Course of Study Engineering Science (Study Cohort w20)

			-	_	_	Core Qualification Compulsory	Special	isation Compulsory	Focus Compulsory	Thesis Compulsory
ample co	urse plan A Bachelor	Engine	eering Science (ESBS)			Core Qualification Elective Compulso	ory Special	isation Elective Compulsory	Focus Elective Compul-	Interdisciplinary complement
	tion Mechanical Engine									
Che		_								
Char	emistry (GES) mistry I+II	VL 4	Mathematical Analysis Mathematical Analysis VL 4	Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL 2	Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL	Numerical Mathematics I Numerical Mathematics I	VL 2	Fundamentals of Produ Management	ction and Quality	Advanced Internship AIW/ ES Advanced Internship AIW/ ES: SE
		HÜ 2	Mathematical Analysis HÜ 2	Mechanical Design Project I PBL 3	Mechanical Design Project II PBL		GÜ 2	Production Process Organi	zation VL 2	Preparation
Circi		110 2	Mathematical Analysis GÜ 2	Meenamear Besign Project 1 1 BE 3	rice indirect besign roject ii	3 Numerical Platfichatics	00 2	Quality Management	VL 2	Advanced Intenship AIW/ ES: Internship- SE
			•	Engineering Mechanics III (EN)	Fundamentals of Materials Science (EN) (p.	art				accompanying Seminar
				Mechanics III HÜ 1	2)					
				Mechanics III GÜ 2	Fundamentals of Materials Science II VL	2				
5				Mechanics III VL 3	Electromagnetics for Engineers I: Time-					
Line	ear Algebra				Independent Fields	Fluid Mechanics (EN)		Modeling, Simulation as	nd Optimization (EN)	
	-	VL 4			Electromagnetics for Engineers I: Time- VL	3 Fluid Mechanics	VL 3	Modeling, Simulation and		
Linea	ar Algebra	HÜ 2		_	Independent Fields Electromagnetics for Engineers I: Time- GÜ	Fluid Mechanics	HÜ 2			
	ar Algebra	GÜ 2	Electrical Engineering II (GES)		Independent Fields					
.0			Electrical Engineering II VL 3 Electrical Engineering II GÜ 2	Fundamentals of Materials Science (EN) (part						
.1			Control of the contro	1)						
12				Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2	Computational Mechanics (EN)					
.3				Science	Computational Mechanics IV	4 Introduction to Control Systems (EN	,	Foundations of Manage	mont (EN)	
					Computational Mechanics GÜ	2 Introduction to Control Systems (EN) VL 2	*** Introduction to Manage		
4				Computer Science for Engineers (EN)		Introduction to Control Systems	GÜ 2	*** Introduction to Manage		
	ctrical Engineering I (GES)		Engineering Mechanics II (GES)	***** Computer Science for Engineers VL 0 ***** Computer Science for Engineers GÜ 3						
o o		VL 3	Mechanics II VL 2	Computer Science for Engineers Go S						
.7	trical Engineering I	GŪ 2	Mechanics II HÜ 2							
18					Signals and Systems (EN)					
					Signals and Systems (EN) Signals and Systems GÜ	2				
.9					Signals and Systems VL	Advanced Mechanical Engineering D	esign	Advanced Mechanical E (part 2)	ngineering Design	Bachelor Thesis
10				Mathematics III (EN)		Advanced Mechanical Engineering	VL 2	Advanced Mechanical Engi	ineering VL 2	
1 Engi	ineering Mechanics I (GES)		Fundamentals of Mechanical Engineering	Analysis III VL 2		Design I		Design II		
Mech		VL 2	Design (GES)	Analysis III HÜ 1 Analysis III GÜ 1		Advanced Mechanical Engineering	HÜ 2	Advanced Mechanical Engi	ineering HÜ 2	
	thanics I	HÜ 3	Fundamentals of Mechanical Engineering VL 2	Differential Equations 1 VL 2		Design I		Design II		
2			Fundamentals of Mechanical Engineering GÜ 2	Differential Equations 1 HÜ 1		Production Engineering (part 1)		Production Engineering		
3				Differential Equations 1 GÜ 1		Production Engineering I	VL 2 HÜ 1	Production Engineering II	VL 2 HÜ 1	
4						Production Engineering I	HU I	Production Engineering II	HU I	
5						Measurement Technology for Mechai	nical			
26						Engineers				
_						Measurement Technology for Mechanical	VL 2			
	rsics for Engineers (GES)		Technical Thermodynamics I (GES)			Engineering				
0		VL 2 GÜ 1	*** Technical Thermodynamics I IV 3 *** Technical Thermodynamics I GÜ 1			Measurement Technology for Mechanical Engineering	HU 1			
9 Phys	sics for Engineers	GU 1	recinical inermodynamics i GU 1			Practical Course: Measurement and	PR 2			
0						Control Systems				
050	5 101	SE 2								
32 GES	101	5E 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.

Non-technical Courses for Bachelors (from catalogue) - 6LP