

Prof. Dr. Robert Jockwer
Faculty of Civil Engineering

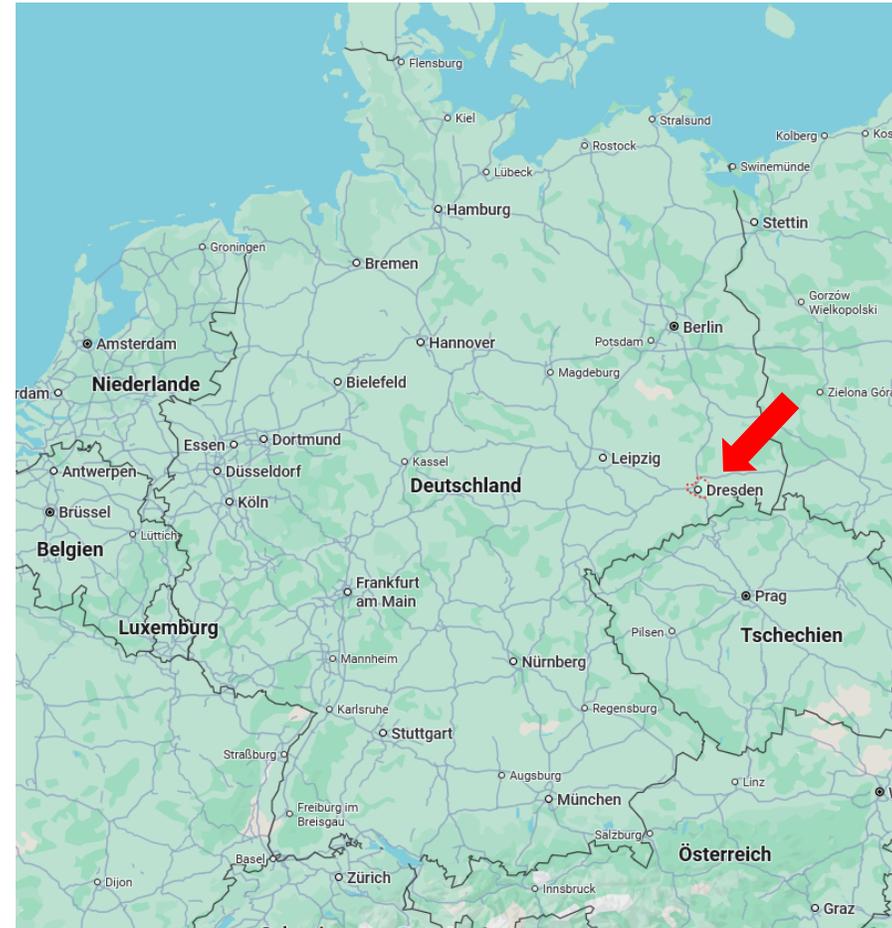
Study Civil Engineering in Dresden

- Shape the future creatively and constructively!

FR-DE Double degree, INSA 2026

Dresden

565.000 Inhabitants



TU Dresden

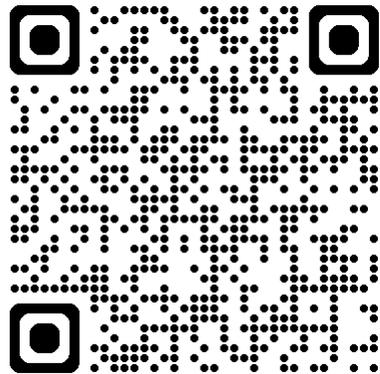
- Founded 1828
- University of Excellence since 2012
- 29,000 students, of whom around 5,800 (20 %) are international students from 128 countries
- 8,500 employees, of whom 3,500 are funded by third parties
- 17 faculties in 5 departments
 - **Mathematics and natural sciences**
 - **Humanities and social sciences**
 - **Engineering sciences**
 - **Construction and environment**
 - **Medicine**



© Knitterfisch

Faculty of Civil Engineering

- Around 1.500 students at BIW
- 11 Institutes + Laboratories
- 19 Chairs
- Around 150 Employees



Beyer-Bau, Fakultät Bauingenieurwesen (Foto: A. Terpe)

Labs of the faculty of Civil Engineering

- Otto-Mohr-Laboratory (Structural Engineering)
- Hubert-Engels-Laboratory (Water construction & Hydromechanics)
- Friedrich-Siemens- Laboratory (Glas & Adhesives)
- Alfred-Hütter- Laboratory (Construction materials)
- Laboratory of microstructure morphology
- Laboratory of Soil Mechanics
- Laboratory of Geology
- Pavement Laboratory

- Center for High-Performance Computing



Building culture in Strasbourg and Dresden...

