

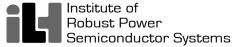




M.Sc. Electrical Engineering University of Stuttgart

Introductory Lecture Summer Term 2025 Ingmar Kallfass

Dean of Students







The Stuttgart Region

Culture Hightech and Innovation Landscape

The state of t

Opera, Ballet, Theatres, Museums ...

Botanical and Zoological gardens ...

Cannstatter Volksfest, Nightlife ...

Head offices

Bosch, Daimler, Porsche, IBM, Sony ...

Black Forest, Swabian Jura, Alps ...

Tübingen, Heidelberg, Strasbourg ...



International Service Point Faculty 5

ISP International Service Point

Complementary to the services of the university's International Office:

- Support and contact point for the faculty's international students
- Promoting further internationalization at Faculty 5
- Events & networking activities for and with international students

Stay informed!

- ISP Website
- Monthly mailing Faculty 5
- Follow Meta & Laura on LinkedIn



Meta Geisbüsch, LL.M. & Laura Busch, M.A.

International Service Point (ISP) | Faculty 5
University of Stuttgart
Pfaffenwaldring 47 | Room 4.270
internationalstudents@f05.uni-stuttgart.de

MentorEENG - **Peer Mentoring Program** for 1st semester EENG Students

Learn from your seniors. Meet fellow students. Ask your questions.

- Special support program for newly enrolled EENG students (1st semester)
- coordinated by the university's International Office in collaboration with ISP Faculty 5
- leisure activities and network meetings organized by committed EENG mentors
- No registration
- events in summer semester 2025:
 - Meeting Monday, April 7, Unithekle (course / exam registration,...) → more infos in the WhatsApp group
 - 2. tha
 - 3. tba



https://chat.whatsapp.co m/FTnnz6ze9Tt2VrYuElWI TW

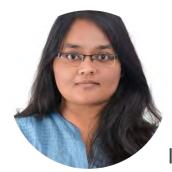


EENG Student Mentors in Summer Semester 2025

Meet your EENG mentors at the 1st Dean's Lunch!



Erfan



Ipsita



Satya



Chirag



Ankita

Upcoming events for international students of Faculty 5



- Welcome Days at the university's International
 Office (IZ): April 2, 11:00 am-3:00 pm CEST
- **EENG Dean's Lunch** | April 23, May 14, and June 4
- Semester Opening Faculty 5 | May 15
- Working in Germany Online Session (by Career Service) | May 21
- C³ career-contact-connect International Career
 Day | June 4
- Save the date: International Days at Faculty 5 | Nov 25-Dec 10



Our monthly mailing!

Stay up to date on **important information** and events for international students of our faculty!





Internationalisation

International

Stay abroad during your studies



Exchange programs

Erasmus+: 35 partnerships in 9 countries

Other exchange programs: worldwide

- Exemption from the tuition fees at the partner university
- Support before and during your stay
- Funding opportunities (Erasmus+ scholarship ...)
- Recognition of the study achievements after consultation with the Department

Contact:

Ms. Virginie Herbasch <u>erasmus@ei.uni-stuttgart.de</u>

Register to the MAILING LIST El-International



Embrace the challenge:

Double Master's program Electrical Engineering

in specializations "Communication Systems" or "Electromagnetics and applications" University of Stuttgart and Vietnamese-German University, Ho Chi Minh City, Vietnam







4-semester double master's program Electrical Engineering 2 degrees
Application until January 15th

2 semesters at University of Stuttgart and 2 semesters at Vietnamese-German University (including Master's thesis)

Teaching language: English
No tuition fees in Vietnam
Funding opportunities



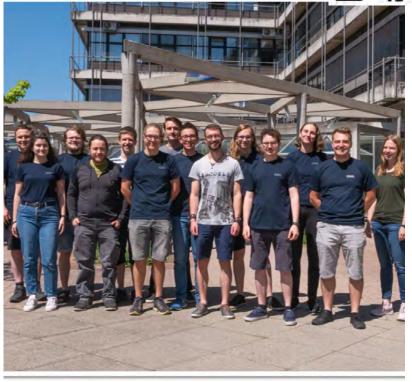
Student Council

Electrical Engineering Students Council (so-called "Fachschaft")

- "Fachschaft" = association of all students studying Electrical Engineering or any other program at the Department of Electrical Engineering.
 - → simply put ©: group of student's that are studying the same thing and want to **voluntarily** help make the whole study experience better and support whoever needs help.
- Activities: representation of interests in university bodies (e.g. Faculty Council), info-point for questions and problems, First Semester Introduction, Party (eMotions), day trips to companies and workshops, etc.
- Great opportunity to meet other (German) students
- https://www.ei.faveve.uni-stuttgart.de/en/









Tips and counseling for good learning!

