



TU Clausthal

Classes Conducted in English (Winter/Summer Term)



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



Class	Academic Staff Responsible	Institute	Semester ²	ECTS
-------	----------------------------	-----------	-----------------------	------

Academic Commission 1: Physics, Chemistry and Materials Sciences

Modern Inorganic Chemistry ¹	Gjikaj, Mimoza, PD Dr. rer. nat.	Institute for Inorganic and Analytic Chemistry	1	3
Energiefunktionale Grenzflächen ¹	Daum, Winfried, Prof. Dr.	Institute of Energy Research and Physical Technologies	1	2
Photonik und Energie II ¹	Schade, Wolfgang, Prof. Dr. rer. nat.	Institute of Energy Research and Physical Technologies	1	4
Forschungspraktikum A/B ¹	Daum, Winfried, Prof. Dr. Maus-Friedrichs, Wolfgang, Apl. Prof. Dr. rer. nat. Schade, Wolfgang, Prof. Dr. rer. nat. Lilienkamp, Gerhard, Dr. rer. nat. Fritze, Holger, Prof. Dr. Schaadt, Daniel M., Prof. Dr.	Institute of Energy Research and Physical Technologies	1	14
Laborpraktikum und Methodenkenntnis ¹	Daum, Winfried, Prof. Dr. Maus-Friedrichs, Wolfgang, Apl. Prof. Dr. rer. nat. Schade, Wolfgang, Prof. Dr. rer. nat. Lilienkamp, Gerhard, Dr. rer. nat. Fritze, Holger, Prof. Dr. Schaadt, Daniel M., Prof. Dr.	Institute of Energy Research and Physical Technologies	1	

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Seminar Materialien und Bauelemente zur Energie-wandlung	Schaadt, Daniel M., Prof. Dr.	Institute of Energy Research and Physical Technologies	1/2	
Kolleg: Materialien und Prozesse ¹	Wolter, A., Prof. Dr. rer. nat.	Institute of Non-Metallic Materials	1	
Design of Organic Synthesis ¹	Kaufmann, Dieter, Prof. Dr. rer. nat.	Institute for Organic Chemistry	1	4
Named Reactions ¹	Schmidt, Andreas, Apl. Prof. Dr. rer. nat.	Institute for Organic Chemistry	1	3
Organic Biomaterials ¹	Schmidt, Andreas, Apl. Prof. Dr. rer. nat.	Institute for Organic Chemistry	1	2/3
Advanced NMR Methods ¹	Namyslo, Jan Christoph, Dr. rer. nat.	Institute for Organic Chemistry	1	3
Seminar for New Synthesis Methods ¹	Kaufmann, Dieter, Prof. Dr. rer. nat.	Institute for Organic Chemistry	1	2
Seminar for Organic Materials ¹	Kaufmann, Dieter, Prof. Dr. rer. nat.	Institute for Organic Chemistry	1	1/2
Seminar on Modern Methods of Metalorganic Chemistry ¹	Kaufmann, Dieter, Prof. Dr. rer. nat.	Institute for Organic Chemistry	1	
Some modern methods of heterocyclic Synthesis ¹	Schmidt, Andreas, Apl. Prof. Dr. rer. nat.	Institute for Organic Chemistry	1	
Bioactive Molecules ¹	Kaufmann, Dieter, Prof. Dr. rer. nat.	Institute for Organic Chemistry	2	3
Stereochemistry ¹	Schmidt, Andreas, Apl. Prof. Dr. rer. nat.	Institute for Organic Chemistry	2	2
Natural Products ¹	Schmidt, Andreas, Apl. Prof. Dr. rer. nat.	Institute for Organic Chemistry	2	3
Reaction Mechanisms and Reactive Intermediates ¹	Schmidt, Andreas, Apl. Prof. Dr. rer. nat.	Institute for Organic Chemistry	2	3
Seminar for Organic Materials (Modul Organische Material-chemie) ¹	Kaufmann, Dieter, Prof. Dr. rer. nat.	Institute for Organic Chemistry	2	

