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 Aircraft Systems 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 Formers	/w‰kemester2 Formirs	/wSwemester 3 FormHrs	/wSkemester4 Formid	rs/v&lemester 5 Formers	s/w&mester 6 Forming	s/wSwemester7 Formings/
1 2 3 4 5	Chemistry Chemistry I VL 2 Chemistry II VL 2 Chemistry II 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 OE 1	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship GES
7 8 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 HÜ 2	Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems	Integrated Product Development and Lightweight Design Integrated Product Development I Development of Lightweight Design Products CAE-Team Project PBL2	
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	Moscuroment HII 1	Aeronautical Systems Air Transportation VL 2 Systems Fundamentals of VL 2 Aircraft Systems Fundamentals of UE 1 Aircraft Systems Air Transportation HÜ 1 Systems	
19 20 21 22 23	Mechanics I (Statics) Mechanics I VL 2 Mechanics I UE 2 Mechanics I HÜ 1	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 3 Signals and Systems HÜ 1	Advanced Mechanical Design Project Advanced Mechanical PBL4 Design Project	Advanced Materials Advanced Materials Characterization Advanced Materials Design Advanced Materials HÜ 2	Bachelor Thesis

24			Mechanical Design TT 3 Project I Fundamentals of Materials
25 26 27 Programming in O Programming in O	C VL 1	Mathematics II Linear Algebra II Linear Algebra II Linear Algebra II Linear Algebra II Analysis II VL	Science (part 1) Fundamentals of VL 2 Materials Science I Physical and Chemical VI 2
29 30 Physics for Engine Physics	neers VL 2	Analysis II HÜ Analysis II UE	1 Advanced Mechanical Engineering Design (part 1) Advanced Mechanical VL 2 Engineering Design I Advanced Mechanical HÜ 2
31 32			Engineering Design I

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

Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP