

# CHEMNITZ UNIVERSITY OF TECHNOLOGY



**CHEMNITZ UNIVERSITY  
OF TECHNOLOGY**

CUT's 8 faculties covering the whole spectrum of higher education. Find short introductions to the CUT faculties, including a range of courses.

## Faculty of Natural Sciences

- ✓ Physics and Chemistry
- ✓ Modern laboratories, study trips and research projects guarantee extensive practical experience
- ✓ Working partnerships with national and international groups
- ✓ High international standards in research and teaching
- ✓ Centre for Nanostructured Materials and Analytics



### Degree programmes available

- ✓ Chemistry
- ✓ Computational Science
- ✓ Physics
- ✓ Sensors & cognitive Psychology
- ✓ Econophysics
- ✓ ...

### Research

- ✓ Complex Materials
- ✓ Molecular Systems
- ✓ Scientific Modelling and Simulation

## Faculty of Mathematics

- ✓ Continually improving and modernising its facilities in order to offer the best prospects for the future
- ✓ Interdisciplinary cooperation in the area of research
- ✓ Programmes combining mathematical skills and engineering and business subjects
- ✓ Superior study conditions: extensive and modern computer network with excellent access to technological resources
- ✓ Close contact to professors and tutors

### Degree programmes available

- ✓ Integrated International Master's and Doctorate Programme in Mathematics
- ✓ Joint bachelor's and master's (degree) programme in Mathematics in the fields of study:
  - ✓ Industrial Mathematics
  - ✓ Mathematics
  - ✓ Mathematics for Economics
  - ✓ Mathematics of Finance
  - ✓ Mathematics with accentuated Computer Science training
- ✓ ...

### Research

- ✓ Analytical and numerical methods for models in Mathematical Physics
- ✓ Numerical simulation on parallel computers
- ✓ Discrete mathematics and optimization



### Faculty of Mathematics

- ☎ 0049 (0)371 531 - 22000
- ☎ 0049 (0)371 531 - 22009
- ✉ dekanat@mathematik.tu-chemnitz.de
- 🌐 www.chemnitz-university.eu/mathematics

### Faculty of Natural Sciences

- ☎ 0049 (0)371 531 - 21000
- ☎ 0049 (0)371 531 - 21009
- ✉ naturwissenschaften@tu-chemnitz.de
- 🌐 www.chemnitz-university.eu/nasc

## Faculty of Mechanical Engineering

- ✓ High-potential research projects for students to observe current trends in manufacturing
- ✓ Outstanding Lab facilities:  
Manufacturing plant, 3-D Virtual Reality lab, Usability lab, Digital printing lab, ...
- ✓ Strong relationship to Fraunhofer Institute at CUT

### Degree programmes available

- ✓ Automobile Production
- ✓ Mechanical Engineering
- ✓ Microtechnology/Mechatronics
- ✓ Energy Efficient Technologies
- ✓ Print and Media Technology
- ✓ Sports Engineering
- ✓ Systems Engineering
- ✓ ...



### Research

- ✓ Product Development and Production Technologies, Adaptronic Systems
- ✓ Micromechanics/Mechatronics
- ✓ Media Systems and Media Technologies/Print
- ✓ Lightweight Structure
- ✓ Virtual Reality Technologies in Mechanical Engineering
- ✓ Solutions for Technical Systems and Intelligent Production Facilities
- ✓ Process Chain Optimisation
- ✓ New Materials

Faculty of Mechanical Engineering  
☎ 0049 (0)371 531 - 23010  
📠 0049 (0)371 531 - 23009  
✉ dekanat@mb.tu-chemnitz.de  
🌐 www.chemnitz-university.eu/me

## Faculty of Electrical Engineering and Information Technology

- ✓ Modern information technologies - key role in CUT's transition on the age of communication and information
- ✓ Outstanding research and excellent teaching facilities, state-of-the-art equipment
- ✓ Graduates with excellent interdisciplinary knowledge
- ✓ High competitive degree qualifications
- ✓ National and international partners from industry and education for exchange programmes and placements
- ✓ Centre for Microtechnologies (ZfM), a special research centre which is active in the fields of advanced technologies for micromachining as well as nanotechnologies
- ✓ Cooperation to Fraunhofer Institute

### Degree programmes available

- ✓ Biomedical Engineering
- ✓ Electrical Engineering
- ✓ Energy and Automation Systems
- ✓ Information and Communication Technology
- ✓ Electromobility
- ✓ Micro and Nano Systems
- ✓ Microsystems and Microelectronic
- ✓ Renewable Energy Engineering
- ✓ ...

