Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w18)

	•	-					Core Qualification Compulsory	Specialis	ation Compulsory	Focus Compulsory	Thesis Compulsory	
Samp	e course plan A Bachelor Gener	ral Engineering Science (Germa	n program, 7 semester)	(AIWBS	5(7))		Core Qualification Elective Compuls	ory Specialis	ation Elective Compulsory	Focus Elective Compuls	ory Interdisciplinary comple	ment
pecia	alisation Mechanical Engineering	Focus2Product Development	nd Production	FormHrs/wk	Semester 4 For	rmHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs/v
1	Chemistry	Electrical Engineering II: Alternating Current	Technical Thermodynamics II		Mechanical Engineering: Design (part 2)		Introduction to Control Systems		Foundations of Manageme		Advanced Internship AIW/ ES	
	Chemistry I VL 2	Networks and Basic Devices	Technical Thermodynamics II	VL 2			Introduction to Control Systems	VL 2	Introduction to Management	VL 3	Advanced Internship AIW/ ES:	SE 1
2	Chemistry II VL 2	Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II	HÜ 1			Introduction to Control Systems	GÜ 2	Management Tutorial	GÜ 2	Preparation	35 1
3	Chemistry I HÜ 1	Current Networks and Basic Devices	Technical Thermodynamics II	GÜ 1	Mechanical Design Project II Po	DL 3 1	introduction to Control Systems	GU 2	Management rutorial	G0 2	Advanced Intenship AIW/ ES: Internship	in. SF 1
4	Chemistry II HÜ 1	Electrical Engineering II: Alternating GÜ 2	reclinical merillodynamics ii	G0 1							accompanying Seminar	, JL 1
4	Chemistry II	Current Networks and Basic Devices			Fundamentals of Materials Science (par							
5					Fundamentals of Materials Science II VL	L 2						
6					Advanced Mechanical Engineering Desig	an						
7					(part 2)	_						
	Electrical Engineering I: Direct Current  Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design	Mathematics III		Advanced Mechanical Engineering VL	1 2	Computer Engineering		Integrated Product Develo	pment and		
8	Electrical Engineering I: Direct Current VL 3	Fundamentals of Mechanical Engineering VL 2	Analysis III	VL 2	Design II		Computer Engineering	VL 3	Lightweight Design Integrated Product Developm	ent I VL 2		
	Networks and Electromagnetic Fields	Design VL 2	Analysis III	GÜ 1	Advanced Mechanical Engineering HÜ	Ü 2	Computer Engineering	GÜ 1	Development of Lightweight			
	Electrical Engineering I: Direct Current GÜ 2	Fundamentals of Mechanical Engineering HÜ 2	Analysis III	HÜ 1	Design II				Products	Design VL 2		
9	Networks and Electromagnetic Fields	Design 2	Differential Equations 1	VL 2 GÜ 1	Production Engineering (part 2)				CAE-Team Project	PBL 2		
10			Differential Equations 1 Differential Equations 1	GU I HÜ 1	Production Engineering II VI	L 2			CAL TEURITTOJECE	152 2		
			Differential Equations 1	HU I	Production Engineering II HÜ	Ü 1						
11												
12					Fluid Dynamics							
13						L 3						
13	Mathematics I	Technical Thermodynamics I			Fluid Mechanics HÜ		Measurement Technology for Mecha Engineers	nical	Enhanced Fundamentals of			
14	Linear Algebra I VL 2 Linear Algebra I GÜ 1	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1					Measurement Technology for Mechanica	I VI 2	Enhanced Fundamentals: Mei Enhanced Fundamentals: Cer			
15	Linear Algebra I GU 1 Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III (Hydrostatics, Kinema	ntics.			Engineering	VL 2	Polymers	amics and VL 2		
16	Analysis I VL 2	reclinical memodynamics 1 GO 1	Kinetics I)				Measurement Technology for Mechanica	I HÜ 1	Enhanced Fundamentals: Cer	amics and HÜ 1		
	Analysis I GÜ 1		Mechanics III	VL 3		E	Engineering		Polymers			
17	Analysis I HÜ 1		Mechanics III	GÜ 2		F	Practical Course: Measurement and	PR 2				
18			Mechanics III	HÜ 1	Mechanics IV (Kinetics II, Oscillations,	(	Control Systems					
19					Analytical Mechanics, Multibody System	ns)						
		Mechanics II: Mechanics of Materials  Mechanics II VL 2			Mechanics IV VL	1 3	Advanced Mechanical Design Project Advanced Mechanical Design Project	PBL 4	Electrical Machines and Ad Electrical Machines and Actua		Bachelor Thesis	
20		Mechanics II GÜ 2			Mechanics IV GÜ	Ū 2 ′	Advanced Mechanical Design Project	FDL 4	Electrical Machines and Actua			
21	Mechanics I (Statics)	Mechanics II HÜ 2	Mechanical Engineering: Design (pa	rt 1)	Mechanics IV HÜ	Ü 1			Electrical Placifiles and Actua	110 2		
22	Mechanics I VL 2		Embodiment Design and 3D-CAD	VL 2								
	Mechanics I GÜ 2		Mechanical Design Project I	PBL 3								
23	Mechanics I HÜ 1											
24			Fundamentals of Materials Science	(part 1)								
25		Mathematics II	Fundamentals of Materials Science I	VL 2			Production Technology					
		Linear Algebra II VL 2	Physical and Chemical Basics of Materia	ls VL 2			Forming and Cutting Technology	VL 2				
26		Linear Algebra II GÜ 1	Science				Forming and Cutting Technology	HÜ 1				
27	Programming in C	Linear Algebra II HÜ 1					Fundamentals of Machine Tools	VL 2				
28	Programming in C VL 1	Analysis II VL 2	Advanced Mechanical Engineering I	Design			Fundamentals of Machine Tools	HÜ 1				
	Programming in C PR 1	Analysis II HÜ 1	(part 1)									
29	Physics for Engineers (AIW)	Analysis II GÜ 1	Advanced Mechanical Engineering	VL 2								
30	Physics for Engineers VL 2		Design I									
30	Physics for Engineers GÜ 1		Advanced Mechanical Engineering	HÜ 2								
			Design I									
31			Production Engineering (part 1)									
31			Production Engineering (part 1) Production Engineering I	VL 2								
32				VL 2 HÜ 1								
			Production Engineering I									

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