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

Sample course plan C Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Mechanical Engineering, Focus Mechatronics

	Legend:		1 3	,			
	Core qualification Compulsory	Specia	alisation Compulsory	Focus Compulsor	у	Thesis Compulsory	′
	Core qualification Elective Compulsory		alisation Elective oulsory	Focus Elective Co	mpulsory	Interdisciplinary complement	
Mhrs	/ស្ឌkmester 5	Formers	s/\skmester 6	Formins	/ &k mest	er 7	For h rs/w
: .2 .3	Computer Engineering Computer Engineering Computer Engineering	VL 3	Foundations of Management Introduction to Management Management Tu	VL 3	Advan- GES	ced Internship	o AIW/
2) 2							
rt	Introduction to Contr Systems	ol	Semiconducto Design	enductor Circuit			
2	Introduction to Control Systems	VL 2	Semiconductor Design	Circuit VL 3			
2	Introduction to Control Systems	UE 2	Semiconductor Design	Circuit UE 1			
3							
	Moasuromont Tochno	Joan	Mathematics I	V			

LP	Semester 1 Forms	/wsikemester 2 Formire	/Wikemester 3 Forthers	/wikemester 4 Formirs	/Wikemester 5 Forthirs	/\sikemester 6 Forthirs	/wsiemester 7 Formirs
1 2 3 4 5	Chemistry Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering VL 3 II: Alternating Current Networks and Basic Devices Electrical Engineering UE 2 II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II Technical Technical Technical Thermodynamics II Technical Thermodynamics II 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 HÜ 2	Advanced Internship AIW/ GES
7 8 9 10 11 12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering VL 3 I: Direct Current Networks and Electromagnetic Fields Electrical Engineering UE 2 I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering Design	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	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	Semiconductor Circuit Design Semiconductor Circuit VL 3 Design Semiconductor Circuit UE 1 Design	
13 14 15 16 17 18	Mathematics I Linear Algebra I VL 2 Linear Algebra I UE 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I UE 1 Analysis I HÜ 1	Technical Thermodynamics I Technical VL 2 Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 1 Thermodynamics I	Mechanics III (Hydrostatics, Kinematics, Kinetics I) Mechanics III VL 3 Mechanics III UE 2 Mechanics III HÜ 1	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 and Process Engineers Measurement Technology for Mechanical and Process Engineers Measurement Technology for Mechanical and Process Engineers Practical Course: Measurement and 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	
19 20 21	Mechanics I (Statics)	Mechanics II: Mechanics of Materials Mechanics II VL 2	Mechanical Engineering:	Signals and Systems	Electrical Engineering III: Circuit Theory and Transients	Advanced Materials Advanced Materials VL 2 Characterization	Bachelor Thesis

22	Mechanics I	VL 2	Mechanics II	UE 2	Design (part 1)		Signals and Systems	VL 3	Circuit Theory	VL 3	Advanced Materials	VL 2
23	Mechanics I	UE 2	Mechanics II	HÜ 2	Embodiment Design	VL 2	Signals and Systems	UE 2	Circuit Theory	UE 2	Design	
	Mechanics I	HÜ 1			and 3D-CAD						Advanced Materials	HÜ 2
	ricenaries i	110 1			Mechanical Design	PBL3					Design	
					Project I							
24												
25					Fundamentals of Materials Science (p	art 1)						
26			Mathematics II						Simulation and De	_		
27			Linear Algebra II	VL 2	Fundamentals of	VL 2			Mechatronic Syste			
	Programming in C		Linear Algebra II	UE 1	Materials Science I				Simulation and Desig	ın VL 2		
	Programming in C	VL 1	Linear Algebra II	HÜ 1	Physical and Chemical Basics of Materials	VL 2			of Mechatronic Systems			
	Programming in C	PR 1	Analysis II	VL 2	Science				•			
			Analysis II	HÜ 1	Science				Simulation and Designor Mechatronic	IN HU I		
28			·		Advanced Mechanic	al			Systems			
29	Physics for Engineer	'S	Analysis II	UE 1	Engineering Design	(part			-	DD 1		
30	(AIW)	_			1)				Simulation and Designorm	JII PK I		
	Physics for Engineers	VL 2			Advanced Mechanical	VL 2			Systems			
	Physics for Engineers				Engineering Design I							
	rilysics for Eligineers	OL I			Advanced Mechanical	HÜ 2						
					Engineering Design I							
31												
1												

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.