Course of Study Naval Architecture (Study Cohort w19)

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)

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		Advanced Mechanical Engineering Design I HÜ 2	Advanced Mechanical Engineering Design II HÜ 2		Ship Dynamics GÜ 1
4		**Fundamentals of Mechanical Engineering Design**	**Mechanical Engineering: Design (part 1)**	**Mechanical Engineering: Design (part 2)**	**Computational Fluid Dynamics I**	
5		Fundamentals of Mechanical Engineering Design VL 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		Fundamentals of Mechanical Engineering Design HÜ 2	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		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 (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)**	Fundamentals of Marine Engineering VL 2	
25		Analysis II VL 2		Mechanics IV VL 3	Fundamentals of Marine Engineering HÜ 1	
26		Analysis II HÜ 1		Mechanics IV GÜ 2		
27	**Fundamentals of Materials Science (part 1)**	Analysis II GÜ 1	**Hydrostatics and Body Plan (part 1)**	Mechanics IV HÜ 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.