### Research

- ✓ Information and communication technology
- ✓ Power engineering and automation engineering
- ✓ Microsystems technologies and microelectronics



Faculty of Electrical Engineering and Information Technology  
☎ 0049 (0)371 531 - 24000  
📠 0049 (0)371 531 - 24009  
✉ dekanat@etit.tu-chemnitz.de  
🌐 www.chemnitz-university.eu/eet

## Faculty of Computer Science

- ✓ Interdisciplinary cooperation and the application of theoretical knowledge in technical fields
- ✓ Programmes with a wide range of study options
- ✓ Interdisciplinary courses
- ✓ Close contact to professors and tutors
- ✓ Excellent technical facilities, plenty of computers and modern equipment

### Degree programmes available

- ✓ Applied Computer Science
- ✓ Data & Web Engineering
- ✓ Computer Science
- ✓ Intelligent Media and Virtual Reality
- ✓ High Performance & Cloud Computing
- ✓ Automotive Software Engineering
- ✓ ...



### Research

Parallel, distributed and mobile systems

- ✓ Interoperable systems
- ✓ Agent technology
- ✓ Infrastructures for cooperating systems
- ✓ Modelling, simulation, optimisation
- ✓ Telecooperation and meta-computing

Media computing

- ✓ Virtual reality
- ✓ Computer-aided learning and knowledge management

Faculty of Computer Science

☎ 0049 (0)371 531 - 25000

📠 0049 (0)371 531 - 25009

✉ dekanat@informatik.tu-chemnitz.de

🌐 www.chemnitz-university.eu/cs

## Faculty of Economics and Business Administration

- ✓ Local, national and international network
- ✓ Interdisciplinary degree programmes with training
- ✓ Combines macroeconomics and business administration with law and information technology
- ✓ Competences in typical economic and business practices as well as social competences and foreign language skills

### Degree programmes available

- ✓ Economics
- ✓ European Studies with Economic Sciences
- ✓ Finance
- ✓ Computer Science for Business Administration
- ✓ Business Administration and Engineering
- ✓ ...

### Specialisation in selected areas

- ✓ Controlling/Finance/Taxation/Accounting
- ✓ Human Resource Management
- ✓ Value Added Management/Customer-Orientated Leadership/IT-Management
- ✓ Macroeconomics
- ✓ Education Science/Teacher Training for Commercial and Vocational Education
- ✓ Industrial Engineering
- ✓ Finance
- ✓ Law and Business

### Research

- ✓ Management of value-added chains
- ✓ Potentials for controlling market processes
- ✓ Longterm development of systems
- ✓ Economics of labour



Faculty of Economics and Business Administration

☎ 0049 (0)371 531 - 34207

📠 0049 (0)371 531 - 26019

✉ wirtschaft@tu-chemnitz.de

🌐 www.chemnitz-university.eu/economics

## School of Humanities and Social Science

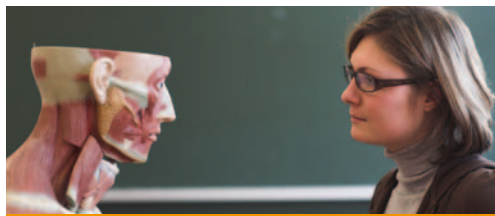
- ✓ Research centre with first-class academic staff
- ✓ Technically-oriented tradition of CUT and innovative approach to education and research
- ✓ Important role in Computer Science and Engineering programmes
- ✓ Wide range of subjects available, many programmes include the opportunity to undertake work placements, study exchanges or research projects

### Degree programmes available

- ✓ English and American Studies
- ✓ European Studies with Cultural Studies
- ✓ European History
- ✓ European Integration with Specialisation in Central and Eastern Europe
- ✓ German Studies
- ✓ Intercultural Communication/Intercultural Competence
- ✓ Media Communication
- ✓ Education and Learning Culture Studies
- ✓ Politics in Europe
- ✓ Political Science
- ✓ ...

### Research

- ✓ Competences for the information and knowledge society (new media)
- ✓ Structural dynamics and behavioural requirements of complex social and technical systems (social and human competences)
- ✓ European culture and society between regionality and globalisation (europe)



School of Humanities and Social Science

- ☎ 0049 (0)371 531 - 27000
- ☎ 0049 (0)371 531 - 27009
- ✉ dekanat@phil.tu-chemnitz.de
- 🌐 www.chemnitz-university.eu/hsw

## Faculty of Behavioural and Social Science

- ✓ Institute of Psychology, Institute of Sociology and Institute of Sports Science
- ✓ Opportunity for work placements, study exchanges or research projects
- ✓ International degree programmes
- ✓ Research and study exchanges with institutions within Europe and worldwide



### Degree programmes available

- ✓ Psychology
- ✓ Sociology
- ✓ Sports Engineering
- ✓ Prevention, Rehabilitation and Fitness Sports
- ✓ ...

