



Technische
Universität
Braunschweig



Welcome to TU Braunschweig and SEPP

Christa Hellert, October 15th, 2026



Technische
Universität
Braunschweig





Structure of TU Braunschweig



Technische
Universität
Braunschweig

Six faculties

Carl-
Friedrich-
Gauß-
Faculty

Faculty of
Life Sciences

Faculty of
Architecture,
Civil
Engineering
and
Environmental
Sciences

**Faculty of
Mechanical
Engineering**

Faculty of
Electrical
Engineering,
Information
Technology,
Physics

Faculty of
Humanities
and
Educational
Sciences

Central Facilities

(Library – GITZ – Language Centre – Sports Centre – etc.)



Technische
Universität
Braunschweig

Faculty of Mechanical Engineering



24 Institutes

Geschäftsstelle der Fakultät für
Maschinenbau / faculty's office

14 study programmes



The Faculty's Office / Geschäftsstelle

Your point of contact:

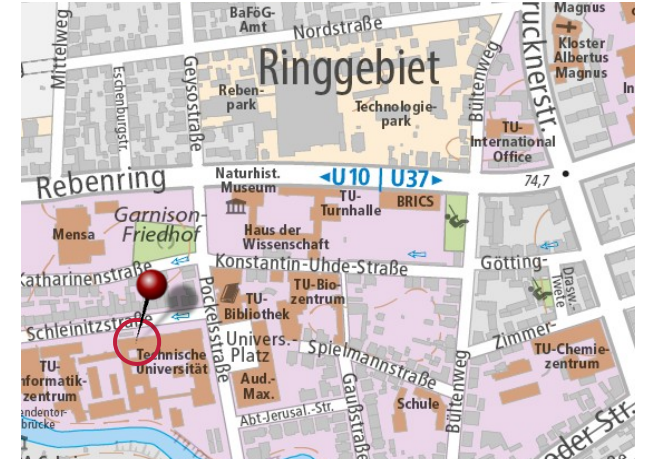
Schleinitzstraße 20
38106 Braunschweig
service-fmb@tu-braunschweig.de
0531 / 391-4040

SERVICEhours: **Mon, Tue:** 9:30 am – 12:00 pm
Thurs: 9:30 am – 12:00 pm and 1:30 – 4:00 pm

SERVICEpoint: Call or come by during SERVICEhours, no appointment necessary

SERVICEconsultation: Consultations during SERVICEhours, please book an appointment online via [Timeacle](#)

SERVICEonline: 24/7, <https://www.tu-braunschweig.de/fmb/studium>



The Faculty's Office / Geschäftsstelle

- **SERVICeteam:** Study guidance/counselling, Examination Office, Internship Office

Contact: service-fmb@tu-braunschweig.de | 0531 / 391-4040 during office hours

- **Course Coordinators:** Management and development of the faculty's study programmes (e. g. accreditation procedures and quality management), contact persons for faculty and staff with any questions regarding the study programmes.

Contact: studiengangsmanagement-fmb@tu-braunschweig.de

- **Managing Director , Secretary's office, PhD, PR and communication**
- **Dean** Prof. Dr.-Ing. Markus Böl and **Dean of Studies** Prof. Dr.-Ing. Daniel Schröder

Your contact with the Faculty's Office

- Information regarding your studies or any other personal information can only be provided using your TU Braunschweig e-mail address. **Please check regularly!**
- Always give your name and student ID.
- To enable full access to the university's online IT-services and to activate your official university e-mail account, please activate your "y-Nummer": <https://www.tu-braunschweig.de/en/it/tubs-id-freischaalten>



The faculty's website

<https://www.tu-braunschweig.de/fmb>

Fakultät für Maschinenbau



Maschinenbau@TU Braunschweig

Mit rund 3.000 Studierenden in fünf Bachelor- und neun Masterstudiengängen zählt die Fakultät für Maschinenbau zu den größten Fakultäten der Technischen Universität Braunschweig. Unsere Institute forschen und lehren in den Bereichen Fahrzeugtechnik und Mobile Systeme, Luft- und Raumfahrttechnik, Energie- und Verfahrenstechnik sowie Produktions- und Systemtechnik. Zahlreiche internationale Kooperationen bereichern Studium und Forschung für Studierende, Wissenschaftler:innen und unsere internationalen Gäste. Wir freuen uns über Ihr Interesse und laden Sie

