Course of Study Process Engineering (Study Cohort w18)

Sample course plan B Master Process Engineering (VTMS) Specialisation Chemical Process Engineering

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LP	Semester 1	Form Hrs/w	kSemester 2	Form Hrs	/wkSemester 3	Form Hrs/w	vkSemester 4	Form Hrs/wk
1 2 3 4 5 6	Particle Technology and Solid Matter Technology Advanced Particle Technology II Advanced Particle Technology II Experimental Course Particle Technology	VL 2 PBL 1	Advanced Chemical Reaction Engineer Chemical Reaction Engineering Chemical Reaction Engineering Experimental Course Chemical Engineering	ering VL 2 HÜ 2 PR 2	Process Design Project Process Design Project	РК б	Master Thesis	
7 8 9 10 11 12	Transport Processes Heat & Mass Transfer in Process Engineering Multiphase Flows Reactor Design Using Local Transport Processes	VL 2 VL 2 PBL 2	Bioprocess and Biosystems Engineer Bioreactor Design and Operation Biosystems Engineering Bioreactors and Biosystems Engineering	VL 2 VL 2	Applied Thermodynamics: Thermod Properties for Industrial ApplicationApplied Thermodynamics: Thermodynamic Properties for Industria ApplicationsApplied Thermodynamics: Thermodynamic Properties for Industria Applied Thermodynamics: Thermodynamic Properties for Industria Applications	VL 4 UE 2		
13 14 15 16 17 18 19	Process and Plant Engineering II Process and Plant Engineering II Process and Plant Engineering II Process and Plant Engineering II Fluid Mechanics in Process Engineer	VL 2 HÜ 1 UE 1	Computer Aided Process Engineering CAPE with Computer Exercises Methods of Process Safety and Dangerous Substances Heterogeneous Catalysis	(CAPE) VL 2 VL 2	Synthesis and Design of Industrial I Synthesis and Design of Industrial Facilities Industrial Plant Design and Economics Examples in Solid Process Engineer	VL 1 PBL 3		
20 21 22 23 24 25	Fluid Mechanics II Applications of Fluid Mechanics in Process Engineering	VL 2 HÜ 2	Analysis and Design of Heterogeneous Catalytic Reactors Modern Methods in Heterogeneous Catalysis Modern Methods in Heterogeneous Catalysis	VL 2 VL 2 PR 2	Technical Applications of Particle Technology Practical Course Fluidization Technology Exercises in Fluidization Technology	UE 1		
26 27 28 29 30	Business & Management (from catalogue)				Research Project Process Engineering Research Project in Process Engineering	-	-	
	Nontechnical Elective Complementary Courses for Master (from catalogue) - 6LP							

Specialisation Compulsory Focus Compulsory

Compulsory

Thesis Compulsory

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.