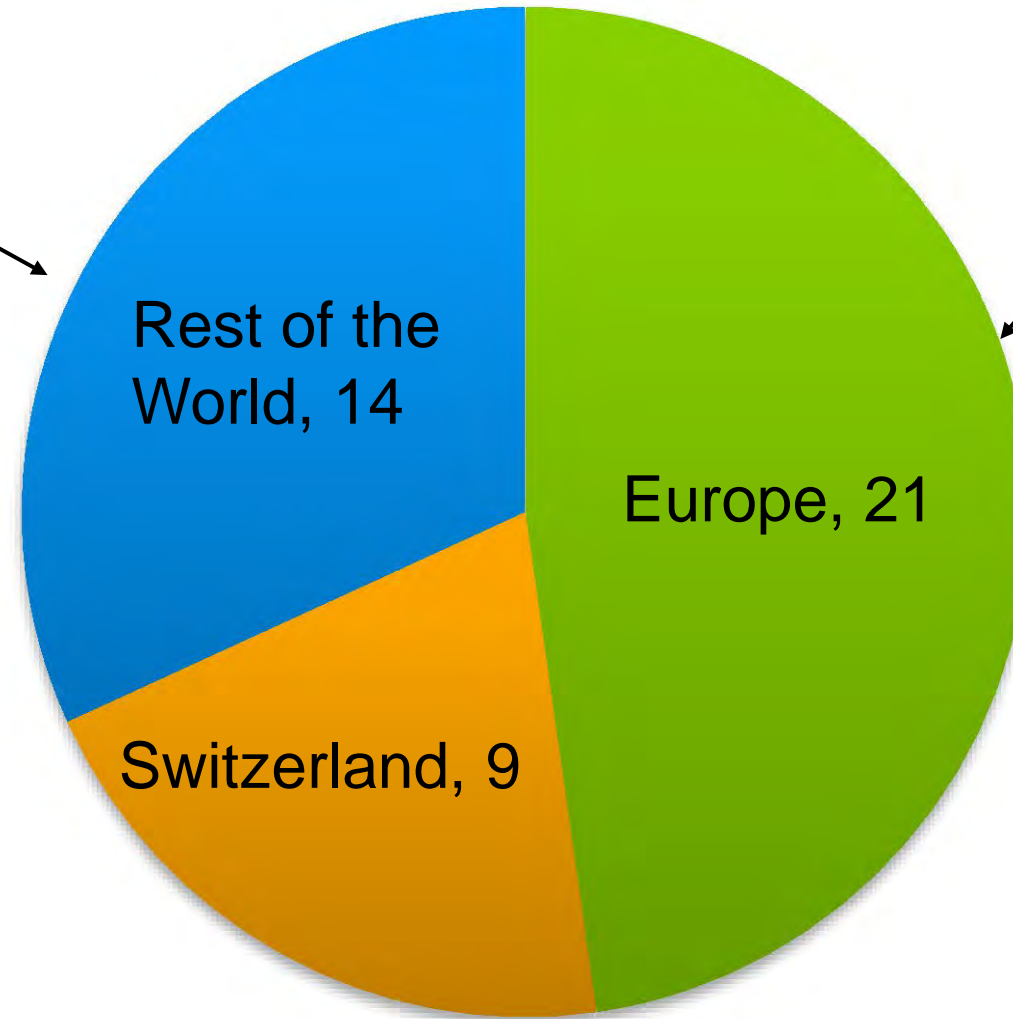
MEST Applicants since programme started in 2007



2021 MEST Students: Home Country

Rest of the World:

Bolivia, 1
Canada, 1
Iran, 1
China, 2
India, 4
USA, 5



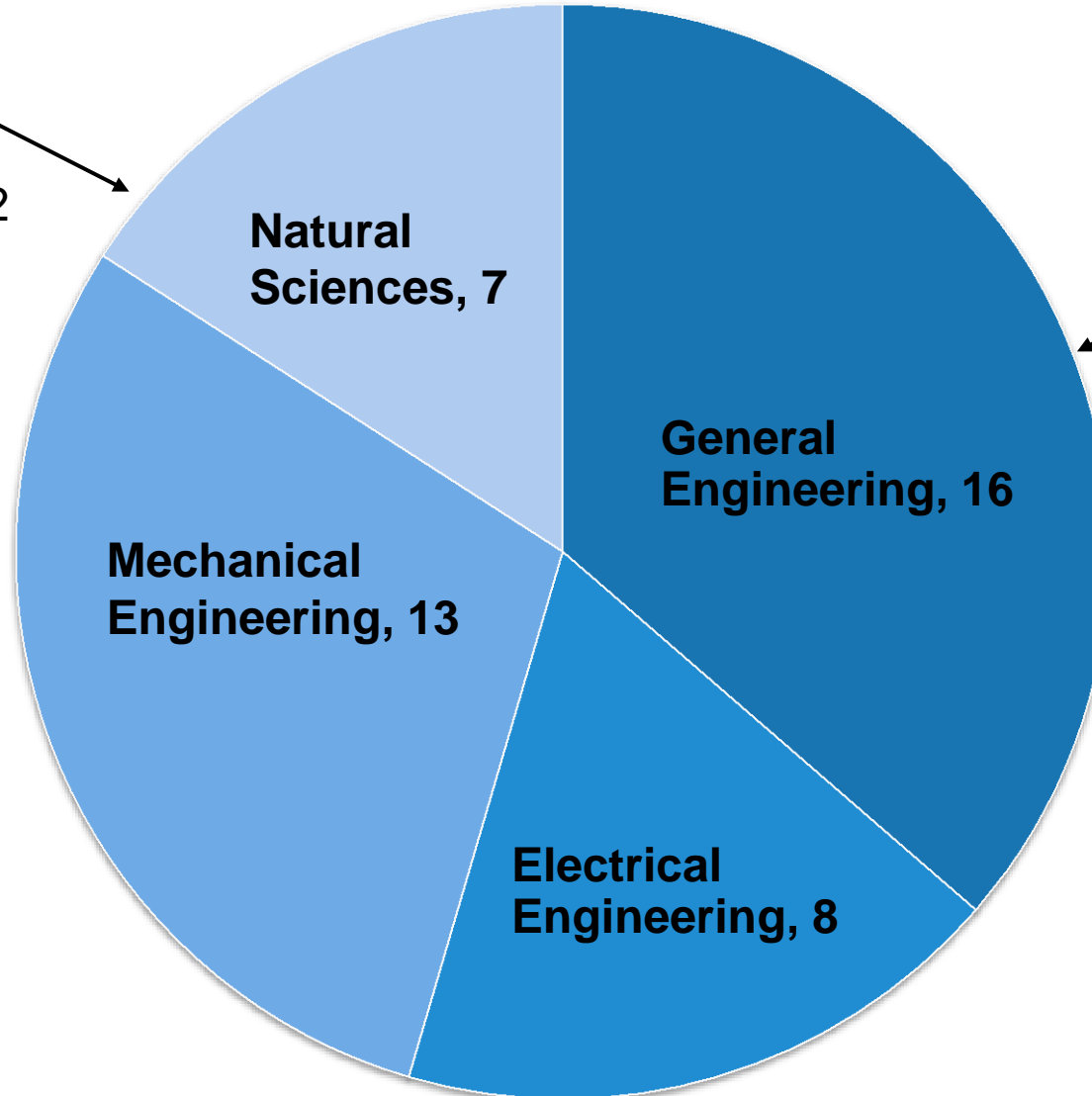
Europe:

