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

Sample course plan C Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))

Mechanics I

HÜ 3 Mechanics II

HÜ 2 Computer Engineering UE 1

•	•		al Engineering Science , Focus Energy Systems		program, 7 semester)	(GESBS)	(7))		Compulsory		alisation Compulsory	Focus Compuisor		nesis Compuisory	
cialisa	ation Mechanical Eng	ymeering	, rocus Energy Systems	•					Core qualification Elective Compulsory	Special Comp	alisation Elective ulsory	Focus Elective Co		nterdisciplinary omplement	
S	Semester 1	Formers	/www.mester 2	For M rs,	∕⊌kmester 3	Formers	s/ &k mester 4	Formers	/wskemester 5 F	or ith rs	/&kmester 6	Forms	/&kmeste	r 7	Forh
_ с	Chemistry (GES)		Technical		Technical		Mechanical Enginee	ering:	Introduction to Contro	ol	Foundations o	f	Advance	ed Internshi	p AIW
C	Chemistry I	VL 2	Thermodynamics I		Thermodynamics II		Design (part 2)		Systems		Management		GES		
С	Chemistry II	VL 2	Technical	VL 2	Technical	VL 2	Team Project Design	PBL2		/L 2	Introduction to	VL 3			
С	Chemistry I	HÜ 1	Thermodynamics I		Thermodynamics II		Methodology		Control Systems		Management				
С	Chemistry II	HÜ 1	Technical Thermodynamics I	HU I	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	PBL3	Introduction to Control Systems	JE 2	Management Tu	itorial UE 2			
			Technical	UE 1	Technical	UE 1									
			Thermodynamics I		Thermodynamics II		Fundamentals of								
							Materials Science (•							
							Fundamentals of Materials Science II	VL 2							
							Fluid Dynamics								
Li	inear Algebra		Mathematical Analy	sis	Mathematics III		Fluid Mechanics	VL 3	Measurement Techno	loav	Advanced Med	hanical			
	inear Algebra	VL 4	Mathematical Analysis		Analysis III	VL 2	Fluid Mechanics	HÜ 2	for Mechanical Engine		Engineering D				
	inear Algebra	HÜ 2	Mathematical Analysis		Analysis III	UE 1	Train Treemannes	2	Measurement \	/L 2	2)				
	inear Algebra	UE 2	Mathematical Analysis		Analysis III	HÜ 1			Technology for		Advanced Mech				
_	incar / iigebra	02 2	racifematical ratarysis	02 2	Differential Equations				Mechanical Engineering		Engineering Des	_			
					1	•				ΗÜ 1	Advanced Mech Engineering Des				
					Differential Equations	UE 1			Technology for	10 1	Engineering Des	Jigii ii			
-					1				Mechanical		Reciprocating	Machinery			
-					Differential Equations	HÜ 1			Engineering		(part 2)				
					1		Mechanics IV (Kinet		Practical Course: F Measurement and	PR 2	Internal Combus Engines I	stion VL 2			
							Oscillations, Analyt Mechanics, Multibo		Control Systems		Internal Combus	stion HÜ 1			
							Systems)	,			Engines I	SCIOII HO I			
							Mechanics IV	VL 3	Advanced Mechanical Engineering Design (p		J				
							Mechanics IV	UE 2	1)	part	Advanced Mat	erials			
E	Electrical Engineeri	ing I	Electrical Engineering	_	Mechanics III (GES)		Mechanics IV	HÜ 1	Advanced Mechanical V	/L 2	Advanced Mater				
EI	Electrical Engineering	VL 3	Electrical Engineering	VL 3	Mechanics III	HÜ 1			Engineering Design I		Characterization				
-	and the state of t		II		Mechanics III	UE 2			Advanced Mechanical H	HÜ 2	Advanced Mater Design	rials VL 2			
E	Electrical Engineering	UE 2	Electrical Engineering	UE 2	Mechanics III	VL 3			Engineering Design I		Advanced Mater	rials HÜ 2			
									Heat Transfer		Design	11013 110 2			
										/L 3					
							Signals and System	ıs		HÜ 2					
							Signals and Systems		ricac iransiei F	10 2			Bachelo	r Thesis	
							Signals and Systems				Renewables a	nd Energy			
M	Mechanics I (GES)		Mechanics II (GES)		Computer Engineeri	ing	I.g. a.a. a.a ayacania	J			Systems				
М	Mechanics I	VL 2	Mechanics II	VL 2	Computer Engineering	y VL 3			Reciprocating Machin	ery	Renewable Ener	rgy VL 2			

Core qualification

(part 1)

Specialisation Compulsory Focus Compulsory

Energy Systems and VL 2

Thesis Compulsory

				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 UE 1
24 25				Computational Fluid	
26				Dynamics I	
27	Programming in C	Fundamentals of	Mechanical Engineering:	Computational Fluid VL 2 Dynamics I	
28	Programming in C VL 1	Mechanical Engineering	Design (part 1)	Computational Fluid HÜ 2	
	Programming in C PR 1	(GES)	Embodiment Design VL 2	Dynamics I	
29		Fundamentals of VL 2 Mechanical	and 3D-CAD		
	Physics for Engineers (GES)	Engineering	Mechanical Design PBL3 Project I		
30	Physics for Engineers VL 2	Fundamentals of UE 2	•		
31	Physics for Engineers UE 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		

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