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Seminar on Modern Methods of Metalorganic Chemistry ¹	Kaufmann, Dieter, Prof. Dr. rer. nat.	Institute for Organic Chemistry	2	
Some modern methods of heterocyclic synthesis ¹	Schmidt, Andreas, Apl. Prof. Dr. rer. nat.	Institute for Organic Chemistry	2	
Aufbau, Verhalten und Charakterisierung von Polymeren ¹	Adams, Jörg, Dr. rer. nat.	Institute of Physical Chemistry	1	4
Moderne Polymermaterialien ¹	Johannsmann, Diethelm, Prof. Dr. rer. nat. habil	Institute of Physical Chemistry	1	1/2
Statistische Thermodynamik ¹	Adams, Jörg, Dr. rer. nat.	Institute of Physical Chemistry	1	1/2
Projektarbeit ¹	Adams, Jörg, Dr. rer. nat. Johannsmann, Diethelm, Prof. Dr. rer. nat. habil	Institute of Physical Chemistry	1/2	12
Industrieexkursion ¹	Meiners, Dieter, Prof. Dr.-Ing.	Institute of Physical Chemistry	1/2	
Assembly principles and technologies for FRP structures	Aranda-Gallardo, Santiago, Dr.-Ing., Dr.-Ing.	Institute for Polymer Material and Plastics Technology	1	
Industrieexkursion	Meiners, Dieter, Prof. Dr.-Ing.	Institute for Polymer Material and Plastics Technology	1/2	
Mechanisches Verhalten von Kunststoffen ¹	Steuernagel, Leif, Dr.	Institute for Polymer Material and Plastics Technology	2	4
Introduction to Solid State Theory ¹	Blöchl, Peter, Prof. Dr. rer. nat.	Institute for Theoretical Physics	1	
„Advanced Topics of Theoretical Physics“ I ¹	Blöchl, Peter, Prof. Dr. rer. nat.	Institute for Theoretical Physics	1	
Pflichtpraktikum Chemische Vertiefung ¹	Blöchl, Peter, Prof. Dr. rer. nat.	Institute for Theoretical Physics	1/2	

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Hands-on course on first-principles calculations ¹	Blöchl, Peter, Prof. Dr. rer. nat.	Institute for Theoretical Physics	2	3
Advanced Solid State Theory ¹	Blöchl, Peter, Prof. Dr. rer. nat.	Institute for Theoretical Physics	2	
Advanced Solid State Theory Übungen ¹	Blöchl, Peter, Prof. Dr. rer. nat.	Institute for Theoretical Physics	2	
IT-Datensicherung i. d. Theoretischen Physik für die Praxis ¹	Blöchl, Peter, Prof. Dr. rer. nat.	Institute for Theoretical Physics	2	
Materialanalytisches Seminar	Brokmeier, Heinz Günter, Prof. Dr. rer. nat.	Institute of Materials Science and Engineering	1/2	

Academic Commission 2: Energy and Natural Resources

Hydrometallurgy I ¹	Elwert, Tobias, Prof. Dr.-Ing.	Institute for Preparatory Processing, Landfill Technology and Geomechanics	1	
Applied Rock Mechanics	Düsterloh, Uwe, Apl. Prof. Dr.	Institute for Preparatory Processing, Landfill Technology and Geomechanics	1	4
Tutorial Applied Rock Mechanics	Düsterloh, Uwe, Apl. Prof. Dr.	Institute for Preparatory Processing, Landfill Technology and Geomechanics	1	2
Seminar Landfill Technology and Geomechanics	Lux, Karl-Heinz, Prof. Dr.-Ing. habil. Düsterloh, Uwe, Apl. Prof. Dr.	Institute for Preparatory Processing, Landfill Technology and Geomechanics	1/2	



Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Mobilisierung und Migration von Radionukliden im Untergrund ¹	Mönig, Jörg, Dr. rer. nat. Lux, Karl-Heinz, Prof. Dr.-Ing. habil.	Institute for Preparatory Processing, Landfill Technology and Geomechanics	2	3
Natural Gas Storage in Rock Caverns	Lux, Karl-Heinz, Prof. Dr.-Ing. habil.	Institute for Preparatory Processing, Landfill Technology and Geomechanics	2	3/4
Exkursion Deponietechnik / Abfallwirtschaft ¹	Korn, Axel, Dr.-Ing. Lux, Karl-Heinz, Prof. Dr.-Ing. habil.	Institute for Preparatory Processing, Landfill Technology and Geomechanics	2	
Advanced Rock Mechanics	Düsterloh, Uwe, Apl. Prof. Dr.	Institute for Preparatory Processing, Landfill Technology and Geomechanics	2	3
Tutorial Advanced Rock Mechanics	Düsterloh, Uwe, Apl. Prof. Dr.	Institute for Preparatory Processing, Landfill Technology and Geomechanics	2	3
Geomechanik Übungen / Praktikum zur Geomechanik ¹	Düsterloh, Uwe, Apl. Prof. Dr.	Institute for Preparatory Processing, Landfill Technology and Geomechanics	2	2
Oberseminar Deponietechnik und Geomechanik ¹	Düsterloh, Uwe, Apl. Prof. Dr. Lux, Karl-Heinz, Prof. Dr.-Ing. habil.	Institute for Preparatory Processing, Landfill Technology and Geomechanics	1/2	