Austria, 1
Denmark, 1
France, 5
Germany, 5
Greece, 1
Hungary, 1
Ireland, 1
Italy, 2
Luxembourg, 1
Norway, 1
Turkey, 2

2021 MEST Students: Previous Study

Natural Sciences

- Environmental, 1
- Geophysical, 1
- Mathematics & Physics, 2
- Physics, 2
- Physics & Astronomy, 1



Natural Sciences, 7

Mechanical Engineering, 13

Electrical Engineering, 8

General Engineering, 16

General Engineering

- Aerospace, 1
- Chemical, 1
- Communication Systems, 1
- Energy, 4
- Environmental, 3
- General, 3
- Mechatronics, 1
- Micro, 1
- Marine Eng, 1

About the MEST

- Jointly run by the departments of
 - Information Technology and Electrical Engineering (D-ITET)
 - Mechanical and Process Engineering (D-MAVT)
 - With the participation of Management, Technology and Economics (D-MTEC)
- Who is involved in the MEST?
 - Programme Director
Prof. Christian Franck
 - Energy Science Center (ESC): Content
Dr. Christian Schaffner
Deborah Hufton
 - D-ITET: Leading Department, Administration
Reto Kreuzer
Doris Döbeli

MEST Studies

120 ECTS – typically 4-5 semesters full time

| | |
|----------------------------------|----------------------|
| • A choice of Compulsory Courses | 23 credits (minimum) |
| • Elective Courses | |
| Compulsory and Electives | 64 credits (minimum) |
| • Humanities and Social Sciences | |
| Science in Perspective (D-GESS) | 2 credits |
| • Semester project | 12 credits |
| • Industrial Internship | 12 credits |
| • Master Thesis | 30 credits |
| | |
| Total | 120 credits |

Compulsory Courses - overview

23 credits (minimum)

- **Electrical Power Engineering (2 out of 3)**
 - Electric Circuits 4 credits, Autumn
 - Introduction to Electric Power Transmission: System & Technology 6 credits, Autumn
 - Optimization in Energy Systems 6 credits, Spring
- **Energy Flows and Processes (2 out of 4)**
 - Energy Conversion 4 credits, Autumn
 - Combustion & Reactive Processes in Energy and Materials Technology 4 credits, Autumn
 - CO₂ Capture and Storage and the Industry of Carbon-Based Resources 4 credits, Spring
 - Electrochemical Energy Conversion and Storage Technologies 4 credits, Spring
- **Energy Economics and Policy (2 out of 3)**
 - Principles of Microeconomics 3 credits, Autumn
 - Energy Economics and Policy 3 credits, Spring
 - Energy Innovation and Management 3 credits, Spring
- **Interdisciplinary Energy Management (mandatory)**
 - Case Studies: Energy Systems and Technology: Parts 1&2 2x2 credits Autumn & Spring

Compulsory Courses

Interdisciplinary Energy Management

'Case Studies: Energy Systems and Technology'

- Unique to the MEST programme, new in 2018
- Covers technical, economic and regulatory aspects of the challenges associated with building a sustainable energy system for the future
- Everyone allocated to a Case Study
- Coaches (senior MEST students) allocated to each Case Study
- Kick-off meeting:

Tuesday 5 October, 4-7pm, ETH Main Building HG E 7

Energy Research at ETH Zurich



Renewable energies and hydropower

*Prof. Boes
Prof. Kamgarpour
Prof. Pérez-Ramirez
Prof. Raubal
Prof. Robertsson
Prof. Stauffacher
Prof. Steinfeld
Prof. Saar, Prof. Tiwari
Prof. Wiemer
Prof. Zeilinger*



Power generation and distribution

*Prof. Farinotti
Prof. Fink
Prof. Franck
Prof. Giardini
Prof. Hug
Prof. Kamgarpour
Prof. Müller
Prof. Prasser
Prof. Zeilinger*



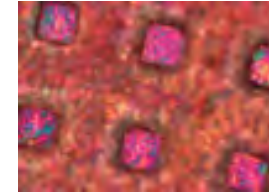
Energy economics and policies

*Prof. Bretschger
Prof. Filippini
Prof. Fleisch
Prof. Hoffmann
Prof. Patt
Prof. Tobias Schmidt
Prof. Schubert
Prof. Stauffacher
Prof. Wehrli*



