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	winter	5	2	Prof. Thommes u.a.	**50351**
Applied Thermofluid Dynamics (power train systems) for CBI,LSE, CEN and ET	winter	5	2+1	Prof. Wensing	**52901**
Applied Thermofluid Dynamics	summer	5	2+1	Dr.-Ing. Vojislav Jovicic u.a.	**31101**
Application of Cell Technology	winter	5	2	Dr.-Ing. Detsch, Prof. Boccaccini	**44751**
Basics in Advanced Processes 1	winter	2,5	2	Marco Haumann	**17511**
Basics in Biomaterials and Bioprocessing 1	winter	2,5	2	Prof. Boccaccini u.a.	**17561**
Basics in Computational Materials Science and Process Simulation 1	winter	2,5	2	Prof. Engel, Prof. Bück	**17611**
Basics in Computational Materials Science and Process Simulation 2	summer	2,5	2	Dr.-Ing. Münsch u.a.	**17612**
Basics in Nanomaterials and Nanotechnology 1 - Mechanical and Optical Properties	winter	2,5	2	Prof. Felfer, Prof. Vogel	**17661**
Biomaterial Interfaces	summer	1,5	2	Prof. Boccaccini, Prof. Virtanen	**17562**
Biomaterials for Tissue Engineering	summer	3	2	Prof. Boccaccini	**18062**
Biomimetic Synthesis of Materials	winter	1,5	2	Prof. Wolf	**18071**

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Course	**Term**	**ECTS**	**SWS**	**Lecturer**	**Examination number**
Biocatalytic Energy Systems	summer	5	2+3	Prof. Herkendell	**77551**
Catalysis	winter	3,5	2	Prof. Franken	**18022**
Chemical Reaction Engineering	winter	5	5	PD Dr. Haumann, Dr. Wolf	**17021**
Chemical Thermodynamics	winter	5	2	Dr. Mokrushina, Prof. Dr. Thommes	**17161**
Clean combustion technologies	summer	5 or 7,5 (with Lab)	2+3 or 2+3+3	Prof. Will, F. Bauer, M.Sc	**51111 (+51102)**
Drying Technology (Trocknungstechnik)	winter	5 or 7,5 (with Lab)	2+2 or 2+2+3	Prof. Bück	**53351 (+53361)**
Economics of climate change	winter	5	2+2	Prof. Grimm, Hr. Egerer	**32861**
Efficient heat transfer	summer	5	5	Dr.-Ing. Rausch, Prof. Fröba	**29111**
Electronic Materials (lecture and workshop)	winter	5	3	Prof. Brabec	**17362**
Energy Process Technology	summer	5	2+1	Prof. Hornung	**42701**
Electrochemistry	summer	5	2+3	Prof. Mayrhofer, Hr. Dworschak, Hr. Vasilyev	**27741**

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**
Experimental Fluid Mechanics	summer	5	3	Prof. Wierschem	**29331**
Fluid Mechanics	winter	5	4	Dr.-Ing. Münsch	**17111**
Foundations of chemical reaction engineering	winter	5	2+2	Prof. Wasserscheid, Dr. Schulz	**27711**
Fuel cells and electrolysers	winter	5	5	Prof. Thiele	**29181**
Fundamentals of electrical engineering	summer	5	2+2	Prof. Müller	**27761**
Immobilisation of Cells and Characterisation of Membranes	summer	3	2	Prof. Freitag (Uni BT)	**18061**
Interface Engineering and Particle Technology	winter/ summer	5	4	Prof. Klupp Taylor	**17061, 27731**
Life cycle assessment	summer	5	5	Prof. Hartmann, Dr.-Ing. Inayat	**29121**
Materials and Structure	winter	5	2	Dr. Johannes Will, Prof. Spiecker	**17311**
Materials and structure	summer	5	1+1+2	Prof. Spiecker, Dr. Will	**27751**
Mathematics for Engineers I	winter	7,5	4+2	Prof. Merz	**27651**
Mathematics for Engineers II	summer	7,5	4+2	Prof. Merz	**27671**

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**
Mathematics Ifor Engineers III	winter	7,5	4+2	Prof. Merz	**27691**
Mechanical Properties and Structure of Advanced Materials	winter	2,5	2	Prof. Göken, Dr.-Ing. Neumeier	**18171**
Medical Biotechnology (Vertiefung Medizinische Biotechnologie)	summer	5 or 7,5 (with Lab)	3 or 4+3	Dr. Vielreicher u.a.	**43811**
Microeconomics	winter	5	2+2	Prof. Grimm u.a.	**70071**
Microfluidics and microfluidic devices	winter	5	2+3	Prof. Thiele	**29341**
Measurement systems	winter	5	2+1+2	Prof. Klupp Taylor	**27781**
Nanopolymers (Polymer Nanocomposites)	winter	2,5	1	Prof. Altstädt	**18173**
Nanoscale Surface Characterisation and Structures	winter	2,5	2	Dr. Höhlinger	**17662**
Nanotechnology of Disperse Systems	summer	5	3	Prof. Klupp Taylor, Dr. Distaso	**18161**
Numerical Methods in Materials Science - Atomistic Modelling	summer	3	4	Prof. Bitzek, Dr.-Ing. Duancheng Ma	**18111**
Numerical Methods in Particle Technology	summer	4,5	2	Prof. Peukert	**18112**
Numerical fluid mechanics I (Numerische Methoden der Thermofluiddynamik I)	winter	5 or 7,5 (with Lab)	2 or 3+3 (with Lab)	Dr.-Ing. Münsch	**54871**