Kammerzell House in Strasbourg



Foto: Sir James

Frauenkirche in Dresden...



...from the Elbe Sandstone Mountains



Current Challenges

Collapse of the Carola Bridge 2024

Background and causes explained by Prof. Steffen Marx



Cluster of Excellence CARE – Climate- and Resource Neutral Civil Engineering

Objectives

- O1: Achieving Climate Neutrality
- O2: Enhancing Resource Efficiency
- O3: Increasing Productivity
- O4: Improving Working Conditions
- O5: Boosting Resilience and Adaptivity

Project partners:



New construction methods in research and teaching

LEHMBAU

BIW4-81

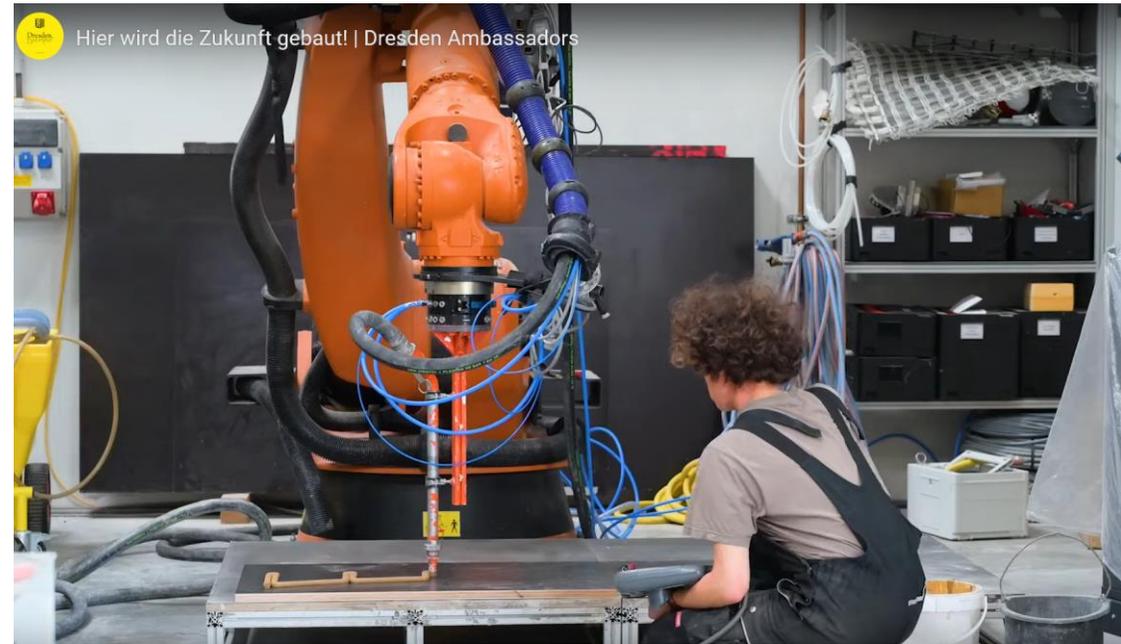
TRADITION TRIFFT INNOVATION

MB Institut für Massivbau



TU DRESDEN
INSTITUT FÜR
BAUSTOFFE

AB WISE 25/26
NEUES MODUL



<https://youtu.be/n8ZEVrkUILLM?feature=shared>

Building with timber



Foto: A.Savin



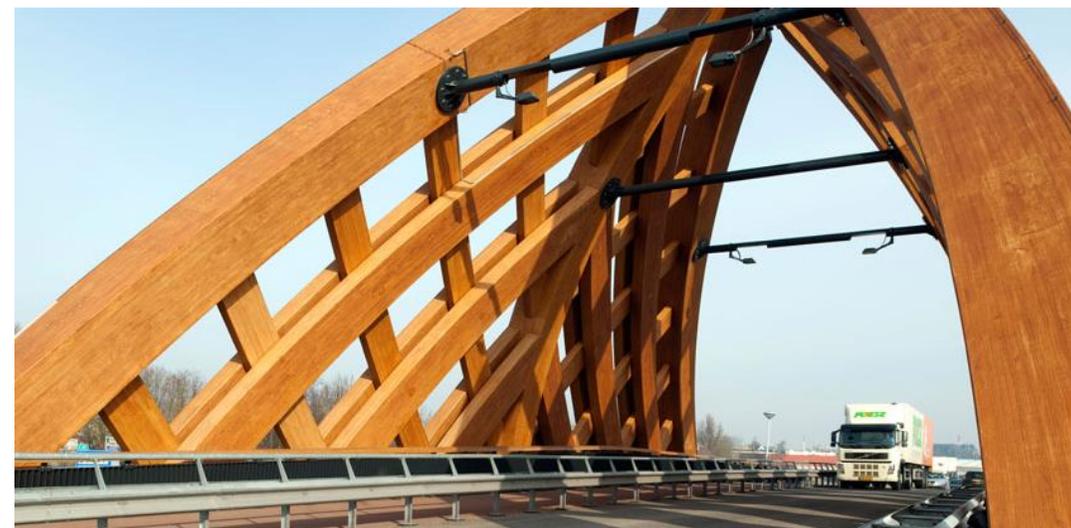
Foto: Derome

Modern Timber Buildings

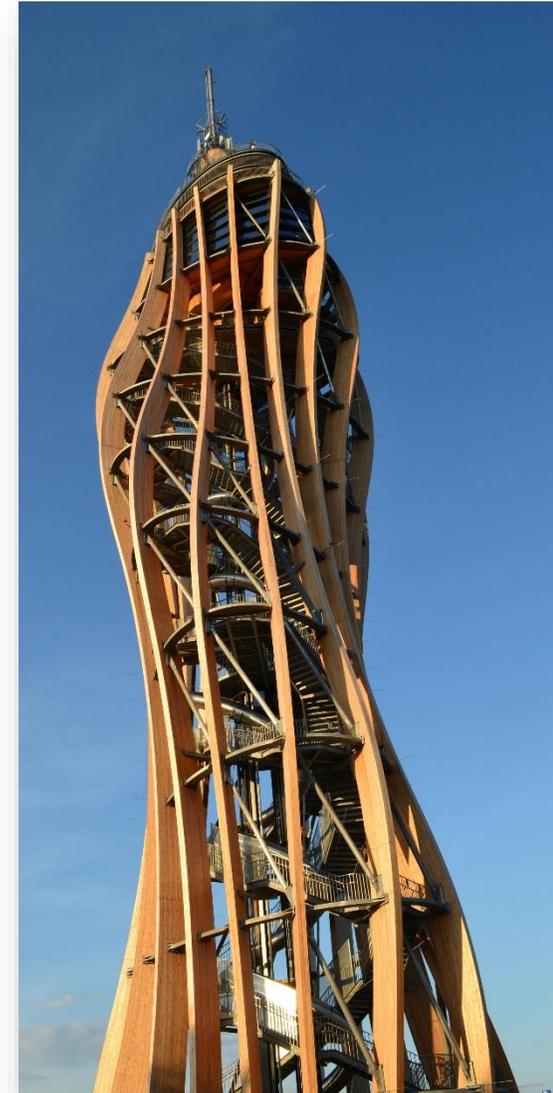


Source: Folkhem

Modern Timber Buildings



Possibilities in Timber



