



B.ENG. INTERNATIONAL ELECTRICAL ENGINEERING (IEE)

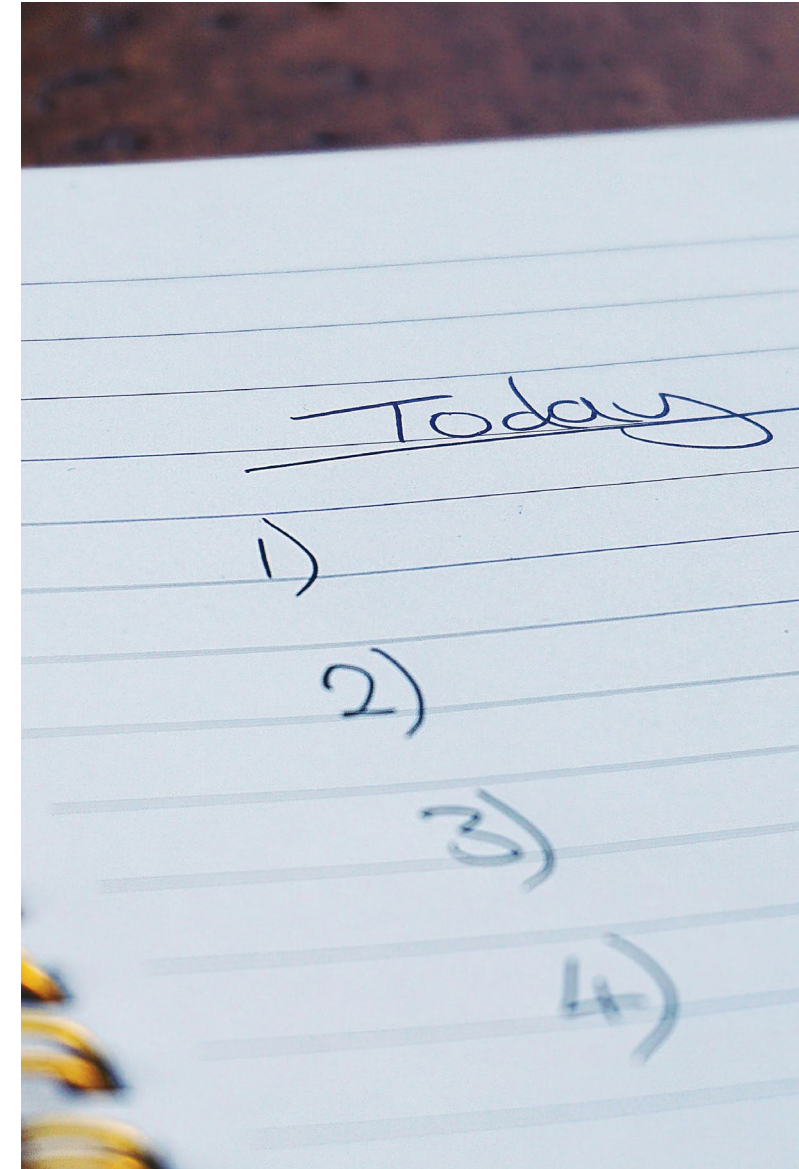
OSTBAYERISCHE TECHNISCHE HOCHSCHULE
REGENSBURG

FACULTY OF ELECTRICAL ENGINEERING AND
INFORMATION TECHNOLOGY (EI)

International Electrical Engineering

Agenda

1. Regensburg, OTH Regensburg, Faculty of Electrical Engineering and Information Technology
2. B.Eng. International Electrical Engineering
3. Application / Timeline
4. Questions



International Electrical Engineering

Regensburg – A vibrant city!



International Electrical Engineering

Regensburg – A vibrant city!

- City in Eastern Bavaria
- The medieval city center is a UNESCO World Heritage
→ biggest medieval city site north of the alps
- Population: ~155,000
of which ~ 35,000 students



International Electrical Engineering

OTH Regensburg – Campus



International Electrical Engineering

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International Electrical Engineering

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International Electrical Engineering

OTH Regensburg – General Information

- >10,000 students
- >240 professors
- 60 study programs
- 120 laboratories

“Bavaria's most popular university”
(Studycheck.de, 2022)