- Counseling for individual students and study groups
- Weekly learning tips newsletter
- Workshop:
 - Learning methods: Preparing for your degree and exams

Know how to learn!

Learning counseling offers

Contact: lernberatung@uni-stuttgart.de

More information: www.uni-stuttgart.de/zsb/lernberatung



Support for managing many issues and when facing problems



Overview: www.student.uni-stuttgart.de/beratung/

Examples:

Student Counseling Center

Organizing the study program, reorientation, change of study program, improving study skills, contact point for all unclear issues.

We can also direct you to the relevant institution.

www.uni-stuttgart.de/zsb in Vaihingen: House of Students

Students with a disability or chronic illness

Advice and support to students with disabilities or chronic illnesses concerning all questions ranging from accessibility to organization of the course of studies. Commissioners: Ms Eicken und Ms von Wolff www.uni-stuttgart.de/studium/beratung/behinderung/ in Vaihingen: House of Students

Studying and family

We are a family-friendly university and support you!
Service Uni & Family, Ms. Alvermann
www.uni-stuttgart.de/studium/beratung/studieren-mit-familie/

The M.Sc. Electrical Engineering Study Programme

Challenges and Opportunities of University Studies







High Degree of Self-Reliance

Challenge consecutive master degree

Carefully

map your

bachelor's

bachelor's

profile to the

profile to the



Large Range of Electives



Early Integration in Research

Challenge knowledge transfer / applied science he focus landing understanding rather than reproducing lecture content lecture content

a.m.m.



Universität Stuttgart

Faculty 5: Computer Science, Electrical Engineering and Information Technology

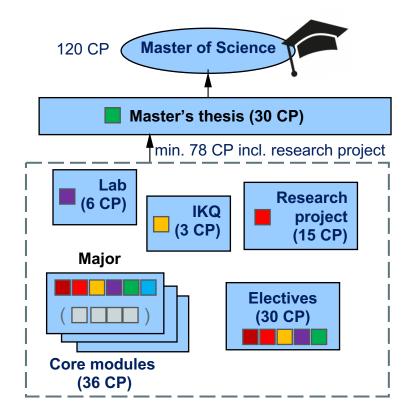
University Chairs at the Department of Electrical Engineering and Information Technology



STRUCTURE M.SC. EENG



120 Credits according to ECTS				
Master's Thesis	30 credits	6 months full-time min. 78 credits required to register		
Research Project	15 credits	In any R&D institution incl. industry		
Interdisciplinary Key Qualifications	3 credits	rf. Campus catalogue		
Lab	6 credits	1x 6 credit lab		
Elective Courses	30 credits	from full department portfolio		
Compulsory Courses	36 credits	6 out of topical major catalogue		



MAJORS IN M.SC. EENG AND M.SC. ETIT



M.Sc. EENG

Flectrical Energy Systems

Smart Information Processing

Ubiquitous Communication Systems

Nano- and Opto-Electronics

Power Electronics Systems and **Technologies**

Smart **Systems** **Electro-Magnetics Applications**



Elektrische Energiesysteme





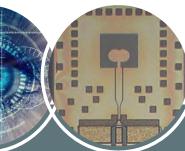


Nano- und Optoelektronik

Leistungselektronische Systeme und Technologien



Intelligente Sensoren



Hochfrequenztechnik

M.Sc. ETIT

Automatisierungs- und Regelungstechnik

ELEKTROTECHNIK UND INFO

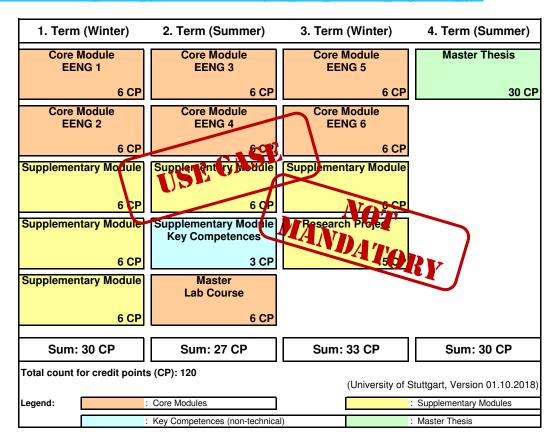


Program structure

Program Structure

https://www.uni-stuttgart.de/studium/studienangebot assets/electrical-engineering/pdf/Studienverlaufsplan MSc Electrical Engineering.pdf

