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

Sample course plan - Bachelor General Engineering Science (German program) (AIWBS) Specialisation Energy and Environmental Engineering Legend:

Core qualification Compulsory Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

	ialisation Energy and E			,	man program) (Awb	- /	Core qualification Compulse Core qualification Elective	Spe	cialisation Elective	Focus Compulsory	ipulsory Interdisciplinary cor	mplement
LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wł	Semester 3	FormHrs/wł	Compulsory Semester 4		Semester 5	FormHrs/wk	Semester 6	FormHrs/w
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating		Technical Thermodynamics II		Foundations of Management		Introduction to Control System		Thermal Separation Processes (p	
	Physics for Engineers	VL 2	Networks and Basic Devices	Current	Technical Thermodynamics II	VL 2	Introduction to Management	VL 4	Introduction to Control System		Separation Processes	PR 1
<u>,</u>	Physics for Engineers	UE 1	Electrical Engineering II: Alternating	VL 3	Technical Thermodynamics II	HÜ 1	Project Entrepreneurship	POL 2	Introduction to Control System		Environmental Assessment and	
2			Current Networks and Basic Devices		Technical Thermodynamics II	UE 1					Environmental Assessment and Environmental Technology (part 2	2)
3			Electrical Engineering II: Alternating	UE 2							Environmental Assessment	VL 2
1			Current Networks and Basic Devices								Environmental Assessment	UE 1
5	Chemistry										Practical Exercise Environmental	
	Chemistry I	VL 2									Technology	
6	Chemistry II	VL 2									Fundamentals of Materials Science	ce (part 2)
7	Chemistry I	HÜ 1	Fundamentals of Mechanical Enginee	aring	Computer Engineering		Mechanical Engineering: Design (pa	rt 2)	Heat and Mass Transfer		Fundamentals of Materials Science	cell VL 2
	Chemistry II	HÜ 1	Design	, ing	Computer Engineering	VL 3	Team Project Design Methodology	POL 2	Heat and Mass Transfer	VL 2		
8			Fundamentals of Mechanical	VL 2	Computer Engineering	UE 1	Mechanical Design Project II	TT 3	Heat and Mass Transfer	UE 1	Particle Technology and Solids P Engineering	rocess
9			Engineering Design								Particle Technology I	VL 2
10			Fundamentals of Mechanical	HÜ 2			Fundamentals of Fluid Mechanics				Particle Technology I	UE 1
11	Electrical Engineering I: Direct Curr	ent	Engineering Design				Fundamentals of Fluid Mechanics	VL 2			Particle Technology I	PR 2
	Networks and Electromagnetic Field						Exercises in Fluid Mechanics for	HÜ 1				
12	Electrical Engineering I: Direct Curren						Process Engineering					
3	Networks and Electromagnetic Fields		Technical Thermodynamics I		Mathematics III				Thermal Separation Process	es (part 1)		
4	Electrical Engineering I: Direct Curren	nt UE 2	Technical Thermodynamics I	VL 2	Analysis III	VL 2			Thermal Separation Processe	s VL 3	Bachelor Thesis	
	Networks and Electromagnetic Fields	5	Technical Thermodynamics I	HÜ 1	Analysis III	UE 1			Thermal Separation Processe	s UE 2		
5			Technical Thermodynamics I	UE 1	Analysis III	HÜ 1			Thermal Separation Processe	s HÜ 1		
16					Differential Equations 1	VL 2	Electrical Machines					
17	Mathematics I				Differential Equations 1	UE 1	Electrical Machines	VL 3				
18	Linear Algebra I	VL 2			Differential Equations 1	HÜ 1	Electrical Machines	HÜ 2	Gas and Steam Power Plants			
	Linear Algebra I	UE 1							Gas and Steam Power Plants	VL 3		
19	Linear Algebra I	HÜ 1	Mechanics II: Mechanics of Materials						Gas and Steam Power Plants	HÜ 2		
20	Analysis I	VL 2	Mechanics II	VL 2						110 2		
21	Analysis I	UE 1	Mechanics II	UE 2	Mechanics III (Hydrostatics, Kine	matics.						
	Analysis I	HÜ 1	Mechanics II	HÜ 2	Kinetics I)	,						
22	_				Mechanics III	VL 3	Renewables and Energy Systems Renewable Energy	VL 2				
23					Mechanics III	UE 2	Energy Systems and Energy Industry					
24					Mechanics III	HÜ 1	Power Industry	VL 1	Environmental Assessment a	nd		
25	Mechanics I (Statics)		Mathematics II				Renewable Energy	UE 1	Environmental Technology (p	art 1)		
	Mechanics I	VL 2	Linear Algebra II	VL 2					Environmental Technologie	VL 2		
26	Mechanics I	UE 2	Linear Algebra II	UE 1					Fundamentals of Materials So	cience (part 1)		
27	Mechanics I	HÜ 1	Linear Algebra II	HÜ 1	Mechanical Engineering: Design	(part 1)			Fundamentals of Materials Sc	ience I VL 2		
			Analysis II	VL 2	Embodiment Design and 3D-CAD	VL 2			Physical and Chemical Basic	s of VL 2		
28			Analysis II	HÜ 1	Mechanical Design Project I	Π 3			Materials Science			
29			Analysis II	UE 1								
30					Introduction into Energy and Envi	ronmental			Measurement Technology for	Mechanical and		
31					Engineering				Process Engineers			
ונ					Introduction to Energy and	POL 4			Measurement Technology for	VL 2		
00					Environmental Engineering				Mechanical and Process Eng	noore		
32					Dhusies Leb fer VT/ DVT/ EUT				Mechanical and Process Engl			

				PRYSICS-LAD TOR V I/ BV I/ EUI	PH 2	measurement rechnology for	HU I
33		Programming in C				Mechanical and Process Engineers	
34		Programming in C	VL 1			Ŭ.	
		о о				Practical Course: Measurement and	PR 2
		Programming in C	PR 1			Control Systems	
						Sondor Oyotomo	
35		Physics for Engineers (part 2)					
		Physics-Lab for ET/ AIW/ GES	PR 1				
36		Thysics Labion En Anna GEO					
	Nontechnical Complementary Courses						

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.