Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20)

Sample course plan C Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Mechanical Engineering, Focus Product Development and Production

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 Forthers	s/wskmester 2 Forthers	/wsikemester 3 Forimirs	/wskemester 4 Formin	s/vS/kemester 5 Forhhrs	/wskemester 6 Formirs	/ଷ୍ଡkemester 7 Formirs/wk
1 2 3 4 5	Chemistry Chemistry I+II VL 4 Chemistry I+II HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering VL 3 II: Alternating Current Networks and Basic Devices Electrical Engineering UE 2 II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II Technical Technical Technical Technical Thermodynamics II Technical Technical Technical Technical Technical Thermodynamics II	Signals and Systems VL 3 Signals and Systems UE 2	Introduction to Control Systems Introduction to VL 2 Control Systems Introduction to UE 2 Control Systems	Foundations of Management Introduction to VL 3 Management Management Tutorial UE 2	Advanced Internship AIW/ GES
7 8 9 10 11 12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering VL 3 I: Direct Current Networks and Electromagnetic Fields Electrical Engineering UE 2 I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering Design	Mathematics III Analysis III VL 2 Analysis III UE 1 Analysis III HÜ 1 Differential Equations VL 2 1 Differential Equations UE 1 1 Differential Equations HÜ 1	Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2	Measurement Technology for Mechanical Engineers Measurement VL 2 Technology for Mechanical Engineering Measurement HÜ 1 Technology for Mechanical Engineering Practical Course: PR 2 Measurement and Control Systems	Integrated Product Development and Lightweight Design Integrated Product Development I Development of VL 2 Lightweight Design Products CAE-Team Project PBL2	
13 14 15 16 17 18	Mathematics I Linear Algebra I VL 2 Linear Algebra I UE 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I UE 1 Analysis I HÜ 1	Technical Thermodynamics I Technical VL 2 Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 1 Thermodynamics I Mechanics II: Mechanics	Mechanics III (Dynamics) Mechanics III VL 3 Mechanics III UE 2 Mechanics III HÜ 1	Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics) Mechanics IV VL 3 Mechanics IV UE 2 Mechanics IV HÜ 1 Advanced Mechanical	Advanced Mechanical Design Project Advanced Mechanical PBL4 Design Project Production Engineering	Fundamentals of Production and Quality Management Production Process VL 2 Organization Quality Management VL 2 Production Engineering	Bachelor Thesis
20 21 22	Mechanics I (Statics) Mechanics I VL 2 Mechanics I UE 2 Mechanics I HÜ 1	of Materials Mechanics II VL 2 Mechanics II UE 2 Mechanics II HÜ 2	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical VL 2 Engineering Design I Advanced Mechanical HÜ 2	Engineering Design (part 2) Advanced Mechanical VL 2 Engineering Design II Advanced Mechanical HÜ 2 Engineering Design II Mechanical Engineering:	(part 1) Production VL 2 Engineering I Production HÜ 1 Engineering I	(part 2) Production VL 2 Engineering II Production HÜ 1 Engineering II	

				ricciianicai Engineering.	Frouuction recimology	
23			Engineering Design I	Design (part 2)	Forming and Cutting VL 2	
24			Mechanical Engineering: Design (part 1)	Team Project Design PBL2 Methodology	Technology	
			Embodiment Design VL 2	Mechanical Design PBL3	Forming and Cutting HÜ 1 Technology	
			and 3D-CAD	Project II	Fundamentals of VL 2	
25 26		Mathematics II	Mechanical Design PBL3 Project I	Fundamentals of	Machine Tools Fundamentals of HÜ 1	
20		Linear Algebra II VL 2		Materials Science (part 2)	Machine Tools	
		Linear Algebra II UE 1		Fundamentals of VL 2 Materials Science II		
27		Linear Algebra II HÜ 1		Pidecitals Science II		
28	Programming in C	Analysis II VL 2				
20	Programming in C VL 1	Analysis II HÜ 1			Computer Engineering	
	Programming in C PR 1	Analysis II UE 1	Fundamentals of VL 2 Materials Science I		Computer Engineering VL 3	
29	Physics for Engineers		Physical and Chemical VL 2		Computer Engineering UE 1	
30	(AIW)		Basics of Materials			
	Physics for Engineers VL 2		Science			
31	Physics for Engineers UE 1					
32						
33						
	Non-technical Courses for Bach	nelors (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.