- Free choice of order
- Each element must be fulfilled to obtain the M.Sc. degree
- Master thesis can be started when 78 ECTS credits incl. research project have been obtained
- Goal: approx. 30 ECTS per semester



Electives

- Build your individual knowledge profile using electives
- Choose from
- All courses offered in the EIT department and selected associated courses, including core modules of other majors
- Approved courses from other universities, e.g. in the frame of Erasmus
- Ask for recommended electives in your major by the reponsible professor

Individual Theses: Research Project and Master's Thesis

Landing pape https://www.f05.uni-stuttgart.de/en/ei/study-programs/thesis/





n > Department of Electrical Engineering > study programs > Thesis

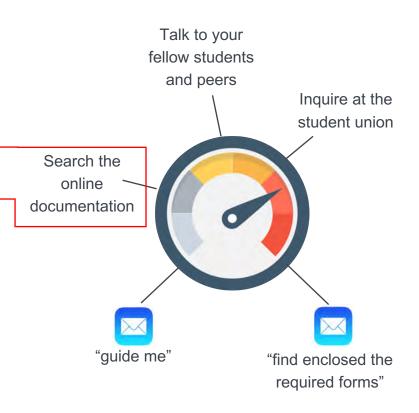


Student work in the bachelor's and master's program

The final thesis in a degree program of the Department of Electrical Engineering and Information Technology is carried out at an institute of the department. Here you can find information from the institutes about student theses.

In Case of Questions / Inquiries / Applications

- General questions on enrollment, visa, legal issues etc.
 - Contact the admissions office: https://www.uni-stuttgart.de/en/study/application/admissions-office/
- Issues concerning the course of studies
 - Check out https://www.f05.uni-stuttgart.de/en/ei/study-programs/eeng/ first!
 - Contact the Study office of Electrical Engineering and Information Technology: info@ei.uni-stuttgart.de
- Applications for recognition of elective courses from other degree programmes, (justified) prolongation of bachelor/master theses, ...
 - Contact the chair of the examination board: pav@ei.uni-stuttgart.de
 - Note: such applications require a justification: https://www.f05.uni-stuttgart.de/en/ei/department/forms/



...and how about the inclusion and connection to industry?

- Many guest lectures from industry can be taken as electives
- Participation in R&D projects with partner companies at the institutes in the frame of student helper contracts
- Field trips, lectures, seminars, conferences a.m.m.
- Study thesis (15 ECTS in M.Sc.) can be performed either at a university institute or in industry, also abroad
- Bachelor- and Master's theses* in the frame of cooperations between the department's institutes and companies are available in Germany and abroad

*the definition of the content and supervision of the thesis must be carried out by a professor from the Department of Electrical Engineering and Information Technology. Content definition and supervisory approval by a professor in the department must be obtained before the thesis is started.

Dean's Lunch

- Meet and discuss with the dean of students over the lunch break
- Infos on ILIAS Introduction M. Sc. Electrical Engineering



Dean' Lunch Sessions Summer Term 2025				
Session	Focus topics	Date	Room	
1	Course registration, weekly schedule, introduction to Campus and ILIAS	Wednesday, April 23	Faculty room, ETI1 4.282	
2	Exam registration	Wednesday, May 14	Aquarium, ETI1 -1.010	
3	Finding topics and places for research projects and master's thesis	Wednesday, June 4	Laura's Lab, ETI2 01.311	

Mailing Lists of the Department of Electrical Engineering and Information Technology

- ► EI-Firmen Internships, job offers, events, excursions etc. from selected partner companies
- EI-Studiendekan News and information directly from your Dean of Studies
- ➤ <u>EI-International</u>
 Information about your opportunities for spending time abroad during your studies
- EI-Hiwi
 Student assistant (Hiwi) job offers at the Department of Electrical Engineering and Information Technology
- ► <u>EI-Diversity</u> Information, news and offers on the topics of equality and diversity
- International Service Point (ISP) Fakultät 5
 Monthly mailing on news and activities for foreign students of Faculty 5





Congratulations, Graduates!



