

List is subject to change without further notice and no guarantee to be complete or correct!

Elective modules from the FAU-range (M12-M13) for Master CEP

Course	Term	ECTS	Lecturer	Examination number
Adsorption: Fundamentals and Applications	winter	5	Prof. Thommes u.a.	50351
Applied Thermofluid Dynamics (power train systems) for CBI,LSE, CEN and ET	summer	5	Prof. Wensing	52901
Applied Thermofluid Dynamics	summer	5	Dr.-Ing. Vojislav Jovicic u.a.	31101
Basics in Advanced Processes 1	winter	2,5	PD Marco Haumann	1752
Basics in Advanced Processes 2	summer	2,5	Prof. Robin Klupp Taylor	1753
Basics in Advanced Processes 1 + 2	winter + summer	5	Prof. Robin Klupp Taylor	1751
Basics in Computational Materials Science and Process Simulation 1	winter	2,5	Prof. Engel, Prof. Bück	1762
Basics in Computational Materials Science and Process Simulation 2	summer	2,5	Dr.-Ing. Münsch u.a.	1763
Basics in Computational Materials Science and Process Simulation 1 + 2	winter + summer	5	Prof. Engel, Prof. Bück	1761
Basics in Nanomaterials and Nanotechnology 1 - Mechanical and Optical Properties	winter	2,5	Prof. Felfer, Prof. Vogel	1763
Chemical Thermodynamics	winter	5	Dr. Mokrushina, Prof. Dr. Thommes	17161

Drying Technology (Trocknungstechnik)	winter	5	Prof. Bück	53351
Nanotechnology of Disperse Systems	winter + summer	5	Prof. Klupp Taylor, Dr. Distaso	18161
Numerical Methods in Particle Technology	summer	5	Prof. Peukert	18112
Numerical fluid mechanics I (Numerische Methoden der Thermofluiddynamik I)	winter	5	Dr.-Ing. Münsch	54871
Numerical Fluid Mechanics II (Numerische Methoden der Thermofluiddynamik II)	summer	5	Dr.-Ing. Münsch	54861
Phase Equilibria (Phasengleichgewichte)	summer	5	Dr. Mokrushina	54701
Physics of Turbulence and Turbulence Modelling I	summer	5	Prof. Jovanovic	52101
Physics of Turbulence and Turbulence Modelling II	winter	5	Prof. Jovanovic	52201
Process Technologies (Fabrikationsverfahren)	summer	5	Prof. Hartmann, Prof. Kaspereit	18021
Thermophysical Properties of Working Materials in Process and Energy Engineering	summer	5	Dr.-Ing. Koller u.a.	49701

Modules of B.Sc. CEP (list non-exhaustive) for M12 - M13

Foundations of chemical reaction engineering	winter	5	Prof. Peter Wasserscheid and Peter Schulz	27711
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Renewable energies	winter	5	Prof. Katharina Herkendell	27721
Interface engineering and particle technology	summer	5	Prof. Robin Klupp Taylor	27731
Electrochemistry	summer	5	Prof. Karl Mayerhofer	27741
Materials and structure	summer	5	Prof. Erdmann Spiecker	27751
Measurement systems	winter	5	Prof. Robin Klupp Taylor	27781
Thermodynamics and heat and mass transfer	winter	7,5	Prof. Andreas Paul Fröba and Michael Rausch	27771
Chemical thermodynamics	summer	5	Prof. Matthias Thommes	27791
Fluid dynamics	summer	5	Prof. Andreas Wierschem	27811
Chemical reaction engineering	summer	5	PD Marco Haumann	27821
Fundamentals of energy resources	summer	5	Prof. Martin Hartmann and Alexandra Inayat	27851