

# Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w17)

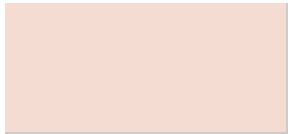
Sample course plan M Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))  
Specialisation Computer Science

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	Form hrs/Week	Semester 2	Form hrs/Week	Semester 3	Form hrs/Week	Semester 4	Form hrs/Week	Semester 5	Form hrs/Week	Semester 6	Form hrs/Week	Semester 7	Form hrs/Week									
1	<b>Chemistry (GES)</b> Chemistry I	VL 2	<b>Technical Thermodynamics I</b> Technical Thermodynamics I	VL 2	<b>Technical Thermodynamics II</b> Technical Thermodynamics II	VL 2	<b>Objectoriented Programming, Algorithms and Data Structures</b> Objectoriented Programming, Algorithms and Data Structures	VL 4	<b>Introduction to Control Systems</b> Introduction to Control Systems	VL 2	<b>Foundations of Management</b> Introduction to Management	VL 3	<b>Advanced Internship AIW/ GES</b>										
2		Chemistry II		HÜ 1		Technical Thermodynamics I		HÜ 1		Technical Thermodynamics II		HÜ 1		Objectoriented Programming, Algorithms and Data Structures	UE 2	Management Tutorial	HÜ 2						
3		Chemistry I		HÜ 1		Technical Thermodynamics I		UE 1		Technical Thermodynamics II		UE 1		Objectoriented Programming, Algorithms and Data Structures	UE 1								
4		Chemistry II		HÜ 1																			
5																							
6																							
7	<b>Linear Algebra</b> Linear Algebra	VL 4	<b>Mathematical Analysis</b> Mathematical Analysis	VL 4	<b>Mathematics III</b> Analysis III	VL 2	<b>Signals and Systems</b> Signals and Systems	VL 3	<b>Numerical Mathematics I</b> Numerical Mathematics I	VL 2	<b>Computability and Complexity Theory</b> Computability and Complexity Theory	VL 2											
8		Linear Algebra		HÜ 2		Mathematical Analysis		HÜ 2		Analysis III		UE 1		Signals and Systems	UE 2	Numerical Mathematics I	UE 2	Computability and Complexity Theory	UE 2				
9		Linear Algebra		UE 2		Mathematical Analysis		UE 2		Analysis III		HÜ 1				Numerical Mathematics I		Computability and Complexity Theory					
10										Differential Equations 1		VL 2						Computability and Complexity Theory					
11										Differential Equations 1		UE 1		<b>Stochastics</b> Stochastics	VL 2	<b>Seminars Computer Science and Mathematics</b> Seminar Computational Engineering Science	SE 2	<b>Software Engineering</b> Software Engineering	VL 2				
12										Differential Equations 1		HÜ 1			Stochastics		UE 2		Seminar Computational Engineering Science	SE 2	Software Engineering	UE 2	
13																							
14																							
15		<b>Electrical Engineering I</b> Electrical Engineering I		VL 3		<b>Electrical Engineering II</b> Electrical Engineering II		VL 3		<b>Mechanics III (GES)</b> Mechanics III		HÜ 1											
16				Electrical Engineering I				UE 2				Electrical Engineering II									UE 2	Mechanics III	VL 3
17				Electrical Engineering I				UE 2				Electrical Engineering II									UE 2	Mechanics III	VL 3
18				Electrical Engineering I				UE 2				Electrical Engineering II									UE 2	Mechanics III	VL 3
19														<b>Graph Theory and Optimization</b> Graph Theory and Optimization	VL 2	<b>Functional Programming</b> Functional Programming	VL 2	<b>Mathematical Statistics</b> Mathematical Statistics	VL 3	<b>Bachelor Thesis</b>			
20												Graph Theory and Optimization			UE 2		Functional Programming		HÜ 2		Mathematical Statistics	UE 1	
21	<b>Mechanics I (GES)</b> Mechanics I	VL 2	<b>Mechanics II (GES)</b> Mechanics II	VL 2	<b>Computer Engineering</b> Computer Engineering	VL 3	Graph Theory and Optimization	UE 2	Functional Programming	UE 2	Mathematical Statistics												
22		Mechanics I		HÜ 3		Mechanics II	HÜ 2	Computer Engineering	UE 1	Functional Programming													
23		Mechanics I		HÜ 3		Mechanics II	HÜ 2	Computer Engineering	UE 1	Functional Programming													
24																							
25							<b>Automata Theory and Formal Languages</b> Automata Theory and Formal Languages	VL 2															
26																							
27																							
28	<b>Programming in C</b>		<b>Fundamentals of</b>		<b>Discrete Algebraic</b>																		

	Programming in C	VL 1	<b>Mechanical Engineering (GES)</b>	<b>Structures</b>	Automata Theory and Formal Languages	UE 2	
	Programming in C	PR 1					
29	<b>Physics for Engineers (GES)</b>		Fundamentals of Mechanical Engineering	VL 2			
30							
31		Physics for Engineers	VL 2	Fundamentals of Mechanical Engineering	UE 2		
32		Physics for Engineers	UE 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.