International Electrical Engineering

Faculty EI by numbers



33

Professors,
>50 staff members,
>50 external
lecturers



10

Courses of Study



1,200

Students from
>30 countries



33

Laboratories on
>4,000 m²

International Electrical Engineering

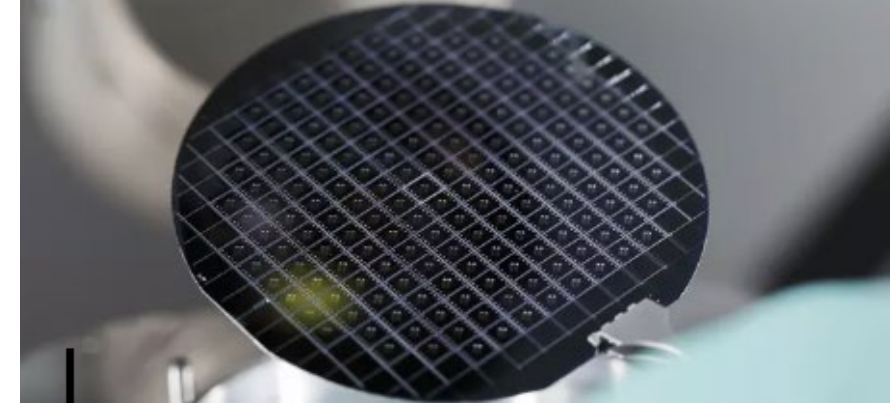
Faculty EI study programs

- **Bachelor's degree programs**

- International Electrical Engineering
- Electrical Engineering and Information Technology
- Intelligent Systems Engineering
- Mechatronics
- Renewable Energy Engineering and Energy Efficiency

- **Master's degree programs**

- Applied Research in Engineering Science
- Electrical Engineering and Information Technology
- Electromobility and Power Electronics
- Electrical and Microsystems Engineering
- Automotive Electronics



Overview

Target Group



Internationals and
Germans

Languages



- German \geq A2,
English \geq B1 required
- Lectures taught in English
(semesters 1-5) and
German (semesters 5-8)

Degree



- Degree: Bachelor of
Engineering (B.Eng.)
- Type of study: full-time

8 Semesters, 240 ECTS



- 210 ECTS Electrical
Engineering curriculum
- 30 ECTS language training
(spread over 5 semesters)
- Duration: 4 years

Fees



- No tuition fees (only a
201 € registration fee per
semester)
- Service fee for non-EU
students: 500 € per
semester

Starting dates



- First start on
October 1st, 2025
- Every winter term
- Welcome week in October!

International Electrical Engineering

Study plan

Semester											240 ECTS	179 SWS
1	Mathematics 1		Computer Science 1		Electrical Engineering 1.1		Physics		Digital Electronics		Language Track 1	
	6	6	6	6	4	4	5	4	5	4	5	4
2	Mathematics 2		Computer Science 2		Electrical Engineering 1.2		Mechanical Engineering		Material Science		Language Track 2	
	6	6	5	4	5	4	5	4	5	5	5	4
3	Mathematics 3		Electrical Measurements 1		Electrical Engineering 2		Electronic Components				Language Track 3	
	5	4	5	4	8	8	5	4			6	6
4	Electrical Measurements 2		Computer Architecture		Signals and Systems		Analog Circuit Design				Language Track 4	
	6	6	6	6	9	8	5	4			6	6
5	Control Engineering		Electrical Energy Conversion and System Technology		Fields, Waves and Transmission Lines		Electronic Lab Courses		Language Track 6		Language Track 5	
	5	4	6	6	5	4	5	4	3	2	5	4
6	Internship				Internship Seminar		Mandatory general studies elective module		Mandatory general studies elective module		Mandatory general studies elective module	
	20		0		2		2		2		2	
7	Mandatory subject specific elective module		Mandatory subject specific elective module		Mandatory subject specific elective module		Mandatory subject specific elective module		Mandatory subject specific elective module		Mandatory subject specific elective module	
	5	4	5	4	5	4	5	4	5	4	5	4
8	Mandatory subject specific elective module		Mandatory subject specific elective module		Mandatory subject specific elective module		Bachelor's thesis		Bachelor's thesis presentation			
	5	4	5	4	5	4	12	0	3	0		
ECTS SWS											30	12

Teaching Language **English**

Teaching Language **English or German**

Teaching Language **German**
(individual modules may be offered in English)