Energy conversion technologies

*Prof. Bardow
Prof. Boulouchos
Prof. Guillén Gosálbez
Prof. Kovalenko
Prof. Mazza
Prof. Müller
Prof. Noiray
Prof. Pérez-Ramirez
Prof. Poulidakos*



Material science and technology

*Prof. Chatzi
Prof. Copéret
Prof. Ermanni
Prof. Fink
Prof. Habert
Prof. Kovalenko
Prof. Lukatskaya
Prof. Norris
Prof. Tiwari
Prof. Wood*



Energy in domestic and industrial applications

*Prof. Carmeliet
Prof. Deplazes
Prof. Dörfler
Prof. Fleisch
Prof. Lygeros
Prof. Mattern
Prof. Schlüter
Prof. Smith*



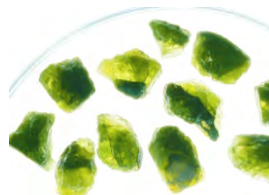
Power electronics

*Prof. Biela
Prof. Grossner
Prof. Kolar*



Energy-efficient chemical products and processes

*Prof. van Bokhoven
Prof. Habert
Prof. Pérez-Ramirez
Prof. Rudolf von Rohr
Prof. Thom. Schmidt*



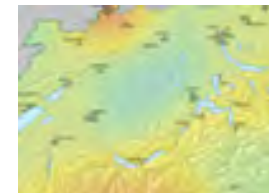
CO₂ mitigation technologies

*Prof. Mazzotti
Prof. Müller
Prof. Steinfeld*



Energy for personal and freight transportation

*Prof. Boulouchos
Prof. Guzzella
Prof. Onder*



Sustainability and risk assessment

*Prof. Burlando
Prof. Hellweg
Prof. Heinrich
Prof. Knutti
Prof. Sansavini
Prof. Stauffacher
Prof. Wehrli
Prof. Wenger*



Thermal power plants

*Prof. Boulouchos
Prof. Jenny
Prof. Noiray
Prof. Pérez-Ramirez*

Tutors and Courses

All students have a confirmed tutor

- 41 tutors from 9 different ETH Departments were available to choose from
- 60% of students have their first-choice tutor

Role of the tutor

To supervise/support the students


- in putting together a study plan (called the Tutor Agreement / Learning Agreement)
- with master and/or the semester thesis
- profile is built by choosing courses from a catalogue of over 50 energy-related courses offered at ETH Zurich

Tutors Agreement

Ensure that your Tutor Agreement / Learning Agreement is completed no later than

Sunday 17th October

Projects and Internships

- Your tutor
- MEST website: www.master-energy.ethz.ch/studies/internship.html
- MEST Facebook:  www.facebook.com/eth.mest/
- Polymesse (ETH Job Fair in April)
- International Organisations (IAESTE etc.)
- Direct contacts with industrial partners

Note: Internships must be approved by ETH

Case Studies

| 12 offered: | 8 chosen: | Industry Partner | Title |
|-------------|-----------|-------------------------|----------------------------|
| CSA | CS1 | Axpo | Energy market modelling |
| CSB | CS2 | Exnaton | Energy community framework |
| CSC | CS3 | SBB | Chemical energy carriers |
| CSD | | EBP | Building emissions |
| CSE | | EBP | Hospital emissions |
| CSF | CS4 | ABB | Energy storage |
| CSG | CS5 | Hitachi ABB Power Grids | Grid climate impact |
| CSH | | Hitachi ABB Power Grids | Modeling renewables |
| CSI | | Hitachi ABB Power Grids | HV circuit breaker |
| CSJ | CS6 | BKW | Hydrogen energy |
| CSK | CS7 | Energie 360° | Sector coupling |
| CSL | CS8 | Swissgrid | Flexibility potential |

Case Study Teams

Page 1 of 2:

| Name | Case Study Team |
|---------------------------|---------------------------------------------------|
| Daniel Andersen | CS5. Hitachi ABB Power Grids: Grid climate impact |
| Tyler Anderson | CS8. Swissgrid: Flexibility potential |
| Patrick Böhni | CS6. BKW: Hydrogen energy |
| Damien Briens | CS3. SBB: Chemical energy carriers |
| Maddalena Cenedese | CS2. Exnaton: Energy community framework |
| Emile Chevrel | CS7. Energie 360°: Sector coupling |
| Charan Dande | CS8. Swissgrid: Flexibility potential |
| Andres Decormis | CS4. ABB: Energy storage |
| Sven Dunkel | CS7. Energie 360°: Sector coupling |
| Gabrielle Every | CS7. Energie 360°: Sector coupling |
| Pascal Geistlich | CS7. Energie 360°: Sector coupling |
| Tim-Luân Grimont | CS2. Exnaton: Energy community framework |
| Håkon Guddingsmo | CS7. Energie 360°: Sector coupling |
| Henrik Hausmann | CS3. SBB: Chemical energy carriers |
| Tommaso Iarocci | CS4. ABB: Energy storage |
| Esbern Jakobsen | CS6. BKW: Hydrogen energy |
| Anastasios Kallieros | CS6. BKW: Hydrogen energy |
| Oliver Keller | CS3. SBB: Chemical energy carriers |
| Amirhassan Keshavarzzadeh | CS8. Swissgrid: Flexibility potential |
| Cem Keske | CS4. ABB: Energy storage |
| Michel Knaff | CS2. Exnaton: Energy community framework |
| Tim Kopka | CS5. Hitachi ABB Power Grids: Grid climate impact |

