

# Process Safety and Environmental Engineering

## Selective Subjects (01.04.2023)

Selective subjects	Lecturer	SWS		
		WiSe	SoSe	CP
Advanced Process Systems Engineering	Prof. Sundmacher	4		5
Analysis and Design of Experiments	Xiang Zhang		3	4
Biodegradation of Contaminations	Dr. Moeller		1	2
Combustion Engineering	Prof. Beyrau	3		5
Computational Biology and Chemistry	HP Stein	4		5
Computational Fluid Dynamics	apl. Prof. Janiga	3	3	4
Control of Toxic Metal Emission	Prof. Köser	3		4
DE project: Visualization of Process Engineering Applications	Dr. Vorhauer-Huget	3	3	4
Dispersed Phase Systems in Chemical Engineering	Dr. Borchert		2	3
Drying technology	Dr. Kharaghani	3		4
Electrochemical Process Engineering	Dr. Vidakovic-Koch		3	4
Environmental Biotechnology	Dr. Benndorf	2		3
Fuel cells	Dr. Vidakovic-Koch	3		5
Fundamentals of Multiphase Flows	Prof. van Wachem/Dr. Evrard/Dr. Sewerin		4	5
Ignition processes and explosion protected devices	Dr. Beyer		2	3
Internship PSEE (min. 12 weeks)	Study Course Advisor / Prof. Krause			5
Mechanical Process Engineering	Prof. van Wachem		4	5
Modern organic synthesis	Prof. Schinzer		2	3
Nanoparticle technology	Dr. Hintz	3		4
Numerical simulation in explosion protection	Dr. Grosshans	2		3
Plant and apparatus engineering in solid-state process engineering design: design, implementation and problem solving	HP Peglow		3	4
Plant Design	Dr. Gabel	3		5
Process Control	Prof. Kienle / Dr. Disli-Kienle		3	4
Product quality in the chemical industry	Prof. Tsotsas / Dr. Kharaghani		3	4
Renewable Energies: Materials, Components, Function	Prof. M. Scheffler		3	5

Risk-based Effect Analysis (methods) (Blockveranstaltung)	Dr. Festag	15 h		2
Seminar Mechanical Process Engineering	Prof. van Wachem	4	4	5
Simulation of Mechanical Processes	Prof. van Wachem	3		5
Sustainability Assessment for Biofuels	Dr. Rihko-Struckmann		3	4
Thermal Power Plants	Prof. Beyrau		3	4
Transport phenomena in granular porous media	Prof. Tsotsas		3	5