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

Sample course plan B Bachelor General Engineering Science (English program, 7 semester) (GESBS(7)) Specialisation Mechanical Engineering, Focus Energy Systems

	Legend:						
	Core qualification Compulsory	Specia	alisation Compulsory	Focus Compulsor	у	Thesis Compulsor	у
	Core qualification Elective Compulsory		alisation Elective ulsory	Focus Elective Co	mpulsory	Interdisciplinary complement	
r <b>itti</b> rs,	/www.mester 5	Formers	/wsemester 6	Formirs	/ <b>&amp;k</b> mest	er 7	Formers
j:	Introduction to Con Systems	trol	Foundations of Management	of	Advan GES	ced Internshi	p AIW/
L2	Introduction to Control Systems	VL 2	Introduction to Management	VL 3			
L3	Introduction to Control Systems	UE 2	Management Tu	utorial UE 2			
21							
<b>2)</b> 2							
3	Measurement Techr for Mechanical Engi		Advanced Med Engineering D				
	Measurement Technology for Mechanical Engineering	VL 2	Advanced Mech Engineering Des	sign II			
	Measurement Technology for	HÜ 1	Advanced Mech Engineering Des				
	Mechanical Engineering		Reciprocating (part 2)	Machinery			
II,	Practical Course: Measurement and	PR 2	Internal Combus Engines I	stion VL 2			
	Control Systems		Internal Combus Engines I	stion HÜ 1			
3 2 1	Advanced Mechanic Engineering Design 1) Advanced Mechanical	(part	Fundamentals Production an Management				
	Engineering Design I Advanced Mechanical	HÜ 2	Production Proc	ess VL 2			

									Compulsory	Comp	ulsory	Tocas Elective Co	complement	
LP	Semester 1	For <b>ith</b> rs,	/wskmester 2	Formers	/&kmester 3	Formers	/&kmester 4	Formirs	/wskemester 5 F	For <b>M</b> rs,	/wskmester 6	For <b>hi</b> rs,	∕⊌kmester 7	Forhhrs/
1 2	Chemistry (GES) Chemistry I	VL 2	Technical Thermodynamics I		Technical Thermodynamics II		Mechanical Engineer Design (part 2)	ring:	Introduction to Contro Systems	ol	Foundations o Management	f	Advanced Internshi	ip AIW/
3	Chemistry II	VL 2	Technical Thermodynamics I	VL 2	Technical Thermodynamics II	VL 2	Team Project Design Methodology	PBL2	Introduction to V Control Systems	VL 2	Introduction to Management	VL 3		
	Chemistry II	HÜ 1 HÜ 1	Technical Thermodynamics I	HÜ 1	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	PBL3	Introduction to Control Systems	JE 2	Management Tu	itorial UE 2		
4 5			Technical Thermodynamics I	UE 1	Technical Thermodynamics II	UE 1	Fundamentals of Materials Science (p	art 2)						
							Fundamentals of Materials Science II	VL 2						
6							Fluid Dynamics							
7 8	Linear Algebra		Mathematical Analys	sis	Mathematics III		Fluid Mechanics	VL 3	Measurement Techno		Advanced Med			
9	Linear Algebra	VL 4	Mathematical Analysis	VL 4	Analysis III	VL 2	Fluid Mechanics	HÜ 2	for Mechanical Engine		Engineering D 2)	esign (part		
	Linear Algebra	HÜ 2	Mathematical Analysis	HÜ 2	Analysis III	UE 1			Measurement V Technology for	VL 2	Advanced Mech	anical VI 2		
	Linear Algebra	UE 2	Mathematical Analysis	UE 2	Analysis III	HÜ 1			Mechanical		Engineering Des			
					Differential Equations	VL 2			Engineering		Advanced Mech	anical HÜ 2		
					I	UE 1				HÜ 1	Engineering Des	sign II		
10					Differential Equations 1	UE I			Technology for Mechanical		Reciprocating	Machinery		
11					Differential Equations	HÜ 1			Engineering		(part 2)	racimicity		
12					1		Mechanics IV (Kineti	cs II,		PR 2	Internal Combus	stion VL 2		
							Oscillations, Analytic		Measurement and Control Systems		Engines I			
1.2							Mechanics, Multibod Systems)	y	Control Systems		Internal Combus Engines I	stion HÜ 1		
13 14							Mechanics IV	VL 3	<b>Advanced Mechanical</b>		Eligilles i			
15									Engineering Design (p	part	Fundamentals			
13	<b>Electrical Engineerin</b>	ng I	Electrical Engineerin	ng II	Mechanics III (GES)		Mechanics IV	HÜ 1	Advanced Mechanical V	/1 2	Production and Management	d Quality		
	Electrical Engineering	VL 3	Electrical Engineering	VL 3	Mechanics III	HÜ 1			Engineering Design I		Production Proce	ess VL 2		
	Electrical Engineering	HE 2	II Electrical Engineering	IIE 2	Mechanics III	UE 2			Advanced Mechanical H	HÜ 2	Organization	C33 VL 2		
	Electrical Engineering	UE Z	Electrical Engineering	UE Z	Mechanics III	VL 3			Engineering Design I		Quality Manage	ment VL 2		
16									Heat Transfer					
17									Heat Transfer V	VL 3				
18 19							Signals and Systems	;		HÜ 2				
20							Signals and Systems	VL 3					<b>Bachelor Thesis</b>	
21	Mechanics I (GES)		Mechanics II (GES)		Computer Engineeri	ing	Signals and Systems	UE 2			Renewables as Systems	nd Energy		
22	Mechanics I	VL 2	Mechanics II	VL 2	Computer Engineering	VL 3			Reciprocating Machine	ery	Renewable Ener	rgy VL 2		
		HÜ 3		HÜ 2	Computer Engineering						Energy Systems			

				Fundamentals of VL 1 Reciprocating Engines and Turbomachinery - Part Reciprocating Engines Fundamentals of HÜ 1 Reciprocating Engines and Turbomachinery - Part Reciprocating Engines	Energy Industry Power Industry Renewable Energy	VL 1 UE 1
24 25				Gas and Steam Power		
26				Plants Gas and Steam Power VL 3		
27	Programming in C	Fundamentals of	Mechanical Engineering:	Plants		
28		Mechanical Engineering	Design (part 1)	Gas and Steam Power HÜ 1		
	Programming in C PR 1	(GES)	Embodiment Design VL 2	Plants		
29		Fundamentals of VL 2 Mechanical	and 3D-CAD			
	Physics for Engineers (GES)	Engineering  Fundamentals of UE 2	Mechanical Design PBL3 Project I			
30	Physics for Engineers VI 2					
31	District Conference of the 1	Mechanical Engineering	Fundamentals of Materials Science (part 1)			
32			Fundamentals of VL 2			
33			Materials Science I			
			Physical and Chemical VL 2			
			Basics of Materials Science			
	Nantachnical Complementary C	Courses for Bachelors (from cata				

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