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Underground Emergency Response I	Langefeld, Oliver, Prof. Dr.-Ing. Hermülheim, Walter, Prof.	Institute of Mining	1	3
International Geosciences and Mining	Langefeld, Oliver, Prof. Dr.-Ing.	Institute of Mining	1	
Mining and Finance (Mining and Financial Engineering)	Tudeshki, Hossein, Prof. Dr.-Ing. habil.	Institute of Mining	1	3
International Mining	Tudeshki, Hossein, Prof. Dr.-Ing. habil. Hardebusch, Thomas, Dipl.-Ing.	Institute of Mining	1/2	3
Tutorial for Underground Mine Planning	Spachtholz, Franz Xaver, Dr.-Ing. Langefeld, Oliver, Prof. Dr.-Ing.	Institute of Mining	1	3
Tutorial for Shaft Sinking and Deep Foundations	Ahlbrecht, Thomas Langefeld, Oliver, Prof. Dr.-Ing.	Institute of Mining	1	3
Advanced Underground Mining	Binder, Angela, M.Sc. Langefeld, Oliver, Prof. Dr.-Ing.	Institute of Mining	1	3
Wasserwirtschaft und Rekultivierung	Hardebusch, Thomas, Dipl.-Ing. Tudeshki, Hossein, Prof. Dr.-Ing. habil.	Institute of Mining	1	3
Mining and Environment	Tudeshki, Hossein, Prof. Dr.-Ing. habil.	Institute of Mining	1	3
Advanced Surface Mining	Tudeshki, Hossein, Prof. Dr.-Ing. habil.	Institute of Mining	1	3
Student Research Project	Langefeld, Oliver, Prof. Dr.-Ing.	Institute of Mining	1	6

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Seminar für Energie- und Rohstoffversorgungstechnik II ¹	Langefeld, Oliver, Prof. Dr.-Ing. Tudeshki, Hossein, Prof. Dr.-Ing. habil. Busch, Wolfgang, Prof. Dr.-Ing. Hardebusch, Thomas, Dipl.-Ing.	Insitute of Mining	1	5/11
Seminar Mining Engineering	Langefeld, Oliver, Prof. Dr.-Ing. Tudeshki, Hossein, Prof. Dr.-Ing. habil. Busch, Wolfgang, Prof. Dr.-Ing. Düsterloh, Uwe, Apl. Prof. Dr. Weber, Alfred P., Prof. Dr. rer. nat.	Insitute of Mining	1/2	3
Shaft Sinking and Deep Foundations	Langefeld, Oliver, Prof. Dr.-Ing.	Insitute of Mining	1	3
Excavation Machines	Langefeld, Oliver, Prof. Dr.-Ing.	Insitute of Mining	1	3
Software for Underground Mine Planning	Langefeld, Oliver, Prof. Dr.-Ing.	Insitute of Mining	1	3/4.5
Mentoring_IBB_1	Langefeld, Oliver, Prof. Dr.-Ing.	Insitute of Mining	1	
Underground Water Systems and Treatment	Lange, Andreas, Dr.-Ing.	Insitute of Mining	1	3
Sustainability in Underground Mining	Binder, Angela, M.Sc.	Insitute of Mining	1	3
Test Adv. Ventilation & Climatization in Underground Mining		Insitute of Mining	2	
Advanced Mine Ventilation and Climatization	Clausen, Elisabeth, Dr.-Ing.	Insitute of Mining	2	6

