

Studying Electrical Engineering and Information Technology B.Sc.

Ulm University of Applied Sciences

Webinar, summer semester 2024



Who we are

- Prof. Dr. Silko Kruse
 - Dean of Studies Electrical Engineering and Information Technology
- Prof. Dr. Roland Münzner
 - Dean of Studies Elektrotechnik und Informationstechnik
(“twin” study program taught in German language)
- [THU – Technische Hochschule Ulm – Ulm University of Applied Sciences](#)

Today's Agenda

1. Introduction
The current situation

2. About Ulm

4. Application and
Admission

3. The degree program
Electrical Engineering
and Information
Technology
(EET)



The current situation





Start of lectures in the winter semester: Tuesday, October 1st, 2024



The application portal of Hochschulstart is open.

For this winter semester the application period will end on July 15th.

About Ulm



Where to find us



Where to find us



The region of Ulm – what makes it unique

(still ...) the world's highest church spire.



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The region of Ulm – what makes it unique

Birth place of Albert Einstein.



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The region of Ulm – what makes it unique

Around 200.000 inhabitants in
Ulm and Neu-Ulm.

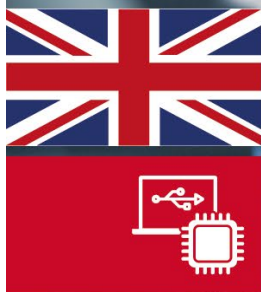


The region of Ulm – what makes it unique

Situated between Stuttgart and Munich, surrounded by the Swabian Alb (mountain area ideal for hiking and climbing) and directly on the Danube river.



The degree program **Electrical Engineering and Information Technology (EET)**



EET – Course Schedule

Electrical Engineering and Information Technology B. Eng.

7	Bachelor Thesis <small>Including seminar on guidance to scientific work</small>			Elective Module	Autonomous Driving	Project Management
6	Project Work <small>(Internal research projects at THU)</small>	Technical German B1	Elective Module	Distributed Systems	Electromagnetic Compatibility	
5	Internship (Engineering Project in Industry) <small>Including a preceding block course on advanced measurement technology and fundamentals in project management, as well as training in specifying requirements and in documenting and presenting technical results</small>				German A2 (2) <small>(block course before beginning of internship)</small>	
4	Electrical Machines and Drives	Control Theory	Softw. Engineering <small>(incl. project work)</small>	Digital Signal Processing	Sensors & Bus Systems	Power Electronics
3	Electronics	Systems Theory	Microcomputer Technology	Mathematical Methods in Electr. Engineering 2	Wired Communications	German A2 (1)

Basic Study Period

German A1 (2) Basic Level 2 (as a block course at the end of the second semester)						
2	Electrical Engineering 2	Communication Technology	Programming in C++ <small>(incl. project work)</small>	Digital Technology 2	Mathematical Methods in Electr. Engineering 1	Physics 2
1	Electrical Engineering 1	German A1 (1) Basic Level 1	Programming in C	Digital Technology 1	Mathematical Foundations	Physics 1

Compulsory Modules
 Elective Modules

EET – Outline of the Study Program 1/4

- English taught study program "Electrical Engineering and Information Technology" (EET) (*degree* Bachelor of Engineering, *duration* 7 semesters, *start* winter 2024/25, 210 credit points within the European Credit Transfer System (ECTS))
- Runs almost completely in parallel to its “twin version” taught in German language
 - Courses might be chosen individually in German or English language (local students and international students share courses!)
 - Some courses (in the German language study program) are exclusively taught in English
- Learning German language is an integral part of the study program (even though all courses are taught in English)
 - Enabling international students to live their social contacts in German language
 - Enabling intl. students to do parts of their technical work in German language (e.g. during internship or bachelor thesis)

EET – Outline of the Study Program 2/4

- Basic studies as well as core elements of the study program are entirely in parallel to the study program taught in German language
- Courses leading to specialization are taken from the **7 fields of specialization** available in the study program taught in German (one course from each field)
 - Specialization is aiming on providing **technology fundamentals for current trends in automotive industry** (e-mobility, connected car, advanced driver assistance systems, autonomous driving) especially in view of the numerous OEMs and suppliers having sites in close vicinity to THU
 - International students might chose – depending on their German language skills – alternative courses from the fields of specialization available in the German language study program (e.g. Automation, High Speed Electronics, Internet of Things, Power Electronics & Power Engineering, Vehicle Systems, Wireless Communications, Economy)

