

Welcome at D-ITET!

9 October 2019



Welcome

Prof. Vanessa Wood

- Head of Electronics Laboratory
- Head of Department at D-ITET



Welcome

Romain Jacob

- PhD student at Computer Engineering and Networks Laboratory, ETH Zürich
- Member of the Executive Board of VMITET

Reto Kreuzer

- Head of student administration D-ITET
- Coordinator of studies and student advisor D-ITET

Maja Bügler

Head of Human Resources (HR) for D-ITET







Programme

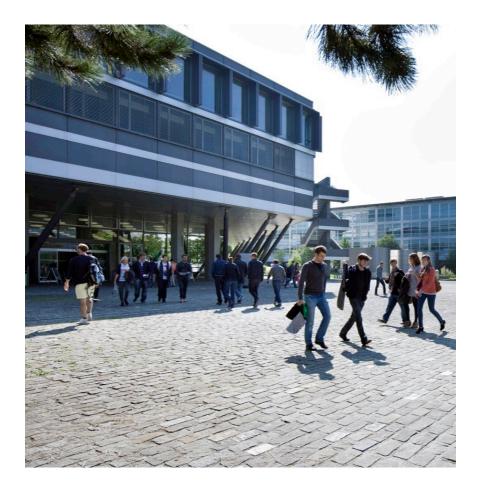
1. ETH and D-ITET

- 2. Introduction VMITET
- 3. Doctoral studies, research and teaching
- 4. Some employment information
- 5. Contacts
- 6. Code of Conduct
- 7. Case studies

1. ETH and D-ITET

Prof. Vanessa Wood

Top education in continental Europe



THE World University Rankingfrom the Times Higher EducationNo. 13 in the world (overall ranking)No. 13 in Electrical & Electronic Engineering

Academic Ranking of the World from Shanghai Jiao Tong University No. 19 in the world (overall ranking) No. 11 in Electrical & Electronic Engineering

QS World University Ranking from Quacquarelli Symonds Ltd No. 6 in the world (overall ranking) No. 3 in Electrical & Electronic Engineering

D-ITET Facts & Figures : Fall Semester 2018

	Fall Semester 2018
Bachelor's students	704
Master's students	668
PhD students	397
Postdocs	45
Professors	36

Four core research areas

- Electronics and Photonics
- Information and Communication
- Energy
- Biomedical Engineering and Neuroinformatics

in 17 Labs

Electronics and Photonics

- Prof. Luca Benini
- Prof. Colombo Bolognesi
- Prof. Gian-Luca Bona
- Prof. Qiuting Huang
- Prof. Taekwang Jang
- Prof. Juerg Leuthold
- Prof. Mathieu Luisier
- Prof. Lukas Novotny
- Prof. Vanessa Wood

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Information and Communication

- Prof. Helmut Bölcskei
- Prof. Florian Dörfler
- Prof. Orçun Göksel
- Prof. Maryam Kamgarpour
- Prof. Ender Konukoglu
- Prof. Amos Lapidoth
- Prof. Hans-Andrea Loeliger

- Prof. John Lygeros
- Prof. Lothar Thiele
- Prof. Luc Van Gool
- Prof. Laurent Vanbever
- Prof. Roger Wattenhofer
- Prof. Armin Wittneben

Energy

- Prof. Jürgen Biela
- Prof. Christian Franck
- Prof. Ulrike Grossner
- Prof. Gabriela Hug
- Prof. Johann W. Kolar

Biomedical Engineering and Neuroinformatics

- Prof. Benjamin Grewe
- Prof. Richard Hahnloser
- Prof. Sebastian Kozerke
- Prof. Klaas Prüssmann
- Prof. Daniel Razansky
- Prof. Marco Stampanoni
- Prof. Klaas Enno Stephan
- Prof. János Vörös
- Prof. Mehmet Fatih Yanik

