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)) Specialisation Mechanical Engineering, Focus Theoretical Mechanical Engineering

Legenc:

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

Focus Elective Compulsory

Interdisciplinary complement

Compulsory

LP	Semester 1 Form	s/wSwemester 2 Formers	/wSwemester 3 Formilirs	√wSkemester4 Forkh	rs/wSwemester5 Forming	s/wSkemester6 FormHrs	/w&kemester7 Formirs
1 2 3 4 5	Chemistry 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 PBL2 Methodology Mechanical Design TT 3 Project II Fundamentals of Materials Science (part 2) Fundamentals of VL 2 Materials Science II	Computer Engineering OL 1	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship GES
9 10 11 12	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 3 Fluid Mechanics Fluid Mechanics Fluid Mechanics Fluid Mechanics	Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems	Mathematics IV Complex Functions VL 2 Complex Functions UE 1 Complex Functions HÜ 1 Differential Equations 2 VL 2 Differential Equations 2 UE 1 Differential Equations 2 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 3 Mechanics IV UE 2 Mechanics IV HÜ 1	Measurement HÜ 1 Technology for	Electrical Machines Electrical Machines VL 3 Electrical Machines HÜ 2	
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	Signals and Systems Signals and Systems VL 3 Signals and Systems HÜ 1		Production Engineering (part 2) Production Engineering VL 2 II Production Engineering HÜ 1	Bachelor Thesis
	Mechanics I HÜ 1		3D-CAD			II	

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.