Master Program in Electrical Engineering and Information Technology
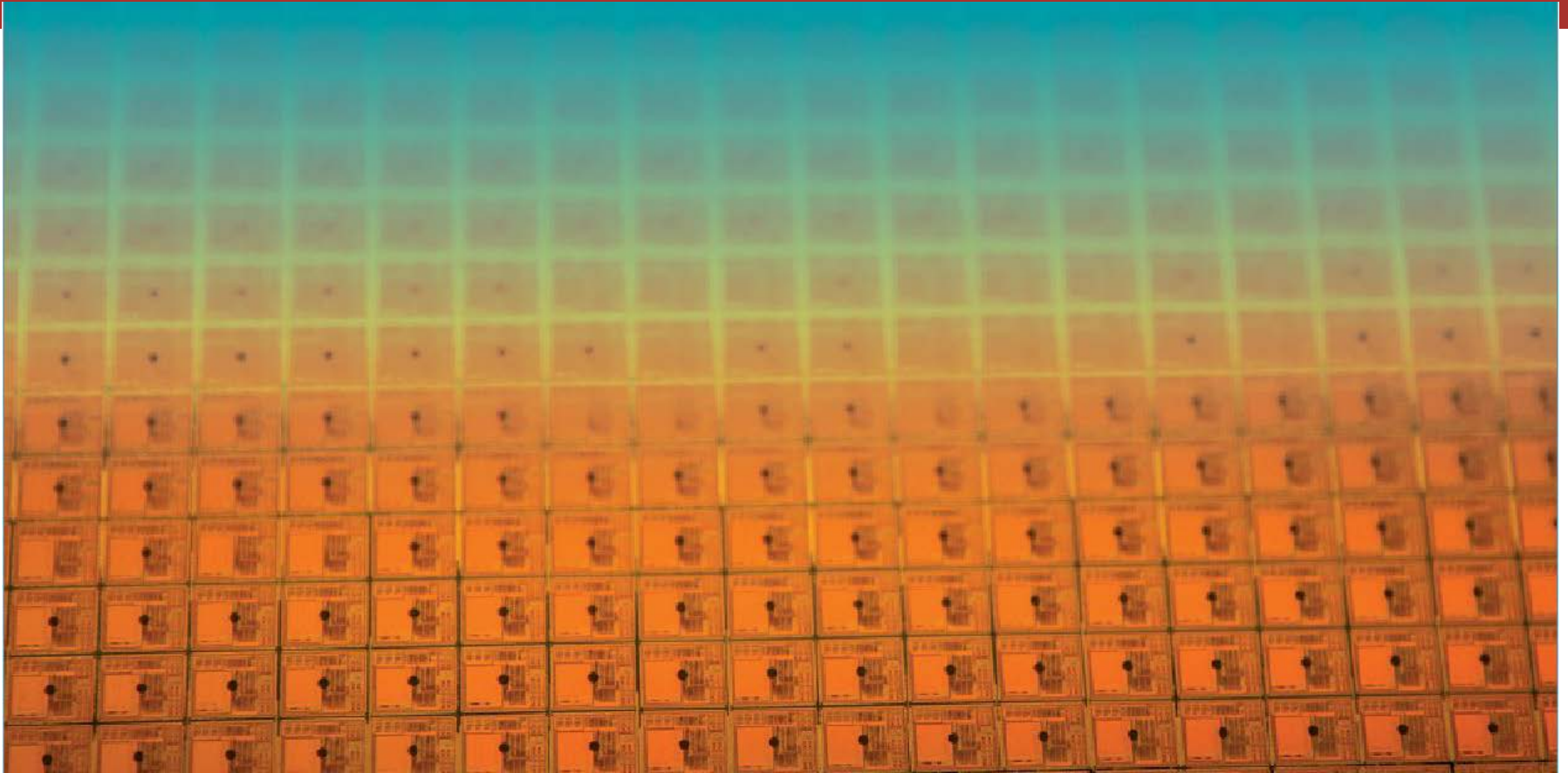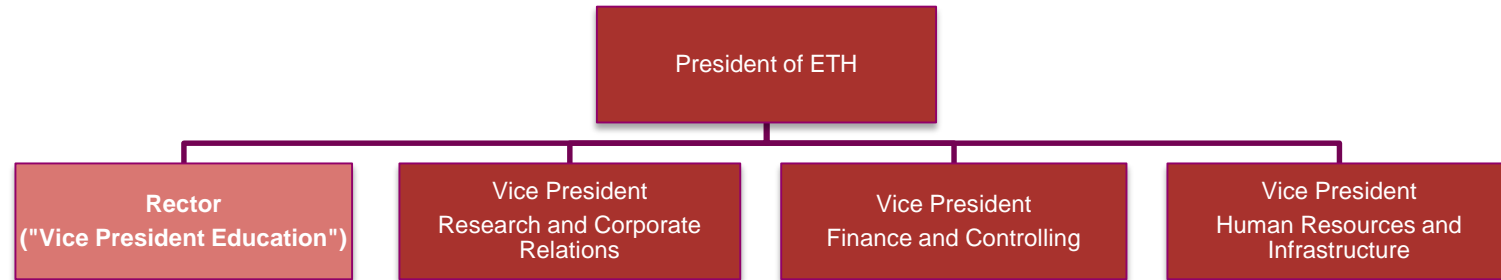
Reto Kreuzer, Coordinator of Studies D-ITET

