Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20)

Sample	e course plan B Bachelor Genera	al Engineering Science (Germa	n program, 7 semester) (AIWBS	5(7))	Core Qualification Compulsory Specialist Core Qualification Elective Compulsory Specialist Special	sation Compulsory Focus Compulsory sation Elective Compulsory Focus Elective Compuls	Inesis Compulsory  Interdisciplinary complement
	isation Mechanical Engineering,				Semester 5 FormHrs/wk	Semester 6 FormHrs/wk	Semester 7 FormHrs/r
1 2 3 4 5	Chemistry         VL         4           Chemistry I+II         HÛ         2	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating VL 3 Current Networks and Basic Devices Electrical Engineering II: Alternating GÜ 2 Current Networks and Basic Devices	Technical Thermodynamics II	Signals and Systems Signals and Systems VL 3 Signals and Systems GÜ 2	Introduction to Control Systems Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2	Advanced Internship AIW/ ES: SE 1 Preparation Advanced Intenship AIW/ ES: Internship- SE 1 accompanying Seminar
6 7 8 9 10 11	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current VL 3 Networks and Electromagnetic Fields Electrical Engineering I: Direct Current GÜ 2 Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering VL 2 Design Fundamentals of Mechanical Engineering HÜ 2 Design	Mathematics III	Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2	Measurement Technology for Mechanical Engineers Measurement Technology for Mechanical VL 2 Engineering Measurement Technology for Mechanical HÜ 1 Engineering Practical Course: Measurement and PR 2 Control Systems	Electrical Machines and Actuators  Electrical Machines and Actuators VL 3  Electrical Machines and Actuators HÜ 2	
13 14 15 16 17 18 19	Mathematics	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1 Technical Thermodynamics I GÜ 1	Mechanics III (Dynamics)           Mechanics III         VL         3           Mechanics III         G0         2           Mechanics III         H0         1	Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics Mechanics IV VL 3 Mechanics IV GÜ 2 Mechanics IV HÜ 1  Advanced Mechanical Engineering Design (part 2)	Heat Transfer         VL 3           Heat Transfer         VL 3           Heat Transfer         HÜ 2             Computer Engineering           Computer Engineering         VL 3	Reciprocating Machinery (part 2) Internal Combustion Engines I VL 2 Internal Combustion Engines I HÜ 1  Renewables Energy Systems und Energy Economy Renewable Energy VL 2 Energy Systems and Energy Industry VL 2 Power Industry VL 1	Bachelor Thesis
21 22 23 24 25 26	Mechanics I (Statics)           Mechanics I         VL 2           Mechanics I         GÜ 2           Mechanics I         HÜ 1	Mechanics II	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering VL 2 Design I Advanced Mechanical Engineering HÜ 2 Design I Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3	Advanced Mechanical Engineering VL 2 Design II Advanced Mechanical Engineering HÜ 2 Design II  Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3  Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II VL 2	Computer Engineering GÜ 1  Reciprocating Machinery (part 1) Fundamentals of Reciprocating Engines VL 1 and Turbomachinery - Part Reciprocating	Renewable Energy GÜ 1	
27	Programming in C Programming in C VL 1	Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1	Fundamentals of Materials Science (part 1) Fundamentals of Materials Science   VL 2		Engines Fundamentals of Reciprocating Engines HÜ 1 and Turbomachinery - Part Reciprocating Engines Numerical Mathematics I Numerical Mathematics I VL 2		
29 30	Programming in C		Physical and Chemical Basics of Materials VL 2 Science		Numerical Mathematics I GÜ 2		

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