Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w22)

Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))
Specialisation Mechanical Engineering, Focus Product Development and Production

#	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs/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			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: Preparation	SE 1
3	Chemistry I+II	HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	HÜ 1	Signals and Systems	GÜ 2	Introduction to Control Systems	GÜ 2	Management Tutorial	GÜ 2	Advanced Intenship AIW/ ES: Internship-accompanying Seminar	SE 1
4			Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2	Technical Thermodynamics II	GÜ 1								
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	Analysis III	VL 2	Fluid Mechanics	VL 3	Measurement Technology for Mechanical Engineering	VL 1	Integrated Product Development I	VL 2		
9					Analysis III	GÜ 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	Analysis III	HÜ 1			Measurement Technology for Mechanical Engineering	HÜ 1	CAE-Team Project	PBL 2		
11					Differential Equations 1	VL 2			Practical Course: Measurement and Control Systems	PR 2				
12					Differential Equations 1	GÜ 1								
13	**Mathematics I**		**Technical Thermodynamics I**		Differential Equations 1	HÜ 1	**Computational Mechanics**		**Advanced Mechanical Design Project**		**Fundamentals of Production and Quality Management**			
14	Mathematics I	VL 4	Technical Thermodynamics I	VL 2			Computational Multibody Dynamics	IV 2	Advanced Mechanical Design Project	PBL 4				
15	Mathematics I	HÜ 2	Technical Thermodynamics I	HÜ 1			Computational Mechanics	GÜ 2			Production Process Organization	VL 2		
16	Mathematics I	GÜ 2	Technical Thermodynamics I	GÜ 1	**Engineering Mechanics III (Dynamics)**		Computational Stuctural Mechanics	IV 2			Quality Management	VL 2		
17					Engineering Mechanics III	VL 3								
18					Engineering Mechanics III	GÜ 2								
19			**Mathematics II**		Engineering Mechanics III	HÜ 2	**Advanced Mechanical Engineering Design (part 2)**		**Production Engineering (part 1)**		**Production Engineering (part 2)**		**Bachelor Thesis**	
20			Mathematics II	VL 4			Advanced Mechanical Engineering Design II	VL 2	Production Engineering I	VL 2	Production Engineering II	VL 2		
21	**Computer Science for Engineers - Introduction and Overview**		Mathematics II	HÜ 2	**Advanced Mechanical Engineering Design (part 1)**		Advanced Mechanical Engineering Design II	HÜ 2	Production Engineering I	HÜ 1	Production Engineering II	HÜ 1		
22	Computer Science for Engineers - Introduction and Overview	VL 3	Mathematics II	GÜ 2	Advanced Mechanical Engineering Design I	VL 2								
23	Computer Science for Engineers - Introduction and Overview	GÜ 2			Advanced Mechanical Engineering Design I	HÜ 2	**Mechanical Engineering: Design (part 2)**		**Production Technology**					
24							Team Project Design Methodology	PBL 2	Forming and Cutting Technology	VL 2				
25					**Mechanical Engineering: Design (part 1)**		Mechanical Design Project II	PBL 3	Forming and Cutting Technology	HÜ 1				
26					Embodiment Design and 3D-CAD Introduction and Practical Training	VL 2			Fundamentals of Machine Tools	VL 2				
27	**Engineering Mechanics I (Stereostatics)**		**Engineering Mechanics II (Elastostatics)**		**Fundamentals of Materials Science (part 1)**		**Fundamentals of Materials Science (part 2)**		Fundamentals of Machine Tools	HÜ 1				
28	Engineering Mechanics I	VL 2	Engineering Mechanics II	VL 2	Mechanical Design Project I	PBL 3	Fundamentals of Materials Science II	VL 2						
29	Engineering Mechanics I	GÜ 2	Engineering Mechanics II	GÜ 2	Fundamentals of Materials Science I	VL 2			**Material Science Laboratory**					
30	Engineering Mechanics I	HÜ 1	Engineering Mechanics II	HÜ 2	Physical and Chemical Basics of Materials Science	VL 2			Companion Lecture for Materials Science Laboratory	VL 2				
31									Material Science Laboratory	PR 4				
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.