▼ Fakultät für Maschinenbau

- Aktuelles • Latest news
- Termine • Important dates and deadlines
- Pinut
- Studium • Information about your course of study; downloads; forms etc.
- Promotion
- Habilitation
- Stipendien und Preise
- Institute & Forschung • The faculty's institutes
- International • Outgoings and Incomings, double-degrees
- Mentor.ING und AlumnING.
- Gleichstellung und Familie
- Tag des Maschinenbaus
- Masch.Bau - Studierendenhaus
- Fachschaft
- Dekan | Studiendekan
- Kontakt



Technische
Universität
Braunschweig

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First year

Course formats

- **Lecture (Vorlesung)**
 - Theoretical foundations of a subject are taught in the classroom
- **Excercise (Übung)**
 - Lecture contents are applied to examples and problems
- **Small exercise groups / tutorials (kleine Übung)**
 - Individual problem-solving in a small tutorial group
- **Laboratory (Labor)**
 - Theoretical foundations and scientific methods are applied in experiments
- **Block course (Blockveranstaltung), project work (Projektarbeit) etc.**



Modules

- During your bachelor studies you will have to complete a certain number of “modules”, specified in the specific part of the examination regulations.
- Modules contain a specified number of courses (Lehrveranstaltungen) such as lectures, exercises, laboratories...
- Modules are completed with an examination element (Prüfungsleistung) and/or course achievement / coursework (Studienleistung).
- You will receive “credit points” for completed modules. Credit points are a measurement of a module’s workload (180 CP need to be completed for the bachelor’s degree).

Curriculum

Compulsory Modules (85 credit points)

- Fundamentals of Mathematical Science and Information Technology (31 CP)
- Sustainability (17 CP)
- Fundamentals of Engineering (23 CP)
- Engineering Applications (14 CP)

Specialisation Area (63 CP)

- Sustainable Production *OR*
- Sustainable Mobility *OR*
- Sustainable Energy and Process Engineering

Integrated Module (8 CP)

Internship (10 CP)

Bachelor's Thesis (14 CP)

Model Curriculum

The model curriculum of the course programme is a suggestion of how to organize your six semesters – you are free to organize it differently. Especially if you would like to take “Faszination Maschinenbau” in German, please attend the lecture in your first semester.

Semester 1		Semester 2		Semester 3		Semester 4		Semester 5		Semester 6	
Modul	LP	Modul	LP	Modul	LP	Modul	LP	Modul	LP	Modul	LP
Mathematics for Engineers A (Ingenieurmathematik A)	8	Mathematics for Engineers B (Ingenieurmathematik B)	8	Thermodynamik 1 (Thermodynamics 1)	5	Grundlagen des Konstruierens (Fundamentals of Engineering Design)	8	Pflicht/Wahlpflicht VT	5	Collaborative Work - Labor (Laboratory)	2
Engineering Mechanics 1 (Technische Mechanik 1)	8	Engineering Mechanics 2 (Technische Mechanik 2)	5	Strömungsmechanik (Fluid Mechanics)	5	Regelungstechnik (Control Theory)	5	Pflicht/Wahlpflicht VT	5	Pflicht/Wahlpflicht VT	5
Materials Science (Werkstoffwissenschaften)	6	Fascination Mechanical Engineering (Faszination Maschinenbau)	5	Digitale Werkzeuge (Digital Tools) - Einführung in die Programmierung	2	Digitale Werkzeuge (Digital Tools) - Methoden und Algorithmen	3	Pflicht/Wahlpflicht VT	5	Praktikum (internship)	10
Environmental and Social Sustainability in Engineering - Teil 1	3	Environmental and Social Sustainability in Engineering - Teil 2	3	Energy Systems	5	Pflicht/Wahlpflicht VT	5	Pflicht/Wahlpflicht VT	5	Abschlussmodul (bachelor's thesis)	14
Integrated Module (Überfachliche Profilbildung)	4	Sustainable Business Economics - Production Systems and Supply Chains	3	Pflicht/Wahlpflicht VT (compulsory/elective modules specialisation)	5	Pflicht/Wahlpflicht VT	5	Pflicht/Wahlpflicht VT	5		
		Sustainable Business Economics - Entrepreneurship and Business Model Generation	3	Pflicht/Wahlpflicht VT	5	Pflicht/Wahlpflicht VT	5	Collaborative Work - Projektarbeit (project work)	6		
		Integrated Module (Überfachliche Profilbildung)	4								
29		31		27		31		31		31	

First year model curriculum – option 1

First semester (winter)

- Mathematics for Engineers A (8 CP)
- Materials Science (6 CP)
- Engineering Mechanics 1 (8 CP)
- Environmental and Social Sustainability in Engineering part 1 (3 CP)
- Integrated Module courses (4 CP)

Second semester (summer)