DITET

Faculty staff

















Prof. Luca Benini



Prof. Ender Konukoglu



Prof. Richard Hahnloser

Prof. Amos Lapidoth



Prof. Qiuting Huang

Prof. Jürg Leuthold



Prof. Gabriela Hug



Prof. Taekwang Jang

Prof. Mathieu Luisier









Prof. Maryam Kamgarpour

Prof. Johann W. Kolar























Prof. Hans-Andrea Loeliger

Prof. Laurent Vanbever

Prof. János Vörös





Prof. Ulrike Grossner

Prof. Sebastian Kozerke















Prof. Lothar Thiele

Prof. Luc Van Gool

Prof. John Lygeros









The Department Management



Head of Department: Prof. Vanessa Wood



Deputy Head of Department: Prof. Klaas Enno Stephan



Director of Studies: Prof. Juerg Leuthold

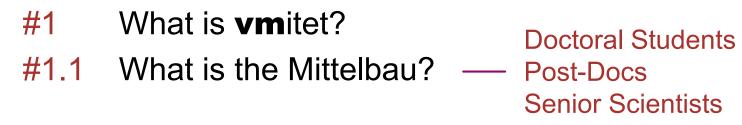
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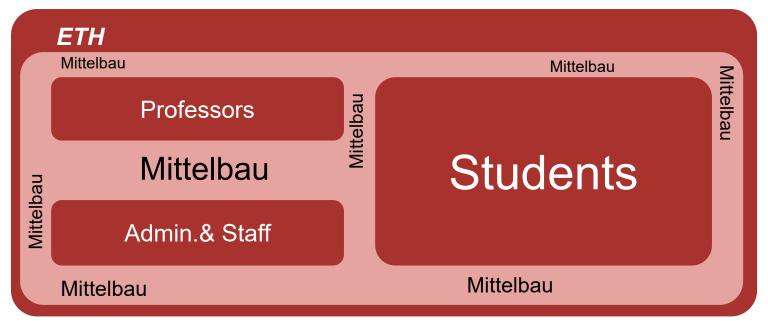
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2. Introduction VMITET

Romain Jacob, **Vmitet**

vmitet is the association of the *Mittelbau* at ITET

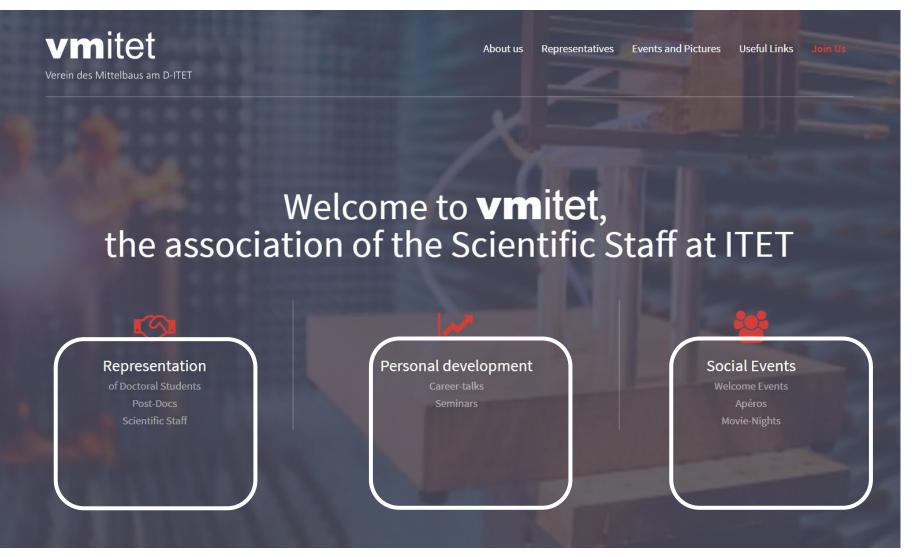




vmitet is the association of the *Mittelbau* at ITET



#2 What do we do?