EET – Outline of the Study Program 3/4

7	Bachelor Thesis Including seminar on guidance to scientific work		Elective Course	Autonomous Driving	Distributed Systems	
6	Project Work (Internal research projects at THU)	Technical German B1	Elective Course	Project Management	Electromagnetic Compatibility	
5	Internship (Engineering Project in Industry) Including a preceding block course on advanced measurement technology, fundamentals in project management, as well as training in specifying requirements and in documenting und presenting technical results				German A2 (2) (block course before beginning of internship)	
4	Electric machines & drives	Control Theory	Software Engineering	Digital Signal Processing	Sensors & Bus Systems	Power Electronics
3	Electronics	Systems Theory	µComputer Technology	Mathematical Methods in Electrical Engineering	Wired Communications	German A2 (1)
2	Electrical Engineering 2	Communication Technology	Programming in C++	Digital Technology 2	Mathematics 2	Physics 2
German Basic Level 2 as a block course before starting the second semester						
1	Electrical Engineering 1	German Basic Level 1	Programming in C	Digital Technology 1	Mathematics 1	Physics 1

EET – Outline of the Study Program 4/4

- Attendance Time (in weekly hours, where 2h correspond to a 90min. lecture/lab block)

Semester 7 WiSe	Bachelor Thesis with Seminar		Elective 2	Project. Man.	Auton. Driv.	Main Study Program	
			4h	4h	4h		
Semester 6 SuSe	Project Work ET	Elective 1	Distrib. Sys.	EMC	German 4		
	6h	4h	4h	4h	4h		
Semester 5 WiSe	Internship				German 3		
	100 days				4h		
Semester 4 SuSe	Signal Proc.	Contr. Techn.	Electr. Mach.	Softw. Eng.	Power Elec.		Sens. & Bus
	4h	4h	4h	4h	4h		4h
Semester 3 WiSe	Maths EE 2	Sys. Theor.	Electronics	µComputer	Wired Com.		German 2
	4	4	4	4	4		4
Semester 2 SuSe	Maths EE 1	Physics 2	El. Eng. 2	Dig.Tech. 2	Prog. 2	Com. Tech.	
	6h	5h	5h	4h	6h	4h	
Semester 1 WiSe	Maths Basics	Physics 1	El. Eng. 1	Dig.Tech. 1	Prog. 1	German 1	
	6h	5h	6h	5h	6h	4h	
						Foundation Study Program	

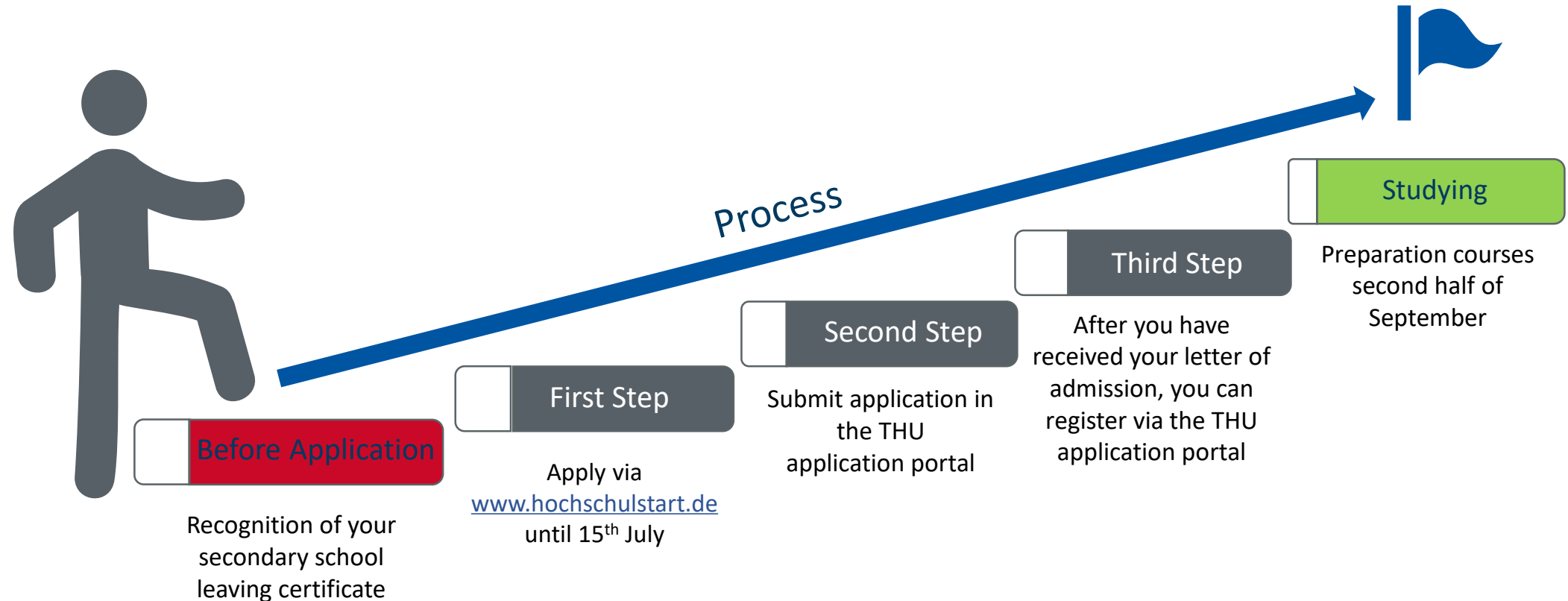
- Additional workload through self-study phases is becoming increasingly important in the main study program

