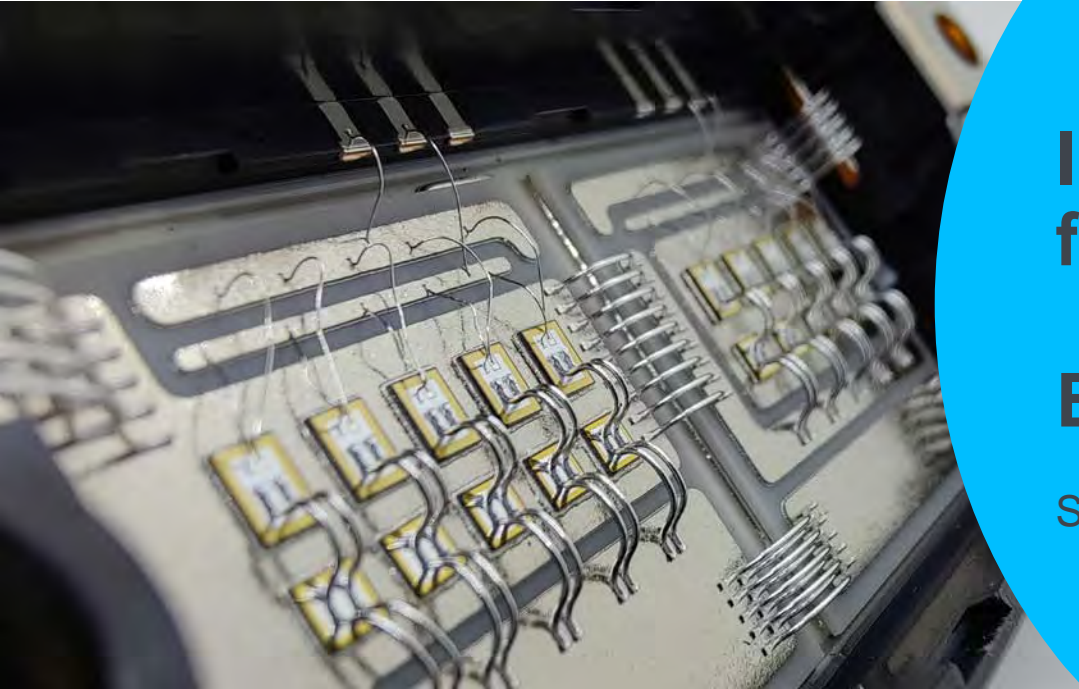


**Universität Stuttgart**

Faculty 5: Computer Science, Electrical Engineering  
and Information Technology



**Info-Session  
for M.Sc. Program**

**Electrical Engineering**

September 14, 2023

# Speakers



**Laura Busch**  
**M.A.**

Coordinator of the  
International Service Point  
(ISP) of Faculty 5



**Meta Geisbüsch**  
**LL.M.**

Coordinator of the  
International Service Point  
(ISP) of Faculty 5



**Prof. Dr.-Ing.**  
**Ingmar Kallfass**

Dean of Undergraduate  
and Graduate Studies of  
Faculty 5

Director of the Institute of  
Robust Power  
Semiconductor Systems



**Saloni Adana B.Eng.**

Student M.Sc. EENG (2nd  
year), specialization:  
Power Electronics

# Agenda

## **The University of Stuttgart and the M.Sc. Electrical Engineering – an Introduction**

Meta Geisbüsch & Prof. Dr.-Ing. Ingmar Kallfass

## **Support for Our International Students**

Laura Busch & Virginie Herbasch

## **From a student's point of view**

Saloni Adana

## **Q&A**

Prof. Dr.-Ing. Ingmar Kallfass | Saloni Adana | Laura Busch & Meta Geisbüsch and colleagues

# Why should you come to the German Southwest?



**STUTT GART**

- High quality of academia and research
- Strong economic region with numerous global players and hidden champions (sme's)
- Close link to industry
- 11% of population of Baden-Württemberg is international
- High standard of living (cultural offers, outdoor activities, safety...)



➤ Find out more about [our region...](#)

**Why the University of Stuttgart  
is an excellent choice!**

## Facts & Figures

- About 21,000 students enrolled at 10 faculties
- 270 full professors
- Around 5,000 (non-) academic staff in total
- Cooperation with a large number of external research institutions & industry partners
- 6 Collaborative Research Centers
- 2 Clusters of Excellence

## An International profile

- About 5.300 international students from more than 100 countries
- 16 English conducted Master's programs, 4 of them offered at Faculty 5
- More than 500 partner universities throughout the world
- International Center for Cultural and Technological Studies





## Awards & Rankings

- Top 200 Universities Worldwide (THE Reputation Ranking)
- World-renowned disciplines: top 125 engineering, top 175 computer, top 175 life, top 300 humanities, top 400 natural sciences (THE Ranking)
- 4 study programs in top 150 universities worldwide (Shanghai Ranking -GRAS)
- Very good results in the CHE Master Ranking, U-Multirank and QS World University Ranking