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**
Numerical Fluid Mechanics II (Numerische Methoden der Thermofludiddynamik II)	summer	5 or 7,5 (with Lab)	2 or 3+1 (with Lab)	Dr.-Ing. Münsch	**54861**
Optical Diagnostics in Energy and Process Engineering	winter	5 or 7,5 (with Lab)	2+2 or 2+2+3	Dr.-Ing. Huber, Prof. Will	**29351 (+29501)**
Optical Technologies in Life Science	winter	5	4	Dr. Schürmann	**57301**
Optimization for Engineers	summer	5	3	Dr. Hild	**40501**
Phase Equilibria (Phasengleichgewichte)	summer	5	3	Dr. Mokrushina	**54701**
Physics I	winter	5	3+1	Prof. van Eldik	**27661**
Physics II	summer	5	3+1	Prof. van Eldik	**27681**
Phosphors for Light Conversion in Photovoltaic Devices and LEDs	winter (+ lab in	5 or 7,5 (with Lab)	2+3 or 2+3+3	Prof. Batentschuk	**29021 (+29022)**
Physics of Turbulence and Turbulence Modelling I	summer	5	3	Prof. Jovanovic	**52101**
Physics of Turbulence and Turbulence Modelling II	winter	5	3	Prof. Jovanovic	**52201**
Polymer Materials	winter	5	2	Prof. Schubert, Prof. Vogel	**17261**
Polymer science and processing	winter	5	2+2	Prof. Vogel	**53751**

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**
Polymerwerkstoffe in der Medizin/Polymeric Materials in Medicine	winter	3	2	Dr.-Ing. Kaschta	**18073**
Process Control and Plant Safety	summer	5 or 7,5 (with Lab)	2+3 or 2+3+3	Prof. Bück	**29011 (+29012)**
Process simulation	summer	5 or 7,5 (with Lab)	2+1 or 2+1+3	Dr. Preuster	**29001 (+29002)**
Process systems dynamics 2	summer	5	2+3	Prof. Bück	**849343**
Process Technologies	summer	5	3	Prof. Hartmann, Prof. Kaspereit	**18021**
Pumps and turbines	winter	5	2+3	Prof. Becker	**29201**
Renewable energies	winter	5	2+2	Prof. Herkendell	**27721**
Renewable thermal power plants	winter	5	2+3	Prof. Wensing	**29211**
Self-organization processes	summer	5	2+3	Prof. Engel u.a.	**29361**
Scientific computing in engineering 1	summer	5	2+4	Prof. Harting	**27841**
Scientific computing in engineering 2	winter	5	2+2	Prof. Harting	**29321**
Thermodynamics heat and mass transfer	winter	7,5	4+2	Dr.-Ing. Rausch, Prof. Fröba	**27771**

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**
Thermodynamics and Mechanics of Materials	winter	5	2	Prof. Bitzek, Prof. Virtanen	**17221**
Thermophysical Properties of Working Materials in Process and Energy Engineering	summer	5 or 7,5 (with Lab)	4 or 4+3+1	Dr.-Ing. Koller u.a.	**49701 (+49702)**
Thin-film processing	winter	7 or 7,5 (with Lab)	2+3 or 2+3+3	Prof. Bück u.a.	**29051 (+29052)**
Thin films: processing, characterization and functionalities	summer	1	1	Dr. Egelhaaf	**18013**
Active project	winter	5	1+1+3 (Seminar)	different lecturers	**27931**
Power Electronics for Decentral Energy Systems	summer	5 or 7,5 (with Lab)	2+2 or 2+2+2	Prof. März	**29041 (+29042)**
MA Quantitative Methods in Energy Market Modelling	summer	5	2+3	Prof. Zöttl, Prof. Grimm	**25921**
Photovoltaic systems - Fundamentals	winter	5 or 7,5 (with Lab)	2+3 (+3)	Prof. Brabec	**29061 (+29062)**
Phosphors for Light Conversion in Photovoltaic Devices and LEDs	winter (+ lab in	5 or 7,5 (with Lab)	2+3 (+3)	Prof. Batentschuk	**29021 (+29022)**