Case Study Teams

Page 2 of 2:

| Name | Case Study Team |
|---------------------------------------|----------------------------------------------------------|
| Honglin Lai | CS1. Axpo: Energy market modelling |
| Alison Maguire | CS2. Exnaton: Energy community framework |
| Brendan Mahoney | CS5. Hitachi ABB Power Grids: Grid climate impact |
| Niccolo Moro | CS1. Axpo: Energy market modelling |
| Tobias Oesch | CS2. Exnaton: Energy community framework |
| Anmol Panda | CS6. BKW: Hydrogen energy |
| Marius Potfer | CS1. Axpo: Energy market modelling |
| Marc Prébandier | CS4. ABB: Energy storage |
| Taha Ramazanoglu | CS2. Exnaton: Energy community framework |
| Matthias Rohrer | CS4. ABB: Energy storage |
| Nathan Rohrlich | CS1. Axpo: Energy market modelling |
| Johannes Schretter | CS6. BKW: Hydrogen energy |
| Nicolas Seemann-Ricard | CS5. Hitachi ABB Power Grids: Grid climate impact |
| Hareesh Singanallur Poovalagan | CS5. Hitachi ABB Power Grids: Grid climate impact |
| Gaurav Singh | CS4. ABB: Energy storage |
| Sarah Song | CS5. Hitachi ABB Power Grids: Grid climate impact |
| Sophie Spencer | CS3. SBB: Chemical energy carriers |
| Dávid Varga | CS1. Axpo: Energy market modelling |
| Micha Walder | CS8. Swissgrid: Flexibility potential |
| Emmaline Willis | CS8. Swissgrid: Flexibility potential |
| Ruida Zhang | CS3. SBB: Chemical energy carriers |

MSc ETH in Energy Science and Technology

www.master-energy.ethz.ch

- **Dr. Christian Schaffner**
schaffner@esc.ethz.ch, 044 632 72 55, SOI C 4
- **Mr. Reto Kreuzer**
reto.kreuzer@ee.ethz.ch, 044 632 08 15, ETZ H 83
- **Prof. Christian Franck**
cfranck@ethz.ch, 044 632 08 16, ETL H 28

Prof. Dr. Christian Franck
Executive Director
cfranck@ethz.ch

Deputy Head of Power Systems and High Voltage Lab.
ETL H 28
Physikstrasse 3
8092 Zurich
Switzerland

MSc Energy Science and Technology at the Department of Information Technology and Electrical Engineering (D-ITET)

September 21, 2021

Reto Kreuzer, Coordinator of Studies / Student Advisor, D-ITET

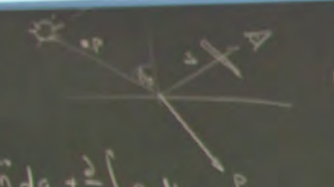
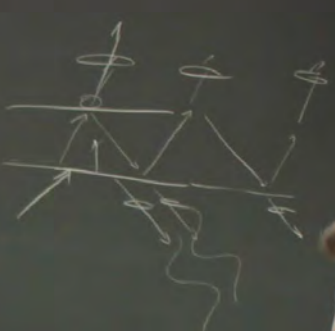
Agenda

1. The D-ITET: your host department
2. Finding the right contact
3. Administrative matters
4. Counselling

$$\int_{\partial V} (\mathbf{E} \times \mathbf{H}) \cdot \mathbf{n} \, da + \frac{\partial}{\partial t} \int_V \mathbf{p} \, dV$$

$$-\int_V \mathbf{j} \cdot \mathbf{E} \, dV - \frac{1}{2} \int_V \left[\mathbf{E} \cdot \frac{\partial \mathbf{P}}{\partial t} - \mathbf{P} \cdot \frac{\partial \mathbf{E}}{\partial t} \right] dV - \frac{\mu_0}{2} \int_V \left[\mathbf{H} \cdot \frac{\partial \mathbf{M}}{\partial t} - \mathbf{M} \cdot \frac{\partial \mathbf{H}}{\partial t} \right] dV$$

$\oint \vec{D} \cdot d\vec{q} = \int_V \rho_{ext} dV$
 $\oint \vec{H} \cdot d\vec{l} = \int_S \vec{j}_{ext} \cdot d\vec{a}$
 $\vec{D} = \epsilon_0 \vec{E} + \vec{P}$
 $\vec{H} = \frac{1}{\mu_0} \nabla \times \vec{A} + \vec{j}_{ext}$
 $\nabla \cdot \vec{D} = \rho_{ext}$
 $\nabla \times \vec{H} = \vec{j}_{ext} + \frac{\partial \vec{D}}{\partial t}$
 $\nabla \cdot \vec{j} + \frac{\partial \rho}{\partial t} = 0$


The D-ITET: Optimal support for students

Numbers

| | | | |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BSc | ETH D-ITET | 10'355 834 | <ul style="list-style-type: none"> • 2'000 students • 40 professors • 50 other lecturers • 450 PhD students • Study administration • AMIV • IT support |
| MSc | ETH D-ITET Electrical Engineering MSc Biomedical Engineering MSc Energy Science & Technology MSc Quantum Engineering MSc <i>Neural Systems & Comp. MSc (UZH)</i> | 7'790 815 457 132 105 61 60 | |
| Exchange | ETH D-ITET | 317 38 | |