Quelle: www.v1.co

Wood based materials



Strength graded structural timber with rectangular cross-section



Structural Finger Jointed Solid Timber



Glued Solid Timber



Glued Laminated Timber



Cross Laminated Timber



Multi-layered solid wood panel



Laminated Veneer Lumber



Plywood



Oriented Strand Board



Fibreboard, hard



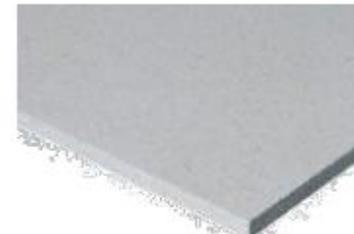
Fibreboard, medium



Softboard



Cement Bonded Particle Board



Gypsum fibreboards



I-Joist

Studying Civil Engineering at TU Dresden

- Standard period of study: 10 semesters
- **Diploma**, modularized (“Bologna compatible”)
 - Only diploma program in civil engineering in Germany
 - **Double degree** possible (Paris, Strasbourg, Trento)



Studying Civil Engineering at TU Dresden

Basic studies

1st to 3rd semester → Interim certificate (“Vordiplom”)

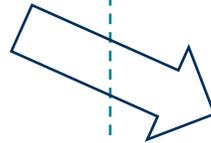
Basic subject studies

4th to 6th semester → **Specialization elective (4th)**

Advanced studies

7th to 8th semester

Main studies



“Scientific project work”

