Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w18)

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

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective 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	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	VL	2			
3	Chemistry II	VL	2	Technical Thermodynamics I	HÜ	1	Technical Thermodynamics II	HÜ	1	Management Tutorial	HÜ	2				Ship Dynamics	UE	1			
	Chemistry I	HÜ	1	Technical Thermodynamics I	UE	1	Technical Thermodynamics II	UE	1												
4	Chemistry II	HÜ	1										**Computational Fluid Dynamics I**			**Structural Design and Construction of Ships (part 2)**					
5													Computational Fluid Dynamics I	VL	2	Ship Structural Design	VL	2			
6													Computational Fluid Dynamics I	HÜ	2	Ship Structural Design	UE	2			
7	**Linear Algebra**			**Mathematical Analysis**			**Mathematics III**			**Fluid Dynamics**			**Fundamentals of Ship Structural Design and Analysis**			**Fundamentals of Materials Science (part 2)**					
8	Linear Algebra	VL	4	Mathematical Analysis	VL	4	Analysis III	VL	2	Fluid Mechanics	VL	3	Fundamentals of Ship Structural Analysis	VL	2	Fundamentals of Materials Science II	VL	2			
9	Linear Algebra	HÜ	2	Mathematical Analysis	HÜ	2	Analysis III	UE	1	Fluid Mechanics	HÜ	2	Fundamentals of Ship Structural Design	VL	2	**Hydrostatics and Body Plan (part 2)**					
10	Linear Algebra	UE	2	Mathematical Analysis	UE	2	Analysis III	HÜ	1				Fundamentals of Ship Structural Design	UE	1	Hydrostatics	VL	2			
11							Differential Equations 1	VL	2				Fundamentals of Ship Structural Analysis	UE	1	Hydrostatics	HÜ	2			
12							Differential Equations 1	UE	1							**Ship Design**					
13							Differential Equations 1	HÜ	1	**Mathematics IV**			**Structural Design and Construction of Ships (part 1)**			Ship Design	VL	2			
14										Complex Functions	VL	2	Welding Technology	VL	3	Ship Design	HÜ	2			
15	**Electrical Engineering I**			**Electrical Engineering II**			**Mechanics III (GES)**			Complex Functions	UE	1									
16	Electrical Engineering I	VL	3	Electrical Engineering II	VL	3	Mechanics III	HÜ	1	Complex Functions	HÜ	1									
17							Mechanics III	UE	2	Differential Equations 2	VL	2									
18	Electrical Engineering I	UE	2	Electrical Engineering II	UE	2	Mechanics III	VL	3	Differential Equations 2	UE	1									
19										Differential Equations 2	HÜ	1							**Bachelor Thesis**		
20										**Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)**											
21	**Mechanics I (GES)**			**Mechanics II (GES)**			**Computer Engineering**			Mechanics IV	VL	3	**Fundamentals of Materials Science (part 1)**								
22	Mechanics I	VL	2	Mechanics II	VL	2	Computer Engineering	VL	3	Mechanics IV	UE	2	Fundamentals of Materials Science I	VL	2						
23	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						
24																					
25													**Resistance and**								

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

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.