September 19, 2016

D ITET

ETH and ITET: structure & key figures

ETH Zürich: Organization and structure

President of ETH

Rector
("Vice President Education")

Vice President
Research and Corporate Relations

Vice President
Finance and Controlling

Vice President
Human Resources and Infrastructure

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	Biologiy		
	Biosystems Science and Engineering			

D-ITET: Size and members

- 11 laboratories (institutes) und 5 independent professorships

- 36 professors (4 women)

- ca. 500 scientific and administrative employees

- ca. 400 PhD students

- ca. 1'200 undergraduate and master students

36 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 Göksel
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 Lapidoth	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 Stampanoni	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				

DITET

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 an Computation MSc	28 (*43%)
Exchange students	
ETH	416 (*33%)
D-ITET	**42 (*19%)**
PhD students	
ETH	4'031 (*31%)
D-ITET	**403 (*20%)**

DITET

An international program

Joining approx. 100 ETH Zurich graduates, around 50 external students add to the international character of D-ITET's Master's level

Very International:

Austria, Belgium, Brazil, China, Egypt, Finland, France, Germany, Greece, Hungary, Iceland, India, Indonesia; Iran, Italy, Japan, Netherlands, Pakistan, Singapore, Sri Lanka, Switzerland, Turkey, United Kingdom, United States.

Great variety of Schools:

