

Overview of courses in English for exchange students who are enrolled in a programme from department Chemical and Biological Engineering

Course	Term	ECTS	SWS	Lecturer	Examination number
Adsorption: Fundamentals and Applications (lecture and exercises)	WS	5	4	Prof. Thommes	50351
Advanced electrochemistry – from fundamentals to applications	WS	5 or 7,5 (with Lab)	4 or 4+3 (with Lab)	Prof. Mayrhofer	83901
Applied Thermofluid Dynamics	SS	5	3	Dipl.-Ing. Vojislav Jovicic	31101
Application of Cell Technology	WS	3	2	Prof. Boccaccini, Dr.-Ing. Detsch	18072
Basics in Advanced Processes 1	WS	2,5	2	PD Dr. Müller, PD Dr. Haumann	17511
Basics in Biomaterials and Bioprocessing 1 (Biomaterials)	WS	2,5	2	Prof. Boccaccini, Prof. Castiglione, Dr. Will	17561
Basics in Computational Materials Science and Process Simulation 1	WS	2,5	2	Prof. Engel, Prof. Bück	17611
Basics in Computational Materials Science and Process Simulation 2	SS	2,5	2	Dr.-Ing. Münsch, Dr. rer. nat. Wendler	17612
Basics in Nanomaterials and Nanotechnology 1	WS	2,5	2	Prof. Felfer, Prof. Vogel, Prof. Altstädt	17661
Biomaterial Interfaces (Bio Basics 2)	SS	2,5	2	Prof. Boccaccini, Prof. Virtanen	17562
Biomaterials for Tissue Engineering	SS	3	2	Prof. Boccaccini	18062
Biomimetic Synthesis of Materials	WS	3	2	Prof. Wolf	18071
Catalysis	WS	3,5	2	PD Dr. Haumann	18022
Chemical analysis and structure determination (Advanced Processes Basics 2)	SS	2,5	2	Dr. Schulz, Dr.-Ing Inayat, Dr. Mokrushina, Prof. Klupp Taylor	17512
Chemical Reaction Engineering	WS	5	2	PD Dr. Haumann	17021
Chemical Thermodynamics	WS	5	2	PD Dr. Müller	17161
Drying Technology (Trocknungstechnik)	WS	5	4	Prof. Bück	53351
Electronic Materials	WS	2,5	1	Prof. Brabec	17362
Energy Process Technology	SS	5	3	Prof. Hornung	42701
Environmental Thermodynamics (Umweltthermodynamik)	WS	5	3	Dr. Mokrushina	54651
Fluid Mechanics	WS	5	4	Dr.-Ing. Münsch	17111
Immobilisation of Cells and Characterisation of Membranes	SS	3	2	Prof. Freitag (Uni BT)	18061
Interface Engineering and Particle Technology	WS	5	4	Prof. Klupp Taylor	17061
Materials and Structure	WS	5	2	Prof. Spiecker, Prof. Will	17311
Mechanical Properties and Structure of Advanced Materials	WS	2,5	2	Prof. Göken, Dr.-Ing. Neumeier	18171
Medical Biotechnology (Vertiefung Medizinische Biotechnologie)	SS	5 or 7,5 (with Lab)	4 or 4+3 (with Lab)	Prof. Oliver Friedrich	43811
Multiscale Simulation Methods I	WS	3	2	Dr. Moretti	18122
Nanopolymers (Polymer Nanocomposites)	WS	2,5	1	Prof. Altstädt	18173
Nanoscale Surface Characterisation and Structures (Nano Basics 1)	SS	2,5	2	Dr.-Ing. Killian	17662
Nanotechnology of Disperse Systems	SS	5	3	Prof. Klupp Taylor	18161
Numerical Methods in Materials Science - Atomistic Modelling	SS	3	2	Prof. Bitzek	18111

Numerical Methods in Particle Technology	SS	5	3	Prof. Peukert	18112
Numerical fluid mechanics I (Numerische Methoden der Thermofluidodynamik I)	WS	5 or 7,5 (with Lab)	4 or 3+3 (with Lab)	Dr.-Ing. Münsch	54871
Numerical Fluid Mechanics II (Numerische Methoden der Thermofluidodynamik II)	SS	5 or 7,5 (with Lab)	3 or 3+3 (with Lab)	Dr.-Ing. Münsch	54861
Optical Technologies in Life Science	WS	5	4	Dr. Schürmann	57301
Optimization for Engineers	SS	5	3	Dr. Hild	40501
Phase Equilibria (Phasengleichgewichte)	SS	5	3	Dr. Mokrushina	54701
Physics of Turbulence and Turbulence Modelling I	SS	5	3	Prof. Jovanovic	52101
Physics of Turbulence and Turbulence Modelling II	WS	5	3	Prof. Jovanovic	52201
Polymer Materials	WS	5	2	Prof. Schubert, Prof. Vogel	17261
Polymer Science and Processes	WS	5	3	Prof. Vogel	53751
Polymerwerkstoffe in der Medizin / Polymeric Materials in Medicine	WS	3	2	Dr.-Ing. Kaschta	18073
Porous Materials: Preparation principles, production processes and spectroscopic characterization	WS	5	4	Dr. Inayat, Prof. Hartmann	18172
Process Technologies	SS	5	3	Prof. Freund, Prof. Kaspereit	18021
Reactors	SS	1,5	1	Dr. Datsevich	18011
Self Assembly on Surfaces (Selbstorganisation an Oberflächen)	SS	3	2	Prof. Halik	18162
Thermodynamics and Mechanics of Materials (MPI)	WS	5	2	Prof. Bitzek, Prof. Virtanen	17221
Thermophysical Properties of Working Materials in Process and Energy Engineering	SS	5 or 7,5 (with Lab)	4 or 4+3 (with Lab)	Prof. Fröba, Dr.-Ing. Rausch	49701
Thin films: processing, characterization and functionalities	SS	1,5	1	Prof. Brabec, Dr. Egelhaaf	18013