Course of Study Naval Architecture (Study Cohort w20)

Legend:

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

Sample course plan - Bachelor Naval Architecture (SBBS)

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
1	**Basics of Electrical Engineering**			**Fundamentals of Materials Science (part 2)**			**Advanced Mechanical Engineering Design (part 1)**			**Advanced Mechanical Engineering Design (part 2)**			**Stochastics and Ship Dynamics (part 1)**			**Stochastics and Ship Dynamics (part 2)**		
2	Basics of Electrical Engineering	VL	3	Fundamentals of Materials Science II	VL	2	Advanced Mechanical Engineering Design I	VL	2	Advanced Mechanical Engineering Design II	VL	2	Statistics and Stochastic Processes in Naval Architecure and Ocean Engineering	VL	2	Ship Dynamics	VL	2
3	Basics of Electrical Engineering	GÜ	2	**Fundamentals of Mechanical Engineering Design**			Advanced Mechanical Engineering Design I	HÜ	2	Advanced Mechanical Engineering Design II	HÜ	2				Ship Dynamics	GÜ	1
4				Fundamentals of Mechanical Engineering Design	VL	2	**Mechanical Engineering: Design (part 1)**			**Mechanical Engineering: Design (part 2)**			**Computational Fluid Dynamics I**					
5				Fundamentals of Mechanical Engineering Design	HÜ	2	Embodiment Design and 3D-CAD	VL	2	Team Project Design Methodology	PBL	2	Computational Fluid Dynamics I	VL	2	**Structural Design and Construction of Ships (part 2)**		
6							Mechanical Design Project I	PBL	3	Mechanical Design Project II	PBL	3	Computational Fluid Dynamics I	HÜ	2	Ship Structural Design	VL	2
7	**Computer Science for Mechanical Engineers**						**Foundations of Management**			**Hydrostatics and Body Plan (part 2)**						Ship Structural Design	GÜ	2
8	Computer Science for Mechanical Engineers	VL	3				Introduction to Management	VL	3	Hydrostatics	VL	2						
9	Computer Science for Mechanical Engineers	GÜ	2				Management Tutorial	GÜ	2	Hydrostatics	HÜ	2						
10				**Technical Thermodynamics I**									**Fundamentals of Ship Structural Design and Analysis**					
11				Technical Thermodynamics I	VL	2				**Fluid Dynamics**			Fundamentals of Ship Structural Analysis	VL	2	**Ship Design**		
12				Technical Thermodynamics I	HÜ	1				Fluid Mechanics	VL	3	Fundamentals of Ship Structural Design	VL	2	Ship Design	VL	2
13	**Mathematics I**			Technical Thermodynamics I	GÜ	1	**Mathematics III**			Fluid Mechanics	HÜ	2	Fundamentals of Ship Structural Design	GÜ	1	Ship Design	HÜ	2
14	Linear Algebra I	VL	2				Analysis III	VL	2				Fundamentals of Ship Structural Analysis	GÜ	1			
15	Linear Algebra I	GÜ	1	**Mechanics II: Mechanics of Materials**			Analysis III	GÜ	1									
16	Linear Algebra I	HÜ	1	Mechanics II	VL	2	Analysis III	HÜ	1	**Mathematics IV**						**Bachelor Thesis**		
17	Analysis I	VL	2	Mechanics II	GÜ	2	Differential Equations 1	VL	2	Complex Functions	VL	2						
18	Analysis I	GÜ	1	Mechanics II	HÜ	2	Differential Equations 1	GÜ	1	Complex Functions	GÜ	1	**Structural Design and Construction of Ships (part 1)**					
19	Analysis I	HÜ	1				Differential Equations 1	HÜ	1	Complex Functions	HÜ	1	Welding Technology	VL	3			
20										Differential Equations 2	VL	2						
21	**Mechanics I (Statics)**			**Mathematics II**			**Mechanics III (Dynamics)**			Differential Equations 2	GÜ	1	**Marine Propulsion**					
22	Mechanics I	VL	2	Linear Algebra II	VL	2	Mechanics III	VL	3	Differential Equations 2	HÜ	1	Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines	VL	1			
23	Mechanics I	GÜ	2	Linear Algebra II	GÜ	1	Mechanics III	GÜ	2	**Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)**			Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines	HÜ	1			
24	Mechanics I	HÜ	1	Linear Algebra II	HÜ	1	Mechanics III	HÜ	1	Mechanics IV	VL	3	Fundamentals of Marine Engineering	VL	2			
25				Analysis II	VL	2				Mechanics IV	GÜ	2	Fundamentals of Marine Engineering	HÜ	1			
26				Analysis II	HÜ	1				Mechanics IV	HÜ	1						
27	**Fundamentals of Materials Science (part 1)**			Analysis II	GÜ	1	**Hydrostatics and Body Plan (part 1)**						**Resistance and Propulsion**					
28	Fundamentals of Materials Science I	VL	2				Body Plan	PS	2				Resistance and Propulsion	VL	2			
29	Physical and Chemical Basics of Materials Science	VL	2										Resistance and Propulsion	HÜ	2			
30																		
31																		
32																		

Non-technical 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.