## Course of Study General Engineering Science (English program) (Study Cohort w14)

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

Core qualification Compulsory Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

-	ialisation Mechanical Eng			-		,	Core qualification Elective Compulsory	Spe	ecialisation Elective	Focus Elective Co	mpulsory	Interdisciplinary com	nplement
LP	Semester 1 Fo	ormHrs/wk	Semester 2	FormHrs/wł	Semester 3	FormHrs/wk	Semester 4	FormHrs/w	k Semester 5	FormHrs/w	rk Semester 6		FormHrs/w
1	Chemistry (GES)		Physics for Engineers (GES) (part 2)		Technical Thermodynamics II		Mechanical Engineering: Design (par	t 2)	Introduction to Control Syst	ems	Foundations	of Management	
2 3 4 5	Chemistry II V Chemistry I H	'L 2 'L 2 - IÜ 1 IÜ 1	Physics-Lab for ET/IIW-Engineers Fundamentals of Mechanical Engineer Fundamentals of Mechanical Engineering Design	PR 1 rring VL 2	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1 UE 1	Team Project Design Methodology Mechanical Design Project II Fundamentals of Materials Science (r Fundamentals of Materials Science II		Introduction to Control Syste			to Management epreneurship	VL 4 POL 2
6			Fundamentals of Mechanical	HÜ 2			Advanced Mechanical Engineering D	esign					
7 8	Linear Algebra H	'L 4 IÜ 2 IE 2	Engineering Design		Computer Engineering Computer Engineering Computer Engineering	VL 3 UE 1	Design II Advanced Mechanical Engineering	VL 2 HÜ 2	Measurement Technology for Process Engineers Measurement Technology for Mechanical and Process Err	or VL 2	Internal Con	ng Machinery (part 2) hbustion Engines I hbustion Engines I	VL 2 HÜ 1
9		-	Technical Thermodynamics I				Design II Signals and Systems		Measurement Technology for				
9 10			Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	VL 2 HÜ 1			Signals and Systems Signals and Systems Signals and Systems	VL 3 HÜ 1	Mechanical and Process Er Practical Course: Measurem Control Systems				
11			Technical Thermodynamics I	UE 1							Bachelor Th	iesis	
12													
13					Mathematics III				Gas and Steam Power Plan				
14					Analysis III Analysis III	VL 2 UE 1			Gas and Steam Power Plant Gas and Steam Power Plant				
15 16 17 18	о о	'L 3 IE 2	Mathematical Analysis Mathematical Analysis Mathematical Analysis Mathematical Analysis	VL 4 HÜ 2 UE 2	Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	HÜ 1 VL 2 UE 1 HÜ 1	Fluid Dynamics Fluid Mechanics Fluid Mechanics	VL 3 HÜ 1					
19									Computational Fluid Dynam	ics I			
20									Computational Fluid Dynam	ics I VL 2			
21	Mechanics I (GES)				Mechanics III (GES)		Mechanics IV (Kinetics II, Oscillation	5,	Computational Fluid Dynam	ics I HÜ 2			
22	Mechanics I V	'L 2			Mechanics III	HÜ 1	Analytical Mechanics, Multibody Sys	tems)					
23	Mechanics I H	IÜ 3 -	Electrical Engineering II		Mechanics III	UE 2	Mechanics IV Mechanics IV	VL 3 UE 2					
24			Electrical Engineering II	VL 3	Mechanics III	VL 3	Mechanics IV	HÜ 1					
25			Electrical Engineering II	UE 2					Heat Transfer				
26									Heat Transfer	VL 3			
27	Physics for Engineers (GES) (part 1)				Mechanical Engineering: Design (pa	rt 1)	Fundamentals of Production and Qual	ity	Heat Transfer	HÜ 1			
28		'L 2 IE 1	Nacharia II (050)		Embodiment Design and 3D-CAD Mechanical Design Project I	VL 2 TT 3	Management Production Process Organization	VL 2					
29			Mechanics II (GES) Mechanics II	VL 2	Fundamentals of Matariate Oct	(mark 1)	Quality Management	VL 2					
30			Mechanics II	HÜ 2	Fundamentals of Materials Science								
31 32					Physical and Chemical Basics of	VL 2			Reciprocating Machinery (p Fundamentals of Reciprocat	ting VL 1			
					Materials Science				Engines and Turbomachine	ry - Part			

	-			Fundamentals of Reciprocating HŪ 1 Engines and Turbomachinery - Part Reciprocating Engines
33				
34			Advanced Mechanical Engineering Design	
35		Programming in C	(part 1)	
36		Programming in C VL 1	Advanced Mechanical Engineering VL 2 Design I	
00		Programming in C PR 1	Advanced Mechanical Engineering HÜ 2 Design I	
	Nontechnical Complementary Courses	s for Bachelors (from catalogue) - 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.