Course of Study Naval Architecture (Study Cohort w21)

Sample course plan - Bachelor Naval Architecture (SBBS)

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1	**Basics of Electrical Engineering**			**Fundamentals of Materials Science (part 2)**			**Advanced Mechanical Engineering Design (part 1)**			**Advanced Mechanical Engineering Design (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
3	Basics of Electrical Engineering	GÜ	2				Advanced Mechanical Engineering Design I	HÜ	2	Advanced Mechanical Engineering Design II	HÜ	2

Stochastics and Ship Dynamics (part 1)
Statistics and Stochastic Processes in Naval Architecure and Ocean Engineering — VL 2

Stochastics and Ship Dynamics (part 2)
Ship Dynamics — VL 2
Ship Dynamics — GÜ 1

Row 1–3 right columns:
Fundamentals of Mechanical Engineering Design (rows 3–6)
Fundamentals of Mechanical Engineering Design — VL 2
Fundamentals of Mechanical Engineering Design — HÜ 2

Mechanical Engineering: Design (part 1) (rows 4–6)
Embodiment Design and 3D-CAD Introduction and Practical Training — VL 2
Mechanical Design Project I — PBL 3

Mechanical Engineering: Design (part 2) (rows 4–6)
Team Project Design Methodology — PBL 2
Mechanical Design Project II — PBL 3

Computational Fluid Dynamics I (rows 4–6)
Computational Fluid Dynamics I — VL 2
Computational Fluid Dynamics I — HÜ 2

Structural Design and Construction of Ships (part 2) (rows 5–6)
Ship Structural Design — VL 2
Ship Structural Design — GÜ 2

Mathematics I (rows 7–13)
Linear Algebra I — VL 2
Linear Algebra I — GÜ 1
Linear Algebra I — HÜ 1
Analysis I — VL 2
Analysis I — GÜ 1
Analysis I — HÜ 1

Foundations of Management (rows 7–8)
Introduction to Management — VL 3
Management Tutorial — GÜ 2

Hydrostatics and Body Plan (part 2) (rows 7–9)
Hydrostatics — VL 2
Hydrostatics — HÜ 2

Fundamentals of Ship Structural Design and Analysis (rows 10–13)
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

Technical Thermodynamics I (rows 10–12)
Technical Thermodynamics I — VL 2
Technical Thermodynamics I — HÜ 1
Technical Thermodynamics I — GÜ 1

Fluid Dynamics (rows 11–12)
Fluid Mechanics — VL 3
Fluid Mechanics — HÜ 2

Ship Design (rows 11–12)
Ship Design — VL 2
Ship Design — HÜ 2

Mathematics III (rows 12–17)
Analysis III — VL 2
Analysis III — GÜ 1
Analysis III — HÜ 1
Differential Equations 1 — VL 2
Differential Equations 1 — GÜ 1
Differential Equations 1 — HÜ 1

Mechanics I (Statics) (rows 15–18)
Mechanics I — VL 2
Mechanics I — GÜ 2
Mechanics I — HÜ 1

Mechanics II: Mechanics of Materials (rows 15–18)
Mechanics II — VL 2
Mechanics II — GÜ 2
Mechanics II — HÜ 2

Mathematics IV (rows 17–23)
Complex Functions — VL 2
Complex Functions — GÜ 1
Complex Functions — HÜ 1
Differential Equations 2 — VL 2
Differential Equations 2 — GÜ 1
Differential Equations 2 — HÜ 1

Structural Design and Construction of Ships (part 1) (rows 17–18)
Welding Technology — VL 3

Bachelor Thesis (rows 17–32)

Marine Propulsion (rows 21–24)
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

Fundamentals of Materials Science (part 1) (rows 21–23)
Fundamentals of Materials Science I — VL 2
Physical and Chemical Basics of Materials Science — VL 2

Mathematics II (rows 21–26)
Linear Algebra II — VL 2
Linear Algebra II — GÜ 1
Linear Algebra II — HÜ 1
Analysis II — VL 2
Analysis II — HÜ 1
Analysis II — GÜ 1

Hydrostatics and Body Plan (part 1) (rows 21–22)
Body Plan — PS 2

Engineering Mechanics III (Dynamics) (rows 22–24)
Engineering Mechanics III — VL 3
Engineering Mechanics III — GÜ 2
Engineering Mechanics III — HÜ 1

Computational Mechanics (rows 22–24)
Computational Multibody Dynamics — IV 2
Computational Mechanics — GÜ 2
Computational Stuctural Mechanics — IV 2

Resistance and Propulsion (rows 27–28)
Resistance and Propulsion — VL 2
Resistance and Propulsion — HÜ 2

Computer Science for Engineers - Introduction and Overview (rows 25–28)
Computer Science for Engineers - Introduction and Overview — VL 3
Computer Science for Engineers - Introduction and Overview — GÜ 2

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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.