Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w17)

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

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	Legend:							
	Core qualification Compulsory	Specia	alisation Compulsory	Focus C	ompulsory	′	Thesis Compulsory	
	Core qualification Elective Compulsory	Specia Comp	alisation Elective ulsory	Focus E	lective Co	mpulsory	Interdisciplinary complement	
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):	Computer Engineering		Foundations o	f		Advan	ced Internship	o AIW/
L2	Computer Engineering V Computer Engineering U		Introduction to Management		VL 3	GES		
L3			Management Tu	itorial	HÜ 2			
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rt	Introduction to Contro	ol	Integrated Pro					
2	Systems Introduction to V	L 2	Development Lightweight D					
-	Control Systems	L Z	Integrated Prod	_	VL 2			
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	Control Systems		Development of		VL 2			
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3	Measurement Technol for Mechanical and	ogy	Enhanced Fun of Materials S					

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LP	Semester 1 Forthers	/wskemester 2 Forhh	s/wsiemester 3 Formir	s/wikemester 4 Formirs	s/wskmester 5 Forthrs	/wskemester 6 Forthers	s/wskemester 7 Forhhrs
1 2 3 4 5	Chemistry I VL 2 Chemistry II VL 2 Chemistry II HÜ 1 Chemistry II HÜ 1	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 Devices	Technical Thermodynamics II Technical Technical Technical Thermodynamics II Technical Thermodynamics II Technical UE 1 Thermodynamics II	Fundamentals of Materials Science (part 2) Fundamentals of VL 2 Materials Science II	Computer Engineering VL 3 Computer Engineering UE 1	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship AIW/ GES
9 10 11	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 Differential Equations HÜ 1	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical VL 2 Engineering Design II Advanced Mechanical HÜ 2 Engineering Design II Production Engineering (part 2) Production VL 2 Engineering II Production HÜ 1 Engineering II	Introduction to Control Systems Introduction to VL 2 Control Systems Introduction to UE 2 Control Systems	Integrated Product Development and Lightweight Design Integrated Product Development I Development of Lightweight Design Products CAE-Team Project PBL2	
12 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 Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I UE 1	(Hydrostatics, Kinematics, Kinetics I) Mechanics III VL 3	Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2 Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV VL 3 Mechanics IV UE 2 Mechanics IV HÜ 1	Measurement Technology for Mechanical and Process Engineers Measurement VL 2 Technology for Mechanical and Process Engineers Measurement HÜ 1 Technology for Mechanical and Process Engineers Practical Course: PR 2 Measurement and Control Systems	Enhanced Fundamentals of Materials Science Enhanced VL 2 Fundamentals: Metals Enhanced VL 2 Fundamentals: Ceramics and Polymers Enhanced HÜ 1 Fundamentals: Ceramics and Polymers	
19		Mechanics II: Mechanics			Advanced Mechanical	Advanced Materials	Bachelor Thesis

Mechanics I (Statics) Mechanics I (VL Mechanics I UE Mechanics I HÜ	Mechanics II VL 2 Mechanics II UE 2 Mechanics II HÜ 2	Mechanical Engineering: Design (part 1) Embodiment Design VL 2 and 3D-CAD Mechanical Design PBL3 Project I	Design Project Advanced Mechanical PBL Design Project	Characterization Advanced Materials VL Design	L 2 L 2 Ü 2
Programming in C PR Physics for Engineers (AIW) Physics for Engineers VL Physics for Engineers UE	Mathematics II Linear Algebra II VL 2 Linear Algebra II UE 1 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II UE 1	Fundamentals of Materials Science (part 1) Fundamentals of VL 2 Materials Science I Physical and Chemical VL 2 Basics of Materials Science Advanced Mechanical Engineering Design (part 1) Advanced Mechanical VL 2 Engineering Design I Advanced Mechanical VL 2 Engineering Design I Production Engineering (part 1) Production Engineering I Production VL 2 Engineering I Production HÜ 1 Engineering I	Production Technology Forming and Cutting VL 2 Technology Forming and Cutting HÜ 1 Technology Fundamentals of VL 2 Machine Tools Fundamentals of HÜ 1 Machine Tools		

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.