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

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

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Spec	ialisation Mechanical E	ngineeri	ng, Focus Theoretical N	lechan	ical Engineering		Core qualification Elective Compulsory		cialisation Elective npulsory	Focus Elective Con	npulsory Interdi	sciplinary complement
LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wł	Semester 4	FormHrs/w	Semester 5	FormHrs/wk	Semester 6	FormHrs/w
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating	Current	Technical Thermodynamics II		Mechanical Engineering: Design (par	t 2)	Introduction to Control Syste	ems	Foundations of Man	agement
2	Physics for Engineers	VL 2	Networks and Basic Devices		Technical Thermodynamics II	VL 2	Team Project Design Methodology	POL 2	Introduction to Control Syste	ms VL 2	Introduction to Mana	gement VL 4
3	Physics for Engineers	UE 1	Electrical Engineering II: Alternating	VL 3	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	TT 3	Introduction to Control Syste	ms UE 2	Project Entrepreneur	ship POL 2
-	-		Current Networks and Basic Devices Electrical Engineering II: Alternating	UE 2	Technical Thermodynamics II	UE 1	Fundamentale a (Materiale Ocience /					
4			Current Networks and Basic Devices				Fundamentals of Materials Science (p Fundamentals of Materials Science II					
5	Chemistry						Fundamentals of Materials Science in	VL Z				
6	Chemistry I Chemistry II	VL 2 VL 2					Advanced Mechanical Engineering D	esign				
7	Chemistry I	HÜ 1	Fundamentals of Mechanical Enginee	ring	Computer Engineering		(part 2)		Measurement Technology for	or Mechanical and	Mathematics IV	
8	Chemistry II	HÜ 1	Design		Computer Engineering	VL 3	Advanced Mechanical Engineering Design II	VL 2	Process Engineers		Complex Functions	VL 2
			Fundamentals of Mechanical	VL 2	Computer Engineering	UE 1	Advanced Mechanical Engineering	HÜ 2	Measurement Technology fo		Complex Functions	UE 1
			Engineering Design Fundamentals of Mechanical	HÜ 2			Design II		Mechanical and Process En Measurement Technology fo	-	Complex Functions	HÜ 1
9			Engineering Design	nu 2			Signals and Systems		Mechanical and Process En		Differential Equation	
10							Signals and Systems	VL 3	Practical Course: Measurem	-	Differential Equation	
	Electrical Engineering I. Direct Own						Signals and Systems	HÜ 1	Control Systems			
11	Electrical Engineering I: Direct Curr Networks and Electromagnetic Field											
12	Electrical Engineering I: Direct Curre											
13	Networks and Electromagnetic Fields	s	Technical Thermodynamics I		Mathematics III				Simulation of Dynamic System	ems and	Bachelor Thesis	
14	Electrical Engineering I: Direct Curre		Technical Thermodynamics I	VL 2	Analysis III	VL 2			Reliability			
15	Networks and Electromagnetic Fields	S	Technical Thermodynamics I Technical Thermodynamics I	HÜ 1 UE 1	Analysis III Analysis III	UE 1 HÜ 1	Fluid Dynamics		Simulation of Dynamic Syste Reliability of Dynamic Syste			
16	-		rechnical memodynamics i	UE I	Differential Equations 1	VL 2	Fluid Mechanics	VL 3	Simulation of Dynamic Syste			
					Differential Equations 1	UE 1	Fluid Mechanics	HÜ 1	Reliability of Dynamic Syste			
17	Mathematics I	<u> </u>			Differential Equations 1	HÜ 1						
18	Linear Algebra I Linear Algebra I	VL 2 UE 1										
19	Linear Algebra I	HÜ 1	Mechanics II: Mechanics of Materials						Advanced Mechanical Desig	gn Project		
20	Analysis I	VL 2	Mechanics II	VL 2					Advanced Mechanical Desig	gn Project TT 4		
21	Analysis I	UE 1	Mechanics II	UE 2	Mechanics III (Hydrostatics, Kinema	atics	Mechanics IV (Kinetics II, Oscillation	s				
	Analysis I	HÜ 1			Kinetics I)	,	Analytical Mechanics, Multibody Sys					
22					Mechanics III	VL 3	Mechanics IV	VL 3				
23					Mechanics III	UE 2	Mechanics IV	UE 2				
24					Mechanics III	HÜ 1	Mechanics IV	HÜ 1				
25	Mechanics I (Statics)		Mathematics II						Heat Transfer			
26	Mechanics I	VL 2	Linear Algebra II	VL 2					Heat Transfer	VL 3		
27	Mechanics I	UE 2	Linear Algebra II	UE 1	Mechanical Engineering: Design (pa	art 1)	Fundamentals of Production and Qua	lity	Heat Transfer	HÜ 1		
	Mechanics I	HÜ 1	Linear Algebra II	HÜ 1	Embodiment Design and 3D-CAD	VL 2	Management					
28			Analysis II Analysis II	VL 2 HÜ 1	Mechanical Design Project I	TT 3	Production Process Organization	VL 2				
29			Analysis II	UE 1			Quality Management	VL 2				
30					Fundamentals of Materials Science	(part 1)						
31					Fundamentals of Materials Science							
32	_				Physical and Chemical Basics of	VL 2						
	_				Materials Science				1			
33	1		Programming in C									

34		Programming in C Programming in C	VL 1 PR 1	Advanced Mechanical Engineering Design (part 1)
35		Physics for Engineers (part 2)		Advanced Mechanical Engineering VL 2
36		Physics-Lab for ET/IIW-Engineers	PR 1	Design I
00				Advanced Mechanical Engineering HÜ 2
				Design I
	Nontechnical Complementary Courses	s for Bachelors (from catalogue	e) - 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.