

Course of Study Naval Architecture (Study Cohort w21)

Legend:

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