- Mathematics for Engineers B (8 CP)
- Fascination Mechanical Engineering (5 CP)
- Engineering Mechanics 2 (5 CP)
- Sustainable Business Economics (6 CP)
- Environmental and Social Sustainability in Engineering part 2 (3 CP)
- Integrated Module courses (4 CP)

Semester 1		Semester 2	
Modul	LP	Modul	LP
Mathematics for Engineers A (Ingenieurmathematik A)	8	Mathematics for Engineers B (Ingenieurmathematik B)	8
Engineering Mechanics 1 (Technische Mechanik 1)	8	Engineering Mechanics 2 (Technische Mechanik 2)	5
Materials Science (Werkstoffwissenschaften)	6	Fascination Mechanical Engineering (Faszination Maschinenbau)	5
Environmental and Social Sustainability in Engineering - Teil 1	3	Environmental and Social Sustainability in Engineering - Teil 2	3
Integrated Module (Überfachliche Profilbildung)	4	Sustainable Business Economics - Production Systems and Supply Chains	3
		Sustainable Business Economics - Entrepreneurship and Business Model Generation	3
		Integrated Module (Überfachliche Profilbildung)	4

First year model curriculum – option 2

First semester (winter)

- Ingenieurmathematik A (8 CP)
- Werkstoffwissenschaften (6 CP)
- Technische Mechanik 1 (8 CP)
- Environmental and Social Sustainability in Engineering Teil 1 (3 CP)
- Faszination Maschinenbau (5 CP)

Second semester (summer)

- Ingenieurmathematik B (8 CP)
- Technische Mechanik 2 (5 CP)
- Sustainable Business Economics (6 CP)
- Environmental and Social Sustainability in Engineering part 2 (3 CP)
- Überfachliche Profilbildung (5 CP)

Semester 1		Semester 2	
Modul	LP	Modul	LP
Ingenieurmathematik A (Mathematics for Engineers A)	8	Ingenieurmathematik B (Mathematics for Engineers B)	8
Werkstoffwissenschaften (Materials Science)	6	Technische Mechanik 2 (Engineering Mechanics 2)	5
Technische Mechanik 1 (Engineering Mechanics 1)	8	Environmental and Social Sustainability in Engineering - Teil 2	3
Environmental and Social Sustainability in Engineering - Teil 1	3	Sustainable Business Economics - Einführung in Produktion und Logistik (Production Systems and Supply Chains)	3
Faszination Maschinenbau (Fascination Mechanical Engineering)	5	Sustainable Business Economics - Entrepreneurship and Business Model Generation	3
		Überfachliche Profilbildung (Integrated Module)	5

Schedule Bachelor Sustainable Engineering of Products and Processes

Semester 1 (winter 2026/27)

	Mon	Tue	Wed	Thurs	Fri
8:00 – 9:30	Engineering Mechanics 1 (kl. UE) <i>German B 2.2</i>	Technische Mechanik 1 (VL) <i>German B 1.1 + German B 1.2</i>	Mathematics for Engineers A / Ingenieurmathematik A (VL) <i>German B 2.2</i>	Werkstoffwissenschaften (VL)	Technische Mechanik 1 (VL)
9:45 – 11:15	Engineering Mechanics 1 (VL)			Engineering Mechanics 1 (VL)	Mathematics for Engineers A / Ingenieurmathematik A (UE)
11:30 – 13:00	Engineering Mechanics 1 (UE)	<i>Faszination Maschinenbau (VL)</i>		<i>German B 1.2</i>	<i>German TestDaF Preparation</i>
13:15 – 14:45		Technische Mechanik 1 (UE)	13:15 – 14:00 Uhr: <i>Faszination Maschinenbau (Projekt)</i>	Werkstoffwissenschaften (VL/UE)	<i>German B 1.1</i>
15:00 – 16:30			Materials Science (VL)		
16:45 – 18:15	<i>German TestDaF Preparation</i>	Environmental and Social Sustainability in Engineering (VL/Teamprojekt)	Materials Science (VL/UE)	Mathematics for Engineers A / Ingenieurmathematik A (VL)	
18:30 – 20:00		<i>German B 2.1</i>		<i>German B 2.1</i>	

Important notes about freshmen courses in winter 2026/27

- “**Kleine Übungen**”/small exercise groups are offered for the modules “Mathematics A” and “Engineering Mechanics 1” – you will have to sign up for a tutorial group; more information will be given during the first class.
- SEPP Freshmen courses start on Oct 20th (Tue)
- **German language classes**: Registration has started, classes start on October 26th





