“Before I started studying in Cottbus, I spent one year learning in Germany learning the language. I got to visit several universities and BTU seemed just perfect for me. This is because of the small number of students, the vast nationalities and the facilities offered by the university.”

Fah Senja, Indonesia, Architecture student
MAIN FOCUS AREAS

FACULTY 1
Mathematics, Computer Science, Physics, Electrical Engineering and Information Technology

FACULTY 2
Environment and Natural Sciences

FACULTY 3
Mechanical Engineering, Electrical and Energy Systems

FACULTY 4
Social Work, Health Care and Music

FACULTY 5
Business, Law and Social Sciences

FACULTY 6
Architecture, Civil Engineering and Urban Planning
# STUDY PROGRAMMES

## BACHELOR - ENGLISH SPEAKING

<table>
<thead>
<tr>
<th>Program</th>
<th>Language</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental and Resource Management</td>
<td>en</td>
<td>B.Sc.</td>
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</table>

## MASTER - ENGLISH SPEAKING

<table>
<thead>
<tr>
<th>Program</th>
<th>Language</th>
<th>Degree</th>
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</thead>
<tbody>
<tr>
<td>Biotechnology</td>
<td>en</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>Cyber Security</td>
<td>en</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>Environmental and Resource Management</td>
<td>en</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>Power Engineering</td>
<td>en</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>World Heritage Studies</td>
<td>en</td>
<td>M.A.</td>
</tr>
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</table>

## PH.D. - ENGLISH SPEAKING

<table>
<thead>
<tr>
<th>Program</th>
<th>Language</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental and Resource Management</td>
<td>en</td>
<td>Ph.D.</td>
</tr>
<tr>
<td>Dependable Systems</td>
<td>en</td>
<td>Ph.D.</td>
</tr>
<tr>
<td>Heritage Studies</td>
<td>en</td>
<td>Ph.D.</td>
</tr>
</tbody>
</table>

More study programmes: [https://www.b-tu.de/en/study/study-programmes](https://www.b-tu.de/en/study/study-programmes)
LIVING

- Dorms offered close to university (through www.studentenwerk-frankfurt.de)
- Shared appartments (check out http://www.wg-gesucht.de/en/)
SPORTS
Brandenburg University of Technology Cottbus - Senftenberg
International Relations Office
Platz der Deutschen Einheit 1
03046 Cottbus

Veronika Körösi
Veronika.koeroes@b-tu.de

E internationaladmission@b-tu.de
I www.b-tu.de/en/international
INEXPENSIVE COST OF LIVING

- No student fees
- Low cost of living in Cottbus
- Comfortable life on a student budget
- Leisure activities both in and around Cottbus are inexpensive
- Semester ticket for travelling to Berlin, Dresden or another place in the entire state of Brandenburg and Berlin for free
Power Engineering M.Sc. is an international master's programme which aims to convey knowledge of sustainable energy supply in the European context. The main focus of teaching centres on the concept of safe, affordable and environmentally friendly energy generation as one of the most urgent global challenges of the 21st century. The programme cooperates closely with regional and national energy providers in order to ensure practically oriented training, which should enable students to conduct independent and applied research. The programme covers the entire spectrum of energy research in the field of traditional as well as renewable energies and is highly industry-oriented, with about one third of all lectures and seminars given by lecturers from industry. Within the programme Power Engineering there are two different branches of study:

- Electrical Power Engineering
- Power Generation from Fossil and Renewable Fuels

The duration of the programme is four semesters (2 years) in total. It is only possible to begin the programme in the winter semester (first half of October each year).

**GENERAL INFORMATION**

**Language of instruction:** English

**Degree obtained:** Master of Science (M.Sc.)

**Type of studies:** Full time

**Accreditation:** none

**Prescribed period of studies:** 4 semesters

**Start of studies:** Every winter semester

**Website:** www.tu-braunschweig.de/powerengineering

**ADMISSION REQUIREMENTS**

- First academic degree (Bachelor level) with a standard period of study of at least six semesters preferably in the fields of electrical or thermal power engineering
- Basic mathematics, physics, computer science, and electrical or mechanical engineering
- Proof of proficiency in English

Further information see chapter about application and admission.

**CAREER OPPORTUNITIES**

- Work in the areas of university and industrial research and development
- Design, manufacturing and sales of technical products
- Work as engineers, supervisors or managers in the power industry and supply utilities field
- Work in the fields of power generation, transmission, distribution and application

---

**Module Overview**

<table>
<thead>
<tr>
<th>Modules</th>
<th>Credit points per Semester</th>
<th>C/+/C+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Modules (choose 18 CP)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction Electrical Power</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Control Engineering 1</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Control Engineering 2</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Power System Economics 1</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Power System Economics 2</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>International Management</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Modules for Specialisation in “Power Systems” (choose 18 CP)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium and Low Voltage Technologies</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Switching Technologies</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Calculation of Grids with Renewable Sources</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Power System Operation</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>EMC in Power Installations</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Auxiliary Power Supply of Power Plants</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Modules for Specialisation in Power Electronics and Drive Systems (choose 18 CP)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fundamentals in Power Electronics</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Power Applications on Drive Systems</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Power Applications in High Voltage Cables</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Generators and Large Drives</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Research Seminar in Power Electronics</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Modules for Specialisation in Power Electronics and Drive Systems (choose 18 CP)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Plant Technology 1</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Power Plant Technology 2</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Technical Computation</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Special Chapters of Technical Computation</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Fundamentals in Thermal Power Engineering</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Thermal Power Engineering and Fluids Thermodynamics</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Modules for Specialisation in Power Electronics and Drive Systems (choose 18 CP)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Generation from Wind Energy</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Power Generation from Solar Energy</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Power Generation from Hydro Power</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Energy Storage Technology</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Renewable Hybrid and Virtual Power Plants</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Final Selection Modules in Engineering (choose 18 CP from the ETU Cuttack Semester)</td>
<td></td>
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</tr>
<tr>
<td>General (Interdisciplinary) Studies</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Industrial Internship</td>
<td>6 (C)</td>
<td></td>
</tr>
<tr>
<td>Master Thesis</td>
<td>30 (C)</td>
<td></td>
</tr>
</tbody>
</table>

CP = Credit Points  C = Compulsory  Ce = Compulsory elective
»Being a part of the BTU Power Engineering programme has not only helped me to pursue my professional aspirations further, but has also surrounded me with cultures, outlooks and opinions from every corner of the world that are all driven by one collective goal: collaboration and innovation.«

Daniel Huck, United States of America, Power Engineering student

POWER ENGINEERING DOUBLE DEGREE

There is the opportunity to pursue a double degree within the master's programme Power Engineering.

BTU Cottbus-Senftenberg has signed double degree agreements with six partner universities.
- National Chung Kung University, Tainan, Taiwan
- University of Shanghai for Science and Technology, China
- Shanghai University of Electric Power, China
- North China Electric Power University, Baoding, China
- Wroclaw University of Science and Technology, Poland
- St. Petersburg State Polytechnical University, Russian Federation
- Moscow Power Engineering Institute (in process)

On successful completion of the semesters at BTU and the semesters at the partner university (120 ECTS credits including the master's thesis) both universities award a degree «Master of Science». Further information on the double degree can be found on:
CYBER SECURITY (M.SC.)

- **Programme Objective:**
  To equip graduates with the skills needed to design, implement and manage cyber security concepts

- **Career Opportunities:**
  - IT-industry
  - State organisations and administrations, military, large companies, small and medium-sized enterprises, data centres and news services
  - Cyber security research
Welcome Centre

The International Relations Office would like to welcome you to our university. In order to facilitate your arrival at BTU and also assist you throughout your stay, BTU has created a contact point.

The Welcome Centre is the main consulting and service point for all international researchers, PhD and doctoral students, postdocs and newly appointed professors who will be at BTU for more than three months.

We are here to support and advise you and your family with all non-academic and practical questions concerning both your work at BTU and your daily life in Cottbus and Senftenberg. The Welcome Centre would like to help you to quickly feel at home. Our goal is to make you feel welcome even before your arrival in Cottbus.

In order to best support you and allow for you to fully concentrate on your research or teaching, please contact the Welcome Centre as early as possible. We gladly welcome your questions, even if you are still abroad!

International students should contact the Student Activities Office.

Service

The Welcome Centre can provide students with contact information of the various service centres at BTU and all important institutions outside of the university. We also offer the following services for you and your family:

- Advice about formal requirements (Visa, registration, health insurance)
- Accompaniment to authorities
- Support when searching for accommodation
- Advice and support for family affairs (searching for suitable childcare or schools)
- Special events for international researchers and their families
- Contact information for BTU host institutes
BRIDGE TO STUDIES

• Contents:
  - Full-academic-year German language intensive course
  - Course-accompanying tutorials to improve the participants’ conversation skills
  - Subject-specific (propaedeutic) prep classes
  - Intercultural activities, field trips and excursions

• Requirements:
  - German language proficiency on at least B1 level (pursuant to the Common European Framework of Reference for Languages, CEFR)
  - Higher education entrance qualification
ADMISSION REQUIREMENTS

• **German higher education entrance qualification** (e.g. General Certificate of Education, at least one year of studying)

• **Proof of language proficiency necessary**

• **No admission exams**

• **Usually no numerus clausus (NC)**
LANGUAGE REQUIREMENTS

- **English-taught programmes**
  - TOEFL-Test (iBT) with at least 79 points or equivalent or proof of language skills in accordance with the registration regulations and technical examination and course guidelines →

- **German-taught programmes**
  - German language examination for university admission (DSH) level 2 or equivalent (such as TestDaF 4x4, DSD 2, telc Deutsch C1 Hochschule)
APPLY IN 3 STEPS

STEP 1
Choose a study program.

STEP 2
Prepare the documents needed.

STEP 3
Prepare the application form through uniassist.

For further information, take a look at: www.b-tu.de/en/study/applications-and-admissions
YOUR CAMPUS
About cottbus
Christin Handrek; 04.04.2017
CULTURAL HIGHLIGHTS

05 · YOUR CITY - COTTBUS
CULTURAL HIGHLIGHTS
HISTORIC IMPRESSIONS
For more impressions:  
video