International Electrical Engineering

Study plan

Semester											240 ECTS	179 SWS						
1	Mathematics 1		Computer Science 1		Electrical Engineering 1.1		Physics		Digital Electronics		Language Track 1		31	28				
	6	6	6	6	4	4	5	4	5	4	5	4						
2	Mathematics 2		Computer Science 2		Electrical Engineering 1.2		Mechanical Engineering		Material Science		Language Track 2		31	27				
	6	6	5	4	Basic Lectures in Electrical Engineering and Information Technology				5	4	5	4						
3	Electrical Measurements 1		Computer Architecture		Signals and Systems		Analog Circuit Design				Language Track 3		29	26				
	5	4	5	4	8	8	5	4			5	4						
4	Electrical Measurements 2		Computer Architecture		Signals and Systems		Analog Circuit Design				Language Track 4		32	30				
	6	6	6	6	9	8	5	4			6	6						
5	Control Engineering		Electrical Energy Conversion and System Technology		Fields, Waves and Transmission Lines		Electronic Lab Courses		Language Track 6		Language Track 5		29	24				
	5	4	6	6	5	4	5	4	3	2	5	4						
6	Internship/Industrial Placement, Seminar, General elective modules										Mandatory General Elective Module 1		Mandatory General Elective Module 2		Mandatory General Elective Module 3		28	8
	20		0		2		2		2		2		2		2			
7	Mandatory subject specific elective module		Mandatory subject specific elective module		Mandatory subject specific elective module		Mandatory subject specific elective module		Mandatory subject specific elective module		Mandatory subject specific elective module		30	24				
	5	4	5	4	5	4	5	4	5	4	5	4						
8	Mandatory subject specific elective module		Mandatory subject specific elective module		Mandatory subject specific elective module		Bachelor's thesis		Bachelor's thesis presentation				30	12				
	5	4	5	4	5	4	12	0	3	0								
	ECTS		SWS															

Basic Lectures

in Electrical Engineering and Information Technology

Language Courses and International Competences

Internship/Industrial Placement, Seminar, General elective modules

Advanced Subjects and Bachelor's thesis

Teaching Language English

Teaching Language English or German

Teaching Language German
(individual modules may be offered in English)

Language Tracks

Language Track A (LTA)

German as a foreign language (DaF)

- **4 semesters DaF**
 - B1 2x 5 ECTS
 - B2 2x 6 ECTS
- In 5th semester: Supplementary language training on job applications and working life in Germany

2 Language Tracks



- LTA: International prospective students (German A2 or B1)
- LTB: Prospective students with advanced German language skills \geq B2

Common compulsory module in 5th semester

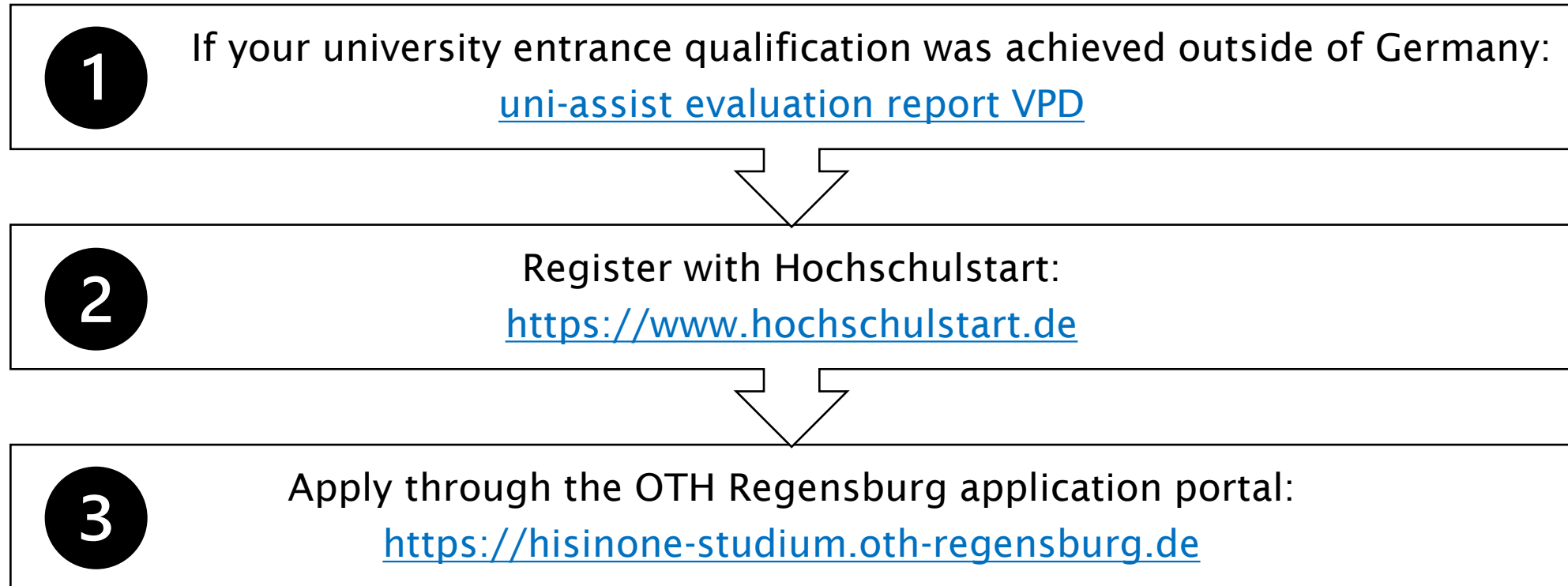
Technical German, Technical English, Scientific Writing 3 ECTS

