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

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

Core qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory

Core qualification Elective

Core qualification Elective

Specialisation Elective

Compulsory Focus Elective Compulsory

Interdisciplinary complement

Compulsory

1 2 3	Chemistry	Floatrical Francesina II.					
5	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 II: VL 3 Alternating Current Networks and Basic Devices Electrical Engineering II: UE 2 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 PBI Methodology Mechanical Design TT Project II  Fundamentals of Materials Science (part 2) Fundamentals of VL Materials Science II	Computer Engineering UI	Foundations of Management  Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship GES
7 8 9 10 11	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields  Electrical Engineering I: VL 3 Direct Current Networks and Electromagnetic Fields  Electrical Engineering I: UE 2 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 1 VL 2  Differential Equations 1 UE 1  Differential Equations 1 HÜ 1	Advanced Mechanical Engineering Design (part 2 Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II  Fluid Dynamics Fluid Mechanics VL Fluid Mechanics HÜ	2 Systems Introduction to Control VI 2 Systems Introduction to Control UI Systems	Complex Functions UE 1  Complex Functions HÜ 1	
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 Mechanics IV UE Mechanics IV HÜ	Technology for Mechanical and Process Engineers  Measurement History Technology for Mechanical and Process Engineers		
19 20 21	Mechanics I (Statics)  Mechanics I VL 2  Mechanics I UE 2	Mechanics II: Mechanics of Materials  Mechanics II VL 2  Mechanics II UE 2  Mechanics II HÜ 2	Mechanical Engineering: Design (part 1) Embodiment Design and VL 2 3D-CAD	Signals and Systems Signals and Systems VL Signals and Systems HÜ	3 Design Project	Production Engineering (part 2) Production Engineering VL 2 II Production Engineering HÜ 1	Bachelor Thesis

31 32 33	Materials Science I	Heat Transfer VL 3 Heat Transfer HÜ 2
33		Production Engineering (part 1)
		Production Engineering I VL 2 Production Engineering I HÜ 1

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