Anna University Chennai, Bandung Institute of Technology, Bilkent University, BITS Pilani, Budapest University of Technology & Economics, Centrale/Supélec, Ecole Polytechnique Palaiseau, Ecole Polytechnique Fédérale Lausanne, Edinburgh University, German University Cairo, Harbin Institute of Technology, Hebei University of Technology, Hochschule Rapperswil, Huazhong University, Jacobs University Bremen, Katholieke Universiteit Leuven, Lahore University of Management Sciences, Manchester University, Nanyang Technological University, National University of Sciences & Technology Islamabad, North Carolina State University, North China Electric Power University, NTU Athens, Osaka University, Politecnico di Milano, Reykjavík University, SUNY Albany, SUNY Binghamton, Surrey University, Tampere University of Technology, Tehran University, Tongji University, TU Delft, TU München, TU Wien, UC Santa Barbara, Uni Padova, Universidade de Brasília, University Birmingham, University College London, University of Iceland, University of Moratuwa, Xi'an Jiaotong University
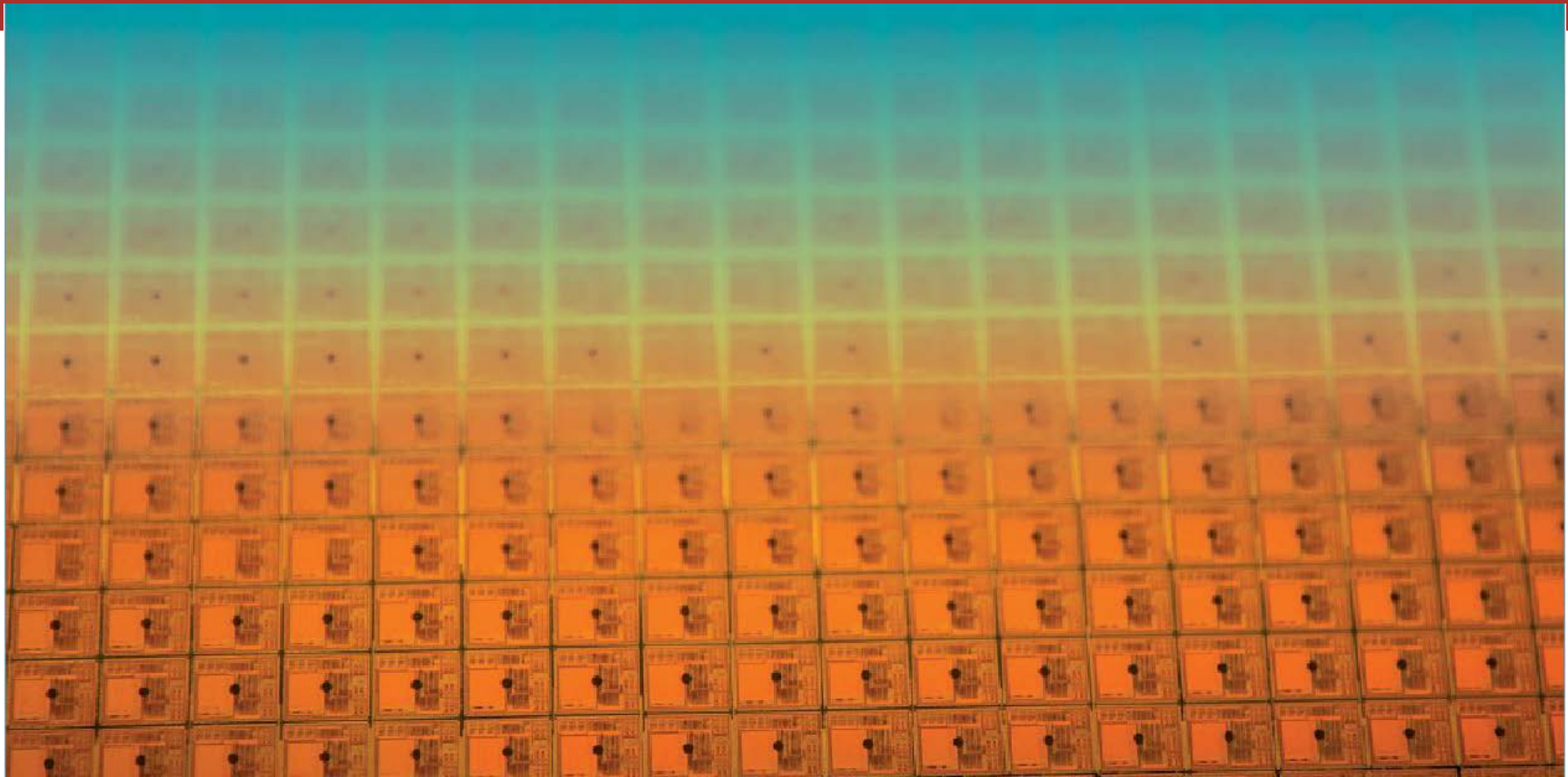
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ETH and ITET: find the right contact

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Your most important contacts: who?

ETH / Rectorate

Registrar's Office (HG F 19)

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

D-ITET / central services

Student Admin (ETZ H 85)

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

Students' association

AMIV (CAB E 37)

Social contacts,
networking

Students

Tutors / Lecturers / TA

Course specific questions, study plan

Your most important contacts: where?