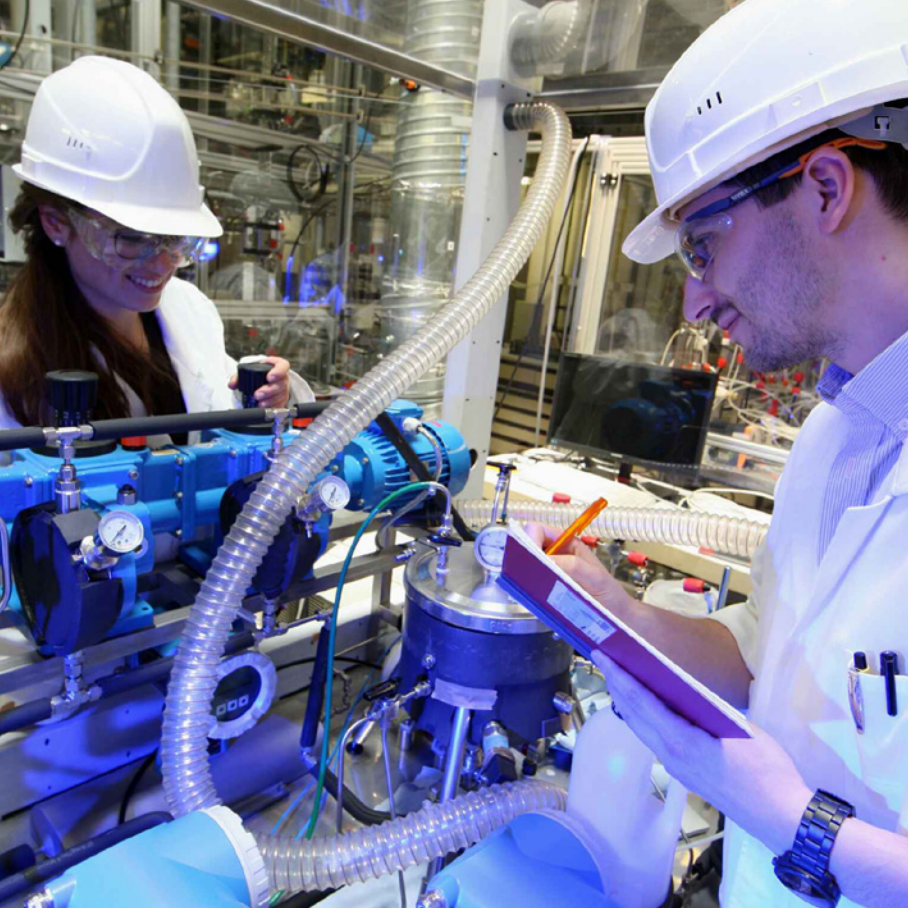
Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Mining Machinery and Equipment	Langefeld, Oliver, Prof. Dr.-Ing.	Institute of Mining	2	3
Specialized Driving Methods	Witthaus, Holger, Dr.	Institute of Mining	2	3
Underground Blasting	Triebel, Rüdiger, Dr.-Ing.	Institute of Mining	2	3
Underground Emergency Response II	Langefeld, Oliver, Prof. Dr.-Ing. Hermülheim, Walter, Prof.	Institute of Mining	2	3
Project Development in Underground Primary Production	Hollenberg, Thomas, Dr.	Institute of Mining	2	3
Economic Geology	Lehmann, Bernd, Prof. Dr. rer. nat.	Institute of Disposal Research	2	3
Verbrennungstechnik	Weber, Roman, Prof. Dr.-Ing.	Institute for Energy Process Engineering and Fuel Technology	1	3/4/5/6
Wärmeübertragung II	Weber, Roman, Prof. Dr.-Ing.	Institute for Energy Process Engineering and Fuel Technology	1	4
Wärmeübertragung I	Weber, Roman, Prof. Dr.-Ing.	Institute for Energy Process Engineering and Fuel Technology	2	4
Hochtemperaturtechnik zur Stoffbehandlung	Weber, Roman, Prof. Dr.-Ing.	Institute for Energy Process Engineering and Fuel Technology	2	4/5
Technical Thermodynamics II	Mancini, Marco, Dr.-Ing., M. Sc. phys.	Institute for Energy Process Engineering and Fuel Technology	2	4
Geological Modeling	Schatzmann, Sabine, Dipl.-Ing.	Institute of Petroleum Engineering	1	4.5/5

