Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w18)

Sample course plan C Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Mechanical Engineering, Focus Product Development and Production

of Materials

iple course plan C. Bachelor Gener		. •	(7))		ompulsory	Specie	ansacion compaisory	rocus compaisor	y	mesis compaisory	
cialisation Mechanical Engineering	g, Focus Product Development a	and Production				Specia Comp	alisation Elective ulsory	Focus Elective Co	ompulsory	Interdisciplinary complement	
Semester 1 Forms	/wskemester 2 Forhhr	s/wSkemester 3 Formili	rs/&kemester 4 For	r h hrs/ &k m	nester 5 Fo	or itti rs	/wskemester 6	Formirs	s/ &k mest	er 7	Fo
Chemistry I VL 2 Chemistry II VL 2 Chemistry II VL 2 Chemistry II 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 VL 2 Thermodynamics II Technical HÜ 1 Thermodynamics II Technical UE 1 Thermodynamics II	Mechanical Engineering Design (part 2) Team Project Design PB Methodology Mechanical Design PB Project II Fundamentals of Materials Science (part	g: Intro Syst BL2 Intro Cont Intro Cont	oduction to Contro tems oduction to VI trol Systems		Foundations of Management Introduction to Management Management Tul	f VL 3		ed Internship AIV	
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 Differential Equations UE 1 Differential Equations HÜ 1 1	Engineering Design (pa 2) Advanced Mechanical VL Engineering Design II Advanced Mechanical HÜ Engineering Design II Production Engineering (part 2) Production VL Engineering II	Com Com	n puter Engineering nputer Engineering VI nputer Engineering UI	L 3	Integrated Pro Development a Lightweight De Integrated Produ Development I Development of Lightweight Desi Products CAE-Team Project	esign uct VL 2 VL 2 ign			
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 Thermodynamics I Technical Thermodynamics I Technical 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 Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV VL Mechanics IV UE	Mea: Tech Mecl Engi Mea: Tech Mecl Engi Mea: Tech Mecl Engi Prac E 2 Mea:	nnology for hanical ineering surement Hi nnology for hanical ineering		Enhanced Fundon Materials Scientification of	vL 2			
	Mechanics II: Mechanics			Adv	anced Mechanical		Advanced Mate	erials	Bachel	or Thesis	

Core qualification

Design Project

Specialisation Compulsory Focus Compulsory

Advanced Materials VL 2

Thesis Compulsory

21 22 23 24	Mechanics I (Statics) Mechanics I VL 2 Mechanics I UE 2 Mechanics I HÜ 1	Mechanics II VL 2 Mechanics II UE 2 Mechanics II HÜ 2	Design (part 1)	Advanced Mechanical P Design Project	Advanced Materials VL 2 Design Advanced Materials HÜ 2 Design	
25 26 27 28	Programming in C Programming in C VL 1 Programming in C PR 1	Mathematics II Linear Algebra II VL 2 Linear Algebra II UE 1 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1	Materials Science (part 1) Fundamentals of VL 2 Materials Science I Physical and Chemical VL 2 Basics of Materials Science	Production Technology Forming and Cutting V Technology Forming and Cutting H Technology Fundamentals of V Machine Tools	2	
29 30	Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers UE 1	Analysis II UE 1	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical VL 2 Engineering Design I Advanced Mechanical HÜ 2 Engineering Design I		Ü 1	
32 33	Nontechnical Complementary (Production Engineering (part 1) Production VL 2 Engineering I Production HÜ 1 Engineering I			

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