#2 What do we do? **Representation in ITET Commissions**



#2 What do we do? Personal development events

Career Talks Alumni come by to tell you about their careers



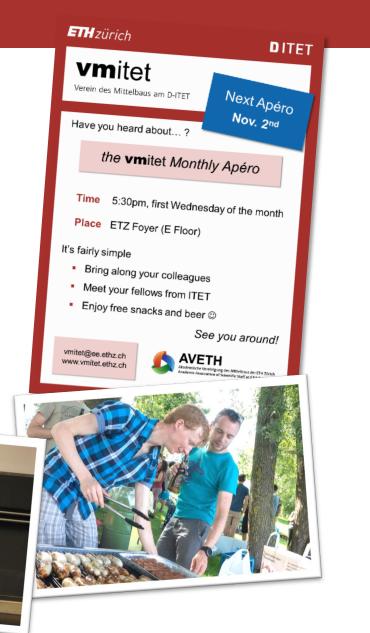


ETHzürich

#2 What do we do? Social Events

"Ours"





#3 What **else** can we do? **Personal development events**



We take care of the beers 🙂

Workshops • Open Access Research

- Sustainable data storage
- Leadership

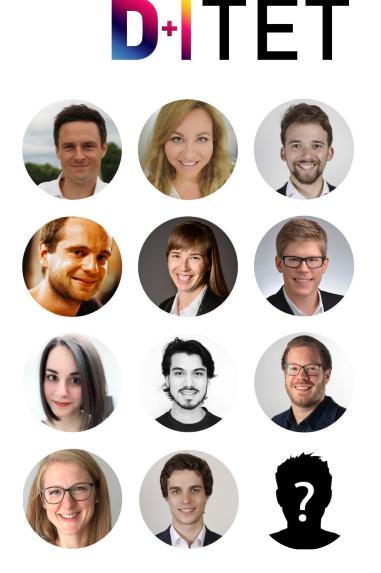
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- Seminars vmitet meets TIK / IfA / 'your lab name'
 - Postdoc/PhD career day

Diversity and Inclusion at ITET

Goals

- positive work environment where every identity feels welcome
- a space where people feel emotionally, physically, and intellectually safe
- open culture where difficulties are acknowledged and addressed



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Diversity and Inclusion at ITET

Summer Festival Food Bazaar

Workshop 16 Personalities

Talks

- Uncovering Unconcious Bias
- The Role of Diversity in Innovation

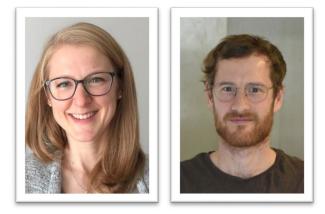
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Diversity and Inclusion at ITET

HelpDesk

DHTET ITET HelpDesk

- First point of contact in early state conflicts
- Trusted mediators are fellow ITET PhD students



 Strictly confidential www.vmitet.ethz.ch/counseling.php

DITET

Diversity and Inclusion at ITET

DITET

Join us ③ We meet and discuss every Wednesday at 12:00 in ETZ H61.2

Upcoming flagship event:

'How to leverage diversity'

- November 7, 4:30 PM
- ETH HG, 'Dozentenfoyer'
- Practical insights, what are benefits, possible caveats?



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A. Research Activities and Doctoral Studies

Prof. Vanessa Wood

Reto Kreuzer

Research Activities

What is "research"? What is expected?

Research Activities

- You are expected to drive your project
- Ask for feedback, communicate goals, seek advice

Research plan

Swiss Federal Institute of Technology Zurich	h	(Definitive Zulassung zum Doktorat Approval of the Research Plan (Full admission to doctoral studies		
Studierenden-Nummer student number	··			
Name family name				
Vorname first name				
Departement D				
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Annual feedback meeting form

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Swiss Federal Institute of			a	and Electrical	Engineering	
	Annual Fee	edback Me	eting for Do	octoral Stud	lies	
Supervisor						
Doctoral student						
currently in her/his	1 st	□ 2 nd	3rd	🔲 4 th	□ 5 th	6th year
has started his/her do	ctoral studies in				(year/mo	onth, or semester)
Expected date of thesi	is submission				(year/mo	onth, or semester)
(provisional)						
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per year. It is up to each group to derime when ouring the year mese aiscussions take place, nowever, it is recommended to have the first 'Annual Feedback Meeting' around the time of the submission of the doctora student's Research Plan and then yearly after that date.