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Applied Well Test Analysis	Ostrowski, Lukasz, Prof. Dr.-Ing.	Institute of Petroleum Engineering	1/2	4/4.5/5
Enhanced Oil Recovery	Ganzer, Leonhard, Prof. Dr. mont.	Institute of Petroleum Engineering	1	4/5
Thermodynamics and Phase Behavior of Hydrocarbons	Ganzer, Leonhard, Prof. Dr. mont.	Institute of Petroleum Engineering	1	3/5
Well Planning	Schamp, Jürgen, Dr.-Ing.	Institute of Petroleum Engineering	1	5
Planning and Budgeting	Schäfer, Walter, Dr.	Institute of Petroleum Engineering	1	3
Energy Law II	Wolkewitz, Mathias, Dr. jur.	Institute of Petroleum Engineering	1	3
Integrated Project Management and Development	Reinicke, Kurt M., Prof. Dr.	Institute of Petroleum Engineering	1	6
Advanced Rock Physics	Wegner, Jonas, Dr.-Ing.	Institute of Petroleum Engineering	1	5
Advanced Drilling Technology	Thonhauser, Gerhard, Prof. Dr. Prohaska, Michael, Dr.	Institute of Petroleum Engineering	1	3,5,6
Offshore Production and Structures	Reichetseder, Peter, Prof. Dr. mont.	Institute of Petroleum Engineering	1	3
Advanced Production	Perozo Baptista, Nelson Rafael, Dr.-Ing.	Institute of Petroleum Engineering	1	4/4.5/5
Health, Safety and Environmental Management	Söntgerath, Klaus	Institute of Petroleum Engineering	1	2/3
Lagerstättentechnik II	Ganzer, Leonhard, Prof. Dr. mont.	Institute of Petroleum Engineering	1	7
Group Project	Ganzer, Leonhard, Prof. Dr. mont. Oppelt, Joachim, Prof. Dr.-Ing.	Institute of Petroleum Engineering	1	12
Energy Project Management	Reinicke, Kurt M., Prof. Dr.	Institute of Petroleum Engineering	1	3

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Direct Use / Heat Pumps	Liu, Xiaolei, M.Sc.	Institute of Petroleum Engineering	1	4
Geothermal Power Plants	Fichter, Carsten, Dr.-Ing.	Institute of Petroleum Engineering	1	4
Rock Mechanics II	Hou, Michael Zhengmeng, Prof. Dr.-Ing. habil.	Institute of Petroleum Engineering	1/2	4/4.5/5
Intercultural Competence	Böhlefeld, Klaudia	Institute of Petroleum Engineering	1	2/3
Applied Seismic Data Interpretation	von Haugwitz, Wolfram, Dr.	Institute of Petroleum Engineering	2	3/4/4.5
Advanced Reservoir Topics	Ganzer, Leonhard, Prof. Dr. mont.	Institute of Petroleum Engineering	2	4
Numerical Reservoir Simulation	Ganzer, Leonhard, Prof. Dr. mont. Bremeier, Martin, Prof. Dr. mont.	Institute of Petroleum Engineering	2	5
Reservoir Model Validation	Schulze-Riegert, Ralf, Dr.-Ing.	Institute of Petroleum Engineering	2	4
Enhanced Natural Gas Recovery	Reitenbach, Viktor, Dr.-Ing.	Institute of Petroleum Engineering	2	4
Advanced HC Conditioning and Processing I	Waldvogel, Ralf, Dipl.-Ing.	Institute of Petroleum Engineering	2	3/3.5
Interpersonal Skills	Spinneker, Marc Ludwig, M.Sc.			3
Natural Gas Storage	Reitenbach, Viktor, Dr.-Ing.	Institute of Petroleum Engineering	2	3/4
Materials Engineering and Corrosion	Neubert, Volkmar, Prof. Dr.-Ing.	Institute of Petroleum Engineering	2	3
Advanced Geothermal Engineering Topics	Oppelt, Joachim, Prof. Dr.-Ing. Ganzer, Leonhard, Prof. Dr. mont.	Institute of Petroleum Engineering	2	4

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Advanced Drilling/Production Topics	Oppelt, Joachim, Prof. Dr.-Ing. Holzmann, Javier, Dr.-Ing.	Institute of Petroleum Engineering	2	4
Completion and Workover	Teodoriu, Catalin, Prof. Dr.-Ing. habil.	Institute of Petroleum Engineering	2	4.5/5
Directional Drilling	Oppelt, Joachim, Prof. Dr.-Ing.	Institute of Petroleum Engineering	2	4
Project Work	Ganzer, Leonhard, Prof. Dr. mont.	Institute of Petroleum Engineering	2	6
Lagerstättentechnik I	Ganzer, Leonhard, Prof. Dr. mont.	Institute of Petroleum Engineering	2	4
Energy Law I	Wolkewitz, Mathias, Dr. jur.	Institute of Petroleum Engineering	2	2
Enhanced Production	Lungwitz, Bernhard, Dr. rer. nat.	Institute of Petroleum Engineering	2	4
Seminar Bachelor Petroleum Engineering	Ganzer, Leonhard, Prof. Dr. mont. Reitenbach, Viktor, Dr.-Ing.	Institute of Petroleum Engineering	2	5
Advanced Geostatistics (Geostatistics)	Müller, Rainer, Dr. rer. nat.	Institute of Geology and Paleontology	1	3/4.5/5
Geothermal Energy	Menesis Rioseco, Ernesto, Dr. rer. nat.	Institute of Geology and Paleontology	1	
Regional Hydrocarbon Systems	N.N.	Institute of Geology and Paleontology	1	3
Fractured Reservoir Modeling	Müller, Rainer, Dr. rer. nat.	Institute of Geology and Paleontology	2	4

