**Course of Study General Engineering Science (German program, 7 semester)** (Study Cohort w22)

Core Qualification Compulsory

	e course plan B Bachelor Genera					Core Qualification Elective Compulsory Speciali	sation Elective Compulsory Focus Elective Compulsor	Interdisciplinary complement
pecial	lisation Mechanical Engineering,	EQCUS 2 Energy Systems FormHrs/wk	Semester 3 FormHrs/wk	Semester 4 F	ormHrs/wk	Semester 5 FormHrs/wk	Semester 6 FormHrs/wk	Semester 7 FormHr
1 2 3 4	Chemistry         VL         4           Chemistry I+II         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		VL 3 GŪ 2	Introduction to Control Systems VL 2 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 Preparation Advanced Intenship AIW/ ES: Internship- SE 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	Pundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering VL 2 Design Fundamentals of Mechanical Engineering HÜ 2 Design	Mathematics III           Analysis III         VL         2           Analysis III         GÜ         1           Analysis III         HÜ         1           Differential Equations 1         VL         2           Differential Equations 1         GÜ         1           Differential Equations 1         HÜ         1		VL 3 HÛ 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	Mathematics I         VL         4           Mathematics I         HÜ         2           Mathematics I         GÜ         2	Technical Thermodynamics I	Engineering Mechanics III (Dynamics)  Engineering Mechanics III VL 3  Engineering Mechanics III GÜ 2  Engineering Mechanics III HÜ 1	Computational Mechanics	IV 2 GŪ 2 IV 2	Heat Transfer     VL     3       Heat Transfer     HÜ     2	Computer Science for Engineers - Programming Concepts, Data Handling & Communication Computer Science for Engineers - VL 3 Programming Concepts, Data Handling & Communication Computer Science for Engineers - GÜ 2 Programming Concepts, Data Handling & Communication	
19		Mathematics II           Mathematics II         VL         4           Mathematics II         HÜ         2           Mathematics II         GÜ         2		Design II	sign VL 2 HÜ 2	Reciprocating Machinery (part 1)  Fundamentals of Reciprocating Engines VL 1 and Turbomachinery - Part Reciprocating Engines  Fundamentals of Reciprocating Engines HÜ 1 and Turbomachinery - Part Reciprocating Engines	Reciprocating Machinery (part 2) Internal Combustion Engines I VL 2 Internal Combustion Engines I HÛ 1	Bachelor Thesis
21 22 23 24 25 26	Computer Science for Engineers - Introduction and Overview  Computer Science for Engineers - VL 3 Introduction and Overview  Computer Science for Engineers - GÜ 2 Introduction and Overview		Advanced Mechanical Engineering Design (part 1)  Advanced Mechanical Engineering VL 2 Design 1  Advanced Mechanical Engineering HÜ 2 Design 1  Mechanical Engineering: Design (part 1) Embodiment Design ad 3D-CAD VL 2 Introduction and Practical Training Mechanical Design Project PBL 3		PBL 2 PBL 3	Numerical Mathematics I  Numerical Mathematics I  VL 2  Numerical Mathematics I  GÜ 2	Renewables Energy Systems und Energy Economy Renewable Energy VL 2 Energy Systems and Energy Industry VL 2 Power Industry VL 1 Renewable Energy GÖ 1	
27 28 29 30 31 32	Engineering Mechanics I (Stereostatics)  Engineering Mechanics I VL 2  Engineering Mechanics I GÜ 2  Engineering Mechanics I HÜ 1	Engineering Mechanics II (Elastostatics)  Engineering Mechanics II VL 2  Engineering Mechanics II GÜ 2  Engineering Mechanics II HÜ 2	Fundamentals of Materials Science (part 1) Fundamentals of Materials Science 1 VL 2 Physical and Chemical Basics of Materials VL 2 Science					

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