

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w17)

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			Mechanical Engineering: Design (part 2)		Foundations of Management	
2	Chemistry I VL 2			Team Project Design Methodology PBL 2		Introduction to Management VL 3	
3	Chemistry II VL 2			Mechanical Design Project II PBL 3		Management Tutorial HÜ 2	
4	Chemistry I HÜ 1						
5	Chemistry II HÜ 1			Fundamentals of Materials Science (part 2)			
6				Fundamentals of Materials Science II VL 2			
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields			Advanced Mechanical Engineering Design (part 2)		Introduction to Control Systems	
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3			Advanced Mechanical Engineering Design II VL 2		Introduction to Control Systems VL 2	
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2			Advanced Mechanical Engineering Design II HÜ 2		Introduction to Control Systems GÜ 2	
10							
11				Fluid Dynamics			
12				Fluid Mechanics VL 3			
13	Mathematics I			Fluid Mechanics HÜ 2		Enhanced Fundamentals of Materials Science	
14	Linear Algebra I VL 2					Enhanced Fundamentals: Metals VL 2	
15	Linear Algebra I GÜ 1					Enhanced Fundamentals: Ceramics and Polymers VL 2	
16	Linear Algebra I HÜ 1					Enhanced Fundamentals: Ceramics and Polymers HÜ 1	
17	Analysis I VL 2						
18	Analysis I GÜ 1						
19	Analysis I HÜ 1						
20				Mechanics II: Mechanics of Materials			
21	Mechanics I (Statics)			Mechanics II VL 2		Numerical Mathematics I	
22	Mechanics I VL 2			Mechanics II GÜ 2		Numerical Mathematics I VL 2	
23	Mechanics I GÜ 2			Mechanics II HÜ 2		Numerical Mathematics I GÜ 2	
24	Mechanics I HÜ 1						
25				Mechanical Engineering: Design (part 1)			
26				Embodiment Design and 3D-CAD VL 2		Structural Materials (part 1)	
27	Programming in C			Mechanical Design Project I PBL 3		Welding Technology VL 3	
28	Programming in C VL 1						
29	Programming in C PR 1			Fundamentals of Materials Science (part 1)			
30	Physics for Engineers (AIW)			Fundamentals of Materials Science I VL 2		Material Science Laboratory	
31	Physics for Engineers VL 2			Physical and Chemical Basics of Materials Science VL 2		Companion Lecture for Materials Science Laboratory VL 2	
32	Physics for Engineers GÜ 1					Material Science Laboratory PR 4	
33				Advanced Mechanical Engineering Design (part 1)			
				Advanced Mechanical Engineering Design I VL 2			
				Advanced Mechanical Engineering Design I HÜ 2			

Nontechnical Complementary 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.