Summer Colloquium with Graduation Ceremony Alte Reithalle Stuttgart, May 2024





http://www.emotions-stuttgart.de/





Thank You!



Ingmar Kallfass

E-Mail ingmar.kallfass@ilh.uni-stuttgart.de

phone +49 (0)711 685-68747 fax +49 (0)711 685-58747

University of Stuttgart
Institute of Robust Power Semiconductor Systems
Pfaffenwaldring 47, 70569 Stuttgart, Germany
www.ilh.uni-stuttgart.de











Viel Erfolg und eine gute Zeit in Stuttgart





Introduction for the New Students

Student Council of the Electrical Engineering and Information Technology Department

March 31, 2025

Time Schedule for Today

- 12:30 Pancakes with the Student Council
- 13:30 Campus Tour (in English)

Who Are We?



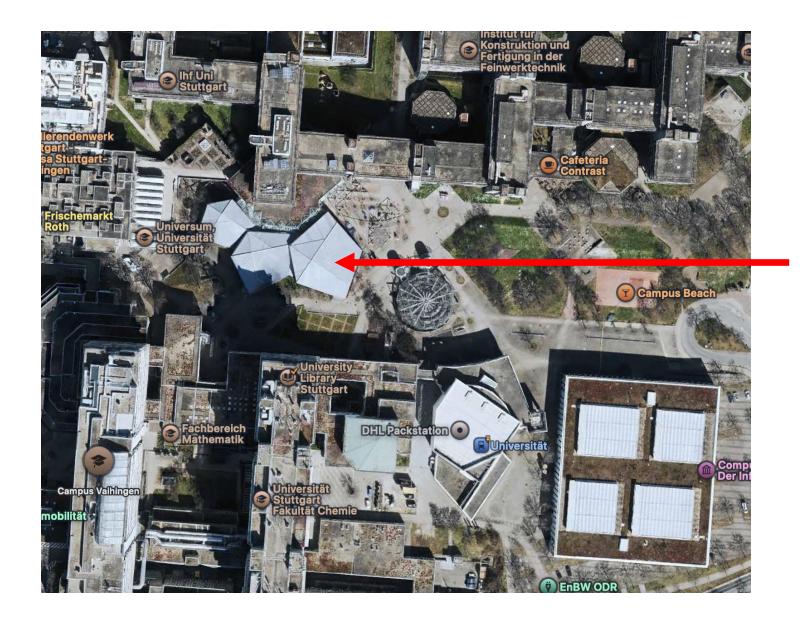
What We Do?

- Represent the Interests of Students
- Offer Guidance and Support for Student Issues
- eMotions Party*
- Plan Excursions
- Manage Lockers
- Supervise StudLab
- Offer EE Merch

*Sidenote: The Best University Party.

Upcoming Events

- April 7: Start of the Lectures
- May 9: Spacenight (Aerospace Eng. Party)
- July 3: Bauigelfest (Civil Eng. Party)
- October 24: eMotions (Electrical Eng.)



We are here.

eMotions 2025 (October 24)



StudLab

- Administered by the Student Council
- Supervised by Prof. Kalfass
- Made for Personal Projects
- Equipment
 - 3D Printer
 - Soldering Workstation
 - Measuring Equipment
- Sign Up Online www.studlab.de

Merch

- Hoodies and T-Shirts
- Currently for Preorder
- www.fs-ei.de/merch



Other University Offers

- Studium Generale
- University Sports (Allgemeiner Hochschulsport)
- Language Courses
- Student Associations
 - Student Small Satellite Group (KSAT)

CAMPUS IT

- WIFI via eduroam
- Uni-VPN
- Student Licenses for Software
- Unidays (Discounts on Many Products)
- Managed by TIK
 - www.tik.uni-stuttgart.de

Student Newsletter and Instagram



fs-ei.de/en/services/mailing_list/2025_ese



instagram.com/fachschaft_ei

Join Us!

- Meetings every Monday at 13:05
- Contact: info@fs-ei.de