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

Sample course plan B Bachelor General Engineering Science (German program) (AIWBS) Specialisation Mechanical Engineering, Focus Materials in Engineering Sciences

Programming in C

33

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

Compulsory

Specialisation Elective

Compulsory

Compulsory

Focus Compulsory

Interdisciplinary complement

Compulsory

							Compulsory	Comp	bulsory			
LP	Semester 1 For	rmHrs/wl	Semester 2 FormHrs	s/wk Se	emester 3 Fo	ormHrs/wk	Semester 4 FormH	Hrs/wk	Semester 5 FormH	rs/wk	Semester 6	FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Current	Те	echnical Thermodynamics II		Mechanical Engineering: Design (part 2)		Introduction to Control Systems		Foundations of Management	
2	7	L 2	Networks and Basic Devices	_		/L 2	Team Project Design Methodology POL		Introduction to Control Systems VL		Introduction to Management	VL 4
3	Physics for Engineers UE	E 1	Electrical Engineering II: Alternating VL 3 Current Networks and Basic Devices		•	1Ü 1	Mechanical Design Project II TT	3	Introduction to Control Systems UE	2	Project Entrepreneurship	POL 2
4			Electrical Engineering II: Alternating UE 2		echnical Thermodynamics II L	JE 1	Fundamentals of Materials Science (part 2)					
			Current Networks and Basic Devices				Fundamentals of Materials Science (part 2)					
5	Chemistry Chemistry I VI	L 2					Tandaniana of materials colorise in T2	_				
6		L 2					Advanced Mechanical Engineering Design					
7	Chemistry I HÜ		Fundamentals of Mechanical Engineering	Co	omputer Engineering		(part 2) Advanced Mechanical Engineering VL	2	Measurement Technology for Mechanical a	nd	Structural Materials (part 2)	
8	Chemistry II HÜ	Ü 1	Design	_		/L 3	Design II	۷	Process Engineers	_	Fundamentals of Mechanical	VL 2
			Fundamentals of Mechanical VL 2 Engineering Design	2 Co	omputer Engineering L	JE 1	Advanced Mechanical Engineering HÜ	2	Measurement Technology for VL Mechanical and Process Engineers	2	Properties of Materials	
			Fundamentals of Mechanical HÜ 2	2			Design II		Measurement Technology for HÜ	1		
9			Engineering Design				Signals and Systems		Mechanical and Process Engineers			
10							Signals and Systems VL Signals and Systems HÜ		Practical Course: Measurement and PR	2	Enhanced Fundamentals of Materials	Science
11	Electrical Engineering I: Direct Current						Signals and Systems HÜ	1	Control Systems		Fundamentals of Metallic Materials	VL 2
12	Networks and Electromagnetic Fields										Fundamentals of Ceramic and Polymer Materials	VL 2
	Electrical Engineering I: Direct Current VI	L 3	Technical Thermodynamics I	24	athematics III				Numerical Mathematics I		Fundamentals of Ceramic and	HÜ 1
13	Networks and Electromagnetic Fields Electrical Engineering I: Direct Current UE	E 0	Technical Thermodynamics I VL 2	_ _		/L 2			Numerical Mathematics I VL	2	Polymer Materials	
14	Networks and Electromagnetic Fields	C 2	Technical Thermodynamics I HÜ 1		•	JE 1			Numerical Mathematics I UE			
15			Technical Thermodynamics I UE 1	l Ar	nalysis III F	HÜ 1	Fluid Dynamics	_				
16				Di		/L 2	Fluid Mechanics VL				Bachelor Thesis	
17	Mathematics I				· ·	JE 1	Fluid Mechanics HÜ	1				
18	Linear Algebra I VI	L 2		Di	ifferential Equations 1	HÜ 1						
19		E 1	Mechanics II: Mechanics of Materials						Structural Materials (part 1)			
	Linear Algebra I HÜ		Mechanics II: Mechanics of Materials VL 2	_					Welding Technology VL	3		
20	Analysis I VI Analysis I UE	L 2 E 1	Mechanics II UE 2						Troiding roomlology			
21		Ü 1			echanics III (Hydrostatics, Kinematics	\$,	Mechanics IV (Kinetics II, Oscillations,					
22					inetics I) echanics III	/L 3	Analytical Mechanics, Multibody Systems) Mechanics IV VL	_	Material Science Laboratory			
23						JE 2	Mechanics IV VL Mechanics IV UE		Companion Lecture for Materials VL	2		
24						HÜ 1	Mechanics IV HÜ		Science Laboratory Material Science Laboratory PR	1		
25	Mechanics I (Statics)		Mathematics II						waterial ocience Laboratory PR	-		
26		L 2	Linear Algebra II VL 2	2								
	Mechanics I UE	E 2	Linear Algebra II UE 1									
27	Mechanics I HÜ	Ü 1	Linear Algebra II HÜ 1	_	echanical Engineering: Design (part 1		Fundamentals of Production and Quality Management					
28			Analysis II VL 2	-	· · · · · · · · · · · · · · · · · · ·	/L 2 TT 3	Production Process Organization VL	2				
29			Analysis II HÜ 1 Analysis II UE 1		Contamour Design Floject i	3	Quality Management VL					
30			VE I		undamentals of Materials Science (par	rt 1)						
31				Fu	undamentals of Materials Science I V	/L 2						
	-			Ph	hysical and Chemical Basics of V	/L 2						
32				Ma	aterials Science							

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.