Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w17)

Sample course plan - Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))
Specialisation Naval Architecture

Legend:

Core qualification Compulsory	Specialisation Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory
Focus Compulsory	Thesis Compulsory
Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk	Semester 5	Form	Hrs/wk	Semester 6	Form	Hrs/wk	Semester 7	Form	Hrs/wk
1	**Chemistry (GES)**			**Technical Thermodynamics I**			**Technical Thermodynamics II**			**Foundations of Management**			**Stochastics and Ship Dynamics (part 1)**			**Stochastics and Ship Dynamics (part 2)**			**Advanced Internship AIW/ GES**		
2	Chemistry I	VL	2													Ship Dynamics	VL	2			
3	Chemistry II	VL	2	Technical Thermodynamics I	VL	2	Technical Thermodynamics II	VL	2	Introduction to Management	VL	3	Statistics and Stochastic Processes in Naval Architecure and Ocean Engineering	VL	2	Ship Dynamics	UE	1			
	Chemistry I	HÜ	1	Technical Thermodynamics I	HÜ	1	Technical Thermodynamics II	HÜ	1	Management Tutorial	HÜ	2									
	Chemistry II	HÜ	1	Technical Thermodynamics I	UE	1	Technical Thermodynamics II	UE	1												
4																					
5																**Structural Design and Construction of Ships (part 2)**					
6													**Computational Fluid Dynamics I**								
7	**Linear Algebra**			**Mathematical Analysis**			**Mathematics III**			**Fluid Dynamics**			Computational Fluid Dynamics I	VL	2	Ship Structural Design	VL	2			
8	Linear Algebra	VL	4	Mathematical Analysis	VL	4	Analysis III	VL	2	Fluid Mechanics	VL	3	Computational Fluid Dynamics I	HÜ	2	Ship Structural Design	UE	2			
9	Linear Algebra	HÜ	2	Mathematical Analysis	HÜ	2	Analysis III	UE	1	Fluid Mechanics	HÜ	2									
10	Linear Algebra	UE	2	Mathematical Analysis	UE	2	Analysis III	HÜ	1				**Fundamentals of Ship Structural Design and Analysis**								
11							Differential Equations 1	VL	2							**Fundamentals of Materials Science (part 2)**					
12							Differential Equations 1	UE	1				Fundamentals of Ship Structural Analysis	VL	2	Fundamentals of Materials Science II	VL	2			
13							Differential Equations 1	HÜ	1				Fundamentals of Ship Structural Design	VL	2						
14										**Mathematics IV**			Fundamentals of Ship Structural Design	UE	1	**Hydrostatics and Body Plan (part 2)**					
15										Complex Functions	VL	2	Fundamentals of Ship Structural Analysis	UE	1						
16	**Electrical Engineering I**			**Electrical Engineering II**			**Mechanics III (GES)**			Complex Functions	UE	1				Hydrostatics	VL	2			
	Electrical Engineering I	VL	3	Electrical Engineering II	VL	3	Mechanics III	HÜ	1	Complex Functions	HÜ	1				Hydrostatics	HÜ	2			
17							Mechanics III	UE	2	Differential Equations 2	VL	2	**Structural Design and Construction of Ships (part 1)**								
18	Electrical Engineering I	UE	2	Electrical Engineering II	UE	2	Mechanics III	VL	3	Differential Equations 2	UE	1				**Ship Design**					
										Differential Equations 2	HÜ	1	Welding Technology	VL	3	Ship Design	VL	2			
19										**Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)**						Ship Design	HÜ	2	**Bachelor Thesis**		
20																					
21	**Mechanics I (GES)**			**Mechanics II (GES)**			**Computer Engineering**						**Fundamentals of Materials Science (part 1)**								
22										Mechanics IV	VL	3									
23	Mechanics I	VL	2	Mechanics II	VL	2	Computer Engineering	VL	3	Mechanics IV	UE	2	Fundamentals of Materials Science I	VL	2						
24	Mechanics I	HÜ	3	Mechanics II	HÜ	2	Computer Engineering	UE	1	Mechanics IV	HÜ	1	Physical and Chemical Basics of Materials Science	VL	2						
25													**Resistance and**								

					Propulsion	
26						
27	**Programming in C**	**Fundamentals of Mechanical Engineering (GES)**	**Introduction to Control Systems**		Resistance and Propulsion	VL 2
28	Programming in C VL 1				Resistance and Propulsion	HÜ 2
	Programming in C PR 1	Fundamentals of Mechanical Engineering VL 2	Introduction to Control Systems VL 2			
29	**Physics for Engineers (GES)**		Introduction to Control Systems UE 2			
30		Fundamentals of Mechanical Engineering UE 2			**Hydrostatics and Body Plan (part 1)**	
31	Physics for Engineers VL 2				Body Plan PS 2	
32	Physics for Engineers UE 1					
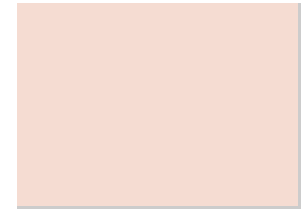
Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP

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