



TU Clausthal

International Classes in Science and Engineering



Internationales Zentrum Clausthal (IZC)
International Center Clausthal (IZC)



TU Clausthal welcomes exchange students from all over the world

The Clausthal University of Technology is an internationally renowned institution. Founded in 1775 as a royal college for the mining industry, we have a strong tradition in engineering and natural sciences. Essentially, we are bridging the gap between tradition and innovation. Since 2009, TU Clausthal has been a member of the Niedersächsische Technische Hochschule (Niedersachsen Institutes of Technology, NTH), a cooperation of three technical universities. Combining the engineering and scientific expertise of Lower Saxony, we are considered one of the best universities of technology in the world.

In three innovative centers, the Energy Research Center of Niedersachsen (EFZN), the Clausthal Center of Materials Engineering (CZM) and the Center of Simulation (SWZ), we aim to link applied research to natural sciences, engineering and economics.

3,600 students, including 1,200 international students, are currently studying at TU Clausthal. Due to the fact that the university is manageable in size, the students and teaching staff have been able to develop a good personal rapport, with a ratio of teacher to student at 1:8; these are the best conditions for the students' success. Young people from all over the world enjoy a different and unique way of studying in Clausthal: it is the personal atmosphere and the practice-oriented education (a combination of liberal and professional education and practical experience) in an idyllic location that make TU Clausthal so distinctive.

Clausthal is located in central Germany, in the scenic Harz Mountain National Park. It is 100 km away from Hannover, 260 km from Berlin and 330 km from Frankfurt.

Studying in Clausthal is a great chance for all students who wish to orient their lives and studies internationally and work towards a more globalized world.

Please note that this is only a selection of lectures and that not every lecture will be held each semester.

Stereochemistry

Prof. Dr.rer.nat. Schmidt

1,5

**Reaction Mechanisms and
Reactive Intermediates**

Prof. Dr.rer.nat. Schmidt

3

Heterocycles 1 + 2

Prof. Dr.rer.nat. Schmidt

3

Small Ring Chemistry

N.N.

3

**Some Modern Methods of
Heterocyclic Chemistry (Seminar)**

Prof. Dr.rer.nat. Schmidt

1

Advanced Biochemistry

Prof. Dr.rer.nat. Schmidt

3

Natural Products / Naturstoffchemie

Prof. Dr.rer.nat. Schmidt

3



Seminar of Modern Methods of Metal Chemistry	Prof. Dr. rer.nat. Kaufmann	3
Organometallic Chemistry II (Transition Metals)	Prof. Dr. rer.nat. Kaufmann	3
Design of Organic Synthesis	Prof. Dr. rer.nat. Kaufmann	4
Metal Forming Processes I	Prof. Dr.-Ing. Palkowski	4,5/4*
Forming Processes II	Prof. Dr.-Ing. Palkowski	4
Simulation of Rolling Mills with HYBRES	Prof. Dr.-Ing. Palkowski	4
Computational Materials Science	Prof. Dr.-Ing. Palkowski	4
Preparation of Polymer Latices	Prof. Dr.rer.nat. Johannsmann	1
Building Materials Technology	Prof. Dr.-Ing. Dr. Wolter	3/4/4,5*