Language Track B (LTB)

Foreign languages, international and intercultural skills

- Largely freely selectable modules from Language Program segment
- Up to 15 ECTS freely selectable modules from the international or intercultural area

Application



Deadline: July 15

Required Documents:

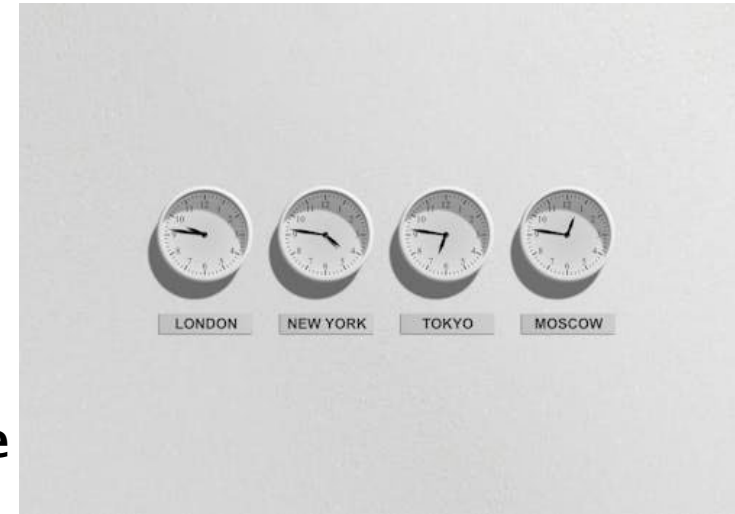
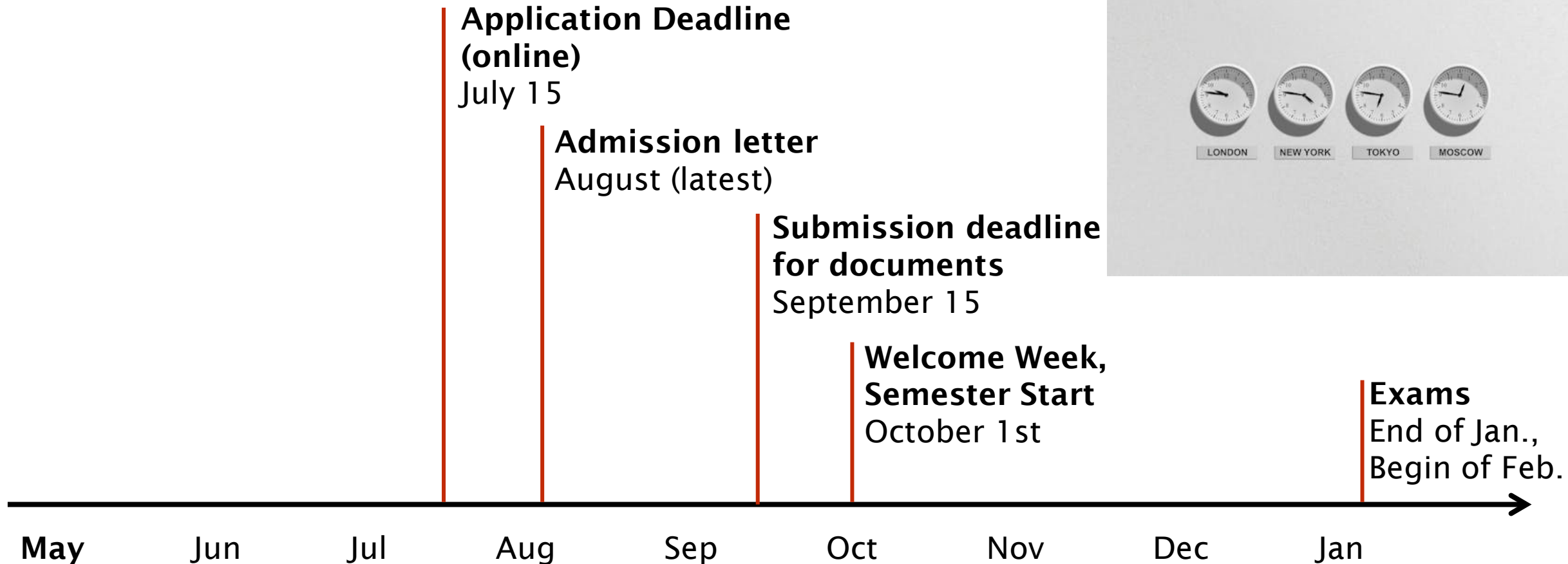
1. **University entrance qualification**
2. **University entrance qualification outside of Germany: VPD from Uni-Assist**
 - VPDs issued for other universities are also accepted; valid for 12 months
3. **Proof of sufficient English language skills:** at least level B1 (B2 is recommended)
 - IELTS, TOEFL, Cambridge English, TELC, native speaker
4. **Proof of sufficient German language skills:** at least level A2
 - Goethe (A2), Telc (A2), ÖSD (A2), DSD (Level I)

