

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

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

Specialisation Mechanical Engineering, Focus Product Development and Production

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 3	Signals and Systems	VL 2	Introduction to Control Systems	VL 3	Introduction to Management	SE 1	
3	Chemistry I+II		HÜ 2		VL 3	Technical Thermodynamics II	GÜ 2	Signals and Systems	GÜ 2	Introduction to Control Systems	GÜ 2	Management Tutorial	GÜ 2	Preparation
4					GÜ 2		GÜ 1							Advanced Intership AIW/ ES: Internship-accompanying Seminar
5														SE 1
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	VL 2	Design	VL 2	Analysis III	VL 3	Fluid Mechanics	VL 2	Measurement Technology for Mechanical Engineering	VL 2	Integrated Product Development I	
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		GÜ 2	HÜ 2	Design	VL 2	Analysis III	HÜ 2	Fluid Mechanics	HÜ 1	Measurement Technology for Mechanical Engineering	VL 2	Development of Lightweight Design	
10						VL 2					Measurement Technology for Mechanical Engineering	HÜ 1	Products	
11						GÜ 1					Engineering		CAE-Team Project	
12						HÜ 1					Practical Course: Measurement and Control Systems	PR 2	PBL 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	VL 2						Advanced Mechanical Design Project	PBL 4			
15	Linear Algebra I		GÜ 1	HÜ 1								VL 2		
16	Linear Algebra I		HÜ 1	GÜ 1								VL 2		
17	Analysis I		VL 2											
18	Analysis I		GÜ 1											
19	Analysis I		HÜ 1											
20				Mechanics II: Mechanics of Materials			Advanced Mechanical Engineering Design (part 2)		Production Engineering (part 1)		Production Engineering (part 2)		Bachelor Thesis	
21	Mechanics I (Statics)			VL 2						Production Engineering I	VL 2	Production Engineering II		VL 2
22	Mechanics I		GÜ 2	HÜ 2						Production Engineering I	HÜ 1	Production Engineering II		HÜ 1
23	Mechanics I		HÜ 1											
24														
25														
26														
27	Programming in C													
28	Programming in C		VL 1											
29	Physics for Engineers (AIW)													
30	Physics for Engineers		VL 2											
31	Physics for Engineers		GÜ 1											
32														
33														
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.

