

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

Legend:	Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
	Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

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

Specialisation: Mechanical Engineering, Focus: Materials in Engineering Sciences				Semester 4	Semester 5	Semester 6	Semester 7		
Week	Course	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk		
1	Chemistry			Electrical Engineering II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II	Signals and Systems	Introduction to Control Systems	Foundations of Management	Advanced Internship AIW/ ES
2	Chemistry I+II VL 4			Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3	Technical Thermodynamics II VL 2	Signals and Systems VL 3	Introduction to Control Systems VL 2	Introduction to Management VL 3	Advanced Internship AIW/ ES: SE 1
3	Chemistry I+II HÜ 2			Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2	Technical Thermodynamics II HÜ 1	Signals and Systems GÜ 2	Introduction to Control Systems GÜ 2	Management Tutorial GÜ 2	Preparation
4				Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2	Technical Thermodynamics II GÜ 1				Advanced Internship AIW/ ES: Internship-accompanying Seminar SE 1
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7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields			Fundamentals of Mechanical Engineering Design	Mathematics III	Fluid Dynamics	Measurement Technology for Mechanical Engineers	Advanced Materials for Sustainability	
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3			Fundamentals of Mechanical Engineering Design VL 2	Analysis III VL 2	Fluid Mechanics VL 3	Measurement Technology for Mechanical Engineers VL 2	Advanced Materials Characterization VL 2	
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2			Fundamentals of Mechanical Engineering Design HÜ 2	Analysis III GÜ 1	Fluid Mechanics HÜ 2	Measurement Technology for Mechanical Engineers HÜ 1	Advanced Materials for Sustainability VL 2	
10					Analysis III HÜ 1		Measurement Technology for Mechanical Engineers PR 2	Advanced Materials for Sustainability HÜ 2	
11					Differential Equations 1 VL 2				
12					Differential Equations 1 GÜ 1				
13					Differential Equations 1 HÜ 1				
14	Mathematics I			Technical Thermodynamics I		Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)	Numerical Mathematics I	Enhanced Fundamentals of Materials Science	
15	Linear Algebra I VL 2			Technical Thermodynamics I VL 2		Mechanics IV VL 3	Numerical Mathematics I VL 2	Materials for Energy Storage and Conversion VL 2	
16	Linear Algebra I GÜ 1			Technical Thermodynamics I HÜ 1		Mechanics IV GÜ 2	Numerical Mathematics I GÜ 2	Enhanced Fundamentals: Ceramics and Polymers VL 2	
17	Linear Algebra I HÜ 1			Technical Thermodynamics I GÜ 1		Mechanics IV HÜ 1		Enhanced Fundamentals: Ceramics and Polymers HÜ 1	
18	Analysis I VL 2				Mechanics III (Dynamics)				
19	Analysis I GÜ 1				Mechanics III VL 3				
20	Analysis I HÜ 1				Mechanics III GÜ 2				
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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.