[Information on the Application](#) + [see course Website](#)



International Electrical Engineering

Timeline



Look for accommodation early!!! → [Living in Regensburg](#)
Late arrival is possible for Visa difficulties through hybrid/online lectures



Prof. Dr. Anton HORN



Prof. Dr. Johannes RESCHKE

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International Electrical Engineering

Links

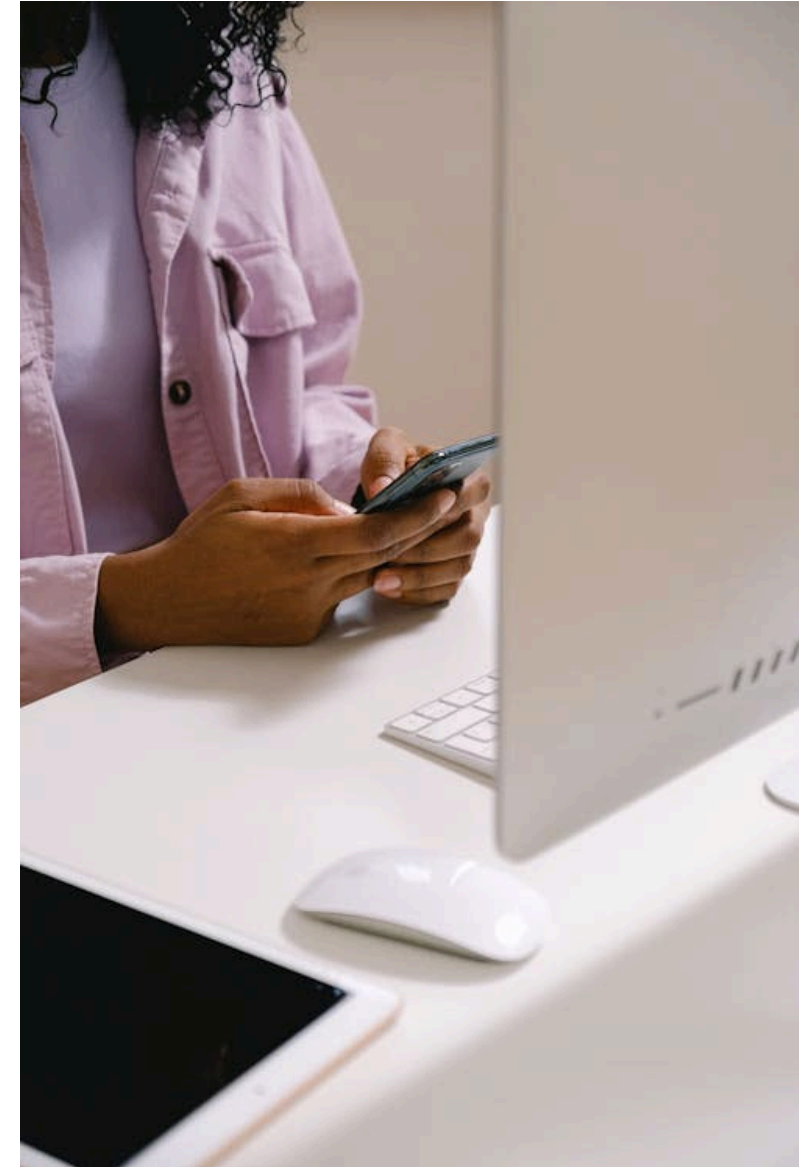
[Information on the Application](#)