DITET

Doctoral studies

What are "doctoral studies"?

Doctoral studies: credit points

Important:

A total of at least 12 credits is required, of which at least one third have to be acquired outside the field of research.

For more information and details see: <u>www.ee.ethz.ch/doctoral-studies</u>

Doctoral studies: Preparing the exam

• 3 years after start of your doctorate:

Have the approval of **at least one co-examiner** by the department's doctoral committee, if they are not professors of ETH Zurich.

About 6 to 3 months before the exam:

Define the examination date, the examiners and the thesis topic

NOTE

In case of **external co-examiners**, you need approval of department's doctoral committee. The committee meets irregularly (see <u>upcoming dates</u>).

The (main) **supervisor** must make the request **no later than three months** before the examination date.

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Doctoral studies: Preparing the exam (cont.)

About 2 months before the defense

- → Agree on an (exact) examination date with the examiner and the co-examiner(s)
- → Notify the doctoral administration of the desired date
- At least 12 working days before the defense the following must be submitted to the ETH doctoral administration
 - → The completed <u>registration form</u> with all necessary confirmations
 - → A copy of the thesis (bound, spiral or adhesive binding), see the <u>Doctoral Regulation</u> (Annex 1 of the <u>Implementation Provisions</u>).
 - \implies A separate CV of the author.

B. Education at ETH and your role in it

Reto Kreuzer

- **1.** Education at ETH: BSc/MSc study programmes
- **2.** Your interaction with BSc/MSc students
- **3.** Teaching as an opportunity

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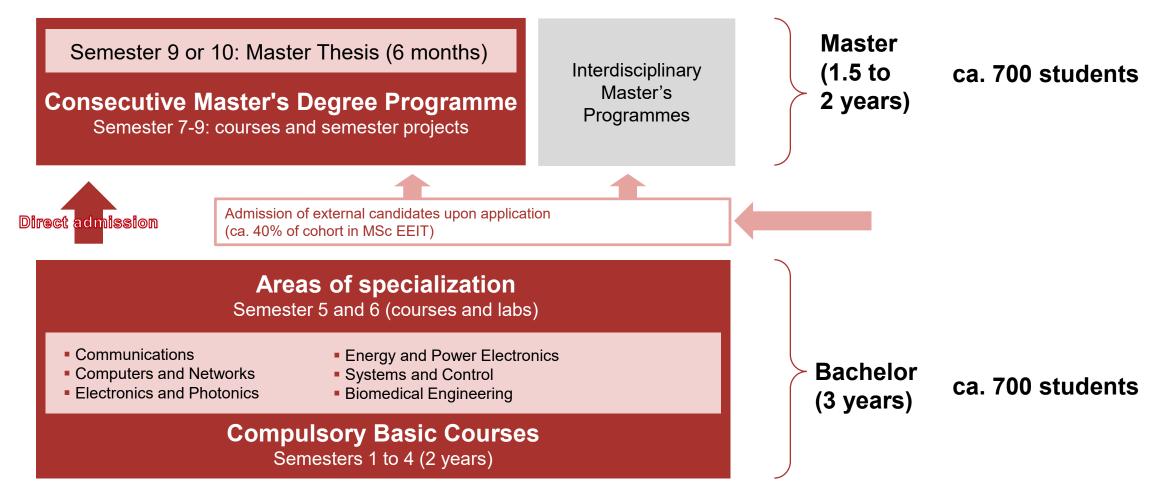
1. Education at ETH Zurich

- A large offer: currently 23 Bachelor's and 44 Master's Degree Programmes.
- Compact study programmes:
 - Bachelor's Degree Programme: 6 semester (3 years), teaching language mainly German in 1st + 2nd year; partially English in 3rd year
 - Master's Degree Programme: 3 to 4 semester (1.5 to 2 years), teaching language mainly English
- A research university: Teaching at ETH is a combination of sound scientific foundations and practical application in industry and research.