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Well Logging II	Debschütz, Wolfgang G., Dr. rer. nat. Weller, Andreas, Prof. Dr. rer. nat. habil	Institute of Geophysics	2	4/4.5/5
Strata and Ground Movements	Wings, Roy , Dipl.-Ing.	Institute of Geo- technology and Mine Surveying	1	1.5/2
Mine Plans	Strassburger, Michael	Institute of Geo- technology and Mine Surveying	1	1
Basic Geoinformation Systems	Busch, Wolfgang, Prof. Dr.-Ing.	Institute of Geo- technology and Mine Surveying	1	4.5/5
Geoinformation Systems	Busch, Wolfgang, Prof. Dr.-Ing.	Institute of Geo- technology and Mine Surveying	1	3
Tutorial for Geoinformation Systems	Busch, Wolfgang, Prof. Dr.-Ing.	Institute of Geo- technology and Mine Surveying	1	1
Seminar für Energie- und Roh- stoffversorgungstechnik II ¹	Langefeld, Oliver, Prof. Dr.-Ing. Tudeshki, Hossein, Prof. Dr.-Ing. habil. Busch, Wolfgang, Prof. Dr.-Ing. Hardebusch, Thomas, Dipl.-Ing.	Institute of Geo- technology and Mine Surveying	2	5/11
Remote Sensing	Busch, Wolfgang, Prof. Dr.-Ing.	Institute of Geo- technology and Mine Surveying	2	2
Tutorial for Remote Sensing	Busch, Wolfgang, Prof. Dr.-Ing.	Institute of Geo- technology and Mine Surveying	2	1
GIS-based analysis and surface modelling	Busch, Wolfgang, Prof. Dr.-Ing.	Institute of Geo- technology and Mine Surveying	2	2



Class	Academic Staff Responsible	Institute	Semester ²	ECTS
-------	----------------------------	-----------	-----------------------	------

Academic Commission 3: Management and Economics

Business Model Management	Grahsl, Isabella, Dr. rer. pol.	Institute of Management and Economics	1	3
New Technologies and their influence on the Energy Industry	Golubnichiy, Nikita, Dr.	Institute of Management and Economics	/	3
Seminar: Agentenbasierte Modellierung von Marktprozessen	Erlei, Mathias, Prof. Dr.	Institute of Management and Economics	1	5
Geopolitical Aspects of the Energy Industry	Golubnichiy, Nikita, Dr.	Institute of Management and Economics	/	3
International Business Development	Golubnichiy, Nikita, Dr.	Institute of Management and Economics	/	5
Economic Analysis of Institutions: Contracts and the Nature of the Firm	Erlei, Mathias, Prof. Dr.	Institute of Management and Economics	1	3
Unternehmensplanspiel Global Management (Master) – Spielgruppen A und B	Bödding, Carolin, M.Sc.	Institute of Management and Economics	1	3
Environmental and Resource Economics	Menges, Roland, Prof. Dr.	Institute of Management and Economics	/	2
Intercultural Communication	Golubnichiy, Nikita, Dr.	Institute of Management and Economics	2	3
Innovation Management	Golubnichiy, Nikita, Dr.	Institute of Management and Economics	2	3

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Entrepreneurship and New Product Design and Development	Golubnichi, Nikita, Dr.	Institute of Management and Economics	2	5
New Strategies in the Global Energy Industry – Trends, Politics and Key Factors	Golubnichi, Nikita, Dr.	Institute of Management and Economics	2	3
Economic Behavior in Strategic Interactions	Erlei, Mathias, Prof. Dr.	Institute of Management and Economics	2	3
Entrepreneurship and New Product Design and Development	Golubnichi, Nikita, Dr.	Institute of Management and Economics	2	5/6
Student Innovation Lab	Pfau, Wolfgang, Prof. Dr. rer. pol.	Institute of Management and Economics	2	5
Wirtschaftsenglisch	Gür, Hakan, Dr. Rose, Andrew Böhlefeld, Klaudia	Institute of Management and Economics	1/2	4