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 Electrical Engineering**

  D-ITET website: www.ee.ethz.ch > Studies > Main Master Program

- **Course catalogue**

  Online: www.vvz.ethz.ch > Programme > Electrical Engineering (…) 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!**

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Your studies are subject to regulation

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

    www.rechtssammlung.ethz.ch (complete collection, German)
    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 > Studies > Legal basis > Directives Collection

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.
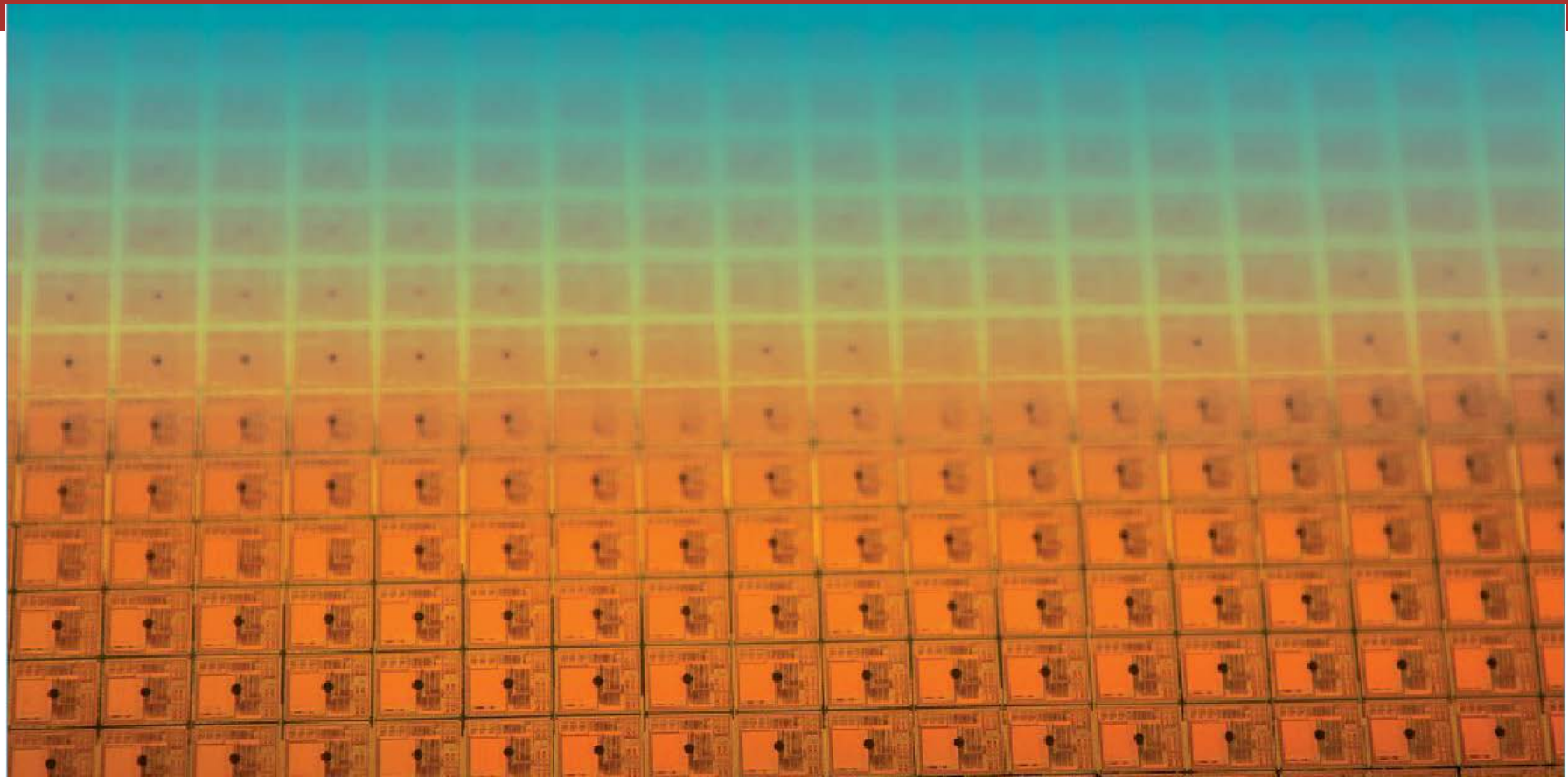
Courses, Credits and Exams

The Master's Degree Program

- **Courses** (two semesters)
  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**.

- **Two semester projects**
  Each 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.
  We suggest to get started with the first project soon!