Bachelor's and Master's Curriculum at D-ITET



The Master's Degree Programmes at D-ITET

Common to all Master's Degree Programmes at D-ITET

- Tutor based programmes: a professor helps students select courses
- 1-2 academic projects (14 weeks, part-time during the semester): Training for master thesis.
- 1 Master's thesis (6 months, full-time): culmination of master's programme

2. Your interaction with undergraduate (BSc/MSc) students

Semester	Course type	Specifics
All	Lectures	Ex-cathedra, usually held by a professor (graded exams)
All	Exercises	Solving exercises, usually in smaller groups, supervised by teaching assistants – doctoral students or senior undergraduate students (teaching assistants)
All	Exams	Various types (written, oral) and schedules (end-of-semester, session), correction mostly by doctoral students
1 to 6	Lab courses	1 compulsory lab per semester (1 st / 2 nd year), afterwards free choice of lab courses. Most labs offered by doctoral students .
3 to 6	Projects & Seminars	Various type of small projects or seminars ranging form a few meetings to all-semester offers, various groups, usually supervised by doctoral students or self-supervised by student TA.
5 and 6	Group Projects	Small third year BSc projects in groups, usually supervised by doctoral students .
7 to 9	Semester Projects	Compulsory at the MSc level, <u>alongside courses</u> , 14 weeks, ca. 25h per week, routine, day-to- day supervision by doctoral students . Official supervision and grading by professor, projects finish with a written report and presentation
9 or 10	Master's Theses	Final project, sometimes at very advanced academic level. Supervision, grading and presentation as in semester projects (doctoral students + professors)
DITET		Welcome Event 21.10.2019 42

In a nutshell

- Teaching at ETH is interdisciplinary, courses offered in various programmes / students with different backgrounds – keep in mind when addressing students' questions
- Admission of students without an ETH-Bachelor's degree further diversifies student body
- Students' workload in first two years of Bachelor programme is very high but varies largely in third year and higher
- Final exams play a very important role at ETH (few midterms), particular care in grading exams is important
- Semester projects and master's theses are the culmination of each programme, different students need different levels of supervision
- If you encounter problems don't hesitate to ask!

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3. Teaching Responsibilities and Opportunities!

- Teaching is a stepping stone in any academic career. Consider it an opportunity!
- There are many levels of teaching, starting at rather informal lab courses (P&S), managing exercises, supervision of projects/theses and regular teaching in classes.
- For teaching in classes you should get a <u>teaching assignment</u> and appear in the course catalogue as lecturer.
- You want to get better at teaching?

Check out the <u>offers</u> of the group for **educational development** like didactic courses, teaching labs, refresh teaching etc.

Doctoral Teaching Assistants at ETH Zurich

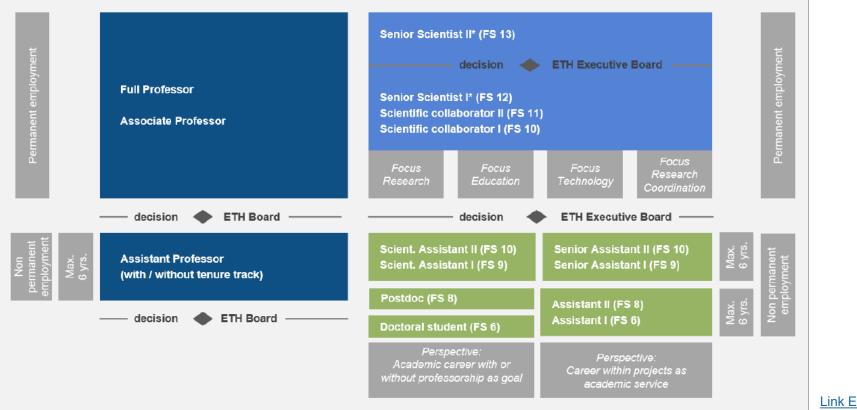
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4. Some employment information

