

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

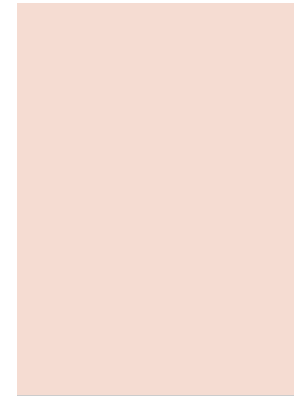
Sample course plan A Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))  
Specialisation Biomedical Engineering

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	Form	Semester 2	Form	Semester 3	Form	Semester 4	Form	Semester 5	Form	Semester 6	Form	Semester 7	Form
1	<b>Chemistry (GES)</b> Chemistry I Chemistry II Chemistry I Chemistry II	VL 2	<b>Technical Thermodynamics I</b> Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	VL 2	<b>Technical Thermodynamics II</b> Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2	<b>Fundamentals of Materials Science (part 2)</b> Fundamentals of Materials Science II <b>Signals and Systems</b> Signals and Systems Signals and Systems	VL 2	<b>Introduction to Control Systems</b> Introduction to Control Systems Introduction to Control Systems	VL 2	<b>Foundations of Management</b> Introduction to Management Management Tutorial	VL 3	<b>Advanced Internship AIW/ GES</b>	
2		VL 2		VL 2		VL 2		VL 2		VL 2		VL 3		
3		HÜ 1		HÜ 1		HÜ 1		HÜ 1		UE 2		UE 2		
4		HÜ 1		HÜ 1		HÜ 1		HÜ 1		UE 2		UE 2		
5				UE 1		UE 1		UE 1		VL 3				
6										UE 2				
7	<b>Linear Algebra</b> Linear Algebra Linear Algebra Linear Algebra	VL 4	<b>Mathematical Analysis</b> Mathematical Analysis Mathematical Analysis Mathematical Analysis	VL 4	<b>Mathematics III</b> Analysis III Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	VL 2	<b>Fluid Dynamics</b> Fluid Mechanics Fluid Mechanics	VL 3	<b>Mechanical Engineering: Design (part 1)</b> Embodiment Design and 3D-CAD Mechanical Design Project I	VL 2	<b>Mechanical Engineering: Design (part 2)</b> Team Project Design Methodology Mechanical Design Project II	PBL2		
8		HÜ 2		HÜ 2		UE 1		HÜ 2		PBL3		PBL3		
9		UE 2		UE 2		HÜ 1		HÜ 2		PBL3		PBL3		
10						VL 2		HÜ 2						
11						UE 1		HÜ 2						
12						HÜ 1		HÜ 2						
13														
14														
15		<b>Electrical Engineering I</b> Electrical Engineering I Electrical Engineering I		VL 3		<b>Electrical Engineering II</b> Electrical Engineering II Electrical Engineering II		VL 3		<b>Mechanics III (GES)</b> Mechanics III Mechanics III Mechanics III		HÜ 1		<b>Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)</b> Mechanics IV Mechanics IV Mechanics IV
16	UE 2		UE 2	UE 2	VL 3		UE 2	HÜ 1						
17							HÜ 1							
18							HÜ 1							
19														
20														
21	<b>Mechanics I (GES)</b> Mechanics I Mechanics I	VL 2	<b>Mechanics II (GES)</b> Mechanics II Mechanics II	VL 2	<b>Computer Engineering</b> Computer Engineering Computer Engineering	VL 3	<b>MED I: Introduction to Anatomy</b> Introduction to Anatomy <b>MED I: Introduction to Radiology and Radiation Therapy</b>	VL 2	<b>Heat Transfer</b> Heat Transfer Heat Transfer	VL 3	<b>MED II: Introduction to Physiology</b> Introduction to Physiology <b>BIO I: Experimental Methods in Biomechanics</b> Experimental Methods in Biomechanics	VL 2		
22		HÜ 3		HÜ 2		UE 1		UE 1		HÜ 2		VL 2		
23														
24														
25														
26														

				Introduction to Radiology and Radiation Therapy	VL 2	Engineering Measurement Technology for Mechanical Engineering Practical Course: Measurement and Control Systems	HÜ 1 PR 2
27	<b>Programming in C</b> Programming in C VL 1 Programming in C PR 1	<b>Fundamentals of Mechanical Engineering (GES)</b> Fundamentals of Mechanical Engineering VL 2	<b>Fundamentals of Materials Science (part 1)</b> Fundamentals of Materials Science I VL 2				
28			Physical and Chemical Basics of Materials Science VL 2				
29	<b>Physics for Engineers (GES)</b> Physics for Engineers VL 2 Physics for Engineers UE 1	Fundamentals of Mechanical Engineering UE 2				<b>MED II: Introduction to Biochemistry and Molecular Biology</b> Introduction to Biochemistry and Molecular Biology VL 2	
30						<b>BIO I: Implants and Fracture Healing</b> Implants and Fracture Healing VL 2	
31							
32							
33							



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.