- **Master Project** (6 months)
  After all else is done, the _masterpiece_ of your studies at ETH.
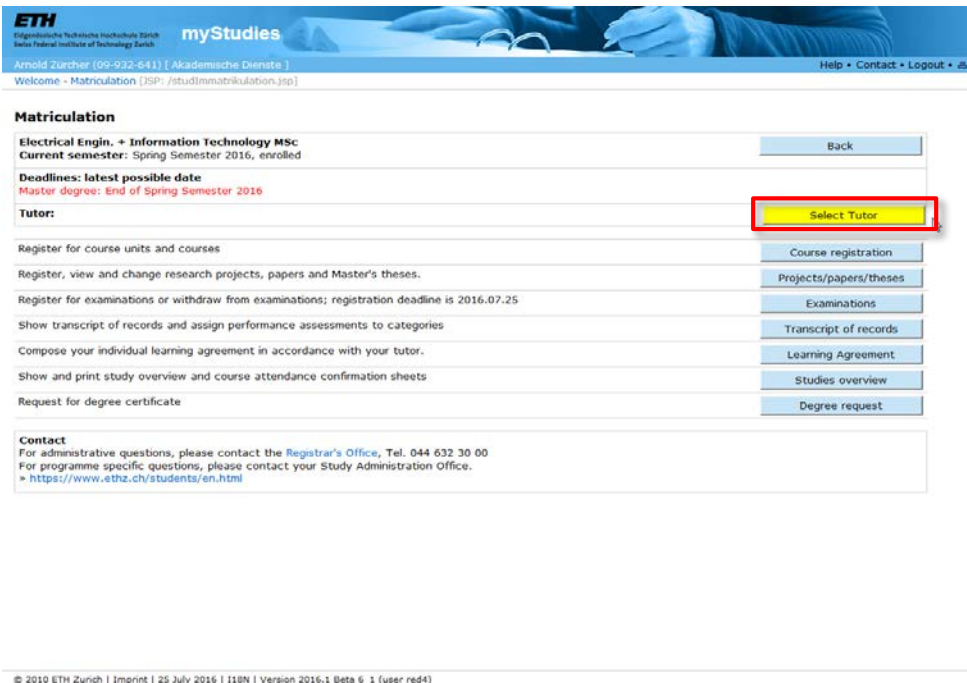
Submitting a tutor agreement: Best practice

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

- If you do not have a tutor yet, decide which professors' research areas best fit your study interests (see the [program's website](#)).

- 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.

- Meet the potential tutor(s) and discuss your choice of courses.

- 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.

myStudies: Choosing a tutor (I)

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

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

myStudies: Choosing a tutor (II)

Choose your tutor from the list of available tutors (example list below):

The tutor will have to **confirm** in order to make your choice effective.

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.

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.

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.

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:

Courses (42 + 2 credit points)

- The tutor helps with the selection of courses, these courses permit a specialization in one of the following areas:
  - Communications
  - Electronics and Photonics
  - Computers and Networks
  - Systems and Control
  - Energy and Power Electronics

- However, courses can be selected **freely**, subject to approval by the tutor. See the course catalog for the list of courses.

- At least **2 credit** points must be obtained by courses from the Department of Human, Social, and Political Sciences (D-GESS). These courses are **not** part of the Tutor Agreement.

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

How to choose / enroll for your lectures

- **Consult your tutor!**
  www.ee.ethz.ch > Studies > Main Master Program > Tutors

- **Course catalogue:**
  www.vvz.ethz.ch > Programme > Electrical Engineering (…) Master

- **Enrollment through the online-portal:**
  www.mystudies.ethz.ch

Students online portal – Reminder

Your administrative duties (on 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 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**

- **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

Performance Assessments (examinations)

Three types of performance assessments:

1. **Session examination** (Attention to registration/deregistration deadlines) (Winter session: January/February – Summer session: August)

2. **End-of-semester examination** (Attention to registration/deregistration deadlines)

3. Graded/ungraded **semester performance** (e.g. semester project or internship in industry) (Attention minimum/maximum allowed time/deadlines)

