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

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
Chemistry		**Electrical Engineering II: Alternating Current Networks and Basic Devices**		**Technical Thermodynamics II**		**Mechanical Engineering: Design (part 2)**		**Computer Engineering**		**Foundations of Management**		**Advanced Internship AIW/ GES**	
Chemistry I	VL 2			Technical Thermodynamics II	VL 2	Team Project Design Methodology	PBL 2	Computer Engineering	VL 3	Introduction to Management	VL 3		
Chemistry II	VL 2	Electrical Engineering II: Alternating	VL 3	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	PBL 3	Computer Engineering	GÜ 1	Management Tutorial	HÜ 2		
Chemistry I	HÜ 1	Current Networks and Basic Devices		Technical Thermodynamics II	GÜ 1								
Chemistry II	HÜ 1	Electrical Engineering II: Alternating	GÜ 2			**Fundamentals of Materials Science (part 2)**							
		Current Networks and Basic Devices				Fundamentals of Materials Science II	VL 2						
						Advanced Mechanical Engineering Design (part 2)							
Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		**Fundamentals of Mechanical Engineering Design**		**Mathematics III**		Advanced Mechanical Engineering Design II	VL 2	**Introduction to Control Systems**		**Integrated Product Development and Lightweight Design**			
Electrical Engineering I: Direct Current	VL 3	Fundamentals of Mechanical Engineering	VL 2	Analysis III	VL 2	Advanced Mechanical Engineering Design II	HÜ 2	Introduction to Control Systems	VL 2	Integrated Product Development I	VL 2		
Networks and Electromagnetic Fields		Design		Analysis III	GÜ 1			Introduction to Control Systems	GÜ 2	Development of Lightweight Design Products	VL 2		
Electrical Engineering I: Direct Current	GÜ 2	Fundamentals of Mechanical Engineering	HÜ 2	Analysis III	HÜ 1	**Production Engineering (part 2)**				CAE-Team Project	PBL 2		
Networks and Electromagnetic Fields		Design		Differential Equations 1	VL 2	Production Engineering II	VL 2						
				Differential Equations 1	GÜ 1	Production Engineering II	HÜ 1						
				Differential Equations 1	HÜ 1								
Mathematics I		**Technical Thermodynamics I**				**Fluid Dynamics**		**Measurement Technology for Mechanical and Process Engineers**		**Enhanced Fundamentals of Materials Science**			
Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2			Fluid Mechanics	VL 3	Measurement Technology for Mechanical	VL 2	Enhanced Fundamentals: Metals	VL 2		
Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1			Fluid Mechanics	HÜ 2	and Process Engineers		Enhanced Fundamentals: Ceramics and	VL 2		
Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1	**Mechanics III (Hydrostatics, Kinematics, Kinetics I)**				Measurement Technology for Mechanical	HÜ 1	Polymers			
Analysis I	VL 2			Mechanics III	VL 3			and Process Engineers		Enhanced Fundamentals: Ceramics and	HÜ 1		
Analysis I	GÜ 1			Mechanics III	GÜ 2			Practical Course: Measurement and	PR 2	Polymers			
Analysis I	HÜ 1			Mechanics III	HÜ 1			Control Systems					
		Mechanics II: Mechanics of Materials				**Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)**		**Advanced Mechanical Design Project**		**Fundamentals of Production and Quality Management**		**Bachelor Thesis**	
		Mechanics II	VL 2			Mechanics IV	VL 3	Advanced Mechanical Design Project	PBL 4				
Mechanics I (Statics)		Mechanics II	GÜ 2			Mechanics IV	GÜ 2			Production Process Organization	VL 2		
Mechanics I	VL 2	Mechanics II	HÜ 2	**Mechanical Engineering: Design (part 1)**		Mechanics IV	HÜ 1			Quality Management	VL 2		
Mechanics I	GÜ 2			Embodiment Design and 3D-CAD	VL 2								
Mechanics I	HÜ 1			Mechanical Design Project I	PBL 3								
				Fundamentals of Materials Science (part 1)									
		Mathematics II		Fundamentals of Materials Science I	VL 2			**Production Technology**					
		Linear Algebra II	VL 2	Physical and Chemical Basics of Materials	VL 2			Forming and Cutting Technology	VL 2				
Programming in C		Linear Algebra II	GÜ 1	Science				Forming and Cutting Technology	HÜ 1				
Programming in C	VL 1	Linear Algebra II	HÜ 1					Fundamentals of Machine Tools	VL 2				
Programming in C	PR 1	Analysis II	VL 2	**Advanced Mechanical Engineering Design (part 1)**				Fundamentals of Machine Tools	HÜ 1				
Physics for Engineers (AIW)		Analysis II	HÜ 1	Advanced Mechanical Engineering Design I	VL 2								
Physics for Engineers	VL 2	Analysis II	GÜ 1	Advanced Mechanical Engineering Design I	HÜ 2								
Physics for Engineers	GÜ 1												
				Production Engineering (part 1)									
				Production Engineering I	VL 2								
				Production Engineering I	HÜ 1								

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.