

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w21)

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation Mechanical Engineering, Focus Aircraft Systems Engineering														
1	Chemistry Chemistry I+II VL 4 Chemistry I+II HÜ 2		Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3 Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2 Current Networks and Basic Devices		Technical Thermodynamics II Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1		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 Advanced Internship AIW/ ES: SE 1 Preparation Advanced Intership AIW/ ES: Internship- SE 1 accompanying Seminar	
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7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3 Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2		Fundamentals 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		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 PR 2 Engineering Practical Course: Measurement and PR 2 Control Systems		Digital Product Development and Lightweight Design Digital Product Development VL 2 Development of Lightweight Design VL 2 Products CAE-Team Project PBL 2			
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11	Mathematics I Linear Algebra I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I GÜ 1 Analysis I HÜ 1		Technical Thermodynamics I Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1		Engineering Mechanics III (Dynamics) Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1		Computational Mechanics Computational Multibody Dynamics IV 2 Computational Mechanics GÜ 2 Computational Stuctural Mechanics IV 2		Advanced Mechanical Design Project Advanced Mechanical Design Project PBL 4		Aeronautical Systems Air Transportation Systems VL 2 Fundamentals of Aircraft Systems VL 2 Fundamentals of Aircraft Systems GÜ 1 Air Transportation Systems HÜ 1			
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19													Mechanics I (Statics) Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1	
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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		Mathematics II Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1		Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL 2 Introduction and Practical Training Mechanical Design Project I PBL 3		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 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			
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Non-technical Courses for Bachelors (from catalogue) - 6LP														

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