- Preparation Course from September 16th until September 27th
 - getting to know each other and your German fellow students
 - first opportunity to form learning groups and networks
 - guided tour of the campus
 - use of the digital infrastructure at THU
 - use of the library, canteen,
 - explanation of the timetable
 - introduction to the subjects and lecturers of the first semester
 - getting to know important contact persons (secretary, dean, dean of studies, examination office,...)
 - refresher of school knowledge in mathematics
- ‘Buddy Program’ – Support from experienced German fellow students from higher semesters
- Support from professors and the International Office
- Possibility to enter a scholarship program in cooperation with a number of renowned partner companies during the main study program (i.e. starting from semester 3 onwards)

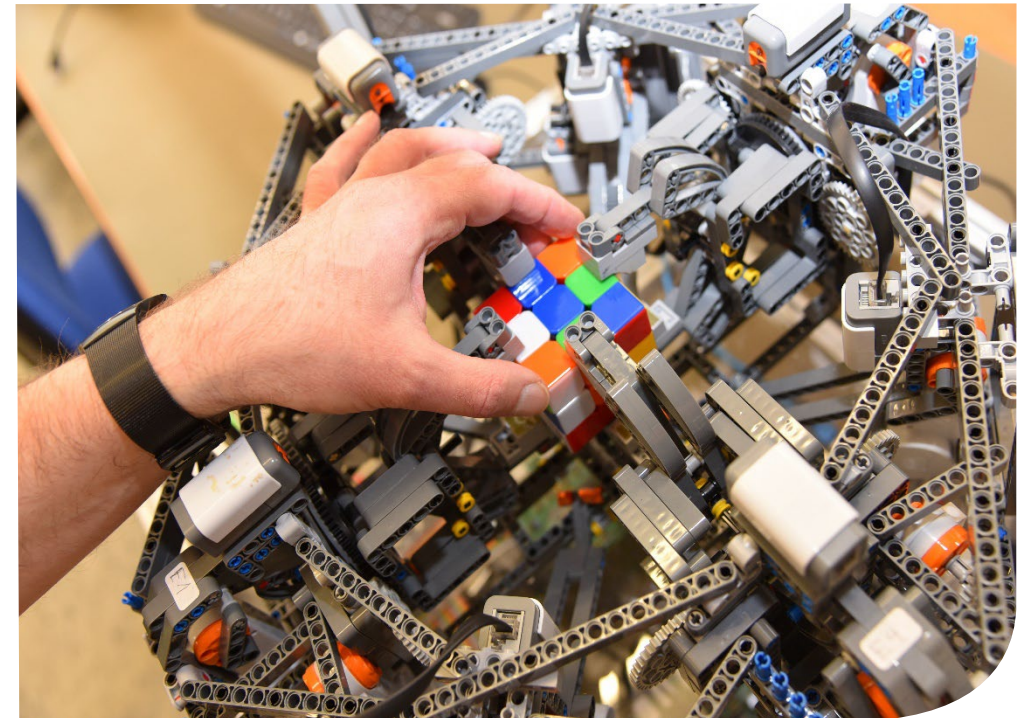
The academic year at THU – Winter Semester 24/25