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
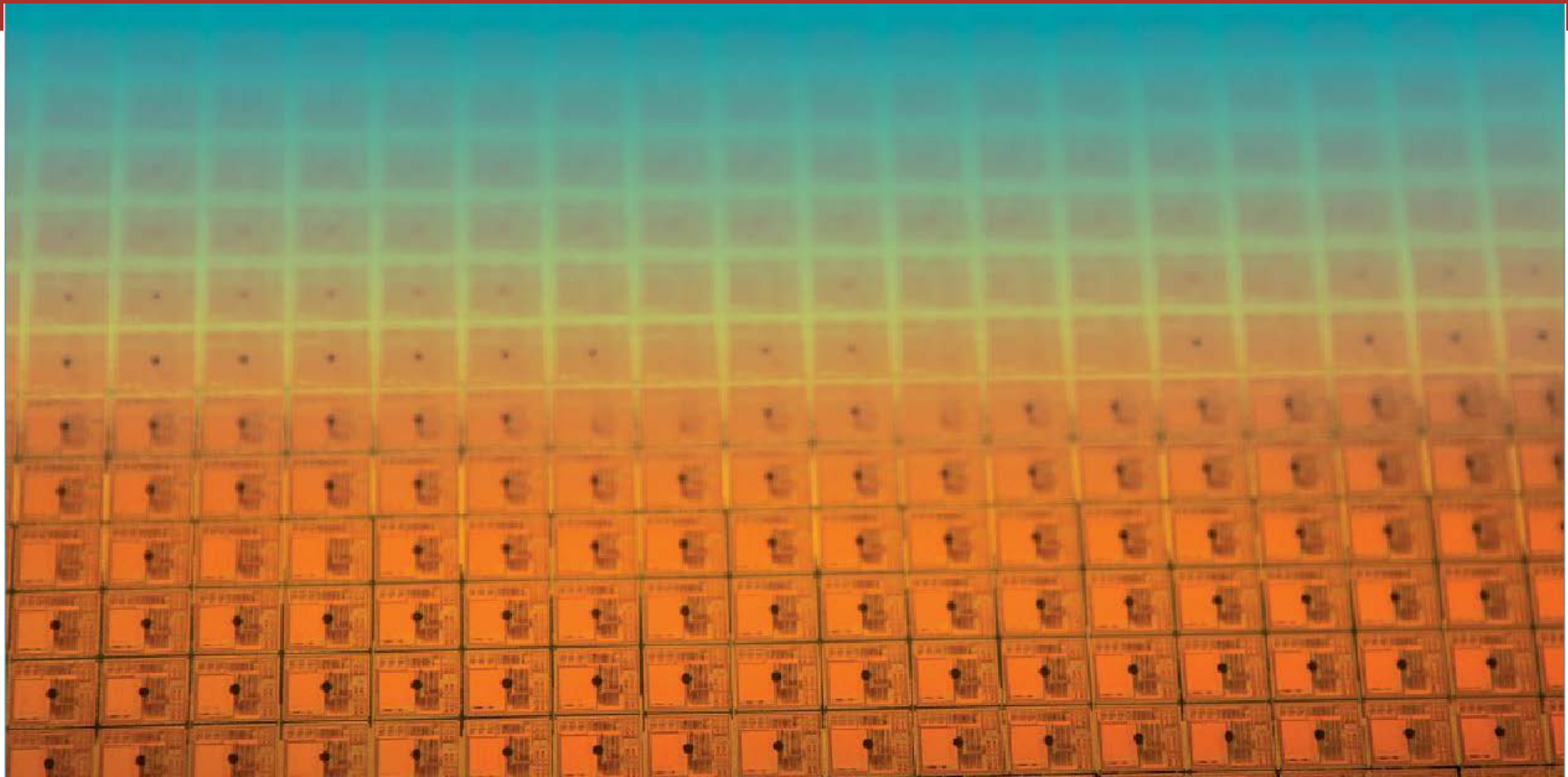
Useful information

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-building area, should you encounter a problem, contact support@ee.ethz.ch (IT support office ETF D 106).

- **Project Neptun:** 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 at D-ITET and the rectorate

- **Course selection**: your tutor.

- **Studies at D-ITET in particular** (deadlines, failures at examinations etc.): the coordinator of studies.

- **Studies at ETH in general**: the international student support.

- **Time management** et al.: ETH student coaching.

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 (with links)**
  Available tomorrow morning on www.ee.ethz.ch > News & Events

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Enjoy your studies at ETH!