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

Sample course plan A Bachelor General Engineering Science (English program, 7 semester) (GESBS(7)) Specialisation Mechanical Engineering, Focus Mechatronics

Legend:				
Core qualification Compulsory			Thesis Compulsory	
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement	

LP	Semester 1	Formers	/wSkemester 2 Forming	s/wSemester 3 FormHr	s/wSkemester 4	Formirs	/wSkemester 5 Formilia	s/wSwemester6 Fo	ormirs/wSmemester 7 Formi
1 2 3 4 5	Chemistry II	VL 2 VL 2 HÜ 1 HÜ 1	Technical Thermodynamics I Technical VL 2 Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 1 Thermodynamics I	Technical Thermodynamics II Technical VL 2 Thermodynamics II Technical HÜ 1 Thermodynamics II Technical UE 1 Thermodynamics II	Mechanical Engineerin Design (part 2) Team Project Design Methodology Mechanical Design Project II Fundamentals of Mater Science (part 2) Fundamentals of Materials Science II	PBL2	Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1	Introduction to VL Management	Advanced Internship GES
9 10 11	Linear Algebra	VL 4 HÜ 2 UE 2	Mathematical Analysis Mathematical Analysis Mathematical Analysis HÜ 2 Mathematical Analysis UE 2	Mathematics III Analysis III VL 2 Analysis III UE 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 UE 1 Differential Equations 1 HÜ 1	Advanced Mechanical Engineering Design (p Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II Fluid Dynamics Fluid Mechanics Fluid Mechanics	art 2) VL 2 HÜ 2 VL 3 HÜ 2	Introduction to Control Systems Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems	Design	
13 14 15 16 17 18	Electrical Engineering I Electrical Engineering I Electrical Engineering I		Electrical Engineering II Electrical Engineering II VL 3 Electrical Engineering II UE 2	Mechanics III (GES) Mechanics III HÜ 1 Mechanics III UE 2 Mechanics III VL 3	Mechanics IV (Kinetics Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV Mechanics IV Mechanics IV		Measurement Technology for Mechanical and Process Engineers Measurement VL 2 Technology for Mechanical and Process Engineers Measurement HÜ 1 Technology for Mechanical and Process Engineers Practical Course: PR 2 Measurement and Control Systems	Complex Functions UE Complex Functions HU Differential Equations 2 VL Differential Equations 2 HU Differential Equations 2 HU	IE 1
19 20 21	Mechanics I (GES)		Mechanics II (GES)	Mechanical Engineering:	Signals and Systems		Electrical Engineering III: Circuit Theory and Transients	Electrical Machines and Actuators Electrical Machines and VL	Bachelor Thesis
22 23	ì i	VL 2	Mechanics II VL 2	Design (part 1)	Signals and Systems	VL 3	Circuit Theory VL 3 Circuit Theory UE 2	Actuators Electrical Machines and Hil	IÜ 2

24	Mechanics I H	Ü 3	Mechanics II HÜ 2	3D-CAD Mechanical Design PBL3 Project I Fundamentals of Materials	Signals and Systems U	IE 2		Actuators
25 26 27				Science (part 1) Fundamentals of VL 2			Simulation and Design of Mechatronic Systems	
27		L 1 R 1	Fundamentals of Mechanical Engineering (GES) Fundamentals of VL 2 Mechanical Engineering	Materials Science I Physical and Chemical VL 2 Basics of Materials Science			Simulation and Design VL 2 of Mechatronic Systems Simulation and Design HÜ 1 of Mechatronic Systems	
8 9 0	, ,	ES) L 2	Fundamentals of UE 2 Mechanical Engineering	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical VL 2 Engineering Design I Advanced Mechanical HÜ 2 Engineering Design I			Simulation and Design PR 1 of Mechatronic Systems	
31 32					_			

Nontechnical Complementary Courses 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.