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 Theoretical Mechanical Engineering

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ik	mester 5	Formers	/&kmester 6	Forms	/ &k mest	er 7	Forthrs/
	Core qualification Elective Compulsory	Specia Comp	alisation Elective ulsory	Focus Elective Co	mpulsory	Interdisciplinary complement	
	Core qualification Compulsory	Specia	alisation Compulsory	Focus Compulsor	у	Thesis Compulsory	
	Legend:						

LP	Semester 1 Formus	/wikemester 2 Formirs	/wskemester 3 Formirs	/wskmester 4 Formirs	/ Wikemester 5 For hhrs	/wsemester 6 Formers	/wikemester 7 Formirs/w
1 2 3 4 5	Chemistry (GES) Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1	Technical Thermodynamics I Technical Technical Technical Technical Thermodynamics I Technical Technical UE 1 Thermodynamics I	Technical Thermodynamics II Technical Technical Technical Technical Thermodynamics II Technical Technical UE 1 Thermodynamics II	Mechanical Engineering: Design (part 2) Team Project Design PBL2 Methodology Mechanical Design PBL3 Project II Fundamentals of Materials Science (part 2) Fundamentals of VL 2 Materials Science II	Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1	Foundations of Management Introduction to VL 3 Management Management Tutorial UE 2	Advanced Internship AIW/ GES
9 10 11 12	Linear Algebra Linear Algebra Linear Algebra Linear Algebra UE 2	Mathematical Analysis Mathematical Analysis VL 4 Mathematical Analysis HÜ 2 Mathematical Analysis UE 2	Mathematics III Analysis III VL 2 Analysis III UE 1 Analysis III HÜ 1 Differential Equations VL 2 1 Differential Equations UE 1 1 Differential Equations HÜ 1 1	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical VL 2 Engineering Design II Advanced Mechanical HÜ 2 Engineering Design II Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2	Introduction to Control Systems Introduction to VL 2 Control Systems Introduction to UE 2 Control Systems	Mathematics IV Complex Functions VL 2 Complex Functions UE 1 Complex Functions HÜ 1 Differential Equations VL 2 Differential Equations UE 1 2 Differential Equations HÜ 1 2	
13 14 15 16 17 18	Electrical Engineering I Electrical Engineering VL 3 I Electrical Engineering UE 2 I	Electrical Engineering II Electrical Engineering VL 3 II Electrical Engineering UE 2 II	Mechanics III (GES) Mechanics III HÜ 1 Mechanics III UE 2 Mechanics III VL 3	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV VL 3 Mechanics IV UE 2 Mechanics IV HÜ 1	Measurement Technology for Mechanical Engineers Measurement VL 2 Technology for Mechanical Engineering Measurement HÜ 1 Technology for Mechanical Engineering Practical Course: PR 2 Measurement and Control Systems	Fundamentals of Production and Quality Management Production Process VL 2 Organization Quality Management VL 2	
19 20 21 22	Mechanics I (GES)	Mechanics II (GES)	Mechanical Engineering: Design (part 1)	Signals and Systems	Advanced Mechanical Design Project Advanced Mechanical PBL4 Design Project	Modeling, Simulation and Optimization (GES) Modeling, Simulation IV 4 and Optimization	Bachelor Thesis
23	Mechanics I VL 2	Mechanics II VL 2	Embodiment Design VL 2	Signals and Systems VL 3			

	Mechanics I	HÜ 3	Mechanics II	HÜ 2	and 3D-CAD	Signals and Systems UE 2
	Trechames I	3	Precionics II	110 2	Mechanical Design PBL3 Project I	orginals and systems of 2
24					Fundamentals of	
25					Materials Science (part 1)	
26					Fundamentals of VL 2	
27	Programming in C		Fundamentals of		Materials Science I	
	Programming in C	VL 1	Mechanical Engineering (GES)	ng	Physical and Chemical VL 2 Basics of Materials	
	Programming in C	PR 1		VL 2	Science	
28			Mechanical		Advanced Mechanical	
29	Physics for Engineers	s	Engineering Fundamentals of UE 2	UE 2	Engineering Design (part	
30	(GES)		Mechanical	OL Z	1)	
	Physics for Engineers		Engineering		Advanced Mechanical VL 2 Engineering Design I	
	Physics for Engineers	UE 1			Advanced Mechanical HÜ 2	
					Engineering Design I	
31						
32						

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

Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP