

Clausthal University of Technology

Clausthal University of Technology is a small university with about 3,200 students, 90 professors and 420 scientific employees. The personal atmosphere for studies, the multitude of partner universities and the opportunity to be involved in the scientific work of a university renowned for its research represent the special attractiveness of Clausthal University of Technology for its students.

University sports

Clausthal University of Technology offers a wide range of sports classes for its 3,200 students. They can choose from about 100 classes for 60 kinds of sports. In a current CHE-Ranking Clausthal University of Technology comes off excellently with respect to the assessment of these offers by its students. The excellent sports offer thus represents an additional benefit in the life of its students.



Start of studies

It is recommended to start in the winter semester (1 October), but a start in the summer semester (1 April) is also possible.

Admission of Foreign Students

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Departmental Advisory Office

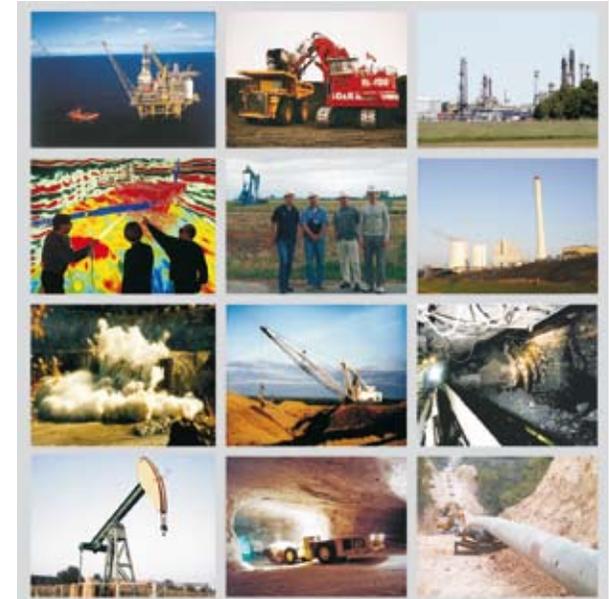
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Internet

www.tu-clausthal.de
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Bachelor of Science Energy and Mineral Commodities



Energy and Mineral Commodities

The six-semester Bachelor of Science (B.Sc.) degree course Energy and Mineral Commodities is a modular course and subdivides into two optional areas of specialization: Energy and Mineral Commodities Supply Technology and Petroleum Engineering. The Bachelor's degree course scientifically qualifies its graduates for operational functions requiring fundamental and state-of-the-art knowledge and methods supplemented by management and communication skills.

Professional Profile and Job Market

Energy and mineral commodities engineers perform analyzing, advisory and planning functions. Employment possibilities range from the energy and extractive industry to

- the primary industry
- the processing and further processing of mineral resources
- the petroleum industry
- the construction and operation of underground storage facilities and pipelines
- energy production, supply and management
- consulting and engineering companies
- municipal water and power supply
- authorities, national and international institutions and organisations

Course Structure

Lectures and seminars with related content are summarized in modules. The six-semester Bachelor's course consists of 16 modules:

Modules of the Bachelor's Course Energy and Mineral Commodities Technology	
Petroleum Engineering	B 16 – Geoscientific principles of oil and gas production B 17 – Reservoir engineering B 18 – Deep drilling technology B 19 – Natural gas/petroleum production engineering
Subject-specific modules	B 11 – Mineral Commodities Supply Technology I B 12 – Mineral Commodities Supply Technology II B 13 – Mineral commodities processing B 14 – Geoinformatics B 15 – Rock and soil mechanics
Modules with slight differences	B 9 – Principles of business management B 10 – Principles of law
Identical modules	B 1 – Mathematics for engineers B 2 – Data processing B 3 – Introduction to physics B 4 – Engineering mechanics B 5 – Introduction to geosciences B 6 – Introduction to chemistry B 7 – Introduction to electrical engineering B 8 – Introduction to mechanical engineering B 20 – Safety and health B 21 – Communication B 22 – Industry internship B 23 – Bachelor's thesis

Subject-specific modules may be selected according to personal interest. The course is accompanied by internships in industry and ends with the bachelor's thesis. The workload of this Bachelor's course corresponds to 180 ECTS points.

The specialization (Energy and Mineral Commodities Supply Technology or Petroleum Engineering) should be selected until the third semester of your studies. It is, however, possible to change this specialization if the prescribed exams are made up for.

Admission Requirements

To study at Clausthal University of Technology you require the general qualification for university entrance. For further information on the admission of foreign students please see <http://www.izc.tu-clausthal.de/en/aaa/auslaenderzulassung/>.

Bachelor of Science: An internationally recognized degree

In more than 40 European states a new two-tier study system is being introduced until 2010. In Germany the former Diplom courses will also be replaced by Bachelor's and Master's degree courses. A Common European Higher Education Area is thus being established allowing for a high degree of mobility already during your studies.

The Bachelor's degree represents a first degree demonstrating professional qualifications and is awarded after three years. The Bachelor's degree can be followed by a Master's degree course in Energy and Mineral Commodities Supply Technology, Petroleum Engineering, Geoenvironmental Engineering or Radioactive and Hazardous Waste Management or in an adjacent subject area.