Internship

Internships - Overview

Before your bachelor studies -
Basic Internship

8 weeks

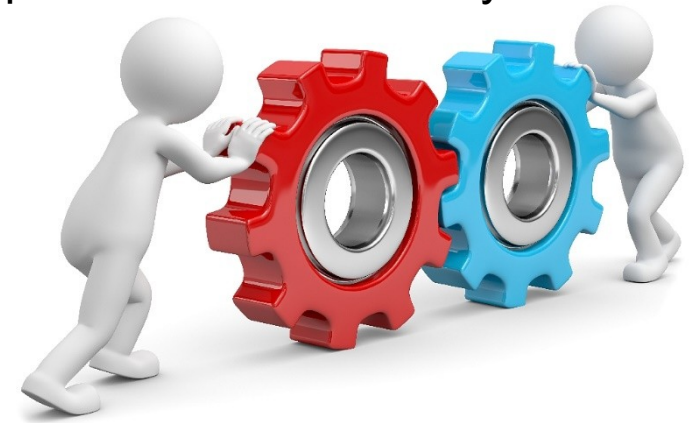
During your bachelor studies -
Engineering Internship

10 weeks

The Basic Internship (*Vorpraktikum* or *Basispraktikum*) is meant to be an introduction to industrial manufacturing and to teach key fundamental knowledge, specially in metal processing such as filing, spinning, milling, welding.

Please find more information about your internship and your internship report in the documents you received from the Enrolment Office as well as on our website:

<https://www.tu-braunschweig.de/fmb/studium/praktikum>



Basic Internship

- You have completed your basic internship already?
 - Upload your report in TUconnect under „Praktikum Online“ (see also next slide)
- You have not yet completed your basic internship?
 - Put in a request for deferment (e.g. illness, rejection of application or other reasons) in TUconnect under „Praktikum Online“
 - „Fachpraxisunterricht“ or vocational training might get recognized – hand in your original documents to the SERVICEteam
- **Deadline: November 1st, 2026**
- If your request for deferment has been accepted, you need to complete the basic internship by the end your fourth semester.



„Praktikum Online“

- „Praktikum Online“ can be found in **TUconnect**: <https://connect.tu-braunschweig.de>
- You need to log on with your *y-Nummer* and password in order to register your internship and to upload your documents and reports OR to request a deferment.

The screenshot shows the TU Braunschweig TUconnect portal. The top navigation bar includes the university logo, a search bar, and user icons. Below this, a red navigation bar contains links: Home, **My Studies** (circled in green), studies offered, Organisation, and Service. Under 'My Studies', there are links for 'Edit Data Dictionary', 'Show extended information', 'Start page', and 'My Studies'. The main content area is titled 'My Studies' and lists several options: 'Planner of studies with Module plan', 'Schedule', 'Registered exams and courses', 'My achievements', 'Student Self-Service', 'Upload written exams', and 'Praktikum Online' (circled in green). Below 'Praktikum Online', there is a note: 'Zugriff nur aus dem TU-M-Net oder via VPN möglich ((https://vpngate.tu-bs.de/))'.



German language courses

Regulations

German language proficiency level:

- Enrolment: CEFR level A2 or higher
- End of third semester: TestDaf TDN 3 or equivalent
→ Certificate needs to be handed in by March 31st

Courses at university's Language Center

- **Regular courses** during lecture period:

Deutsch B1.1 (4 CP)

→ [Registration via Stud.IP](#)

Deutsch B1.2 (4 CP)

→ [Registration via Stud.IP](#) , online course

Deutsch B2.1 (4 CP)

→ [Registration via Stud.IP](#) , online course

Deutsch B2.2 (4 CP)

→ [Registration via Stud.IP](#)

Test-Daf Preparation course

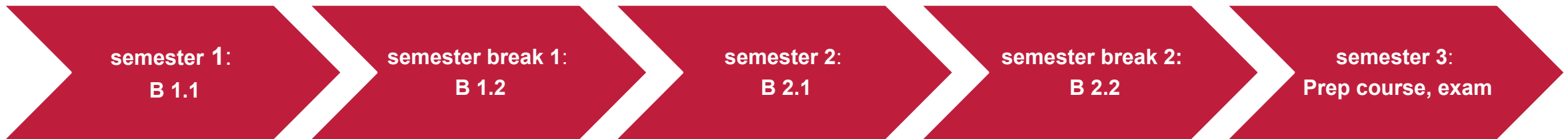
→ [Registration via Stud.IP](#)

You can check the complete course programme here: [Language courses in the winter semester 2026/27](#)

- **Compact courses** during lecture-free period

German courses

- You should start with your German courses right away.