**Economic Analysis of Institutions:
Contracts and the Nature of the Firm**

Prof. Dr. Erlei

3

**Human Resource Management
and Leadership**

Prof. Dr. Deuer

3

Environmental Economics

Prof. Dr. Menges

3

TOPSIM – Global Management

Prof. Dr. Pfau

5

Current Issues on International Accounting

Prof. Dr. Wulf

5

Power Electronics

Prof. Dr.-Ing. Beck

4

**Legal Aspects of Liberalisation
Institute of German and International
Mining and Energy Law**

Prof. Dr.-Ing. Dr. Weyer

3

Underground Mining Methods I

Prof. Dr. Langefeld

2

Underground Mining Methods II

Prof. Dr. Langefeld

2

Conveying and Hauling Technology

Prof. Dr. Langefeld

2

Mining and Financial Engineering

Prof. Dr.-Ing. Tudeshki

3

Reservoir / Project Management

Prof. Dr.-Ing. Reinicke

3

Gas Transport I

Prof. Dr.-Ing. Homann

4

Gas Distribution	Dr.-Ing. Klocke	3
Gas Transport, Dispatching and Logistics	Prof. Dr.-Ing. Müller-Kirchenbauer	3
Advanced HC Conditioning and Processing II	Prof. Dr.-Ing. Müller-Kirchenbauer	2,5
Presentation and Negotiation Skills	Ms. Zulechner/ Dr. Pawellek	3
Process Control Engineering	Prof. Dr.-Ing. Paraschiv	4,5
Energy Law	Dr. Wolkewitz	3
Advanced Petroleum Production	Prof. Dr.-Ing. Reinicke	4,5
Advanced Drilling Technology	Dr.-Ing. Teodoriu	5
Stimulation Technology	Dr.-Ing. Lungwitz/ Dipl.-Ing. Holzmann	4,5
Offshore Production and Structures	Prof. Dr.-Ing. Dr. mont. Reichetseder	3
Advanced Natural Gas Production	Prof. Dr.-Ing. Dr. Reinicke	4,5
Gas Utilization	Dr.-Ing. Hüppelshäuser	3
Thermodynamics PE	Prof. Dr.-Ing. Groß	3
Health, Safety and Environmental Management	Mr. Söntgerath/ Dr. Pawellek	2
Drilling Engineering II	Dr.-Ing. Teodoriu	3
Drilling Fluid Laboratory	Prof. Dr.-Ing. Reinicke	3

Hydro Carbon Production Systems Prof. Dr.-Ing. Reinicke	3
Oil and Gas Production Prof. Dr.-Ing. Reinicke	4
Group Project Seminar Prof. Dr.-Ing. Reinicke / Prof. Dr.-Ing. Ganzer	4
Group Project Prof. Dr.-Ing. Reinicke/ Prof. Dr.-Ing. Ganzer	12
Rock Mechanics II Prof. Dr.-Ing. Dr. Hou	4,5
Gas Transport, Dispatching and Logistics Prof. Dr.-Ing. Müller-Kirchenbauer	3
Advanced HC Conditioning and Processing I Dipl.-Ing. Liermann	2,5
Advanced HC Conditioning and Processing II Prof. Dr.-Ing. Müller-Kirchenbauer	2,5
Interpersonal Skills Dr.-Ing. Kraus	3
Management in the Petroleum Industry Prof. Dr.-Ing. Reinicke	3,5
Planning and Budgeting Dr.-Ing. Schäfer	3,5
Economic Aspects of Gas Transportation and Marketing Dipl.-Ing. Genge	3,5



Materials Engineering and Corrosion Prof. Dr.-Ing. Neubert	3
Oil and Gas Contracts Dr.-Ing. Lachmann	1,5
Advanced Drilling/Production Topics Prof. Dr.-Ing. Reinicke	4
Completion and Work Over Dr.-Ing. Teodoriu	4,5
Well Planning/Tiefbohrtechnik III Prof. Dr.-Ing. Reichetseder	4,5
Directional Drilling Dr.-Ing. Oppelt	4
Advanced Transportation and Storage Topics Prof. Dr.-Ing. Müller-Kirchenbauer	4
Design, Operations Maintenance Principles N.N.	3
General GSC Overview Prof. Dr.-Ing. Müller-Kirchenbauer	1,5
Gas Transport II Prof. Dr.-Ing. Müller-Kirchenbauer	3
Drilling Engineering I (Introduction to Drilling Engineering) Dr.-Ing. Teodoriu	3
Oil and Gas Production Systems Dipl.-Ing. Liermann	3
Heat Transfer I Prof. Dr.-Ing. Weber	4
Heat Transfer II Prof. Dr.-Ing. Weber	4,5/4*
Combustion Fundamentals Prof. Dr.-Ing. Weber	3/4/4/4,5*
High Temperature Processes Prof. Dr.-Ing. Weber	5