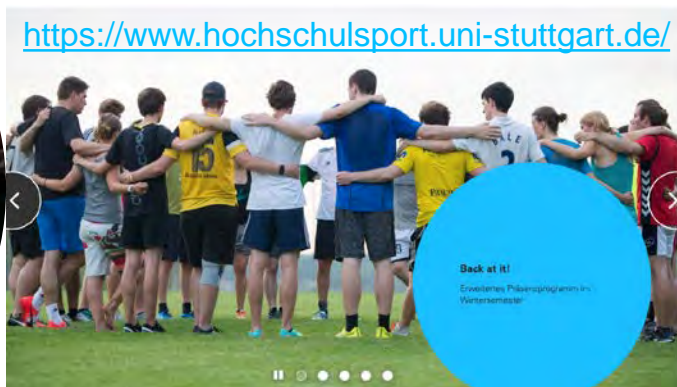
# Leisure activities and opportunities for students to get involved...



<https://www.unimusik.uni-stuttgart.de>



<https://www.greenteam-stuttgart.de>



<https://www.hochschulsport.uni-stuttgart.de/>

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



<http://studlab.ei.faveve.uni-stuttgart.de/>

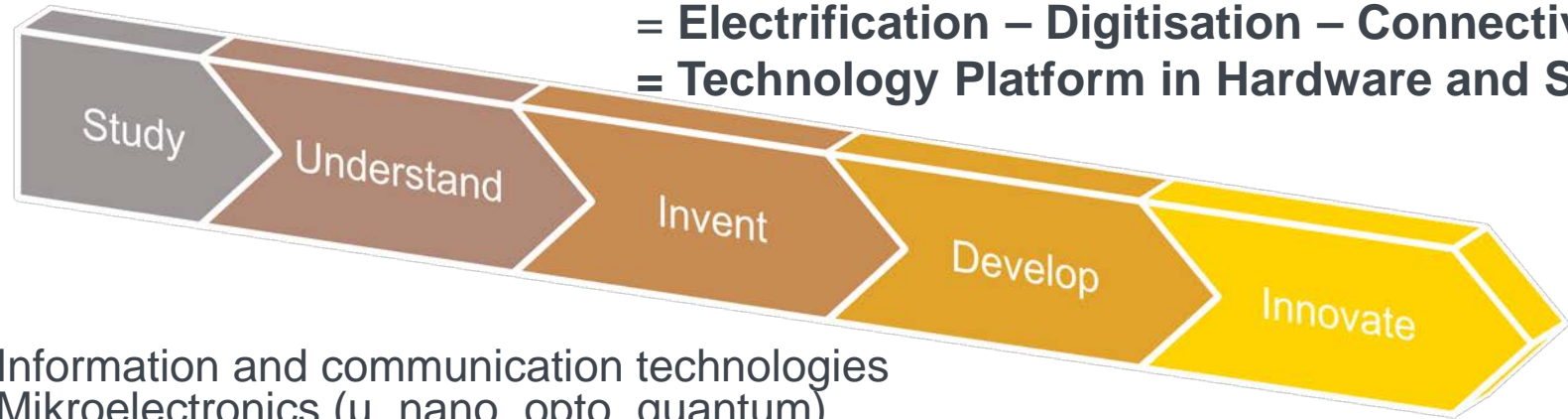


# **Why Electrical Engineering?**

**Name a system which is not electrified, digitized and connected  
...or that doesn't try to become so**



M.Sc. Electrical Engineering  
= **Electrification – Digitisation – Connectivity**  
= **Technology Platform in Hardware and Software**



- Information and communication technologies
- Mikroelektronics ( $\mu$ , nano, opto, quantum)
- eMobility (power electronics, autonomous driving, ...)
- Energy (renewable energies, smart grid, ...)
- Machine learning, artificial intelligence
- Sensing (medical, industrial, consumer, ...)
- ...

# R&D REGION STUTTGART

**Excellent  
Career Opportunities**



and many more large corporations  
& numerous innovative small & mid-sized companies...



and many more research societies...

