

# Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w19)

Sample course plan A Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))  
Specialisation Process Engineering

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	FormHrs	Semester 2	FormHrs	Semester 3	FormHrs	Semester 4	FormHrs	Semester 5	FormHrs	Semester 6	FormHrs	Semester 7	FormHrs/wk												
1	<b>Chemistry (GES)</b>		<b>Technical Thermodynamics I</b>		<b>Technical Thermodynamics II</b>		<b>Fundamentals of Fluid Mechanics</b>		<b>Introduction to Control Systems</b>		<b>Foundations of Management</b>		<b>Advanced Internship GES</b>													
2															Chemistry I	VL 2	Technical Thermodynamics I	VL 2	Technical Thermodynamics II	VL 2	Fundamentals of Fluid Mechanics	VL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 3
3															Chemistry II	VL 2	Technical Thermodynamics I	HÜ 1	Technical Thermodynamics II	HÜ 1	Fluid Mechanics for Process Engineering	HÜ 2	Introduction to Control Systems	UE 2	Management Tutorial	HÜ 2
4															Chemistry I	HÜ 1	Technical Thermodynamics I	UE 1	Technical Thermodynamics II	UE 1						
5															Chemistry II	HÜ 1										
6																										
7	<b>Linear Algebra</b>		<b>Mathematical Analysis</b>		<b>Mathematics III</b>		<b>Phase Equilibria Thermodynamics</b>		<b>Heat and Mass Transfer</b>		<b>Chemical Reaction Engineering (part 2)</b>		<b>Bachelor Thesis</b>													
8															Linear Algebra	VL 4	Mathematical Analysis	VL 4	Analysis III	VL 2	Phase Equilibria Thermodynamics	VL 2	Heat and Mass Transfer	VL 2	Experimental Course Chemical Engineering	PR 2
9															Linear Algebra	HÜ 2	Mathematical Analysis	HÜ 2	Analysis III	UE 1	Phase Equilibria Thermodynamics	UE 1	Heat and Mass Transfer	UE 1		
10															Linear Algebra	UE 2	Mathematical Analysis	UE 2	Analysis III	HÜ 1	Phase Equilibria Thermodynamics	HÜ 1	Heat and Mass Transfer	HÜ 1	<b>Process and Plant Engineering I</b>	
11																			Differential Equations 1	VL 2	Phase Equilibria Thermodynamics				Process and Plant Engineering I	VL 2
12																			Differential Equations 1	UE 1	Phase Equilibria Thermodynamics				Process and Plant Engineering I	HÜ 1
13					Differential Equations 1	HÜ 1					Process and Plant Engineering I	UE 1														
14							<b>Signals and Systems</b>		<b>Thermal Separation Processes</b>		Thermal Separation Processes	UE 2	<b>Particle Technology and Solids Process Engineering</b>													
15	<b>Electrical Engineering I</b>		<b>Electrical Engineering II</b>		<b>Mechanics III (GES)</b>																					
16															Electrical Engineering I	VL 3	Electrical Engineering II	VL 3	Mechanics III	HÜ 1	Thermal Separation Processes	HÜ 1	Thermal Separation Processes	PR 1	Particle Technology I	VL 2
17															Electrical Engineering I	UE 2	Electrical Engineering II	UE 2	Mechanics III	UE 2	Thermal Separation Processes	PR 1	Separation Processes	PR 1	Particle Technology I	UE 1
18					Mechanics III	VL 3					Particle Technology I	PR 2														
19							<b>Bioprocess Engineering - Fundamentals</b>		<b>Chemical Reaction Engineering (part 1)</b>																	
20							Bioprocess Engineering - Fundamentals	VL 2	Chemical Reaction Engineering	VL 2	<b>Informatics for Process Engineers</b>															
21	<b>Mechanics I (GES)</b>		<b>Mechanics II (GES)</b>		<b>Computer Engineering</b>																					
22															Mechanics I	VL 2	Mechanics II	VL 2	Computer Engineering	VL 3	Bioprocess Engineering - Fundamentals	HÜ 2	Chemical Reaction Engineering	HÜ 2	Numeric and Matlab	PR 2
23															Mechanics I	HÜ 3	Mechanics II	HÜ 2	Computer Engineering	UE 1	Bioprocess Engineering - Fundamentals	PR 2	Chemical Reaction Engineering		Informatics for Process Engineers	VL 2
24																					Bioprocess Engineering - Fundamental Practical Course		<b>Measurement Technology for VT/ BVT</b>		Informatics for Process Engineers	UE 2
25									Measurement Technology	VL 2	Informatics for Process Engineers															
26									Physical Fundamentals of Measurement	VL 2																
27	<b>Programming in C</b>		<b>Fundamentals of Mechanical Engineering Design (GES)</b>		<b>Fundamentals of Process Engineering and Material</b>				Technology		<b>Environmental Technology</b>															
28	Programming in C	VL 1									Environmental	VL 2														

	Programming in C	PR 1	Fundamentals of Mechanical Engineering	VL 2	<b>Engineering</b> Introduction into Process Engineering/Bioprocess Engineering Fundamentals of material engineering	VL 2	Practical Course Measurement Technology	PR 2	Assessment Environmental Assessment	UE 1		
29	<b>Physics for Engineers (GES)</b>		Fundamentals of Mechanical Engineering	UE 2								
30	Physics for Engineers	VL 2										
31	Physics for Engineers	UE 1										
32												

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.