

# Course of Study General Engineering Science (German program) (Study Cohort w15)

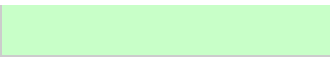
Sample course plan B Bachelor General Engineering Science (German program) (AIWBS)  
Specialisation Mechanical Engineering, Focus Biomechanics

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

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