

# Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w18)

Sample course plan C Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))  
Specialisation Mechanical Engineering, Focus Biomechanics

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	Semester 2	Form	Semester 3	Form	Semester 4	Form	Semester 5	Form	Semester 6	Form	Semester 7	Form						
1	<b>Chemistry (GES)</b>	VL 2	<b>Technical Thermodynamics I</b>	VL 2	<b>Technical Thermodynamics II</b>	VL 2	<b>Mechanical Engineering: Design (part 2)</b>	PBL2	<b>Computer Engineering</b>	VL 3	<b>Foundations of Management</b>	VL 3	<b>Advanced Internship AIW/ GES</b>							
2															Chemistry I	Technical Thermodynamics I	Technical Thermodynamics II	Team Project Design Methodology	Computer Engineering VL 3	Introduction to Management
3															Chemistry II	Technical Thermodynamics I	Technical Thermodynamics II	Mechanical Design Project II	Computer Engineering UE 1	Management Tutorial
4															Chemistry I	Technical Thermodynamics I	Technical Thermodynamics II			
5															Chemistry II	Technical Thermodynamics I	Technical Thermodynamics II			
6																				
7	<b>Linear Algebra</b>	VL 4	<b>Mathematical Analysis</b>	VL 4	<b>Mathematics III</b>	VL 2	<b>Advanced Mechanical Engineering Design (part 2)</b>	VL 2	<b>Introduction to Control Systems</b>	VL 2	<b>MED II: Introduction to Physiology</b>	VL 2								
8															Linear Algebra	Mathematical Analysis	Analysis III	Advanced Mechanical Engineering Design II	Introduction to Control Systems	Introduction to Physiology
9															Linear Algebra	Mathematical Analysis	Analysis III	Advanced Mechanical Engineering Design II	Introduction to Control Systems	
10															Linear Algebra	Mathematical Analysis	Differential Equations 1			
11																	Differential Equations 1			
12																	Differential Equations 1			
13	<b>Electrical Engineering I</b>	VL 3	<b>Electrical Engineering II</b>	VL 3	<b>Mechanics III (GES)</b>	HÜ 1	<b>Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)</b>	VL 3	<b>Measurement Technology for Mechanical Engineers</b>	VL 2	<b>Advanced Materials</b>	VL 2								
14															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical Engineering	Advanced Materials Characterization
15															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical Engineering	Advanced Materials Design
16															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical Engineering	Advanced Materials Design
17															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical Engineering	
18															Electrical Engineering I	Electrical Engineering II	Mechanics III	Mechanics IV	Measurement Technology for Mechanical Engineering	
19																				
20																				
21																				
22	<b>Mechanics I (GES)</b>		<b>Mechanics II (GES)</b>		<b>Mechanical Engineering:</b>		<b>Signals and Systems</b>		<b>Numerical Mathematics I</b>				<b>Bachelor Thesis</b>							

23	Mechanics I Mechanics I	VL 2 HÜ 3	Mechanics II Mechanics II	VL 2 HÜ 2	<b>Design (part 1)</b> Embodiment Design and 3D-CAD Mechanical Design Project I	VL 2 PBL3	Signals and Systems Signals and Systems	VL 3 UE 2	Mathematics I
24					<b>Fundamentals of Materials Science (part 1)</b>				
25					Fundamentals of Materials Science I	VL 2			
26					Physical and Chemical Basics of Materials Science	VL 2			
27	<b>Programming in C</b> Programming in C Programming in C	VL 1 PR 1	<b>Fundamentals of Mechanical Engineering (GES)</b> Fundamentals of Mechanical Engineering	VL 2			<b>MED I: Introduction to Anatomy</b> Introduction to Anatomy	VL 2	<b>MED II: Introduction to Biochemistry and Molecular Biology</b> Introduction to Biochemistry and Molecular Biology
28					<b>Advanced Mechanical Engineering Design (part 1)</b>				
29	<b>Physics for Engineers (GES)</b> Physics for Engineers Physics for Engineers	VL 2 UE 1	Fundamentals of Mechanical Engineering	UE 2	Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design I	VL 2 HÜ 2	<b>MED I: Introduction to Radiology and Radiation Therapy</b> Introduction to Radiology and Radiation Therapy	VL 2	<b>BIO I: Implants and Fracture Healing</b> Implants and Fracture Healing
30									
31									
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.