

Course of Study Naval Architecture (Study Cohort w23)

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) Dual study program

1	Basics of Electrical Engineering		Fundamentals of Mechanical Engineering Design	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 Mechanical Engineering Design 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 HÜ 2	Advanced Mechanical Engineering Design I HÜ 2	Advanced Mechanical Engineering Design II HÜ 2	Architecture and Ocean Engineering	Ship Dynamics GÜ 1
4				Mechanical Engineering: Design (part 1)	Mechanical Engineering: Design (part 2)	Computational Fluid Dynamics I	
5				Embodiment Design and 3D-CAD Introduction and Practical Training VL 2	Team Project Design Methodology PBL 2	Computational Fluid Dynamics I VL 2	
6				Mechanical Design Project I PBL 3	Mechanical Design Project II PBL 3	Computational Fluid Dynamics I HÜ 2	Structural Design and Construction of Ships (part 2)
7	Mathematics I		Technical Thermodynamics I	Foundations of Management	Hydrostatics and Body Plan (part 2)		
8	Mathematics I VL 4		Technical Thermodynamics I VL 2	Introduction to Management VL 3	Hydrostatics VL 2		
9	Mathematics I HÜ 2		Technical Thermodynamics I HÜ 1	Management Tutorial GÜ 2	Hydrostatics HÜ 2		
10	Mathematics I GÜ 2		Technical Thermodynamics I GÜ 1				
11						Fundamentals of Ship Structural Design and Analysis	
12					Fluid Dynamics	Fundamentals of Ship Structural Analysis VL 2	Ship Design
13					Fluid Mechanics VL 3	Fundamentals of Ship Structural Design VL 2	Ship Design VL 2
14					Fluid Mechanics HÜ 2	Fundamentals of Ship Structural Design GÜ 1	Ship Design HÜ 2
15			Mathematics II	Mathematics III		Fundamentals of Ship Structural Analysis GÜ 1	
16	Fundamentals of Materials Science		Mathematics II VL 4	Analysis III VL 2			
17	Fundamentals of Materials Science II VL 2		Mathematics II HÜ 2	Analysis III GÜ 1			
18	Fundamentals of Materials Science I VL 2		Mathematics II GÜ 2	Analysis III HÜ 1			
19	Physical and Chemical Basics of Materials Science VL 2			Differential Equations 1 VL 2	Mathematics IV		
20				Differential Equations 1 GÜ 1	Complex Functions VL 2	Structural Design and Construction of Ships (part 1)	
21				Differential Equations 1 HÜ 1	Complex Functions GÜ 1	Welding Technology VL 3	
22	Computer Science for Engineers - Introduction and Overview		Practical module 2 (dual study program, Bachelor's degree)	Hydrostatics and Body Plan (part 1)	Complex Functions HÜ 1		
23	Computer Science for Engineers - Introduction and Overview VL 3		Practical term 2 0	Body Plan PS 2	Differential Equations 2 VL 2	Marine Propulsion	
24	Computer Science for Engineers - Introduction and Overview GÜ 2			Practical module 3 (dual study program, Bachelor's degree)	Differential Equations 2 GÜ 1	Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines VL 1	
25				Practical term 3 0	Differential Equations 2 HÜ 1	Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines HÜ 1	
26						Fundamentals of Marine Engineering VL 2	
27	Practical module 1 (dual study program, Bachelor's degree)		Engineering Mechanics II (Elastostatics)			Fundamentals of Marine Engineering HÜ 1	
28	Practical term 1 0		Engineering Mechanics II VL 2				Resistance and Propulsion
29			Engineering Mechanics II GÜ 2	Engineering Mechanics III (Dynamics)	Computational Mechanics		Resistance and Propulsion VL 2
30			Engineering Mechanics II HÜ 2	Engineering Mechanics III VL 3	Computational Multibody Dynamics IV 2		Resistance and Propulsion HÜ 2
31				Engineering Mechanics III GÜ 2	Computational Mechanics GÜ 2		
32				Engineering Mechanics III HÜ 1	Computational Structural Mechanics IV 2		
33	Engineering Mechanics I (Stereostatics)					Practical module 5 (dual study program, Bachelor's degree)	
34	Engineering Mechanics I VL 2					Practical term 5 0	
35	Engineering Mechanics I GÜ 2						
36	Engineering Mechanics I HÜ 1						
37							
38							

Linking theory and practice (dual study program, Bachelor's degree) (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.