### Research

- ✓ New media in everyday life
- ✓ Communication and social interaction
- ✓ Man-machine-interaction
- ✓ Human-resource-management and conflict-resolution
- ✓ Development and testing of virtual learning environments
- ✓ Human factors and usability
- ✓ Relationships in couples, families and between generations
- ✓ Demographic trends and migration
- ✓ Self-perception and behaviour
- ✓ Physical and mental health
- ✓ Physical education and fitness

School of Behavioral and Social Science

- ☎ 0049 (0)371 531 - 28000
- ☎ 0049 (0)371 531 - 28009
- ✉ dekanat@hsw.tu-chemnitz.de
- 🌐 www.tu-chemnitz.de/hsw/en/

## CHEMNITZ – The City of Modernity

- ✓ MODERNITY ON PRINCIPLE – vibrant, dynamic, open-minded
- ✓ ECONOMIC AND SCIENTIFIC HUB – growing industrial and prosperous technology location
- ✓ ART, CULTURE AND ATTRACTIVE LEISURE OPPORTUNITIES – theatres, cinemas, festivals, museums and modern sports facilities



# Chemnitz University of Technology



- ✓ RECONSTRUCTED CITY CENTER EXUDING A MODERN AND URBAN ATMOSPHERE
- ✓ SPORTS CITY – rich in Olympic tradition and world-famous athletes
- ✓ GATE TO THE ORE MOUNTAINS – lovely trip destinations right in the neighborhood

### Student Advisory Service

☎ 0049 (0)371 531 - 55555  
📠 0049 (0)371 531 - 12128  
✉ studienberatung@tu-chemnitz.de

### Student Administration Office

☎ 0049 (0)371 531 - 33333  
📠 0049 (0)371 531 - 12129  
✉ studentensekretariat@tu-chemnitz.de

## To know what is good. Studying in Chemnitz.

Chemnitz University of Technology (CUT) attaches great importance to cross-linking and cooperation between engineering and natural sciences on the one hand, and social sciences, humanities and economics on the other, promoting knowledge and innovation in technology, management and communication.

The university fulfills to a large extent its societal obligations with regard to teaching, research and further training and is able to compete successfully on both national and international level. The university acts as an indispensable part within the economic, cultural and social development of the Free State of Saxony in Germany.

CUT maintains high technical standards, providing outstanding opportunities for study and research. The university is both rich in tradition and dedicated to innovation. It has a solid international reputation and is always open for new ideas. Scientists and students from all disciplines meet at the interfaces between technology, management and human communication. This characteristic not only shapes the image of CUT, but it also reflects the nature of Chemnitz as a location of business, science and culture. The opportunity to combine technical subjects with business administration even at undergraduate level, along with the numerous language programmes offered, ensures that Chemnitz graduates are ideally prepared for professional life in the 21st century and that they dispose of all the resources necessary to be internationally competitive.

## Research with a difference

Chemnitz University of Technology has developed a forward-looking concept which makes it unique and emphasises its strengths. Research opportunities at CUT particularly benefit from interdisciplinary cooperation.

Within the motto "Wissen.schafft.arbeit" urgent problems of the future society in key areas like:

- ✓ Energy-efficient Production Processes
- ✓ Human Factors in Technology
- ✓ Smart Systems and Materials

## Terms of studying

- ✓ Outstanding teaching facilities
- ✓ Well equipped laboratories and a modern data processing centre
- ✓ International flair
- ✓ Practice-oriented studies
- ✓ Modern dormitories with high-speed network connections
- ✓ Extensive sporting offers
- ✓ No tuition fees



Marketing/Public Relations

☎ 0049 (0)371 531 - 11111

📠 0049 (0)371 531 - 11119

✉ [marketing@tu-chemnitz.de](mailto:marketing@tu-chemnitz.de)

🌐 [www.tu-chemnitz.de/verwaltung/marketing](http://www.tu-chemnitz.de/verwaltung/marketing)

## International Office

Chemnitz meets the world - The International Office is the main administration point for international affairs at CUT (outgoing and incoming).

### Main responsibilities:

International students in Chemnitz

- ✓ Providing advice and support to international students and graduates both before and during their studies in Chemnitz
- ✓ Buddy Programme: local students in Chemnitz are paired with new arrivals from abroad to offer them advice and support in their new surroundings
- ✓ Orientation Week for new international students, to help new students to settle in at CUT and to become familiar with the city of Chemnitz
- ✓ Courses in German Language, Civilization and Culture



### Studying and internships abroad

- ✓ Support: students service and studying abroad
- ✓ ERASMUS: 200 ERASMUS partner universities offer students excellent opportunities for exchange
- ✓ Fulbright Commission, German Academic Exchange Service (DAAD)
- ✓ Partnerships (including support programmes): more than 100 direct partnership agreements with universities worldwide



#### International Office

☎ 0049 (0)371 531 - 13500  
☎ 0049 (0)371 531 - 13509  
✉ [iuz@tu-chemnitz.de](mailto:iuz@tu-chemnitz.de)  
🌐 [www.tu-chemnitz.de/international](http://www.tu-chemnitz.de/international)

#### University library

☎ 0371 531 - 13180 (information)  
☎ 0371 531 - 13190 (issue)  
✉ [service@bibliothek.tu-chemnitz.de](mailto:service@bibliothek.tu-chemnitz.de)  
🌐 [www.bibliothek.tu-chemnitz.de](http://www.bibliothek.tu-chemnitz.de)