Our professors – 20% in the field of Energy



Prof. Luca Benini



Prof. Jürgen Biela



Prof. Helmut Bölskei



Prof. Colombo Bolognesi



Prof. Florian Dörfler



Prof. Christian M. Franck



Prof. Benjamin Grewe



Prof. Ulrike Grossner



Prof. Richard Hahnloser



Prof. Giuting Huang



Prof. Gabriela Hug



Prof. Giacomo Indiveri



Prof. Taekwang Jang



Prof. Johann W. Kolar



Prof. Ender Konukoglu



Prof. Sebastian Kozerke



Prof. Amos Lapidot



Prof. Jürg Leuthold



Prof. Hans-Andrea Loeliger



Prof. Mathieu Luisier



Prof. John Lygeros



Prof. Onur Mutlu



Prof. Lukas Novotny



Prof. Klaas P. Prüssmann



Prof. Daniel Razansky



Prof. Kaveh Razavi



Prof. Metin Sitti



Prof. Marco Stampanoni



Prof. Klaas Enno Stephan



Prof. Christoph Studer



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



Prof. Maksym Yarema



Prof. Fisher Yu



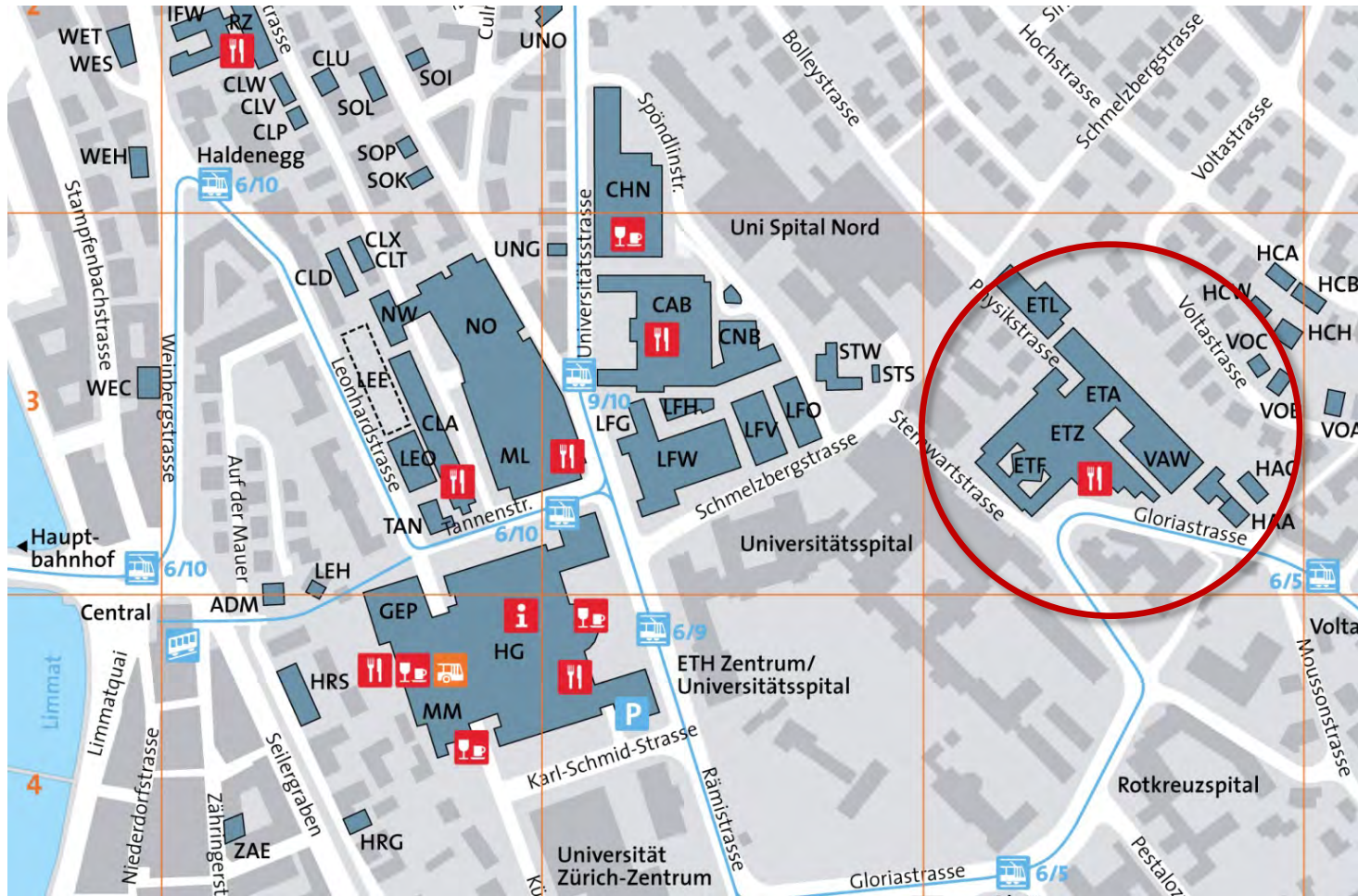
↑
ETA-Scherrer-
Hörsaal F 5
Hörsäle
E 8 / E 9
Sitzungsraum
E 81

