## Course of Study General Engineering Science (German program) (Study Cohort w15)

Sample course plan - Bachelor General Engineering Science (German program) (AIWBS) Specialisation Electrical Engineering

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

LP	Semester 1	FormHrs/wl	Semester 2	FormHrs/w	Semester 3	FormHrs/wl	Semester 4	FormHrs/w	Semester 5 Fo	ormHrs/wl	Semester 6	FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Current		Technical Thermodynamics II		Theoretical Electrical Engineering I: Time-		Introduction to Control Systems		Foundations of Management	
2	Physics for Engineers	VL 2	Networks and Basic Devices		Technical Thermodynamics II	VL 2	Independent Fields		Introduction to Control Systems	/L 2	Introduction to Management	VL 4
3	Physics for Engineers	UE 1	Electrical Engineering II: Alternating		Technical Thermodynamics II	HÜ 1	Theoretical Electrical Engineering I:	VL 3	Introduction to Control Systems	JE 2	Project Entrepreneurship	POL 2
			Current Networks and Basic Devices Electrical Engineering II: Alternating		Technical Thermodynamics II	UE 1	Time-Independent Fields Theoretical Electrical Engineering I:	LIE 2				
4			Current Networks and Basic Devices				Time-Independent Fields	0E 2				
5	Chemistry											
6	Chemistry I	VL 2										
7	Chemistry II Chemistry I	VL 2 HÜ 1	Fundamentals of Mechanical Engine	eering	Computer Engineering		Signals and Systems		Theoretical Electrical Engineering II: Ti	me-	Semiconductor Circuit Design	
8	Chemistry II	HÜ 1	Design		Computer Engineering	VL 3	Signals and Systems	VL 3	Dependent Fields		Semiconductor Circuit Design	VL 3
9			Fundamentals of Mechanical	VL 2	Computer Engineering	UE 1	Signals and Systems	HÜ 1	Theoretical Electrical Engineering II:	/L 3	Semiconductor Circuit Design	UE 1
-			Engineering Design Fundamentals of Mechanical	HÜ 2					Time-Dependent Fields Theoretical Electrical Engineering II: U	IE o		
10			Engineering Design	HU Z					Time-Dependent Fields	JE 2		
11	Electrical Engineering I: Direct Curre											
12	Networks and Electromagnetic Fields											
13	<ul> <li>Electrical Engineering I: Direct Current</li> <li>Networks and Electromagnetic Fields</li> </ul>	t VL 3	Technical Thermodynamics I		Mathematics III		Electrical Engineering IV: Transmiss	sion Lines	Introduction to Communications and Ra	ndom	Bachelor Thesis	
14	Electrical Engineering I: Direct Current	t UE 2	Technical Thermodynamics I	VL 2	Analysis III	VL 2	and Research Seminar		Processes			
	Networks and Electromagnetic Fields		Technical Thermodynamics I	HÜ 1	Analysis III	UE 1	Transmission Line Theory	VL 2	Introduction to Communications and	/L 3		
15			Technical Thermodynamics I	UE 1	Analysis III	HÜ 1	Research Seminar Electrical	SE 2	Random Processes			
16					Differential Equations 1	VL 2	Engineering, Computer Science, Mathematics		Introduction to Communications and F Random Processes	IU 1		
17	Mathematics I				Differential Equations 1  Differential Equations 1	UE 1 HÜ 1	Transmission Line Theory	HÜ 2				
18	Linear Algebra I	VL 2			Differential Equations 1	110 1						
19	Linear Algebra I	UE 1	Mechanics II: Mechanics of Materia	ls			Electrical Engineering Project Labor	ratorv	Electronic Devices			
20	Linear Algebra I Analysis I	HÜ 1 VL 2	Mechanics II	VL 2			Electrical Engineering Project	PR 5	Electronic Devices	/L 3		
	Analysis I	UE 1	Mechanics II	UE 2			Laboratory		Electronic Devices P	OL 2		
21	Analysis I	HÜ 1	Mechanics II	HÜ 2	Mechanics III (Hydrostatics, Kinem Kinetics I)	natics,						
22					Mechanics III	VL 3						
23					Mechanics III	UE 2						
24					Mechanics III	HÜ 1						
25	Mechanics I (Statics)		Mathematics II				Materials in Electrical Engineering		Measurements: Methods and Data Prod	essina		
26	Mechanics I	VL 2	Linear Algebra II	VL 2			Materials in Electrical Engineering	VL 2	Measurements: Methods and Data	/L 2		
	Mechanics I	UE 2	Linear Algebra II	UE 1			Materials in Electrical Engineering	UE 2	Processing			
27	Mechanics I	HÜ 1	Linear Algebra II	HÜ 1	Electrical Engineering III: Circuit T Transients	neory and	Electrotechnical Experiments	VL 1		JE 1		
28			Analysis II	VL 2	Circuit Theory	VL 3			Processing EE Experimental Lab	PR 2		
29			Analysis II Analysis II	HÜ 1 UE 1	Circuit Theory	UE 2			EL Experimental Lab	11 2		
30			7 mary 515 H	OL I								
31							Mathematics IV					
32	-						Complex Functions	VL 2				
							Complex Functions	UE 1				
33			Programming in C				Complex Functions	HÜ 1				
34			Programming in C	VL 1			Differential Equations 2	VL 2				
1	I .		December in C	DD 4			Differential Ferrations 0	HE 4				

Physics for Engineers (part 2)  Physics-Lab for ET/AIW/GES PR 1	Programm	gramming in C	Differential Equatio
Physical object I/AIW/CES DD 1	Physics	sics for Engineers (part 2)	Differential Equation

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.