Maja Bügler

Development opportunities in science and time constraints



Link EN: Scientific career

- ✓ 6 years max. as Doctoral Student and Postdoc
- ✓ 6 years max. as Senior Assistant or Senior Collaborator
- **9 years max**. as Senior Collaborator (if start at ETH Domain in this function)

(Defined in: Ordinance governing scientific employees of the Swiss Federal Institute of Technology Zurich)

Salary system

- ✓ **Fixed rates** for Doctoral students / Postdocs / Assistants
 - ✓ Set by Executive Board of ETH / ETH Council / Swiss Federal Council to be aligned with SNF
- ✓ Automatic increase every year until 3rd-year-rate
- ✓ Payment is in 12 monthly instalments

- ✓ D-ITET policy:
 - Each Institute or Professorship can select the fixed rate(s)
 - ✓ This must be applied consistently for all group members

Legal and contract details

	PhD students / Postdoctoral students
Probation period	Probation period of 3 month
Contract duration	Typically 1 year, renewable
Employment level *	100% - Part-time employment is permitted in reasonable cases, in particular parenthood or employment with another employer, with a written request
Termination of contract	On contract end Early termination of contract by mutual agreement only
Specifics PhD students	Matriculation and work contract are two different legal situations

(Defined in: Ordinance governing scientific employees of the Swiss Federal Institute of Technology Zurich)
 <u>https://ethz.ch/services/en/employment-and-work/employment/employment-salary.html</u>

Time Management, Absences & Vacation Regulation

- ✓ Duty to register absences in ETHIS
 - Obligation for Scientific Personnel: Negative time management only
 - (= Vacation and Absences due to illness, military, maternity leave, unpaid leave)
- ✓ If an employee is absent due to illness/accident, latest after five days ask them send a doctor's certificate to HR
- ✓ 5 weeks for employees up to age 49
- Vacations are for recreation purposes
- Vacation days have to be taken in the year the entitlement arises, at least once 2 weeks in a row
- ✓ You supervisor is allowed to decide when vacations can be taken. Get the ok in advance!
- A small left-over can be taken into the new year with the commitment when these days will be taken (e.g. 1 week for plan of long vacation)
- ✓ Supervisors are not allowed to reduce vacation days of their employees

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5. Where to find your contacts

Maja Bügler

Reto Kreuzer

ETH Welcome Center



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Human Resources

Personnel administration (Denise Siegrist, denise.siegrist@hr.ethz.ch)

- Residence and work permits for foreign employees,
- Family allowance, holidays and vacations, social insurance, accident and sickness
- Work certificates and employer certificates for unemployment insurance fund

Personnel Manager (Maja Bügler, <u>maja.buegler@hr.ethz.ch</u>)

- Support in personnel matters within the ETH common personnel policy and in accordance with the framework of legal requirements
- staff recruitment, development, retention, conflict management, consulting and separation
- Treats your issues confidentially





Doctoral administration



Reto Kreuzer (ETZ H 83) Head of student administration D-ITET <u>reto.kreuzer@ee.ethz.ch</u> 044 632 0815 (upon appointment)

Contact person for: Student counselling, curricula questions and regulations



Yasemin Tomaschett (ETZ H 85)
Doctoral administration D-ITET
<u>doktorat@ee.ethz.ch</u>
044 632 3336 (Monday, Wednesday, Thursday)

→ Ask your supervisor and the administration/secretary of your lab for inside knowledge!