→
Hörsäle
E 6 / E 7
Haupttreppe /
Lifte

←
ETF-Gebäude
Hörsäle
C 1 / E 1

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

- **Information on the Energy Science and Technology MSc**

Programme website: www.master-energy.ethz.ch

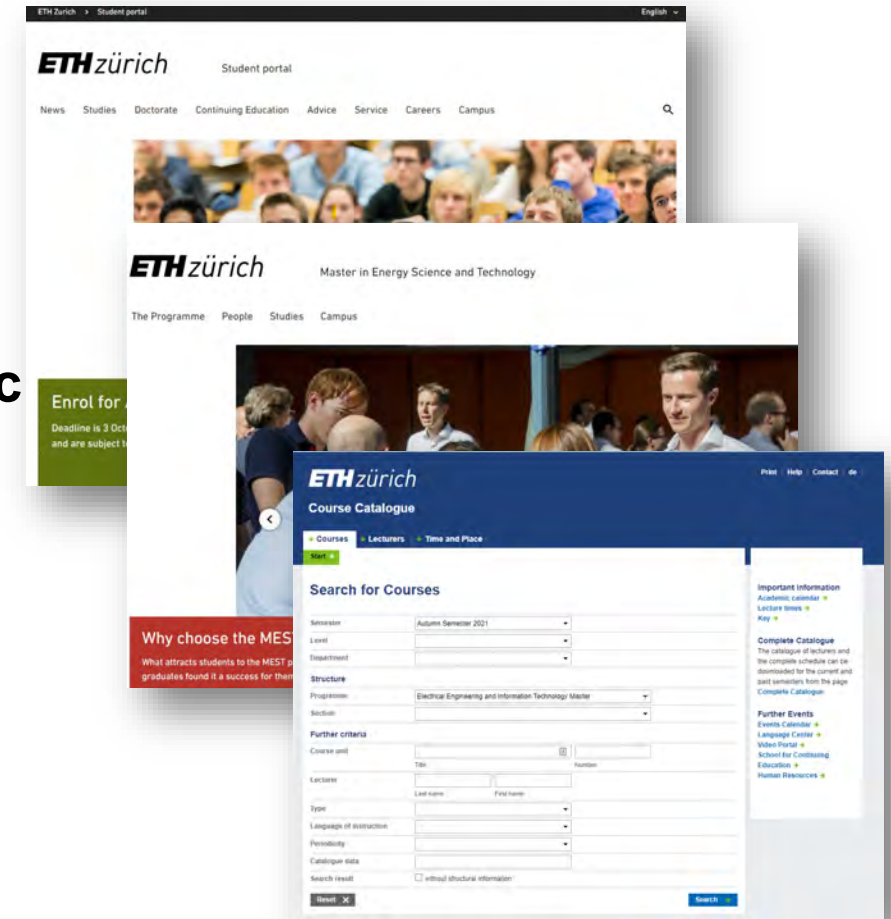
- **Course catalogue**

Online: www.vvz.ethz.ch > Programme > Energy Science and Technology Master

- **Messages from ETH and the Department**

Email on your ETH-Address (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



Reto Kreuzer

Head of Student Administration /
Student advisor

ETZ H 83

+41 44 632 08 15

info@ee.ethz.ch



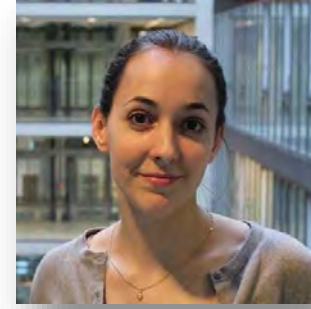
Doris Döbeli

Student Administration

ETZ H 85

+41 44 632 50 03

info@ee.ethz.ch



Audrey Djouadi

Course scheduling /
Student exchange advisor

ETZ H 87

+41 44 632 89 57

info@ee.ethz.ch



Administrative matters

Your next steps in myStudies

- **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 4th week**).
- Enroll for **exams** – please enroll during the **3rd and 4th week** of the semester (withdrawal possible until very late).

- **Notify us of your address changes**

Enrolling for courses

- 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
- GESS courses (SiP), the internship and the semester project and master thesis **do not go on** the learning agreement.
- Do not forget to **enroll** for the **Semester Projects** and the **Master Thesis** (special section in myStudies "Projects/Papers/Theses) – but they do not go on the learning agreement

Choosing courses: Sources of information

- **Consult your tutor for elective 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 the video on "MyStudies: Semester Enrolment & Course Registration" published under www.ethz.ch/how-to-eth)

myStudies: How to?

Watch the Video on "MyStudies: Semester Enrolment & Course Registration" published under www.ethz.ch/how-to-eth

The screenshot shows the myStudies website interface. At the top, there is a blue header with the text "myStudies". Below the header, there is a navigation bar with links: "Help", "Contact", "Login", a logo, "German", and "English". The "Help" and "English" links are circled in red. Below the navigation bar, there is a "Login" section with a "Message:" box containing information about the coronavirus pandemic. Below the message box, there is a instruction: "Choose the language on the top right. After logging in the language can not be changed any more. Sprache oben rechts wählen. Nach dem Einloggen kann nicht mehr umgeschaltet werden." Below this instruction, there is a "Start" button. To the right of the login section, there are two boxes: "Online help" and "Useful links". The "Online help" box contains the text: "If you need assistance click on the Help link in the top right-hand corner of this webpage." The "Useful links" box contains a list of links: "Continuing education", "Doctoral students", "Special students and auditors", and "Students".

Choose language at login

Get Help!

myStudies: Create learning agreement

A learning agreement can be created in myStudies, select it 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 | | | |
| | Number | | | | | | | |
| 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
Helmholtz Institute for Information Technology
Welcome - Matriculation - Edit Learning Agreement [307] | 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: 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 | | | |
| Major Courses | | | | | | |
| | | 42 | 42 | | | |
| 227-0120-00L | Communication Networks | 6 | | <input type="button" value="Change category"/> | | <input type="radio"/> |
| 252-0400-00L | Cryptographic Protocols | 5 | | <input type="button" value="Change category"/> | | <input type="radio"/> |
| 252-0407-00L | Cryptography Foundations | 7 | | <input type="button" value="Change category"/> | | <input type="radio"/> |
| 227-0436-00L | Digital Communication and Signal Processing | 6 | | <input type="button" value="Change category"/> | | <input type="radio"/> |
| 227-0434-00L | Harmonic Analysis: Theory and Applications in Advanced Signal Processing | 6 | | <input type="button" value="Change category"/> | | <input type="radio"/> |
| 227-0558-00L | Principles of Distributed Computing | 6 | | <input type="button" value="Change category"/> | | <input type="radio"/> |
| 112 | Distributed Operating Systems | 6 | | <input type="button" value="Change category"/> | X | <input type="radio"/> |

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
Arnold Zürcher (09-4932-6411) | Akademische Dienste | Help • Contact • Logout

Welcome - Matriculation - Display Learning Agreement [ESP] /show/LearningAgreement.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.

