Course of Study Naval Architecture (Study Cohort w17)

Sample course plan - Bachelor Naval Architecture (SBBS)

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
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	UE	2	**Fundamentals of Mechanical Engineering Design**			Advanced Mechanical Engineering Design I	HÜ	2	Advanced Mechanical Engineering Design II	HÜ	2				Ship Dynamics	UE	1
4				Fundamentals of Mechanical Engineering Design	VL	2	**Mechanical Engineering: Design (part 1)**			**Mechanical Engineering: Design (part 2)**			**Computational Fluid Dynamics I**			**Structural Design and Construction of Ships (part 2)**		
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	Ship Structural Design	VL	2
6							Mechanical Design Project I	PBL	3	Mechanical Design Project II	PBL	3	Computational Fluid Dynamics I	HÜ	2	Ship Structural Design	UE	2
7	**Computer Science for Mechanical Engineers**						**Foundations of Management**			**Hydrostatics and Body Plan (part 2)**								
8	Computer Science for Mechanical Engineers	VL	2	**Technical Thermodynamics I**			Introduction to Management	VL	3	Hydrostatics	VL	2	**Fundamentals of Ship Structural Design and Analysis**			**Ship Design**		
9	Computer Science for Mechanical Engineers	UE	2	Technical Thermodynamics I	VL	2	Management Tutorial	HÜ	2	Hydrostatics	HÜ	2	Fundamentals of Ship Structural Analysis	VL	2	Ship Design	VL	2
10	Computer Science for Mechanical Engineers	HÜ	1	Technical Thermodynamics I	HÜ	1				**Fluid Dynamics**			Fundamentals of Ship Structural Design	VL	2	Ship Design	HÜ	2
11				Technical Thermodynamics I	UE	1				Fluid Mechanics	VL	3	Fundamentals of Ship Structural Design	UE	1			
12										Fluid Mechanics	HÜ	2	Fundamentals of Ship Structural Analysis	UE	1			
13	**Mathematics I**			**Mechanics II: Mechanics of Materials**			**Mathematics III**									**Bachelor Thesis**		
14	Linear Algebra I	VL	2	Mechanics II	VL	2	Analysis III	VL	2	**Mathematics IV**			**Structural Design and Construction of Ships (part 1)**					
15	Linear Algebra I	UE	1	Mechanics II	UE	2	Analysis III	UE	1	Complex Functions	VL	2	Welding Technology	VL	3			
16	Linear Algebra I	HÜ	1	Mechanics II	HÜ	2	Analysis III	HÜ	1	Complex Functions	UE	1						
17	Analysis I	VL	2				Differential Equations 1	VL	2	Complex Functions	HÜ	1	**Marine Propulsion**					
18	Analysis I	UE	1				Differential Equations 1	UE	1	Differential Equations 2	VL	2	Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines	VL	1			
19	Analysis I	HÜ	1				Differential Equations 1	HÜ	1	Differential Equations 2	UE	1						
20										Differential Equations 2	HÜ	1	Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines	HÜ	1			
21	**Mechanics I (Statics)**			**Mathematics II**			**Mechanics III (Hydrostatics, Kinematics, Kinetics I)**						Fundamentals of Marine Engineering	VL	2			
22	Mechanics I	VL	2	Linear Algebra II	VL	2	Mechanics III	VL	3	**Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)**			Fundamentals of Marine Engineering	HÜ	1			
23	Mechanics I	UE	2	Linear Algebra II	UE	1	Mechanics III	UE	2	Mechanics IV	VL	3						
24	Mechanics I	HÜ	1	Linear Algebra II	HÜ	1	Mechanics III	HÜ	1	Mechanics IV	UE	2						
25				Analysis II	VL	2				Mechanics IV	HÜ	1						
26				Analysis II	HÜ	1												
				Analysis II	UE	1												

27	**Fundamentals of Materials Science (part 1)** Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials Science VL 2		**Hydrostatics and Body Plan (part 1)** Body Plan PS 2		**Resistance and Propulsion** Resistance and Propulsion VL 2 Resistance and Propulsion HÜ 2	
28						
29						
30						
31						
32						

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.