## Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w16)

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

## Legend:

Specia	pecialisation Mechanical Engineering, Focus Materials in Engineering Sciences							Core qualification CompulsorySpeciaCore qualification ElectiveSpecia		mpulsory ective	Focus Compulsory		Thesis Compulsory	ent
_P	Semester 1 Fo	ormHrs/	/wSkemester 2	FormHirs	wokemester3 Formining	/wSkemester 4	Formation Formation	volkemester 5	Forministry	/wSkemester 6		Formitirs	Weemester 7	FormHrs/w
1 2 3 4 5	Chemistry I VI Chemistry II VI Chemistry II H Chemistry II H	L 2 L 2 Ü 1 Ü 1	Electrical Engineering II Alternating Current Networks and Basic Dev Electrical Engineering II: A Alternating Current Networks and Basic Devices Electrical Engineering II: I Alternating Current Networks and Basic Devices	I: VL 3 UE 2	Technical ThermodynamicsIITechnicalVL 2Thermodynamics IITechnicalHÜ 1Thermodynamics IITechnicalUE 1Thermodynamics II	Mechanical Engineeri Design (part 2) Team Project Design Methodology Mechanical Design Project II Fundamentals of Mate Science (part 2) Fundamentals of Materials Science II	ng: PBL2 TT 3 rials VL 2	Computer Engineerin Computer Engineerin Computer Engineerin	r <b>ing</b> g VL 3 g UE 1	Foundation Introduction Managemen Managemen	ns of Manage to nt Tutorial	ement VL 3 HÜ 2	Advanced Internship G	ES
7 3 9 10 11 12	Electrical Engineering I: Direct Current Networks a Electromagnetic Fields Electrical Engineering I: VI Direct Current Networks and Electromagnetic Fields Electrical Engineering I: U Direct Current Networks and Electromagnetic Fields	and L 3 E 2	Fundamentals of Mechan Engineering Design Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design	nical VL 2 HÜ 2	Mathematics IIIVL2Analysis IIIUE1Analysis IIIHÜ1Differential Equations 1VL2Differential Equations 1UE1Differential Equations 1HÜ1	Advanced Mechanical Engineering Design ( Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II Fluid Dynamics Fluid Mechanics Fluid Mechanics	VL 2 HÜ 2 VL 3 HÜ 2	Introduction to Con Systems Introduction to Contr Systems Introduction to Contr Systems	ntrol ol VL 2 ol UE 2	Enhanced Materials S Enhanced Fundamenta Ceramics a Enhanced Fundamenta Ceramics a	Fundamental science als: Metals als: nd Polymers als: nd Polymers	I <mark>s of</mark> VL 2 VL 2 HÜ 1		
3 4 5 7 8	Mathematics I   Linear Algebra I VI   Linear Algebra I U   Linear Algebra I H   Analysis I VI   Analysis I U   Analysis I H   Analysis I H	L 2 E 1 Ü 1 L 2 E 1 Ü 1	Technical Thermodynam   Technical   Thermodynamics I   Technical   Thermodynamics I   Thermodynamics I   Technical   Thermodynamics I   Technical   Thermodynamics I	nics I VL 2 HÜ 1 UE 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I)Mechanics IIIVL 3Mechanics IIIUE 2Mechanics IIIHÜ 1	Mechanics IV (Kinetic Oscillations, Analytica Mechanics, Multibody Systems) Mechanics IV Mechanics IV Mechanics IV	sII, al VL 3 UE 2 HÜ 1	Measurement Tech for Mechanical and Engineers Measurement Technology for Mechanical and Proc Engineers Measurement Technology for Mechanical and Proc Engineers Practical Course: Measurement and Control Systems	Process VL 2 ess HÜ 1 ess PR 2	Structural Fundamenta Mechanical of Materials Electrical M Electrical M	Materials (pa als of Properties Machines achines achines	vl 2 VL 3 HÜ 2		
20 21 22 23	Mechanics I (Statics) Mechanics I VI Mechanics I U	L 2 E 2	Mechanics II: Mechanics Materials Mechanics II Mechanics II	s of VL 2 UE 2 HÜ 2	Mechanical Engineering: Design (part 1) Embodiment Design and VL 2 3D-CAD	Signals and Systems Signals and Systems Signals and Systems	VL 3 HÜ 1	Numerical Mathema Numerical Mathemat I Numerical Mathemat I	atics I ics VL 2 ics UE 2				Bachelor Thesis	

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