

Course of Study Naval Architecture (Study Cohort w20)

Legend:

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)

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 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	Architecture and Ocean Engineering	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	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 GÜ 2
7	Computer Science for Mechanical Engineers		Foundations of Management	Hydrostatics and Body Plan (part 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			Fundamentals of Ship Structural Analysis VL 2	Ship Design
12			Technical Thermodynamics I HÜ 1			Fundamentals of Ship Structural Design VL 2	Ship Design VL 2
13	Mathematics I		Technical Thermodynamics I GÜ 1			Fundamentals of Ship Structural Design GÜ 1	Ship Design HÜ 2
14	Linear Algebra I VL 2			Mathematics III		Fundamentals of Ship Structural Analysis GÜ 1	
15	Linear Algebra I GÜ 1			Analysis III VL 2			
16	Linear Algebra I HÜ 1		Mechanics II: Mechanics of Materials	Analysis III GÜ 1			
17	Analysis I VL 2		Mechanics II VL 2	Analysis III HÜ 1			
18	Analysis I GÜ 1		Mechanics II GÜ 2	Differential Equations 1 VL 2			
19	Analysis I HÜ 1		Mechanics II HÜ 2	Differential Equations 1 GÜ 1			
20				Differential Equations 1 HÜ 1	Mathematics IV		
21	Mechanics I (Statics)		Mathematics II		Complex Functions VL 2	Structural Design and Construction of Ships (part 1)	
22	Mechanics I VL 2		Linear Algebra II VL 2	Mechanics III (Dynamics)	Complex Functions GÜ 1	Welding Technology VL 3	
23	Mechanics I GÜ 2		Linear Algebra II GÜ 1	Mechanics III VL 3	Complex Functions HÜ 1		
24	Mechanics I HÜ 1		Linear Algebra II HÜ 1	Mechanics III GÜ 2	Differential Equations 2 VL 2	Marine Propulsion	
25			Analysis II VL 2	Mechanics III HÜ 1	Differential Equations 2 GÜ 1	Fundamentals of Reciprocating Engines and VL 1	
26			Analysis II HÜ 1		Differential Equations 2 HÜ 1	Turbomachinery - Part Reciprocating Engines	
27	Fundamentals of Materials Science (part 1)		Analysis II GÜ 1			Fundamentals of Reciprocating Engines and HÜ 1	
28	Fundamentals of Materials Science I VL 2			Hydrostatics and Body Plan (part 1)	Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)	Fundamentals of Marine Engineering VL 2	
29	Physical and Chemical Basics of Materials Science VL 2			Body Plan PS 2	Mechanics IV VL 3	Fundamentals of Marine Engineering HÜ 1	
30					Mechanics IV GÜ 2		
31					Mechanics IV HÜ 1	Resistance and Propulsion	
32						Resistance and Propulsion VL 2	
						Resistance and Propulsion HÜ 2	

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.

