

# Course of Study General Engineering Science (German program) (Study Cohort w14)

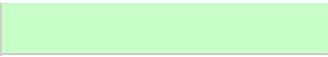
Sample course plan C Bachelor General Engineering Science (German program) (AIWBS)  
Specialisation Mechanical Engineering, Focus Biomechanics

Legend:

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

LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	<b>Physics for Engineers (part 1)</b>		<b>Electrical Engineering II: Alternating Current Networks and Basic Devices</b>		<b>Technical Thermodynamics II</b>		<b>Mechanical Engineering: Design (part 2)</b>		<b>Introduction to Control Systems</b>		<b>Foundations of Management</b>	
2	Physics for Engineers	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	VL 2	Team Project Design Methodology	POL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 4
3	Physics for Engineers	UE 1	Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	TT 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
4			Electrical Engineering II: Alternating Current Networks and Basic Devices	UE 2	Technical Thermodynamics II	UE 1						
5	<b>Chemistry</b>						<b>Fundamentals of Materials Science (part 2)</b>					
6	Chemistry I	VL 2					Fundamentals of Materials Science II	VL 2				
7	Chemistry II	VL 2										
8	Chemistry I	HÜ 1	<b>Fundamentals of Mechanical Engineering Design</b>		<b>Computer Engineering</b>				<b>Measurement Technology for Mechanical and Process Engineers</b>		<b>BIO I: Implants and Testing (part 2)</b>	
9	Chemistry II	HÜ 1	Fundamentals of Mechanical Engineering Design	VL 2	Computer Engineering	VL 3			Measurement Technology for Mechanical and Process Engineers	VL 2	Experimental Methods in Biomechanics	2
10			Fundamentals of Mechanical Engineering Design	HÜ 2	Computer Engineering	UE 1			Measurement Technology for Mechanical and Process Engineers	HÜ 1		
11	<b>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields</b>								Practical Course: Measurement and Control Systems	PR 2	<b>MED II: Medical Basics II (part 2)</b>	
12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3					<b>Fluid Dynamics</b>				Introduction to Physiology	VL 2
13	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	UE 2	<b>Technical Thermodynamics I</b>		<b>Mathematics III</b>		Fluid Mechanics	VL 3			<b>BIO I: Implants and Testing (part 1)</b>	
14	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Technical Thermodynamics I	VL 2	Analysis III	VL 2	Fluid Mechanics	HÜ 1			Implants and Fracture Healing	VL 2
15			Technical Thermodynamics I	HÜ 1	Analysis III	UE 1						
16			Technical Thermodynamics I	UE 1	Analysis III	HÜ 1						
17	<b>Mathematics I</b>				Differential Equations 1	VL 2			<b>MED II: Medical Basics II (part 1)</b>			
18	Linear Algebra I	VL 2			Differential Equations 1	UE 1			Introduction to Biochemistry and Molecular Biology	VL 2		
19	Linear Algebra I	UE 1	<b>Mechanics II: Mechanics of Materials</b>		Differential Equations 1	HÜ 1						
20	Linear Algebra I	HÜ 1	Mechanics II	VL 2			<b>Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)</b>				<b>Numerical Mathematics I</b>	
21	Analysis I	VL 2	Mechanics II	UE 2			Mechanics IV	VL 3			Numerical Mathematics I	VL 2
22	Analysis I	UE 1			<b>Mechanics III (Hydrostatics, Kinematics, Kinetics I)</b>		Mechanics IV	UE 2			Numerical Mathematics I	UE 2
23	Analysis I	HÜ 1			Mechanics III	VL 3		HÜ 1				
24					Mechanics III	UE 2						
25	<b>Mechanics I (Statics)</b>				Mechanics III	HÜ 1			<b>MED I: Medical Basics I</b>			
26	Mechanics I	VL 2	<b>Mathematics II</b>						Introduction to Radiology and Radiation Therapy	VL 2	<b>Heat Transfer</b>	
27	Mechanics I	UE 2	Linear Algebra II	VL 2					Introduction to Anatomy	VL 2	Heat Transfer	VL 3
28	Mechanics I	HÜ 1	Linear Algebra II	UE 1	<b>Mechanical Engineering: Design (part 1)</b>						Heat Transfer	HÜ 1
29			Linear Algebra II	HÜ 1	Embodiment Design and 3D-CAD	VL 2						
30			Analysis II	VL 2	Mechanical Design Project I	TT 3						
31			Analysis II	HÜ 1								
32			Analysis II	UE 1	<b>Fundamentals of Materials Science (part 1)</b>				<b>Advanced Materials</b>			
33					Fundamentals of Materials Science I	VL 2			Advanced Materials Characterization	VL 2		
34			<b>Programming in C</b>		Physical and Chemical Basics of Materials Science	VL 2			Advanced Materials Design	VL 2		
			Programming in C	VL 1					Advanced Materials Design	HÜ 2		

	Programming in C	PR	1
35	<b>Physics for Engineers (part 2)</b>		
36	Physics-Lab for ET/IW-Engineers	PR	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.