9th semester

Diploma thesis

10th semester → **Diploma**

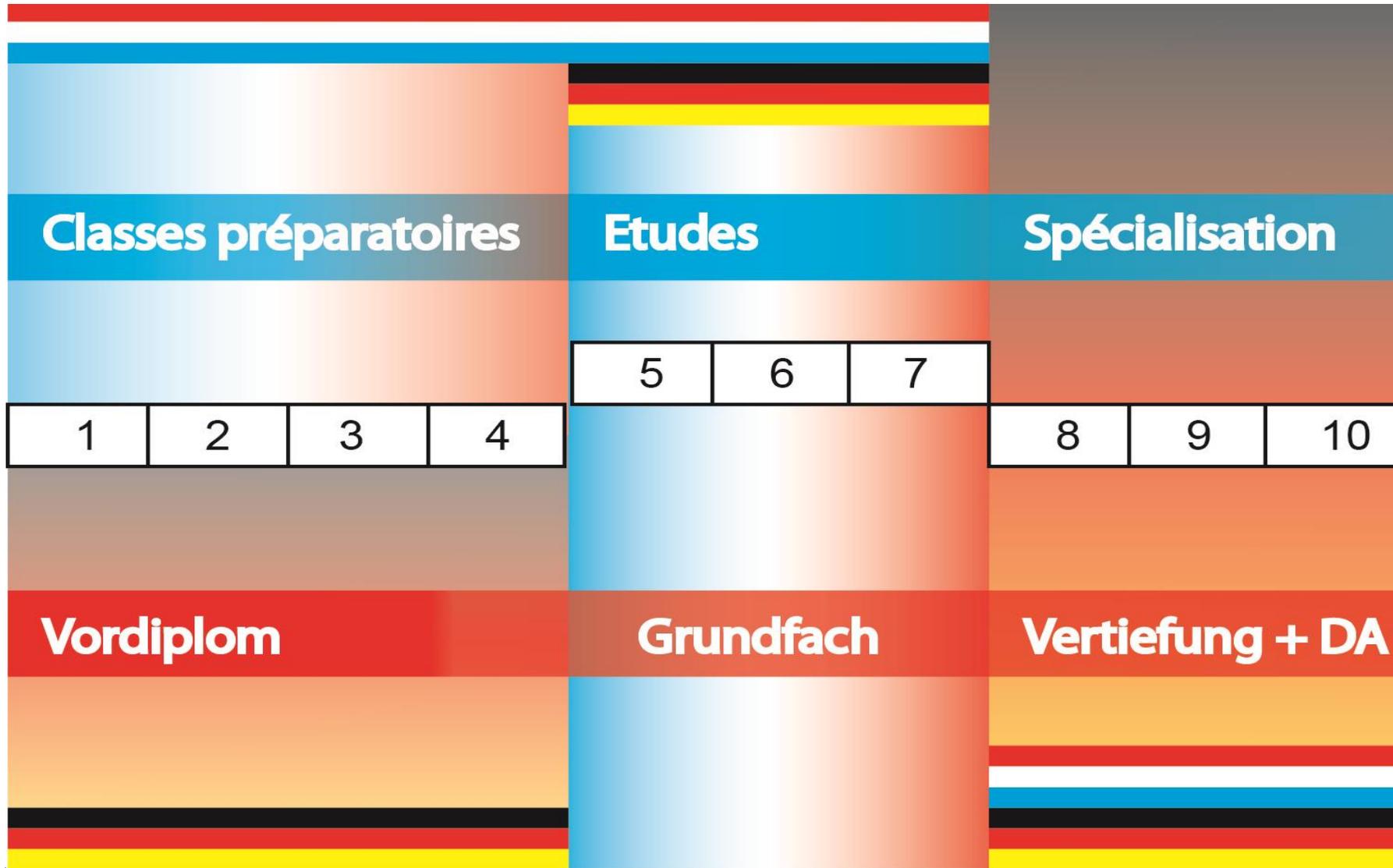


Beyer-Bau (Foto: A. Terpe)

Specialisations:

- Structural engineering
- Construction management
- Urban planning and transportation
- Hydraulic engineering and environment
- Computational engineering
- Building energy management

Double Degree



The double degree Principle

Parallel recognition

Upon successful completion, you will receive two fully-fledged diplomas – one from Germany and one from France.

Integrated studies

You will spend part of your studies at your home university and part at the partner university.

Joint studies

You study together with your German fellow students at the same time and in the same place.

Language and intercultural skills

Not only will you learn specialist content, you will also deepen your language skills and intercultural competencies.

The double degree

Your opportunity and low barriers

International recognition

You will have better opportunities on the job market in both countries and beyond.

In-depth expertise

By studying in two educational systems, you will benefit from different teaching methods and areas of focus.

Networking

Contacts with international fellow students, professors, and companies expand your career opportunities.

Campus of TU Dresden

Small cafés, open spaces, student gardens, and a friendly atmosphere — that's the TU Dresden campus. You can travel comfortably and **free of charge by bus and train** between the individual locations (including the Johannstadt, Tharandt and Zittau).

Those looking for quiet and collected knowledge will find their place at the **Saxon State Library - Saxon State and University Library Dresden (SLUB)**. It is one of the largest and most efficient academic libraries in Germany.



Fotos: Crispin-Iven Mokry

Student live

