Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w21)

ample course plan A Pachalar							Thesis Compulsory
mple course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))					Core Qualification Elective Compulsory Special	isation Elective Compulsory Focus Elective Compul	sory Interdisciplinary complement
pecialisation Mechanical Engine				1			
pecialisation Mechanical Engine	cering,	Tocas Froduct Development 8	ila i roduction				
1 Chemistry		Electrical Engineering II: Alternating Current	Technical Thermodynamics II	Signals and Systems	Introduction to Control Systems	Foundations of Management	Advanced Internship AIW/ ES
2 Chemistry I+II	VL 4	Networks and Basic Devices	Technical Thermodynamics II VL 2	Signals and Systems VL 3	Introduction to Control Systems VL 2	Introduction to Management VL 3	Advanced Internship AIW/ ES: SE 1
Chemistry I+II	HÜ 2	Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II HÜ 1	Signals and Systems GÜ 2	Introduction to Control Systems GÜ 2	Management Tutorial GÜ 2	Preparation
3		Current Networks and Basic Devices	Technical Thermodynamics II GÜ 1				Advanced Intenship AIW/ ES: Internship- SE
4		Electrical Engineering II: Alternating GÜ 2					accompanying Seminar
_		Current Networks and Basic Devices					
5							
6							
7 Electrical Engineering I: Direct Current		Fundamentals of Mechanical Engineering	Mathematics III	Fluid Dynamics	Measurement Technology for Mechanical	Digital Product Development and Lightweight	
Networks and Electromagnetic Fields	,	Design	Analysis III VL 2	Fluid Mechanics VL 3	Engineers	Design Product Development and Lightweight	
8 Electrical Engineering I: Direct Current	VI 3	Fundamentals of Mechanical Engineering VL 2	Analysis III GÜ 1	Fluid Mechanics HÜ 2	Measurement Technology for Mechanical VL 2	Digital Product Development VL 2	
9 Networks and Electromagnetic Fields		Design	Analysis III HÜ 1	Tidd Mechanics 110 2	Engineering	Development of Lightweight Design VL 2	
	GŪ 2	Fundamentals of Mechanical Engineering HÜ 2	Differential Equations 1 VL 2		Measurement Technology for Mechanical PR 2	Products	
10 Retworks and Electromagnetic Fields		Design	Differential Equations 1 GÜ 1		Engineering	CAE-Team Project PBL 2	
11			Differential Equations 1 G0 1 Differential Equations 1 HÜ 1		Practical Course: Measurement and PR 2		
12			Differential Equations 1 HO 1		Control Systems		
13 Mathematics I		Technical Thermodynamics I		Computational Mechanics	Advanced Mechanical Design Project	Production Engineering	
14	VL 2	Technical Thermodynamics I VL 2		Computational Multibody Dynamics IV 2	Advanced Mechanical Design Project PBL 4	Production Engineering I VL 2	
1 -	GÜ 1	Technical Thermodynamics I HÜ 1		Computational Mechanics GÜ 2		Production Engineering II VL 2	
	HÜ 1	Technical Thermodynamics I GÜ 1	Engineering Mechanics III (Dynamics)	Computational Stuctural Mechanics IV 2		Production Engineering II HÜ 1	
10	VL 2		Engineering Mechanics III VL 3			Production Engineering I HÜ 1	
17	GÜ 1		Engineering Mechanics III GÜ 2				
Analysis I	HÜ 1		Engineering Mechanics III HÜ 1				
18							
19		Mechanics II: Mechanics of Materials		Advanced Mechanical Engineering Design	Production Technology	Fundamentals of Production and Quality	Bachelor Thesis
20		Mechanics II VL 2		(part 2)	Forming and Cutting Technology VL 2	Management	
		Mechanics II GÜ 2		Advanced Mechanical Engineering VL 2	Forming and Cutting Technology HÜ 1	Production Process Organization VL 2	
21 Mechanics I (Statics)		Mechanics II HÜ 2	Advanced Mechanical Engineering Design	Design II	Fundamentals of Machine Tools VL 2	Quality Management VL 2	
	VL 2		(part 1)	Advanced Mechanical Engineering HÜ 2	Fundamentals of Machine Tools HÜ 1		
	GÜ 2		Advanced Mechanical Engineering VL 2	Design II			
22 Mechanics I	HÜ 1		Design I	Mechanical Engineering: Design (part 2)			
23			Advanced Mechanical Engineering HÜ 2 Design I	Team Project Design Methodology PBL 2			
				Mechanical Design Project II PBL 3			
24			Mechanical Engineering: Design (part 1)				
25		Mathematics II	Embodiment Design and 3D-CAD VL 2	Fundamentals of Materials Science (part 2)		Computer Science for Engineers -	
26		Linear Algebra II VL 2	Introduction and Practical Training	Fundamentals of Materials Science II VL 2		Programming Concepts, Data Handling &	
		Linear Algebra II GÜ 1	Mechanical Design Project I PBL 3			Communication	
Computer Science for Engineers -		Linear Algebra II HÜ 1	Fundamentals of Materials Science (part 1)			Computer Science for Engineers - VL 3	
28 Introduction and Overview		Analysis II VL 2	Fundamentals of Materials Science I VL 2			Programming Concepts, Data Handling &	
Computer Science for Engineers - \	VL 3	Analysis II HÜ 1	Physical and Chemical Basics of Materials VL 2			Communication	
29 Introduction and Overview		Analysis II GÜ 1	Science			Computer Science for Engineers - GŪ 2	
	GÜ 2					Programming Concepts, Data Handling & Communication	
Computer Science for Engineers -						Communication	
Computer Science for Engineers - Introduction and Overview							
30 Computer Science for Engineers -				•			
Computer Science for Engineers - Introduction and Overview				-			

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