Chemical Thermodynamics Prof. Dr.-Ing. Weber/Prof. Dr.-Ing. Turek	4
Flow Through Porous Media Prof. Dr.-Ing. Ganzer	3
Applied Well Test Analysis Prof. Dr.-Ing. Ostrowski	3/4,5*
Enhanced Oil Recovery Prof. Dr.-Ing. Ganzer	3/4*
Thermodynamics and Phase Behavior of Hydrocarbons Prof. Dr.-Ing. Ganzer	5
Basics of Well Testing Methods Prof. Dr.-Ing. Ganzer	4
Fluid Flow in Porous Media Prof. Dr.-Ing. Ganzer	3
Reservoir Engineering Training Dr.-Ing. Reitenbach	4,5/4*
Advanced Reservoir Topics (Seminar) Prof. Dr.-Ing. Ganzer	4
Numerical Reservoir Simulation Prof. Dr.-Ing. Ganzer	4,5
Reservoir Model Validation Dr.-Ing. Schulze-Riegert	4
Enhanced Natural Gas Recovery Dr.-Ing. Reitenbach	4
Natural Gas Storage in Porous Media Dr.-Ing. Reitenbach	4
Reservoir Engineering I Prof. Dr.-Ing. Ganzer	4
Seminar Bachelor Petroleum Engineering Prof. Dr.-Ing. Ganzer	5
Building of Tunnels Prof. Dr.-Ing. Meyer	3

Faculty of Mathematics/Computer Science and Mechanical Engineering	ECTS-Credits
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Project- and Quality Management of Software & Systems Engineering Prof. Dr.-Ing. Rausch	4
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Complexity Theory Prof. Dr.-Ing. Dix	5
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Database Security Prof. Dr.-Ing. Hartmann	3
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Digital Systems Design Lab Prof. Dr. Kemnitz	5
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Fluid Mechanics Prof. Dr.-Ing. Brenner	3
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Computer-Supported Cooperative Work Prof. Dr. Pinkwart	6
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International Center Clausthal (IZC)	ECTS-Credits
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Intercultural Competence Various Lecturers	3
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German Language Training (Intensive Course, Level A 1.1) Various Lecturers	6
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German Language Training – all Levels Various Lecturers	6
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European and Non-European Languages Various Lecturers	2–6*
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* Depending on the study program

The International Center Clausthal (IZC) offers

Uni-Lotsen (Student Guides)

Uni-Lotsen are well-trained students who assist newly arriving international students in finding their way around Clausthal and making friends.

Intercultural Training

Our intercultural training courses address all students who wish to orient their lives and studies internationally and work towards a globalized world.

Events

The staff of the IZC regularly organizes presentations and field trips, so our students can find out more about Clausthal and Germany.

Internationaler Stammtisch (International roundtable)

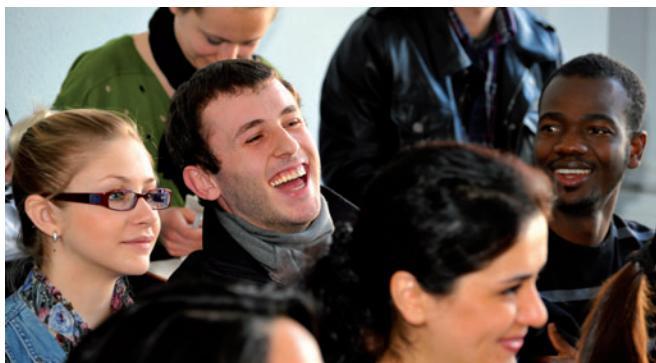
The IZC also organizes an Internationaler Stammtisch (International roundtable) where German and international students can discuss current events and various issues in a relaxed atmosphere.

Language Center

If you are interested in learning German or another foreign language, you will find a wide range of courses in our Language Center.

Information and Counseling

If you have any questions regarding your stay in TU Clausthal, the staff of the International Center Clausthal (IZC) will gladly help you find answers and solutions to your questions. We welcome you wholeheartedly and want to support you with your needs in any way possible.





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International Center Clausthal (IZC)

In cooperation with the university management and the institutes, the IZC coordinates the international relations and activities of the university. IZC is the central service point for international and German students as well as for university staff and faculty. Here you get information on studies and internships abroad as well as on language courses and events of the IZC.

The Language Center of the IZC offers a wide range of language courses. For students and university staff, participation in these courses is free. Furthermore, the Language Center coordinates language tandems.

We are looking forward to welcoming you!

Contact

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