Dresden is considered one of the **best cities to live in Germany** and it is called the 'Florence on the Elbe' for good reasons. The comparatively **low rents and cost of living** are very inviting. Students can find affordable housing both at the Studentenwerk Dresden [student union] and on the commercial housing market.

Dresden is known for its **diverse cultural events**. Visits to cabarets, trendy **pubs, museums, theaters, opera** and concert halls, cinemas, or **music festivals** are just as much a possibility as activities in the many sports facilities or the surrounding nature of the Elbe landscape, the **Elbe Sandstone Mountains**, and the Erzgebirge/**Ore Mountains**. Incidentally, Dresden is considered the unofficial capital of **student clubs**, and the trendy **Neustadt** district ensures an exciting nightlife. If you want to get out of Dresden, Berlin, Prague, Leipzig, and Wroclaw are easy to reach.



Student Richard tests what it's like to live in a shared apartment, in a dormitory or alone in Dresden.

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TU Dresden on Youtube



www.youtube.com/@TUDresdenTV

TU Dresden
@TUDresdenTV · 9280 Abonnenten · 649 Videos
Die TU Dresden ist eine der größten Technischen Universitäten in Deutschland und eine st...mehr
tu-dresden.de und 4 weitere Links
Abonnieren

Übersicht Videos Shorts Live Playlists Beiträge

Studieren in Dresden: Deine Uni, no matter what.
23.982 Aufrufe · vor 3 Jahren
So individuell wie du – das ist deine TU Dresden. Egal, woher du kommst, wohin du willst und was du brauchst, hier findest du das Studium, das zu dir passt. Ob Technik, Geisteswissenschaften, Lehramt, Umwelt- oder Naturwissenschaften. Wir haben sie fast alle: über 120 Studiengänge und über 30.000 Kommiliton:innen. Warum hier studieren? Weil du's kannst!...
MEHR INFOS