[Course Website](#)

[Living in Regensburg + Accommodation Tips](#)

[OTH International Office](#)

[YouTube: OTH International](#)



International Electrical Engineering

Questions



How to Study in Germany. An Introduction to German Academic Life

Free course for everyone <https://open.vhb.org/blocks/occoursemetaselect/detailpage.php?id=133>

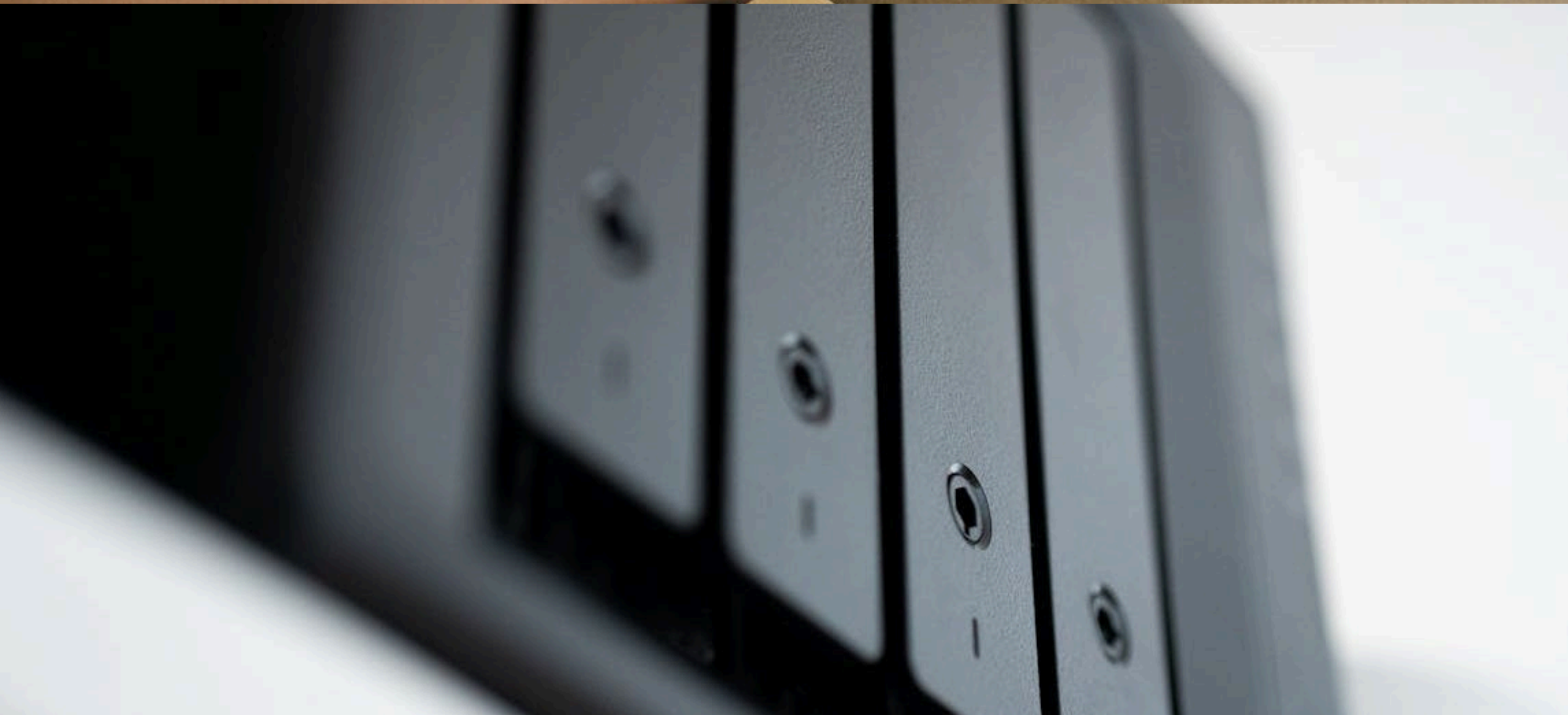
Among others, the course will address the following questions:

- What types of universities exist in Germany?
- How should I prepare to go to Germany?
- What do I have to do upon arrival?
- What is expected of a student in Germany?
- What types of classes and exams will I take?
- How should I communicate with faculty, staff, and my peers?
- Which German words are important to know?
- How can I get involved outside of class?