Beginning of the winter semester	1st September 2024
Pre-courses	16th September – 27th September 2024
Introduction for freshmen	30th September 2024
First day of lectures	1st October 2024
Christmas break (no lectures)	23th December 2024 – 6th January 2025
Last day of lectures	24th January 2025
Examination weeks	27th January – 14th February 2025

How to become an EET student at Ulm University of Applied Sciences



Application and Admission




Recognition of your foreign higher education entrance qualification

Follow the link of [Studienkolleg Konstanz](#)

Application to have certificates recognized

To get your certificates recognized please send us the following documents by mail (Please note that we do not accept email application requests):

- Application file 
- Curriculum vitae
- A copy of your passport (no certification necessary)
- Certified copies of your certificates*
- Translations of your certificates, if they are not in English or French
- Certified copies of your German language proficiency level

Application for Recognition of Certificates

I am applying for Summer- / Wintersemester

I am applying for...

- a) Studienkolleg Konstanz b) Studienkolleg Duale Hochschule
c) a study program held entirely in English d) direct acces at a UAS
e) I am not sure yet

Field of study Bachelor
 Master

at the University of Applied Sciences

Personal data:

Surname

First name

Birth name

Date of birth (day/month/year)

Nationality

E-mail (please write clearly in

To be filled in by
Studienkolleg (03/22)

Eingang des Antrags:

Bew.-Nr.

- direkt / DSH
 direkt / FSP
 Zeugnisanerkennung

Language Certificate - Level B2 or higher



TOEFL - a score of 79 or higher



IELTS – a score of 6 (5.5) or higher



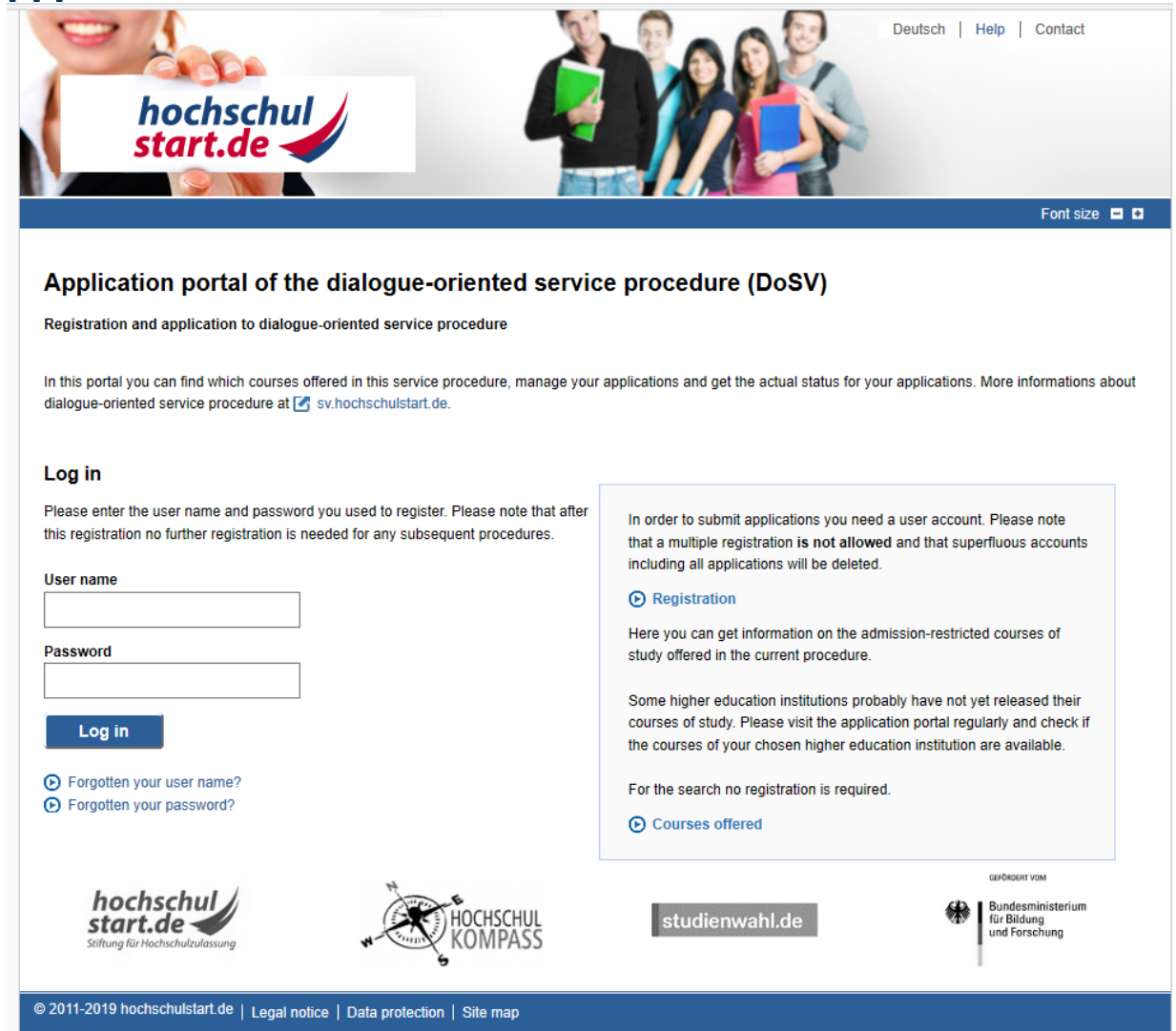
Cambridge Certificate – a score of 160-180, B2 first, Grade B