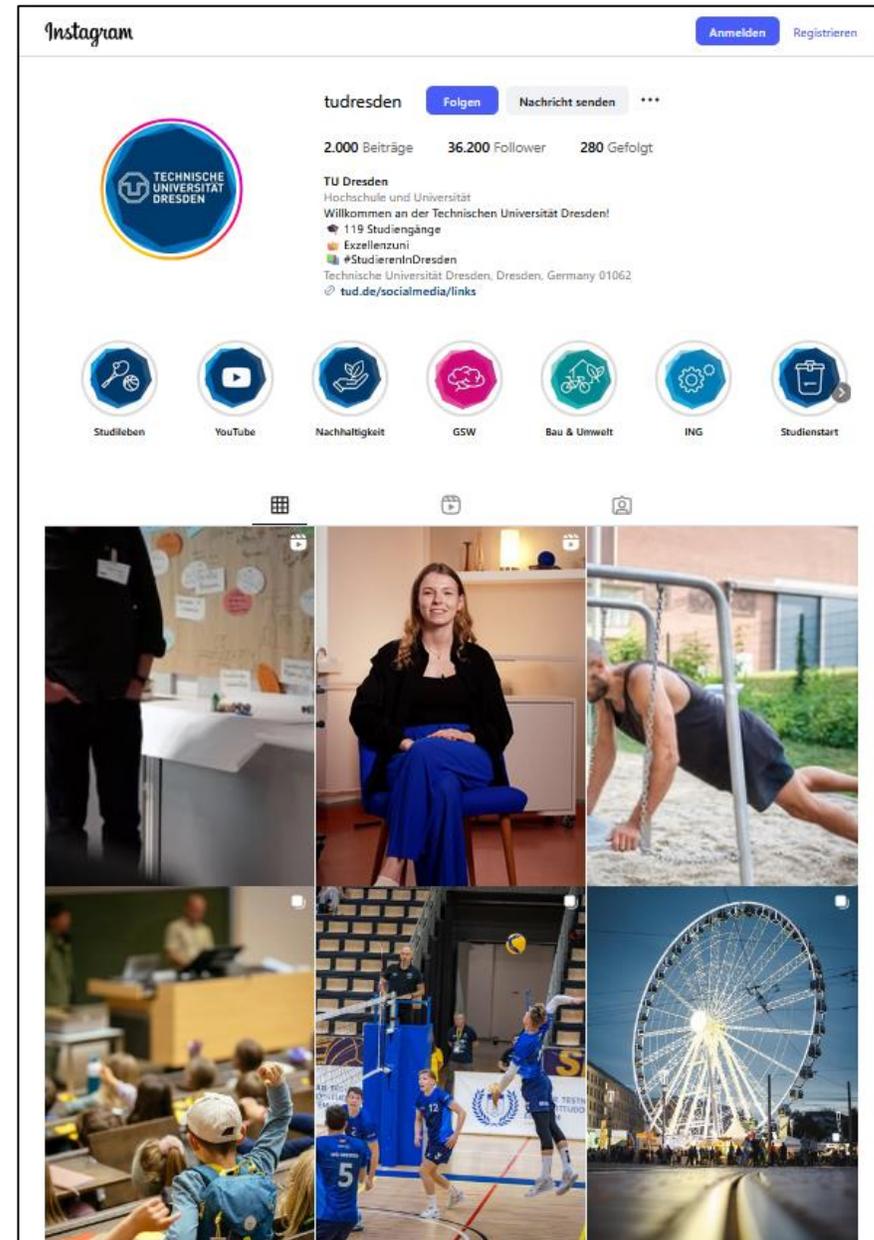
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- UNI-VLOG: Hydrologische Exkursion** 10:54
Gletscherexpedition statt Vorlesung | Uni-Vlog:...
- HÖRSAAL oder KREISZAAL?** 8:10
Werdet ihr Hebammen, weil ihr Babys so süß findet? ...
- UNI-VLOG: Nanoelectronic Systems** 11:13
Halbleiter im Nanometerbereich | Uni-...
- Fünf Exzellenzcluster für die TU Dresden** 3:57
Herausragender Erfolg: TU Dresden überzeugt mit fünf...
- WAR FRÜHER ALLES BESSER?** 9:47
Welches historische Ereignis hätten ihr gerne miterlebt? ...
- TAG DER TUTORIENARBEIT** 1:00
Tag der Tutorienarbeit 2025: Tutor:innen sind...