**Introduction to the  
M.Sc.  
Electrical Engineering**



Universität Stuttgart  
Faculty 5: Computer Science, Electrical Engineering  
and Information Technology

## Facts and Figures | Dept. Electrical Engineering and Information Technology

**1,500**  
STUDENTS

**6**  
STUDY  
PROGRAMS

**15**  
INSTITUTES

**18**  
PROFESSORSHIPS

**4**  
LOCATIONS





**Universität Stuttgart**  
Faculty 5: Computer Science, Electrical Engineering  
and Information Technology

# University Chairs at the Department of Electrical Engineering and Information Technology



**IIS Prof. Dr.**  
Jens Anders



**IPV Prof. Dr.-Ing.**  
Peter Birke



**INES Prof. Dr.-Ing.**  
Joachim Burghartz



**IGM Prof. Dr.-Ing.**  
Norbert Frühauf



**IHF Prof. Dr. sc. techn.**  
Jan Hesselbarth



**ILH Prof. Dr.-Ing.**  
Ingmar Kallfass



**IKR Prof. Dr.-Ing.**  
Andreas Kirstädter



**IAS Prof. Dr.-Ing.**  
Andrey Morozov



**IEW Prof. Dr.-Ing.**  
Nejlila Parspour



**IEH Prof. Dr.-Ing.**  
Krzysztof Rudion



**IPV Prof. Dr.**  
Michael Saliba



**INT Prof. Dr.-Ing.**  
Georg Rademacher



**ILEA Prof. Dr.-Ing.**  
Jörg Roth-Stielow



**INÜ Prof. Dr.-Ing.**  
Stephan ten Brink



**IEH Prof. Dr.-Ing.**  
Stefan Tenbohlen



**IAS Prof. Dr.-Ing.**  
Michael Weyrich



**ISS Prof. Dr.-Ing.**  
Bin Yang



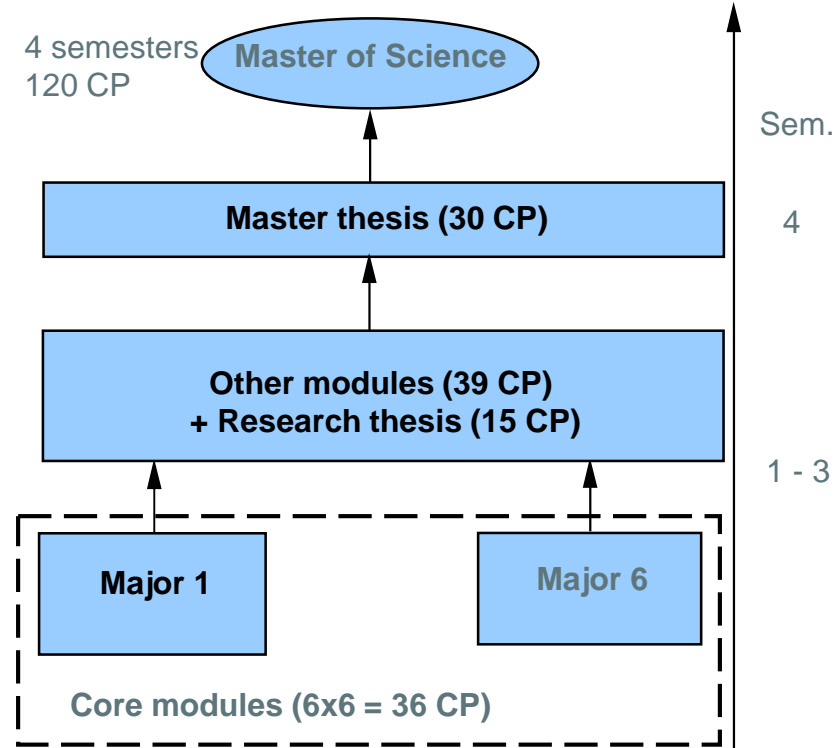
**IHT vacant**



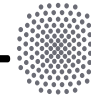
# Structure M.Sc. EENG



120 Credits according to ECTS		
Master's Thesis	30 credits	Typ. 6 months min. 78 credits required to register
Research Thesis	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



University of Stuttgart  
Germany

## M.Sc. EENG

Smart Information  
Processing



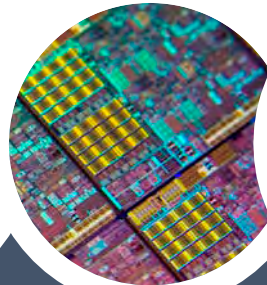
Intelligente  
Informations-  
verarbeitung

Ubiquitous  
Communication  
Systems



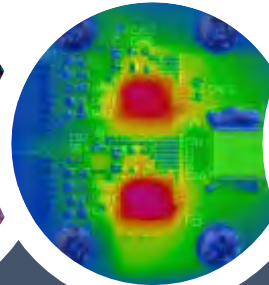
Universelle  
Kommunikations-  
systems

Nano- and Opto-  
Electronics



Nano- und Opto-  
elektronik

Power Electronics  
Systems and  
Technologies



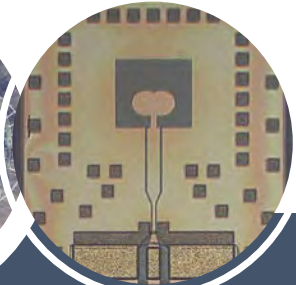
Leistungs-  
elektronische Systeme  
und Technologien

Smart  
Sensors



Intelligente  
Sensoren

Electro-Magnetics  
Applications



Hochfrequenz-  
technik

Elektrische  
Energiesysteme



## M.Sc. ETIT

Automatisierungs- und  
Regelungstechnik



## ...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**.

# Congratulations, Graduates!



Summer Colloquium with Graduation Ceremony  
Alte Reithalle Stuttgart, May 2023



University of Stuttgart  
Institute of Robust Power Semiconductor Systems

Thank You!



