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

		•						Core Qualification Compulsory		ation Compulsory	Focus Compulsory	Thesis Compulsory	
Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))									Core Qualification Elective Compulsory Specialis		Focus Elective Compulse	Interdisciplinary comple	y complement
pecial	isation <sub>1</sub> Mechanical Engineering	, Focus <sub>2</sub> Mechatronics	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4 Form	mHrs/wk	Semester 5 Fo	ormHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs
1	Chemistry VL 4   Chemistry I+II HÜ 2	Electrical Engineering II: Alternation Networks and Basic Devices Electrical Engineering II: Alternating	ng Current VL 3	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1		. 3		VL 2 50 2	Foundations of Managem Introduction to Management Management Tutorial		Advanced Internship AIW/ ES Advanced Internship AIW/ ES: Preparation	SE 1
} 		Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices	GŪ 2	Technical Thermodynamics II	GŪ 1							Advanced Intenship AIW/ ES: Internsh accompanying Seminar	ip-SE 1
;													
'	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engir Design	neering	Mathematics III Analysis III	VL 2	Fluid Dynamics Fluid Mechanics VL	. 3	Measurement Technology for Mechanic Engineers	cal	Electrical Machines and A Electrical Machines and Actu			
	Electrical Engineering I: Direct Current VL 3 Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineeri Design	ing VL 2	Analysis III Analysis III	GŨ 1 HŨ 1	Fluid Mechanics Hü		Measurement Technology for Mechanical N Engineering	VL 2	Electrical Machines and Actu	iators HÜ 2		
0	Electrical Engineering I: Direct Current GÜ 2 Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineeri	ing HÜ 2	Differential Equations 1	VL 2			Measurement Technology for Mechanical H Engineering	HÜ 1				
L1 L2	Networks and Electromagnetic Fields	Design		Differential Equations 1 Differential Equations 1	GŪ 1 HÜ 1				PR 2				
.2	Mathematics I	Technical Thermodynamics I				Mechanics IV (Oscillations, Analytical		Electrical Engineering III: Circuit Theor	by and	Semiconductor Circuit De	eian		
4	Linear Algebra I VL 2	Technical Thermodynamics I	VL 2			Mechanics, Multibody Systems, Numeric	al 🛛	Transients		Semiconductor Circuit Design	n VL 3		
5	Linear Algebra I GÜ 1 Linear Algebra I HÜ 1	Technical Thermodynamics I Technical Thermodynamics I	ΗÜ 1 GÜ 1	Mechanics III (Dynamics)		Mechanics) Mechanics IV VL			VL 3 GÜ 2	Semiconductor Circuit Desig	n GÜ 1		
.6	Analysis I VL 2   Analysis I GŪ 1			Mechanics III Mechanics III	VL 3 GÜ 2		) 2						
.7	Analysis I GÜ 1 Analysis I HÜ 1			Mechanics III	HÜ 1								
.8													
0		Mechanics II: Mechanics of Materia Mechanics II	als VL 2			Advanced Mechanical Engineering Desig (part 2)	In	Computer Engineering	VL 3	Mathematics IV Complex Functions	VL 2	Bachelor Thesis	
1	Mechanics I (Statics) Mechanics I VL 2	Mechanics II Mechanics II	GÜ 2 HÜ 2	Advanced Mechanical Engineering ( (part 1)	-	Design II Advanced Mechanical Engineering HÜ	. 2 ) 2	Computer Engineering G	5Ü 1	Complex Functions Complex Functions Differential Equations 2	GÜ 1 HÜ 1 VL 2		
2	Mechanics I GŪ 2   Mechanics I HŪ 1			Advanced Mechanical Engineering Design I	VL 2	Design II Mechanical Engineering: Design (part 2)				Differential Equations 2 Differential Equations 2	GŪ 1 HÜ 1		
23				Advanced Mechanical Engineering Design I	HÜ 2	Team Project Design Methodology PBI	L 2 L 3			Sincrential Equations 2	10 1		
4				Mechanical Engineering: Design (pa		PBL PBL	- 3						
5		Mathematics II Linear Algebra II	VL 2	Embodiment Design and 3D-CAD Mechanical Design Project I	VL 2 PBL 3	Fundamentals of Materials Science (part Fundamentals of Materials Science II VL		Simulation and Design of Mechatronic Systems					
7	Programming in C	Linear Algebra II Linear Algebra II	GŪ 1 HÜ 1	Fundamentals of Materials Science	(part 1)			Simulation and Design of Mechatronic V Systems	VL 2				
8	Programming in C VL 1   Programming in C PR 1	Analysis II Analysis II	VL 2 HÜ 1	Fundamentals of Materials Science I Physical and Chemical Basics of Materia	VL 2 IIS VL 2			Simulation and Design of Mechatronic H Systems	HÜ 1				
9	Physics for Engineers (AIW)	Analysis II	GŪ 1	Science				Simulation and Design of Mechatronic F Systems	PR 1				
	Physics for Engineers VL 2												
30	Physics for Engineers GÜ 1												
30 31 32	Physics for Engineers GÜ 1					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.