International Electrical Engineering

Backup



Credit Transfer

- **After enrolment**, you have the possibility to transfer previously attained credits to the IEE course
- The underlying formal process is called a credit transfer request. It will be explained during the welcome week (first week of the semester) and can only be done after enrolment



International Electrical Engineering

Example 1 for Language Tracks

Semester	Language Track A		Language Track B		Language Track B	
	German as a Foreign Language	A & B both	Foreign Languages with/without pre-knowledge	Additional intern. Competences		
1	LT1 A: DaF B1.1		LT 1 B: Spanish A1			
	5	4	5	4		
2	LT2 A: DaF B1.2		LT 2 B: Spanish A2			
	5	4	5	4		
3	LT3 A: DaF B2.1		LT3 B: Chinese A1.1	Listening Skills for Science and Technology		
	6	6	5	4	2	2
4	LT4 A: DaF B2.2		LT4 B: Chinese A1.2			
	6	6	5	4		
5	LT5 A: DaF Application and working life	LT6 A&B Tech. German/English, Scientific Writing	LT5 B: Chinese A2.1			
	5	4	5	4		
Sum	30		30			
	ects	SWS				

International Electrical Engineering

Example 2 for Language Tracks

Semester	Language Track A		Language Track B		Language Track B	
	German as a Foreign Language	A & B both	Foreign Languages with/without pre-knowledge	Additional intern. Competences		
1	LT1 A: DaF B1.1		LT 1 B: Czech A1.1			
	5	4			5	4
2	LT2 A: DaF B1.2		LT 2 B: Czech A1.2			
	5	4			5	4
3	LT3 A: DaF B2.1				Internationale Handlungskompetenz Zusatzstudium IHaKo	
	6	6			6	4
4	LT4 A: DaF B2.2				Internationale Handlungskompetenz Zusatzstudium IHaKo	
	6	6			6	4
5	LT5 A: DaF Application and working life	LT6 A&B Tech. German/English, Scientific Writing	LT5 B: Korean A1.1			
	5	4	3	2	5	4
Sum	30				30	
	ects	SWS				