- As SEPP student, your German language class registration will get prioritised. Please watch out for information on deadlines etc..
- Course Coordinator German for SEPP and CSE at the Language Center: Friederike Weidauer (f.weidauer[at]tu-braunschweig.de)



**Also good to
know...**

Student House „Masch.Bau“ & Student Council

The **student house Masch.Bau** offers 78 modern study spaces and common rooms for students of all faculties to study and work together. A total of 16 study rooms for up to four to six people each are available on three floors as well as a room with individual workplaces and a family room. A large conference room and a roof terrace are also located in the building.

The modern offices of the **student council** are located on the ground floor, as well as the "Klappe" where you can receive old examination papers. Students will be granted access to the building for the duration of their reservation with their student ID "TUcard". Students of the Faculty of Mechanical Engineering have a pre-booking right. The building is open 24/7.

➤ Langer Kamp 19 D, 38106 Braunschweig

➤ Booking system:

<https://www.tu-braunschweig.de/fmb/studierendenhaus/reservierung>

➤ Further information



Introduction to the university's library



How to register at the library? How to check out books? Are there study spaces available? – This [„Actionbound“-Tour](#) will address the most important questions you might have about the university's library and will introduce you to its services. It is available in English and German.



Gauß-IT-Zentrum (GITZ)

Information about the services of the university's IT-Center:

<https://www.tu-braunschweig.de/it/erstsemester>

- Important information on activating your y-number (*TUBS-ID*)
- General information for new students: “Don't Panic”



Career Service

Was bietet der Career Service?

Fachbereichsübergreifende Servicestelle der TU Braunschweig, DIE Schnittstelle zwischen Studierenden jeden Studienfortschritts, Promovierenden und Absolvent*innen sowie Arbeitgebern

Online:

- Ressourcen Center mit Tipps & Tricks rund um Karriereplanung inklusive Checklisten
- Podcast: All lost in the supermarket – Gespräche mit TU Alumni zum Arbeitsmarkt jetzt und in der Zukunft
- Link Tipps



tu-braunschweig.de/career

Einzelberatung

Unterstützung im Bewerbungsprozess

Berufsbezogener Interessens- und Kompetenzabgleich

Praxiskontaktvermittlung

Semesterprogramm

Workshops

Berufsfeldvorstellung

Exkursionen

Stellenticket und Jobbico

Absolventenstellen, Praktika, Werkstudentenstellen & Abschlussarbeiten

Aushilfstätigkeiten, Nebenjobs



Servicestelle Alumni & Career | Kurzvorstellung Career Service

International Career Service

Study in Braunschweig – start your career in the region!

- **Workshops, Company Visits & Networking Events** with Companies from the Region to prepare you for your career start
- **Personal Advisory Sessions** on academic success and career entry in the region
- **German Courses for the Workplace**

Contact:

international-career@tu-braunschweig.de



Studying abroad – Information events International House

WEGE INS AUSLAND & STUDIEREN IN EUROPA – Information events offered by the International House.

- The International House offers information events about the many options to study abroad.
- Every first Wednesday of the month (please check for any changes on the respective website)

Further information: <https://www.tu-braunschweig.de/international-house/news-and-events>



Q & A: Examinations

Examination registration period:

Category 1 examinations including written and oral examinations: Dec 15th, 2026 – Jan 15th, 2027

[Category 2 examinations, e.g. papers or presentations: Oct 1st, 2026 – Nov 15th, 2026]

On December 1st we will e-mail a **presentation** covering exam regulations, key dates, registration & de-registration procedures and more, to prepare for the...

...Q & A Session:

Have questions? Join us on December 11th, 2026 at 11.30 a.m. in room SN 19.2 (right after “Maths A”)



Welcome events and programmes

International Welcome week – International House

- For all international students who are new to Braunschweig
- Information events, open office hours, welcome reception, welcome events such as pub crawls etc.
- Please check the website for more information about the programme: <https://www.tu-braunschweig.de/en/welcome-programme>

Instagram Broadcast Channel for International Students at TU Braunschweig: <https://www.instagram.com/channel/AbbVZEJXO-a85RTF>

inTU

- inTU: For German and international first semester students
- Welcome-Event: Oct 28th, 2026 at 6.30 – 7 p.m. in room PK 11.1
- More information and registration: <https://www.tu-braunschweig.de/intu>

Welcome events and programmes

First day of classes – October 19th, 2026

First semester welcome – Oct 19th, 9 am – Braunschweig Stadium

Information Fair “Studium ist mehr...” –

Oct 19th, 10.30 am – 12.30 pm – University Square

- Service institutions, faculties, and student initiatives present themselves





**Wishing you
every success
and all the
best for your
start at TU
Braunschweig!**