TU Dresden on Instagram



<https://www.instagram.com/tudresden/>



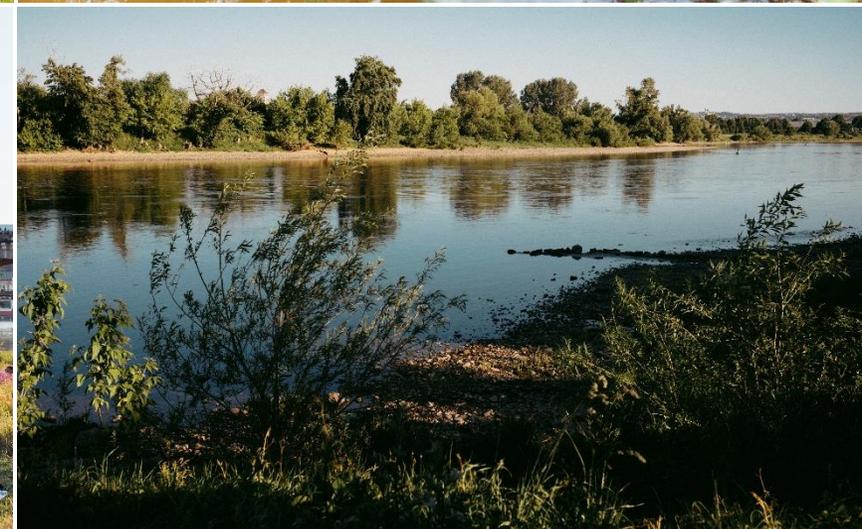
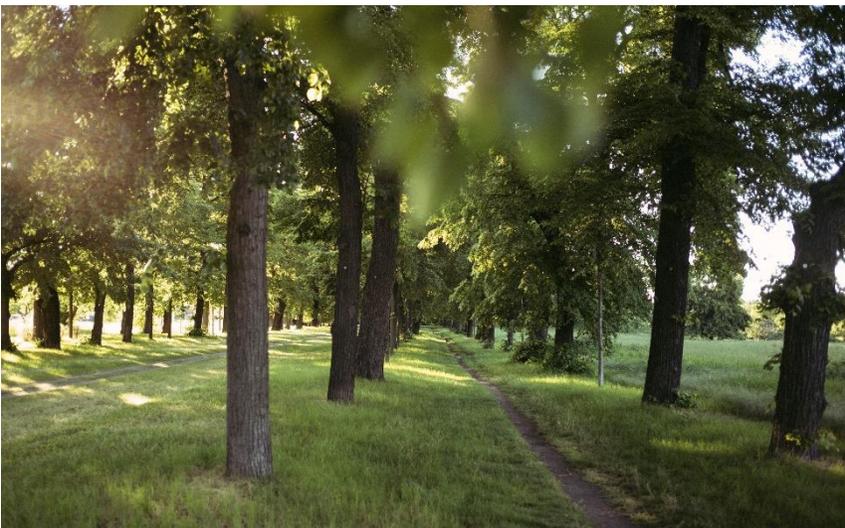
City live in Dresden



Culture in Dresden



Nature in and around Dresden





Thank you!

CUBE - world's first house made of carbon concrete

Developed and built at the Faculty of Civil Engineering
of TU Dresden (Fritz-Förster-Platz)

A voice from Paris (ESTP)

Part 1: ESTP Cachan <https://youtu.be/sOg0iGnqmPU?si=V1ksb6iuiikN3bX-i>
Part 2: TU Dresden <https://youtu.be/hMFwIRIo0oQ?si=DP1YrmgWEOGB1Zf5>

