Course of Study General Engineering Science (German program) (Study Cohort w14)

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

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Compulsory

Specialisation Elective

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

LP	Semester 1 FormHrs/w	vk Semester 2 FormHrs/w	Semester 3 FormHrs/w	Semester 4 FormHrs/wl	Semester 5 FormHrs/wl	Semester 6 FormHrs/wk
1	Physics for Engineers (part 1)	Electrical Engineering II: Alternating Current	Technical Thermodynamics II	Mechanical Engineering: Design (part 2)	Introduction to Control Systems	Foundations of Management
2	Physics for Engineers VL 2	Networks and Basic Devices	Technical Thermodynamics II VL 2	Team Project Design Methodology POL 2	Introduction to Control Systems VL 2	Introduction to Management VL 4
3	Physics for Engineers UE 1	Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II HÜ 1	Mechanical Design Project II TT 3	Introduction to Control Systems UE 2	Project Entrepreneurship POL 2
_		Current Networks and Basic Devices Electrical Engineering II: Alternating UE 2	Technical Thermodynamics II UE 1			
4		Current Networks and Basic Devices		Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II VL 2		
5	Chemistry			rundamentals of Materials Science II VL 2		
6	Chemistry I VL 2 Chemistry II VL 2			Advanced Mechanical Engineering Design		
7	Chemistry I VL 2 Chemistry I HÜ 1	Fundamentals of Mechanical Engineering	Computer Engineering	(part 2)	Measurement Technology for Mechanical and	Integrated Product Development and
8	Chemistry II HÜ 1	Design	Computer Engineering VL 3	Advanced Mechanical Engineering VL 2 Design II	Process Engineers	Lightweight Design
		Fundamentals of Mechanical VL 2	Computer Engineering UE 1	Advanced Mechanical Engineering HÜ 2	Measurement Technology for VL 2	Integrated Product Development I VL 2
		Engineering Design Fundamentals of Mechanical HÜ 2		Design II	Mechanical and Process Engineers Measurement Technology for HÜ 1	Development of Lightweight Design VL 2 Products
9		Engineering Design		Signals and Systems	Mechanical and Process Engineers	CAE-Team Project POL 2
10				Signals and Systems VL 3	Practical Course: Measurement and PR 2	,
11	Electrical Engineering I: Direct Current			Signals and Systems HÜ 1	Control Systems	
	Networks and Electromagnetic Fields					
12	Electrical Engineering I: Direct Current VL 3					
13	Networks and Electromagnetic Fields	Technical Thermodynamics I	Mathematics III		Advanced Mechanical Design Project	Bachelor Thesis
14	Electrical Engineering I: Direct Current UE 2 Networks and Electromagnetic Fields	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	Analysis III VL 2 Analysis III UE 1		Advanced Mechanical Design Project TT 4	
15	Networks and Electromagnetic Freids	Technical Thermodynamics I UE 1	Analysis III HÜ 1	Fluid Dynamics		
16		•	Differential Equations 1 VL 2	Fluid Mechanics VL 3		
17	Mathematics I	_	Differential Equations 1 UE 1	Fluid Mechanics HÜ 1		
	Linear Algebra I VL 2		Differential Equations 1 HÜ 1			
18	Linear Algebra I UE 1					
19	Linear Algebra I HÜ 1	Mechanics II: Mechanics of Materials			Production Technology	
20	Analysis I VL 2	Mechanics II VL 2 Mechanics II UE 2			Forming and Cutting Technology VL 2 Forming and Cutting Technology HÜ 1	
21	Analysis I UE 1 Analysis I HÜ 1	Wiconamos II	Mechanics III (Hydrostatics, Kinematics,	Mechanics IV (Kinetics II, Oscillations,	Fundamentals of Machine Tools VL 3	
22	Analysis i		Kinetics I)	Analytical Mechanics, Multibody Systems)		
23			Mechanics III VL 3 Mechanics III UE 2	Mechanics IV VL 3 Mechanics IV UE 2		
24			Mechanics III HÜ 1	Mechanics IV HÜ 1		
25	Mechanics I (Statics)	Mathematics II	-		Material Science Laboratory	
_	Mechanics I VL 2	Linear Algebra II VL 2			Companion Lecture for Materials VL 2	
26	Mechanics I UE 2	Linear Algebra II UE 1			Science Laboratory	
27	Mechanics I HÜ 1	Linear Algebra II HÜ 1	Mechanical Engineering: Design (part 1)	Advanced Materials	Material Science Laboratory PR 4	
28		Analysis II VL 2	Embodiment Design and 3D-CAD VL 2	Advanced Materials Characterization VL 2		
29		Analysis II HÜ 1	Mechanical Design Project I TT 3	Advanced Materials Design VL 2 Advanced Materials Design HÜ 2		
30		Analysis II UE 1	Fundamentals of Materials Science (part 1)	7.0. a. root materials 2001gil 110 2		
_			Fundamentals of Materials Science I VL 2			
31			Physical and Chemical Basics of VL 2			
32			Materials Science			
33		Programming in C		l		

34	Programming in C Programming in C	VL PR		Advanced Mechanical Engineering Design (part 1)
35	Physics for Engineers (part 2)			Advanced Mechanical Engineering VL 2
36	Physics-Lab for ET/IIW-Engineers	PR	1	Design I Advanced Mechanical Engineering HÜ 2 Design I

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.