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

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

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

LP	Semester 1	FormHrs/wk	Semester 2 FormHrs/wl	Semester 3 FormHr	rs/wk	Semester 4 FormHrs/wh	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Current	Technical Thermodynamics II		Foundations of Management	Introduction to Control Systems		Stochastics and Ship Dynamics (part 2)	
2	Physics for Engineers	VL 2	Networks and Basic Devices	Technical Thermodynamics II VL 2		Introduction to Management VL 4	Introduction to Control Systems	VL 2	Ship Dynamics	VL 2
3	Physics for Engineers	UE 1	Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II HÜ		Project Entrepreneurship POL 2	Introduction to Control Systems	UE 2	Ship Dynamics	UE 1
_			Current Networks and Basic Devices  Electrical Engineering II: Alternating UE 2	Technical Thermodynamics II UE	1					
4			Current Networks and Basic Devices							
5	Chemistry								Structural Design and Constructio	n of Ships
6	Chemistry II	VL 2 VL 2							(part 2) Ship Structural Design	VL 2
7	Chemistry I	VL 2 HÜ 1	Fundamentals of Mechanical Engineering	Computer Engineering		Fundamentals of Materials Science (part 2)	Stochastics and Ship Dynamics (pa	rt 1)	Ship Structural Design	UE 2
8	Chemistry II	HÜ 1	Design	Computer Engineering VL 3	3	Fundamentals of Materials Science II VL 2	Statistics and Stochastic Processes	VL 2		
9			Fundamentals of Mechanical VL 2	Computer Engineering UE	1	Mathematics IV	in Naval Architecure and Ocean			
-			Engineering Design Fundamentals of Mechanical HÜ 2			Complex Functions VL 2	Engineering			
10			Engineering Design			Complex Functions UE 1	Computational Fluid Dynamics I			
11	Electrical Engineering I: Direct Current					Complex Functions HÜ 1		VL 2 HÜ 2	Hydrostatics and Body Plan (part 2)	
12	Networks and Electromagnetic Fields					Differential Equations 2 VL 2	Computational Fluid Dynamics I	110 2	Hydrostatics	VL 2
13	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	t VL 3	Technical Thermodynamics I	Mathematics III		Differential Equations 2 UE 1			Hydrostatics	HÜ 2
14	Electrical Engineering I: Direct Curren	t UE 2	Technical Thermodynamics I VL 2	Analysis III VL 2	2	Differential Equations 2 HÜ 1				
	Networks and Electromagnetic Fields		Technical Thermodynamics I HÜ 1	Analysis III UE	1					
15			Technical Thermodynamics I UE 1	Analysis III HÜ		Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)			Ship Design	
16				Differential Equations 1 VL 2		Mechanics IV VL 3	Fundamentals of Ship Structural De	sign and	Ship Design Ship Design	VL 2 HÜ 2
17	Mathematics I			Differential Equations 1 UE  Differential Equations 1 HÜ		Mechanics IV UE 2	Analysis		Ship besign	110 2
18	Linear Algebra I	VL 2		Differential Equations 1	١.	Mechanics IV HÜ 1	Fundamentals of Ship Structural Analysis	VL 2		
19	Linear Algebra I	UE 1	Mechanics II: Mechanics of Materials				Fundamentals of Ship Structural	VL 2		
	Linear Algebra I	HÜ 1	Mechanics II VL 2				Design			
20	Analysis I Analysis I	VL 2 UE 1	Mechanics II UE 2				Fundamentals of Ship Structural	UE 1		
21	Analysis I	HÜ 1		Mechanics III (Hydrostatics, Kinematics,		Fluid Mechanics for Naval Architects	Design	UE 1	Bachelor Thesis	
22	•			Kinetics I)  Mechanics III VL 3	_	Fluid Mechanics for Naval Architects VL 3	Fundamentals of Ship Structural Analysis	UE I		
23				Mechanics III UE 2		Fluid Mechanics for Naval Architects HÜ 2	,			
24				Mechanics III HÜ			Structural Design and Construction	of Shins		
-							(part 1)	o. opo		
25	Mechanics I (Statics)  Mechanics I	VL 2	Mathematics II Linear Algebra II VL 2				Welding Technology	VL 3		
26	Mechanics I	UE 2	Linear Algebra II UE 1							
27	Mechanics I	HÜ 1	Linear Algebra II HÜ 1	Fundamentals of Materials Science (part 1)			Resistance and Propulsion			
28			Analysis II VL 2	Fundamentals of Materials Science I VL 2			Resistance and Propulsion	VL 2		
29			Analysis II HÜ 1	Physical and Chemical Basics of VL 2	2		Resistance and Propulsion	HÜ 2		
			Analysis II UE 1	Materials Science						
30										
31										
32										
33			Programming in C				Hydrostatics and Body Plan (part 1)			
34			Programming in C VL 1				Body Plan	PS 2		
34			Branching in C					. 0 _		

	Programming in C	PH	1
35	Physics for Engineers (part 2)		
36	Physics-Lab for ET/IIW-Engineers	PR	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.