## Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w17)

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

Mechanics I

VL 2 Mechanics II

VL 2 Computer Engineering VL 3

	•		rai Engineering Science (Eng	iish program, 7 semester,	(GESBS	(7))		Compulsory	Specia	unsucion compulsory	r ocus compuisor	y mesis compaisory	
Specia	alisation Mechanical Engi	neering	i, Focus Energy Systems					Core qualification Elective Compulsory		alisation Elective oulsory	Focus Elective Co	Interdisciplinary complement	
LP	Semester 1	Formers	/www.ester 2 For	hhrs/wikmester 3	Former	s/ <b>&amp;k</b> mester 4	Formirs	/ <b>%</b> kmester 5 F	ormirs	/www.mester 6	Formers	/www.mester 7	Formers/
2	Chemistry (GES)		Technical	Technical		Mechanical Engine	ering:	Introduction to Contro	ol	Foundations o	f	Advanced Internship	AIW/
3	Chemistry I	VL 2	Thermodynamics I	Thermodynamics II	I	Design (part 2)		Systems		Management		GES	
3	Chemistry II	VL 2	Technical VL		VL 2	Team Project Design	PBL2		′L 2	Introduction to	VL 3		
	Chemistry I	HÜ 1	Thermodynamics I	Thermodynamics II	un a	Methodology	DDI 3	Control Systems	ır 2	Management	م شد		
	Chemistry II	HÜ 1	Technical HÜ Thermodynamics I	1 Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	PBL3	Introduction to U Control Systems	JE 2	Management Tu	itoriai HU 2		
4			Technical UE	•	UE 1	,							
5			Thermodynamics I	Thermodynamics II		Fundamentals of							
						Materials Science (	•						
						Fundamentals of Materials Science II	VL 2						
6						r raterials selence ii							
7						Fluid Dynamics							
8	Linear Algebra		Mathematical Analysis	Mathematics III		Fluid Mechanics	VL 3	Measurement Technol for Mechanical and	logy	Advanced Med Engineering D			
9	Linear Algebra	VL 4	Mathematical Analysis VL		VL 2	Fluid Mechanics	HÜ 2	Process Engineers		2)	esigii (pai t		
	Linear Algebra	HÜ 2	Mathematical Analysis HÜ		UE 1			Measurement V	/L 2	Advanced Mech	anical VL 2		
	Linear Algebra	UE 2	Mathematical Analysis UE		HÜ 1			Technology for		Engineering Des	sign II		
				Differential Equations 1	s VL 2			Mechanical and Process Engineers		Advanced Mech			
				Differential Equations	s LIF 1				IÜ 1	Engineering Des	sign II		
10				1	, OL I			Technology for	10 1	Reciprocating	Machinery		
11				Differential Equations	s HÜ 1			Mechanical and		(part 2)			
12				1		Mechanics IV (Kine	•	Process Engineers	ם ח	Internal Combus	stion VL 2		
						Oscillations, Analytics Mechanics, Multibo		Practical Course: P Measurement and	R 2	Engines I	: UÜ 1		
						Systems)	ouy	Control Systems		Internal Combus Engines I	stion HÜ 1		
13						Mechanics IV	VL 3	Advanced Mechanical		g			
14						Mechanics IV	UE 2	Engineering Design (p	art	Advanced Mat	orials		
15	Electrical Engineerin	a I	Electrical Engineering II	Mechanics III (GES)	)	Mechanics IV	HÜ 1	1)		Advanced Mate			
	Electrical Engineering	_	Electrical Engineering VL		, HÜ 1			Advanced Mechanical V	′L 2	Characterization			
	I		II	Mechanics III	UE 2			Engineering Design I	ıı". a	Advanced Mate	rials VL 2		
	Electrical Engineering	UE 2	Electrical Engineering UE		VL 3			Advanced Mechanical Engineering Design I	10 2	Design			
16			II					5		Advanced Mater Design	rials HÜ 2		
17								<b>Heat Transfer</b>		Design			
18									′L 3				
19						Signals and System		Heat Transfer F	łÜ 2			Bachelor Thesis	
20						Signals and Systems				Renewables a	nd Energy	Dachelor Thesis	
21	Mechanics I (GES)		Mechanics II (GES)	Computer Enginee	rina	Signals and Systems	UE 2			Systems	na Lileigy		

Core qualification

Reciprocating Machinery

Renewable Energy

Specialisation Compulsory Focus Compulsory

Thesis Compulsory

Mechanics I HÜ 3	Mechanics II HÜ 2	Computer Engineering UE 1	(part 1)  Fundamentals of VL 1  Reciprocating Engines  and Turbomachinery -  Part Reciprocating  Engines  Fundamentals of HÜ 1  Reciprocating Engines  and Turbomachinery -  Part Reciprocating  Engines	Energy Systems and VL 2 Energy Industry Power Industry VL 1 Renewable Energy UE 1	
24 25 26			Computational Fluid Dynamics I Computational Fluid VL 2		
Programming in C Programming in C Programming in C Programming in C PR 1	Fundamentals of Mechanical Engineering (GES) Fundamentals of VL 2	Mechanical Engineering: Design (part 1) Embodiment Design VL 2 and 3D-CAD	Dynamics I  Computational Fluid HÜ 2  Dynamics I		
Physics for Engineers (GES)	Mechanical Engineering	Mechanical Design PBL3 Project I			
30 Physics for Engineers VL 2 31 Physics for Engineers UE 1 32	Fundamentals of UE 2 Mechanical Engineering	Fundamentals of Materials Science (part 1)		_	
33		Fundamentals of VL 2 Materials Science I Physical and Chemical VL 2 Basics of Materials Science			
Nontechnical Complementary	Courses for Bachelors (from cata	alogue) - 6LP			

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