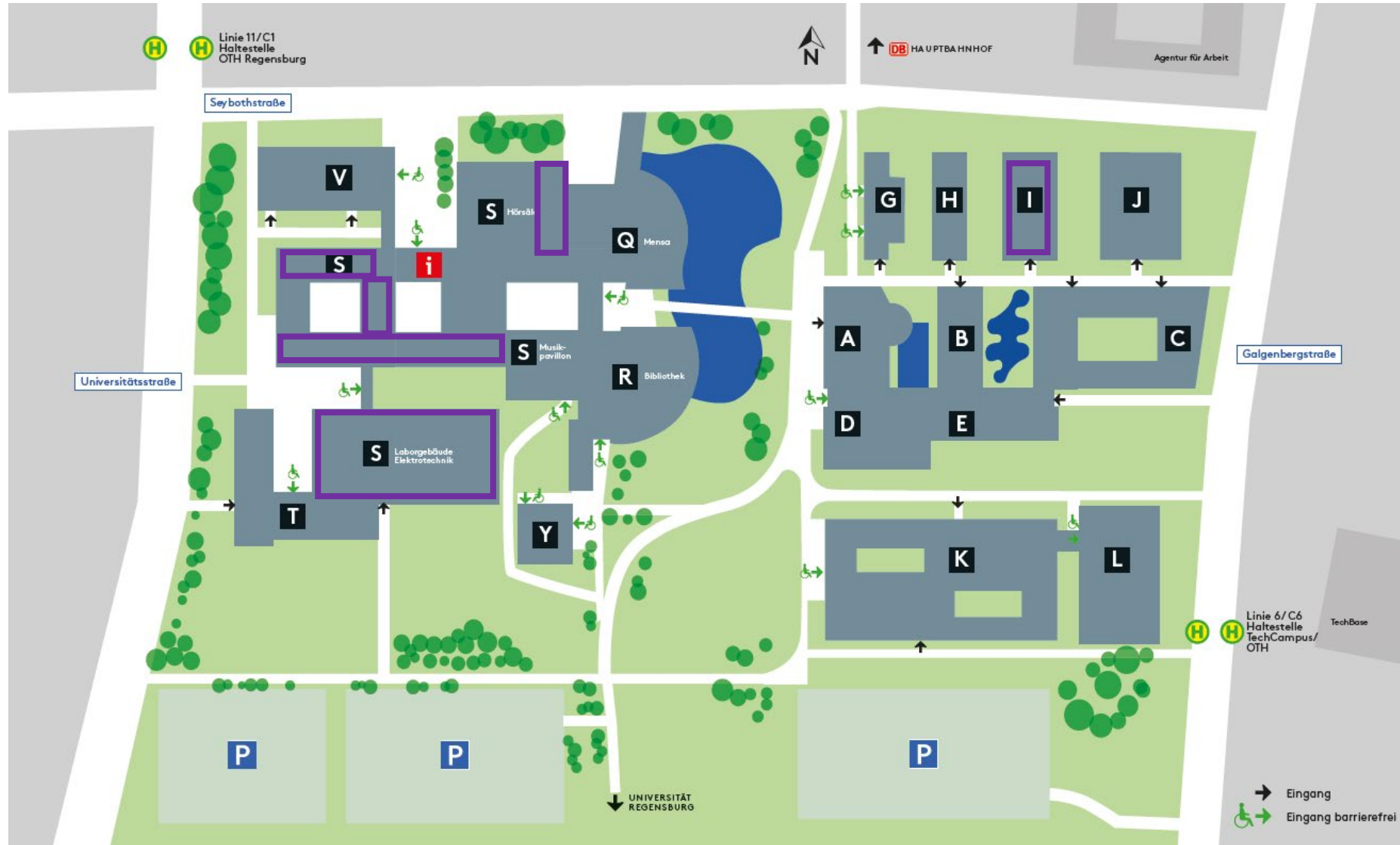
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Example 3 for Language Tracks

Semester	Language Track A		Language Track B		Language Track B	
	German as a Foreign Language	A & B both	Foreign Languages with/without pre-knowledge	Additional intern. Competences		
1	LT1 A: DaF B1.1		LT 1 B: Japanese A1.1			
	5	4	5	4		
2	LT2 A: DaF B1.2		LT 2 B: Japanese A1.2			
	5	4	5	4		
3	LT3 A: DaF B2.1		LT3 B: Business English I	The new Silk Road China and the world of the future		
	6	6	3	2	3	2
4	LT4 A: DaF B2.2		LT4 B: Business English II	Negotiation & meetings in an intercultural setting		
	6	6	3	2	3	2
5	LT5 A: DaF Application and working life	LT6 A&B Tech. German/English, Scientific Writing	LT5 B: Korean A1.1			
	5	4	5	4		
Sum	30		30			
	ects	SWS				

Faculty EI – Overview

OTH site-map



Offices and laboratories
of faculty EI

Additional laboratories
in building
“Sammelgebäude” of
Regensburg University

Faculty EI – International

International Students

- > 20 Courses in English (not including IEE lectures)
 - Constantly growing range of courses
 - Levels: Bachelor and Master
- Welcome Events and Onboarding
- Student Body of Faculty EI (frequent events, tutors, ...)
- TechWomen EI
- Formula Student

Energy Storage

Encryption for Internet of Things (Selected Topics of Electrical Engineering 2)

Applications of Control Engineering

Advanced Course on Measurements and Sensor Technology

Optoelectronics

Electrical Machines

Electronic Circuits and Systems



Faculty EI – Study

Doctoral Programs

- > 30 PhD students
- PhD Centers partnering with TH Nuremberg and HS Munich:
 - Center for Applied Computer Science
 - Center for Physical and Biomedical Engineering
 - Center for Energy Technologies



Faculty EI – Research

Research Topics and Laboratories

- Regensburg Center of Energy and Resources (RCER)
- Regensburg Center for Artificial Intelligence (RCAI)
- Competence Centers
 - Laboratory for Safe and Secure Systems (LaS³)
 - Research Center for Energy Networks and Energy Storage (FENES)
 - Laboratory for Intelligent Materials and Structures
- >30 ongoing Research Projects (volume of appr. 15m €)
 - Public funding
 - Industry cooperations
- Research on Innovative Teaching