Application

Application period **Mid/End April – July 15th**

Step One:

→ register online on hochschulstart.de. You will receive two individual identification numbers, the applicant ID (BID) and the applicant authentication number (BAN), which are mandatory for your applications.



The screenshot shows the homepage of the 'hochschulstart.de' application portal. At the top, there is a navigation bar with 'Deutsch | Help | Contact' and a 'Font size' option. The main heading is 'Application portal of the dialogue-oriented service procedure (DoSV)'. Below this, there is a section for 'Registration and application to dialogue-oriented service procedure'. A text block explains that users can find courses, manage applications, and check their status. A 'Log in' section follows, with instructions to enter the user name and password. There are two input fields for 'User name' and 'Password', and a 'Log in' button. Below the login fields are links for 'Forgotten your user name?' and 'Forgotten your password?'. A right-hand sidebar contains a 'Registration' link, information about admission-restricted courses, and a 'Courses offered' link. The footer includes logos for 'hochschulstart.de', 'HOCHSCHULKOMPASS', 'studienwahl.de', and the 'Bundesministerium für Bildung und Forschung'. The copyright notice at the bottom reads '© 2011-2019 hochschulstart.de | Legal notice | Data protection | Site map'.

Application

Step Two:

- Registration at the THU [application portal](#) (BID and BAN will be requested in the application)
- Complete and submit application in the THU application portal
- Set your application at THU on hochschulstart.de to priority 1



Einloggen

Kennwort vergessen

Haben Sie noch kein Benutzerkonto?

Account erstellen

Bei technischen Fragen wenden Sie sich bitte an: selma-hilfe@thu.de

Bei inhaltlichen Fragen wenden Sie sich bitte an: ssc@thu.de

- hochschulstart.de will send you an e-mail if you have been accepted at Ulm University of Applied Sciences. Check your status under „my applications“
- accept on hochschulstart.de or in the THU application portal
- after you have received your letter of admission, you can register via the THU application portal!

Enrollment

For enrollment you will need to upload:

- Evidence that the required semester fees have been paid
- Passport photograph
- Information about your health insurance
- Certificate of Studienkolleg Konstanz

The Campus

THU has two campus sites

- Campus Prittwitzstraße
- Campus Albert-Einstein-Allee
(in 2020 the faculty of Electrical Engineering and Information Technology moved to a new campus building)









Willkommen bei
Digital Media

Du befindest dich im Creative Labor des Studiengangs. In diesem Raum kannst Du interaktiv mit aktueller Medientechnik spielen und dich intensiv mit Digital Media beschäftigen.

Wir wünschen Dir einen interessanten Aufenthalt bei uns!

19° ☀️ Sonnig

Dienstag, 6. Juli 2021
09:05:12

dm
intranet





Congratulations on being enrolled in the EET program and
welcome to Ulm University of Applied Sciences!

