**Course of Study Engineering Science (Study Cohort w20)** 

		-		_		_		Core qualification Compulsory	Specialis	ation Compulsory	Focus Compulsory	Thesis Compulsory	
ample	course plan - Bachelor Engine	ering Science (ESBS)						Core qualification Elective Compulso	ry Specialis	ation Elective Compulsory	Focus Elective Compuls	ory Interdisciplinary comp	olement
ecial	isation₁Electrical Engineering,wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormH
	Chemistry (GES)	Mathematical Analysis		Mechanical Engineering: Design (p		Mechanical Engineering: Design (p		Numerical Mathematics I		Fundamentals of Product	tion and Quality	Advanced Internship AIW/ ES	SE
	Chemistry I+II         VL         4           Chemistry I+II         HÜ         2	Mathematical Analysis  Mathematical Analysis	VL 4 HÜ 2	Embodiment Design and 3D-CAD  Mechanical Design Project I	VL 2 PBL 3	Team Project Design Methodology	PBL 2 PBL 3	Numerical Mathematics I	VL 2 GÜ 2	Production Process Organiza	ation VL 2	Advanced Internship AIW/ ES: Preparation	SE
	Chemistry I+II HO 2	Mathematical Analysis  Mathematical Analysis	GÜ 2	Mechanical Design Project I	PBL 3	Mechanical Design Project II	PBL 3	Numerical Mathematics I	GU 2	Quality Management	VL 2	Advanced Intenship AIW/ ES: Interns	shin. SF
		Mathematical Analysis	G0 2	Engineering Mechanics III (EN)		Fundamentals of Materials Science	(EN) (part			quanty management	72 2	accompanying Seminar	Jiip JL
				Mechanics III	HÜ 1	2)							
				Mechanics III	GÜ 2	Fundamentals of Materials Science II	VL 2						
				Mechanics III	VL 3	Electromagnetics for Engineers I: Independent Fields	Time-						
	Linear Algebra					Electromagnetics for Engineers I: Time	. VI 3	Fluid Mechanics (EN)		Modeling, Simulation and	d Optimization (EN)		
	Linear Algebra VL 4					Independent Fields	· VL 3	*** Fluid Mechanics	VL 3	Modeling, Simulation and O	ptimization IV 4		
	Linear Algebra HÜ 2					Electromagnetics for Engineers I: Time	- GÜ 2	*** Fluid Mechanics	HÜ 2				
	Linear Algebra GÜ 2	Electrical Engineering II (GES)  Electrical Engineering II	VL 3			Independent Fields							
0		Electrical Engineering II	GÜ 2	Fundamentals of Materials Science  1)	e (EN) (part								
1				Fundamentals of Materials Science I	VL 2								
2				Physical and Chemical Basics of Materi		Computational Mechanics (EN)							
3				Science		Computational Mechanics	IV 4	Introduction to Control Systems (EN)		Foundations of Managen	mont (EN)		
						Computational Mechanics	GÜ 2	Introduction to Control Systems (EN)	GÜ 2	*** Introduction to Manager			
4				Computer Science for Engineers (E				· ·	VL 2	*** Introduction to Manager			
5	Electrical Engineering I (GES)	Engineering Mechanics II (GES)		**** Computer Science for Engineers  **** Computer Science for Engineers	VL 0			•					
.6	Electrical Engineering I VL 3	Mechanics II	VL 2	Computer Science for Engineers	GU 3								
L7	Electrical Engineering I GÜ 2	Mechanics II	HÜ 2										
.8						Signals and Systems (EN)	GŪ 2						
.9						Signals and Systems Signals and Systems	VL 3	Electronic Devices		Semiconductor Circuit De		Bachelor Thesis	
0				Mathematics III (EN)		Signals and Systems		Electronic Devices	VL 3	Semiconductor Circuit Desig	7		
1	Engineering Mechanics I (GES)	Fundamentals of Mechanical Engir	neering	Analysis III	VL 2			Electronic Devices	PBL 2	Semiconductor Circuit Desig	gn GÜ 1		
2	Mechanics I VL 2	Design (GES)		Analysis III	HÜ 1								
	Mechanics I HÜ 3	Fundamentals of Mechanical Engineeri	ing VL 2	Analysis III	GÜ 1								
3		Fundamentals of Mechanical Engineeri	ing GÜ 2	Differential Equations 1 Differential Equations 1	VL 2 HÜ 1								
4				Differential Equations 1	GÜ 1								
5				ZZ. Z.Kur Equations 2				Electromagnetics for Engineers II: Tir	ne-	Mathematics IV (EN)			
6								Dependent Fields		Differential Equations 2	VL 2		
								Electromagnetics for Engineers II: Time-	VL 3	Differential Equations 2	HÜ 1		
7	Physics for Engineers (GES)	Technical Thermodynamics I (GES)						Dependent Fields		Differential Equations 2	GÜ 1		
8	Physics for Engineers         VL         2           Physics for Engineers         GÜ         1	*** Technical Thermodynamics I	IV 3 GÜ 1					Electromagnetics for Engineers II: Time- Dependent Fields	GU 2	Complex Functions	VL 2		
9	Physics for Engineers GÜ 1	*** Technical Thermodynamics I	GU I					Dependent rielus		Complex Functions	HÜ 1		
0										Complex Functions	GŪ 1		
1													
	GES 101												
2	GES 101 SE 2												

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