

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 B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation: Mechanical Engineering, Focus: Product Development and Production				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	Technical Thermodynamics II	2	Signals and Systems	VL	3	Introduction to Control Systems	VL	2	Introduction to Management	VL	3	Advanced Internship AIW/ ES: Preparation	SE	1	
3	Chemistry I+II	HÜ	2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL	Technical Thermodynamics II	HÜ	1	Signals and Systems	GÜ	2	Introduction to Control Systems	GÜ	2	Management Tutorial	GÜ	2	Advanced Internship AIW/ ES: Internship-accompanying Seminar	SE	1
4				Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ	2														
5																				
6																				
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields			Fundamentals of Mechanical Engineering Design		Mathematics III		Fluid Dynamics		Measurement Technology for Mechanical Engineers		Integrated Product Development and Lightweight Design								
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	Integrated Product Development I	VL	2					
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	HÜ	2	Fundamentals of Mechanical Engineering Design	HÜ	1	Analysis III	HÜ	1	Fluid Mechanics	HÜ	2	Development of Lightweight Design Products	VL	2					
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ	2	Fundamentals of Mechanical Engineering Design	HÜ	2	Differential Equations 1	VL	2	Measurement Technology for Mechanical Engineers	HÜ	1	CAE-Team Project	PBL	2					
11							Differential Equations 1	GÜ	1	Measurement Technology for Mechanical Engineers	HÜ	1								
12							Differential Equations 1	HÜ	1	Practical Course: Measurement and Control Systems	PR	2								
13	Mathematics I			Technical Thermodynamics I				Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)		Advanced Mechanical Design Project		Fundamentals of Production and Quality Management								
14	Linear Algebra I	VL	2	Technical Thermodynamics I	VL	2		Mechanics IV	VL	3	Advanced Mechanical Design Project	PBL	4	Production Process Organization	VL	2				
15	Linear Algebra I	GÜ	1	Technical Thermodynamics I	HÜ	1		Mechanics IV	GÜ	2			Quality Management	VL	2					
16	Linear Algebra I	HÜ	1	Technical Thermodynamics I	GÜ	1	Mechanics III (Dynamics)	Mechanics IV	HÜ	1										
17	Analysis I	VL	2				Mechanics III	VL	3											
18	Analysis I	GÜ	1				Mechanics III	GÜ	2											
19	Analysis I	HÜ	1				Mechanics III	HÜ	1											
20				Mechanics II: Mechanics of Materials						Production Engineering (part 1)		Production Engineering (part 2)		Bachelor Thesis						
21	Mechanics I (Statics)			Mechanics II	VL	2				Production Engineering I	VL	2	Production Engineering II	VL	2					
22	Mechanics I	GÜ	2	Mechanics II	GÜ	2				Production Engineering I	HÜ	1	Production Engineering II	HÜ	1					
23	Mechanics I	HÜ	1	Mechanics II	HÜ	2	Advanced Mechanical Engineering Design (part 1)													
24							Advanced Mechanical Engineering Design I	VL	2											
25							Advanced Mechanical Engineering Design I	HÜ	2	Production Technology										
26				Mathematics II			Advanced Mechanical Engineering Design I	HÜ	2	Forming and Cutting Technology	VL	2								
27	Programming in C			Linear Algebra II	VL	2				Forming and Cutting Technology	HÜ	1								
28	Programming in C	VL	1	Linear Algebra II	GÜ	1	Mechanical Engineering: Design (part 1)			Fundamentals of Machine Tools	VL	2								
29	Programming in C	PR	1	Linear Algebra II	HÜ	1	Embodiment Design and 3D-CAD	VL	2	Fundamentals of Machine Tools	HÜ	1								
30	Physics for Engineers (AIW)			Analysis II	VL	2	Mechanical Design Project I	PBL	3	Fundamentals of Materials Science (part 2)										
31	Physics for Engineers	VL	2	Analysis II	HÜ	1				Fundamentals of Materials Science II	VL	2								
32	Physics for Engineers	GÜ	1	Analysis II	GÜ	1	Fundamentals of Materials Science (part 1)													
33							Fundamentals of Materials Science I	VL	2											
							Physical and Chemical Basics of Materials Science	VL	2	Computer Engineering										
										Computer Engineering	VL	3								
										Computer Engineering	GÜ	1								

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.

