Course of Study Process Engineering (Study Cohort w18)

Sample course plan A Bachelor Process Engineering (VTBS)

#	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk	Semester 5	Form	Hrs/wk	Semester 6	Form	Hrs/wk
1	**Engineering Mechanics I**			**Engineering Mechanics II**			**Basics of Electrical Engineering**			**Fundamentals of Fluid Mechanics**			**Heat and Mass Transfer**			**Chemical Reaction Engineering (part 2)**		
2	Engineering Mechanics I	VL	3	Engineering Mechanics II	VL	3	Basics of Electrical Engineering	VL	3	Fundamentals of Fluid Mechanics	VL	2	Heat and Mass Transfer	VL	2	Experimental Course Chemical Engineering	PR	2
3	Engineering Mechanics I	GÜ	2	Engineering Mechanics II	GÜ	2	Basics of Electrical Engineering	GÜ	2	Fluid Mechanics for Process Engineering	HÜ	2	Heat and Mass Transfer	GÜ	1	**Process and Plant Engineering I**		
4		HÜ											Heat and Mass Transfer	HÜ	1	Process and Plant Engineering I	VL	2
5																Process and Plant Engineering I	HÜ	1
6																Process and Plant Engineering I	GÜ	1
7	**Mathematics I**			**Technical Thermodynamics I**			**Technical Thermodynamics II**			**Phase Equilibria Thermodynamics**			**Thermal Separation Processes**					
8	Linear Algebra I	VL	2	Technical Thermodynamics I	VL	2	Technical Thermodynamics II	VL	2	Phase Equilibria Thermodynamics	VL	2	Thermal Separation Processes	VL	2			
9	Linear Algebra I	GÜ	1	Technical Thermodynamics I	HÜ	1	Technical Thermodynamics II	HÜ	1	Phase Equilibria Thermodynamics	GÜ	1	Thermal Separation Processes	GÜ	2	**Particle Technology and Solids Process Engineering**		
10	Linear Algebra I	HÜ	1	Technical Thermodynamics I	GÜ	1	Technical Thermodynamics II	GÜ	1	Phase Equilibria Thermodynamics	HÜ	1	Thermal Separation Processes	HÜ	1	Particle Technology I	VL	2
11	Analysis I	VL	2										Separation Processes	PR	1	Particle Technology I	GÜ	1
12	Analysis I	GÜ	1													Particle Technology I	PR	2
13	Analysis I	HÜ	1	**Construction and Apparatus Engineering**			**Foundations of Management**			**Informatics for Process Engineers**			**Introduction to Control Systems**					
14				Construction and Apparatus Engineering	VL	2	Introduction to Management	VL	3	Numeric and Matlab	PR	2	Introduction to Control Systems	VL	2			
15				Construction and Apparatus Engineering	GÜ	2	Management Tutorial	HÜ	2	Informatics for Process Engineers	VL	2	Introduction to Control Systems	GÜ	2			
16	**General and Inorganic Chemistry**									Informatics for Process Engineers	GÜ	2				**Bachelor Thesis**		
17	General and Inorganic Chemistry	VL	3															
18	Fundamentals in Inorganic Chemistry	PR	3															
19	Fundamentals in Inorganic Chemistry	GÜ	1	**Mathematics II**			**Mathematics III**			**Bioprocess Engineering - Fundamentals**			**Chemical Reaction Engineering (part 1)**					
20				Linear Algebra II	VL	2	Analysis III	VL	2	Bioprocess Engineering - Fundamentals	VL	2	Chemical Reaction Engineering	VL	2			
21				Linear Algebra II	GÜ	1	Analysis III	GÜ	1	Bioprocess Engineering- Fundamentals	HÜ	2	Chemical Reaction Engineering	HÜ	2			
22	**Fundamentals of Process Engineering and Material Engineering**			Linear Algebra II	HÜ	1	Analysis III	HÜ	1	Bioprocess Engineering - Fundamental Practical Course	PR	2						
23	Introduction into Process Engineering/Bioprocess Engineering	VL	2	Analysis II	VL	2	Differential Equations 1	VL	2				**Measurement Technology for Mechanical Engineers**					
24	Fundamentals of material engineering	VL	2	Analysis II	HÜ	1	Differential Equations 1	GÜ	1				Measurement Technology for Mechanical Engineering	VL	2			
25	**Physics**			Analysis II	GÜ	1	Differential Equations 1	HÜ	1				Measurement Technology for Mechanical Engineering	HÜ	1			
26	Physics	VL	2							**Environmental Technology**			Practical Course: Measurement and Control Systems	PR	2			
27	Physics	GÜ	1							Environmental Assessment	VL	2						
28	Physics-Lab for VT/ BVT/ EUT	PR	2	**Organic Chemistry**			**Physical Chemistry**			Environmental Assessment	GÜ	1						
29				Organic Chemistry	VL	4	Physical Chemistry	VL	2									
30	**Fundamentals of technical drawing**			Organic Chemistry	PR	3	Physical Chemistry	PR	2									
31	Fundamentals of Technical Drawing	VL	1															
32	Fundamentals of Technical Drawing	HÜ	1															

| Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP |

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