Ingmar Kallfass

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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](http://www.ilh.uni-stuttgart.de)



We look forward to  
welcoming you  
next April  
in Stuttgart!



**Support for our  
international students**

# Challenges and opportunities of University Studies



**High degree of self-reliance**



**Large range of electives**



**Early integration in research**

**Studies abroad**



**...and many more**

# We are here to help you!

## INTERNATIONAL OFFICE

- [Central point of contact for international students](#)

Offers a wide range of services and support for international students, e.g.:

### **Before arrival**

- [Helpful information](#) such as Checklists, How to-Videos, Presentations, etc.
- [\(Online\) Pre-departure sessions](#)
- [Online Introductory Course “Get your studies off to a perfect start”](#) with tips & tricks for new international students

### **After arrival**

- [Buddy Program “ready.study.stuttgart” \(arrival support\)](#)
- [Orientation Program](#)
- [Intercultural Mentoring Program](#)



## INTERNATIONAL SERVICE POINT F05

- First point of contact for (prospective) international students interested in / enrolled at *Faculty 5: Computer Science, Electrical Engineering & Information Technology*
- Events & networking activities – in close cooperation with the International Office, Student representatives, etc.
- Stay informed! Important news on the [ISP-website](#) & LinkedIn (e.g. on events, German language courses, etc.) and mailings





## Extensive support for international students at Faculty 5



Personal counseling & support before, during and after your studies by the International Service Point (ISP) of Faculty 5



Guaranteed spots for study-related German language courses (DaF, German as foreign language) for enrolled international students (*for free!*)



Social activities such as semester opening, international days, career planning workshops, buddy/mentoring programs, company visits, welcome packages, and much more!

# 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.
- Tasks: 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/>





Universität Stuttgart

Fakultät 5: Informatik,  
Elektrotechnik und Informationstechnik

## Stay abroad during the study of Electrical Engineering and Information Technology

### Exchange programs

Erasmus+: 32 partnerships in 9 countries

Other exchange programs: worldwide

- Exemption from the tuition fees at the partner university
- Support before and during your stay
- Application about 1 year before the planned stay
- Funding opportunities (Erasmus+ scholarship ...)
- Recognition of the study achievements after consultation with the Department



Contact:  
Ms. Virginie Herbasch  
[erasmus@ei.uni-stuttgart.de](mailto:erasmus@ei.uni-stuttgart.de)



# Upcoming events for M.Sc. EENG

## **Pre-Departure Session** (organized by the university's International Office)

- February 2024 - for students starting their studies in April, 2024
- Information will be published on [IO's website](#) → [registration](#)

## **Guidance on Formalities** (organized by the university's International Office)

- Info-session every two weeks, March/April 2024 → [Registration](#)

## **Introductory events for first-semester students, e.g. Living & Studying in Stuttgart for Newbies**

- week before lecture start (April 8, 2024) → [more information](#)

## **Open Virtual Q&A session** (organized by International Service Point Faculty 5)

- **March 2024** → Meeting room: <https://unistuttgart.webex.com/meet/meta.geisbuesch>
- For newly enrolled students of English-conducted Master's programs of Faculty 5

## **Introductory event for M.Sc. EENG (hybrid)**

- **Monday, April 8, 2024, 11:30 am**

# Why the University of Stuttgart?

High quality in  
research and  
teaching

Strong  
international  
focus

Personal  
support from  
the start

Free German  
language  
courses

Excellent  
job opportunities

Career fairs  
and company  
visits

Inclusion of  
and  
connection to  
industry

# From a student's point of view



**Saloni from India**  
2nd year



**Universität Stuttgart**

Faculty 5: Computer Science, Electrical Engineering  
and Information Technology



**Vielen Dank!**

**Thank you!**



**Meta Geisbüsch**

[Follow Meta](#)  
**on LinkedIn**

## **International Service Point (ISP) | Faculty 5**

E-Mail: [internationalstudents@f05.uni-stuttgart.de](mailto:internationalstudents@f05.uni-stuttgart.de)

Website: <https://www.f05.uni-stuttgart.de/en/faculty/international-students/>

University of Stuttgart  
Pfaffenwaldring 47  
70569 Stuttgart



**Laura Busch**

[Follow Laura](#)  
**on LinkedIn**