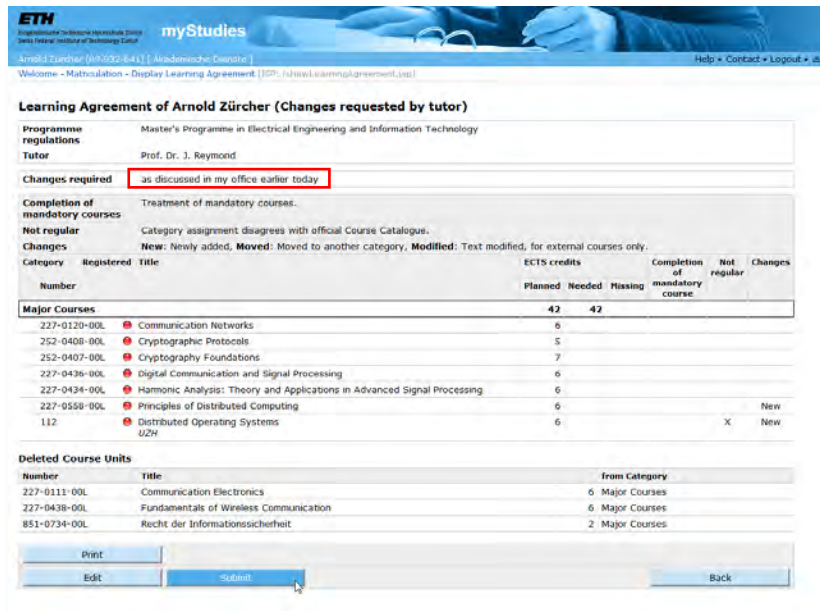
Completion of mandatory courses: Treatment of mandatory courses.
Not regular: Category assignment disagrees with official Course Catalogue.
Changes: **New:** Newly added, **Moved:** Moved to another category, **Modified:** Text modified, for external courses only.

| Category | Registered Number | 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 you may be invited to change it:



ETH myStudies
Engineering Technology Research Center
ETH Zurich - Institute of Technology Center

Arnold Zürcher | 1912032-8411 | [Academician's Contact](#) | [Help](#) | [Contact](#) | [Logout](#)

Welcome - Matriculation - Display Learning Agreement | [IDP: /showLearningAgreement.asp](#)

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 | 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 | | | | |
| | 227-0434-00L | Harmonic Analysis: Theory and Applications in Advanced Signal Processing | | 6 | | | | |
| | 227-0559-00L | 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

Performance Assessments

- 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*
- Important notice: 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"
 - Lecturer/examiner



Information

Counselling

Ctrl

Counselling at ETH and the D-ITET

- **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)

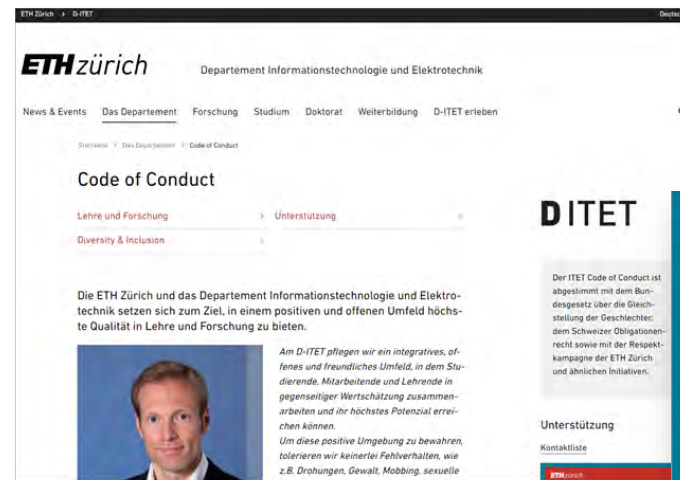
Code of conduct

« 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. Klaas Enno Stephan, Head of Department

Further information on the Web:

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



Reminders

- Make sure that you always have your vaccination or test **certificate** and a personal identification document (e.g., student card) on you
- **Scout for good spots** on the campus for WiFi and seating: some courses may still be online, followed by presence-based teaching immediately after
- **Follow instructions** of lecturers, especially re. certificates, keeping distances, and masks

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)

- **This presentation**

Available tomorrow morning on www.ee.ethz.ch > Studies > Forms and Documents

Enjoy your studies at ETH!



Zürich, September 21th 2021

amwv

Welcome Day





University Politics



Events

What we do



Study Documents





University Politics

Representation of students' interests

Questions or complaints to
hopo-itet@amiv.ethz.ch

Offers and Activities

- Theater
- Poker- / Jass tournament
- Sushi-Night
- Graduate party
- Strongmanrun
- Lasertag
- Beachvolleyball tournament

Events




Quick Filter

Department

D-ITET

Semester

 Do you have oral exams? [more information about exam protocols](#)

 Do you want to share your own summary? [Upload study document\(s\)](#)

Semiconductor Devices: Quantum Transport at the Nanoscale Summary – Summary, 11 pages

2018 / Luisier, Mathieu / Author: Dominik Werner / 5+ Semester

 quantum_tr...rner.pdf 1.37 MB

More than 1000 summaries, old exams, etc. on amiv.ethz.ch

Study Documents



**Written recollections of
oral exams
extremely useful when
preparing for an exam**

Oral exams?