Contact person for:

All administrative steps regarding doctoral programme from official application to doctoral exam **DITET**

Equal, Ombudspersons, Counselling

Psychological Counselling Service

 Free of charge and fully confidential <u>service</u> open to all students and doctoral students at the University of Zurich or ETH Zurich

ETH Equal

DITEI

 <u>ETH equal</u> is the office that promotes Equal Opportunities for Women and Men at ETH

Ombudspersons and trusted intermediaries

 General <u>contact points</u> for conflicts that cannot be solved by direct communication and reporting suspected illegal actions and issues concerning research integrity and scientific misconduct





More contacts for advice

- **Career Center**
- Student Advisory Service/Coaching
- Talent Development
- Legal Advice
- **Studies and Childcare**
- Studying and Professional Sports
- Trusted intermediary
- etc.

Continuing Advice Careers Service Campus Education TH Zurich > Student portal Student advisory service/Coaching Advice Disability advisory service There are advice centres available to you for (almost) any situation General advice Psychological counseling For advice concerning general Problems/legal advice study specific, financial or administrative matters please Studying as a parent see Studies > Studies and top-level sports Please be aware of advisory offerings by your department. Other offices You can find the contact details for obtaining free and confidential advice or coaching by consulting each advice centre directly: Student advisory service/Coaching -> Support with planning your studies, changing course, learning techniques, time management, exam preparation and many other topics Disability advisory service > For students with a disability or chronic illness

Login Contact

en 🗤

THzürich

Studies Doctorate

Student portal

More infos:

>>>> https://www.ethz.ch/students/en/advice.html

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6. Code of Conduct

Prof. Vanessa Wood

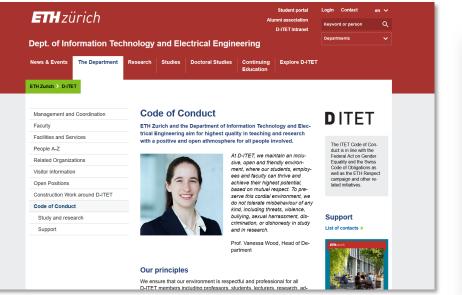
Code of conduct

"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

Information on our website, flyer

- Our principles, what is "inappropriate behavior" etc.
- How to react to inappropriate behavior
- Support, contact people





DISCRIMINATION Interfiend ar unintentiansi discrimination of parsons in sumparable situations because of actual or attributed group-specific characteristics such as geneter, origin, nationality, religion, ideologi, physical ability, sexual identity, and professional, status is see Federal Constitution of the Socie Scondeserson, Art, B, para, 2.

INAPPROPRIATE BEHAVIOUR IN STUDY AND RESEARCH

Our interpretation in detail: - Knowingly or unknowingly increase bahavisur in study or in research. - Irregularities in examinations. - Not going program cradit to obtain (loss). - Proportionately less carditibution to group projects. - Incourate statements about once's contwork or the work of third parties. - Maniputation of data and results. - Bishangstof III Risense.

How to react to inappropriate behavoiur

 If you are a victim of inappropriate behaviour, you should respond quickly and firmly.
 A dyaw response makes it more difficult to convey that the behaviour or actions are inappropriate and unreactions. It must be calculated that you will not observe such behaviour. If you are siliant or passing, this can be interpreted as acceptance of the inappropriate actions and behaviour.

 If verbal communication is unsuccessful, inform the harasser in writing that the inappropriate behaviour must stop. See sample latter to someone harassing you the website: www.ee.attr.ch/code-of-conduct.

Talk to other people. Determine if others are having similar experiences.

 Document your situation. Keeping a detailed log in which you note all incidents li.e. the person harassing you, date, time, place, words, gestures, type of offence, witnesses) can make it easier to prove inappropriate behaviour and actions.

 Depending on the type of inappropriate behaviour, ETH regulations provide different mechanisms through which complaints can be escalated. The people on our contact list can advise of this matter.

 People who accuse innocent people of inappropriate behaviour can expect the same consequences as these who harass others.

Please find more information on: www.ee.ethz.ch/cede-of-cenduct The ITET Code of Conduct is in line with the Federal Act on Gender Equality and the Swiss Code of Obligations as well as the FTH Research campaign.

Thank you!