Academic Commission 4: Mathematics and Informatics

Computational Modeling and Simulation II: Continuous time Systems	Möller, Dietmar P. F., Prof. Dr.-Ing.	Institute of Applied Stochastics and Operations Research	1	
Computational Stochastic Processes	Baumann, Hendrik, Dr. rer. nat.	Institute of Applied Stochastics and Operations Research	1	6
Car IT and Cybersecurity (CIT-CS) II – Individual Research Projects	Möller, Dietmar P. F., Prof. Dr.-Ing.	Institute of Applied Stochastics and Operations Research	1	

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Computational Modeling and Simulation I: Discrete Systems, Transatlantic Course	Möller, Dietmar P. F., Prof. Dr.-Ing.	Institute of Applied Stochastics and Operations Research	/	
Statistische Methoden des maschinellen Lernens	Möller, Annette, Dr.	Institute of Applied Stochastics and Operations Research	1/2	6
Approximation Algorithms	Westphal, Stephan, Prof. Dr.	Institute of Applied Stochastics and Operations Research	2	6
Car IT and Cybersecurity	Möller, Dietmar P. F., Prof. Dr.-Ing.	Institute of Applied Stochastics and Operations Research	2	
Summerschool on Flow and Transport in Terrestrial Systems	Ippisch, Olaf, Prof. Dr.	Institute of Mathematics	2	
Numerical Simulation of Transport Processes in Porous Media	Ippisch, Olaf, Prof. Dr.	Institute of Mathematics	2	6
Proseminar / Hauptseminar: Hot Topics in Computer Graphics ¹	Grosch, Thorsten, Prof. Dr.	Institute of Informatics	1	3/4
Embedded Systems Engineering II	Reinhardt, Andreas, Dr.	Institute of Informatics	1	4/5
Cooperation Systems	Prilla, Michael, Prof. Dr.	Institute of Informatics	1	6
Software Systems Engineering ¹	Rausch, Andreas, Prof. Dr.	Institute of Informatics	1	6
Simulation Engineering	Durak, Umut, Dr.	Institute of Informatics	1	5/6
Hauptseminar: Database as a Service ¹	Hartmann, Sven, Prof. Dr.	Institute of Informatics	1	6

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Proseminar / Hauptseminar: Cloud Computing mit OpenStack ¹	Richter, Harald, Prof. Dr.	Institute of Informatics	1	3/4
Proseminar / Hauptseminar: Cloud Computing mit Amazon Web Services ¹	Richter, Harald, Prof. Dr.	Institute of Informatics	1	3/4
ITIS Research Project	Hartmann, Sven, Prof. Dr.	Institute of Informatics	1	30
Project (Bachelor/Master): Embedded Systems	Reinhardt, Andreas, Dr.	Institute of Informatics	1	
Project (Bachelor/Master): Software Systems Engineering	Rausch, Andreas, Prof. Dr.	Institute of Informatics	1	9
ATLANTIS: Business Intelligence	Mattfeld, Dirk C., Prof. Dr. rer. pol. Müller, Jörg Philipp, Prof. Dr. rer. nat.	Institute of Informatics	1/2	6
ATLANTIS: Mobile Business	Breitner, Michael H., Prof. Dr. rer. nat. Müller, Jörg Philipp, Prof. Dr. rer. nat.	Institute of Informatics	1/2	6
Project and Quality Management in Software Systems Engineering	Kuhrmann, Marco, PD Dr.	Institute of Informatics	2	5/6
Web Information Systems ¹	Hartmann, Sven, Prof. Dr.	Institute of Informatics	2	6
Network Security	Reinhardt, Andreas, Dr.	Institute of Informatics	2	6
Graph Models and Simulation: Proseminar, Hauptseminar, Projekt	Durak, Umut, Dr.	Institute of Informatics	2	5/6
Proseminar: Moderne Datenbanktechnologien ¹	Hartmann, Sven, Prof. Dr.	Institute of Informatics	2	3

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Seminar: Grundlagen des Empirischen Software Engineering ¹	Rausch, Andreas, Prof. Dr.	Institute of Informatics	2	3
Proseminar / Hauptseminar: Cloud Computing mit Amazon Web Services ¹	Richter, Harald, Prof. Dr.	Institute of Informatics	2	3/4
Embedded Systems Project: Fortgeschrittenenprojekt, Bachelor/Master-Projekt ¹	Reinhardt, Andreas, Dr.	Institute of Informatics	2	