**Find protocols on
the amiv website!**

Submit one yourself
and get a cash reward.
More information on
amiv.ethz.ch



amiv **vsoeth** Fachverein
Verband der
Studierenden
an der ETH

Lounge



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

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



AMIV commissions



Bastli



LIMES

Ladies In Mechanical and Electrical Studies

blitz

die Fachzeitschrift des amiv an der
ETH



How to contribute?

veth
member

Teams

Board member

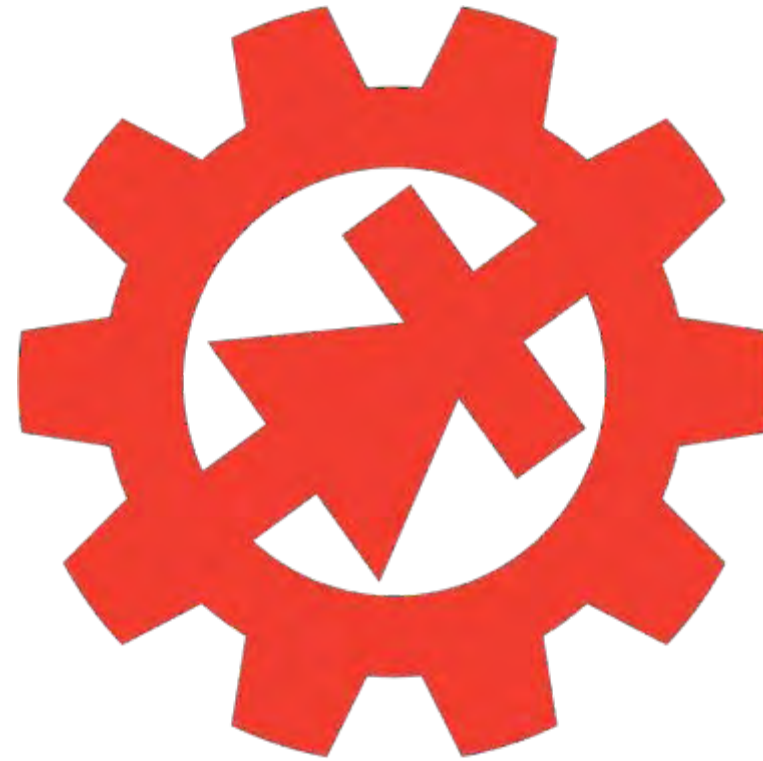
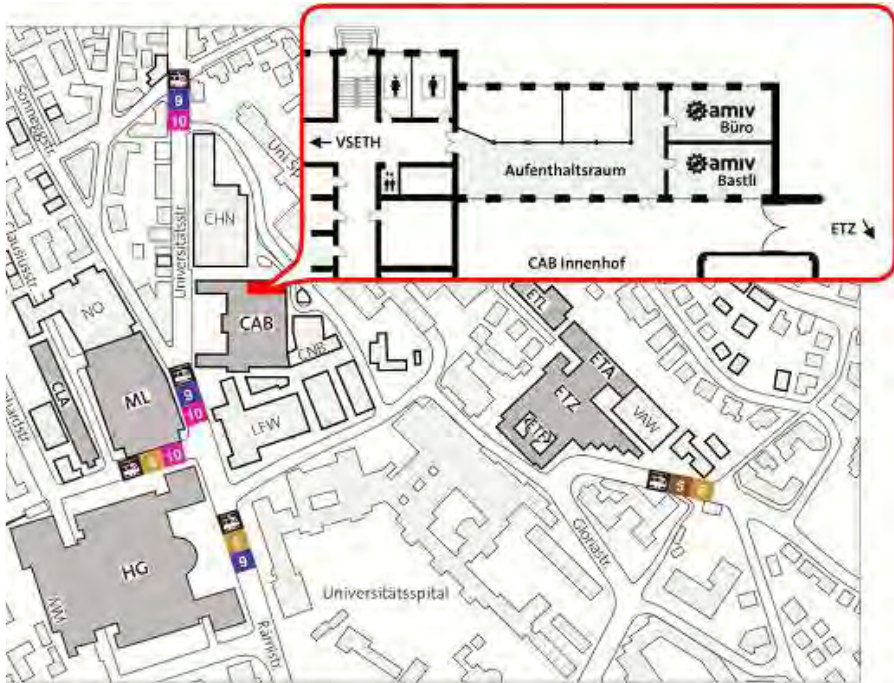
Voluntary contributions for the Autumn Semester 2019

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

AMIV at ETH Zurich
CAB E37
Universitätstrasse 6
8092 Zürich



@amiv_eth



facebook.com/AMIV.ETHZ



www.amiv.ch



info@amiv.ethz.ch

EMC²





What is EMC²?



Hiking and Snow Weekend





Scavenger Hunt



Camping and Fondue Night





Hoodies





MEST Group and Next Event



**Thursday 23.09
from 18:30
at Chinawiese**





Join Us!

Contacts:

Riccardo

+39 3488144366

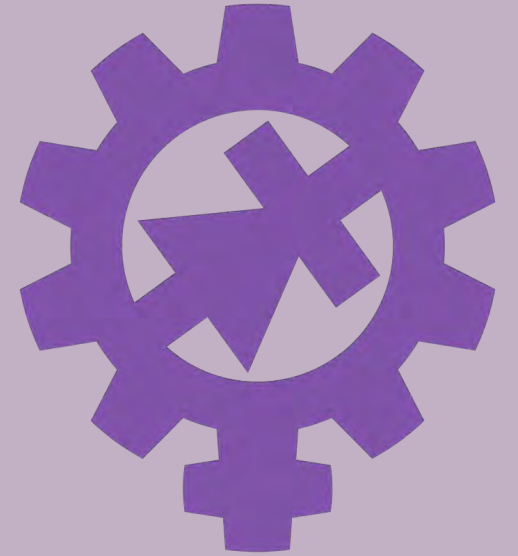
Johannes

+49 15152257594



LIMES

Ladies in Mechanical and Electrical Studies



- 
- Connect with fellow female students
 - Connect with industry partners
 - Inspire highschool students
- 

WHY?

EVENTS

- Mentoring
 - Masterapéro
 - Schülerrinnentag
 - Ladies' Night
 - Excursions
 - Stammtisch
 - LIMES Talks
- ... and much more!



THE HOW?



Masterapéro

Where?

ETZ Terrace, E-Floor

When?

Tomorrow, at 12o' clock



LIMES

Ladies in Mechanical and Electrical Studies

email: limes@amiv.ethz.ch

instagram: [@limes.eth](https://www.instagram.com/@limes.eth)

website: limes.ethz.ch