Academic Commission 5: Mechanical Engineering and Process Technology

Life Cycle Assessment (Ökobilanz) ¹	Minke, Christine, Dr.-Ing.	Institute of Chemical and Electrochemical Process Engineering	1	3
Computational Fluid Dynamics (CFD) für Verfahrenstechnik ¹	Wehinger, Gregor, Prof. Dr.-Ing.	Institute of Chemical and Electrochemical Process Engineering	1	4
Graduiertenseminar zur Elektrischen Informationstechnik (Englisch)	Rembe, Christian, Prof. Dr.-Ing. Bohn, Christian, Prof. Dr.-Ing.	Institute of Electrical Information Technology	1	2
Mineral Processing	Weber, Alfred P., Prof. Dr. rer. nat.	Institute of Particle Technology	1/2	3
Aufbau und Charakterisierung von funktionellen Nanopartikelschichten	Weber, Alfred P., Prof. Dr. rer. nat.	Institute of Particle Technology	1	2
Thermoelektrische Eigenschaften von Nanopulverelektroden	Weber, Alfred P., Prof. Dr. rer. nat.	Institute of Particle Technology	1	2
Basic principles of molecular dynamics	Gunkelmann, Nina, Jun.-Prof. Dr.	Institute of Applied Mechanics	1/2	4



Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Fluid Mechanics	Brenner, Gunther, Prof. Dr.-Ing.	Institute of Applied Mechanics	1	3
Basic principles of molecular dynamics	Gunkelmann, Nina, Jun.-Prof. Dr.	Institute of Applied Mechanics	2	4
Fachpraktikum Chromatographie ¹	Strube, Jochen, Prof. Dr.-Ing.	Institute of Separation and Process Technology	1	2
Fachpraktikum Kristallisation ¹	Strube, Jochen, Prof. Dr.-Ing.	Institute of Separation and Process Technology	1	2
Fachpraktikum Flüssig-Flüssig-Extraktion ¹	Strube, Jochen, Prof. Dr.-Ing.	Institute of Separation and Process Technology	1	2
Grundpraktikum VT/CIW/UST ¹	Strube, Jochen, Prof. Dr.-Ing.	Institute of Separation and Process Technology	2	

Language Center

General English for Beginners (A1)	Wiedling, Josephine	Language Center	1/2	4
General English Pre-Intermediate (B 1)	Muscher, Ilona	Language Center	1/2	4
General English Intermediate/ Upper Intermediate (B2)	Böhlefeld, Klaudia	Language Center	1/2	4
Applied English for Science and Technology	Rose, Andrew	Language Center	1/2	2
English Conversation	Rose, Andrew	Language Center	1/2	2

Class	Academic Staff Responsible	Institute	Semester ²	ECTS
Technisches Englisch	Gür, Hakan, Dr. Schulze-Bentrop, Jessica	Language Center	1/2	4
Technical Writing	Schulze-Bentrop, Jessica	Language Center	1/2	3
Wirtschaftsenglisch	Gür, Hakan, Dr. Rose, Andrew Böhlefeld, Klaudia	Language Center	1/2	3
Wirtschaftsenglisch II	Rose, Andrew	Language Center	1/2	2
Englisch – Vorbereitung auf den TOEFL-Test -General English neu	Jokari Sheshdeh, Milad	Language Center	1/2	4
English for International Commerce -TOEIC Preparation-	Gür, Hakan, Dr.	Language Center	1/2	3
English Refresher	Middleton, Cliff Weber, Renata	Language Center	1/2	4
English -Grammar-	Jokari Sheshdeh, Milad	Language Center	1/2	4
Improving English through Film	Schulze-Bentrop, Jessica	Language Center	1/2	4
Intercultural Competence	Böhlefeld, Klaudia	Language Center	1/2	3

Extracurricular Activities

Introduction into Intercultural Hermeneutics in Science and Religion	Fritsch-Oppermann, Sybille, Dr.	Language Center	1	2
--	---------------------------------	-----------------	---	---

1 Lecture and/or exam can be held in English, if required. Please check with lecturer.

2 Winter term (1), summer term (2)



Kontakt

Internationales Zentrum Clausthal (IZC)

Graupenstraße 11

38678 Clausthal-Zellerfeld

international@tu-clausthal.de

www.izc.tu-clausthal.de

