Course of Study General Engineering Science (English program) (Study Cohort w14)

Sample course plan - Bachelor General Engineering Science (English program) (GESBS)
Specialisation Naval Architecture

Semester 1

- **Chemistry (GES)**
  - Chemistry I — VL 2
  - Chemistry II — VL 2
  - Chemistry I — HÜ 1
  - Chemistry II — HÜ 1
- **Linear Algebra**
  - Linear Algebra — VL 4
  - Linear Algebra — HÜ 2
  - Linear Algebra — UE 2
- **Electrical Engineering I**
  - Electrical Engineering I — VL 3
  - Electrical Engineering I — UE 2
- **Mechanics I (GES)**
  - Mechanics I — VL 2
  - Mechanics I — HÜ 3
- **Physics for Engineers (GES) (part 1)**
  - Physics for Engineers — VL 2
  - Physics for Engineers — UE 1

Semester 2

- **Physics for Engineers (GES) (part 2)**
  - Physics-Lab for ET/IIW-Engineers — PR 1
- **Fundamentals of Mechanical Engineering Design**
  - Fundamentals of Mechanical Engineering Design — VL 2
  - Fundamentals of Mechanical Engineering Design — HÜ 2
- **Technical Thermodynamics I**
  - Technical Thermodynamics I — VL 2
  - Technical Thermodynamics I — HÜ 1
  - Technical Thermodynamics I — UE 1
- **Mathematical Analysis**
  - Mathematical Analysis — VL 4
  - Mathematical Analysis — HÜ 2
  - Mathematical Analysis — UE 2
- **Electrical Engineering II**
  - Electrical Engineering II — VL 3
  - Electrical Engineering II — UE 2
- **Mechanics II (GES)**
  - Mechanics II — VL 2
  - Mechanics II — HÜ 2

Semester 3

- **Technical Thermodynamics II**
  - Technical Thermodynamics II — VL 2
  - Technical Thermodynamics II — HÜ 1
  - Technical Thermodynamics II — UE 1
- **Computer Engineering**
  - Computer Engineering — VL 3
  - Computer Engineering — UE 1
- **Mathematics III**
  - Analysis III — VL 2
  - Analysis III — UE 1
  - Analysis III — HÜ 1
  - Differential Equations 1 — VL 2
  - Differential Equations 1 — UE 1
  - Differential Equations 1 — HÜ 1
- **Mechanics III (GES)**
  - Mechanics III — HÜ 1
  - Mechanics III — UE 2
  - Mechanics III — VL 3
- **Fundamentals of Materials Science (part 1)**
  - Fundamentals of Materials Science I — VL 2
  - Physical and Chemical Basics of Materials Science — VL 2

Semester 4

- **Foundations of Management**
  - Introduction to Management — VL 4
  - Project Entrepreneurship — POL 2
- **Fundamentals of Materials Science (part 2)**
  - Fundamentals of Materials Science II — VL 2
- **Mathematics IV**
  - Complex Functions — VL 2
  - Complex Functions — UE 1
  - Complex Functions — HÜ 1
  - Differential Equations 2 — VL 2
  - Differential Equations 2 — UE 1
  - Differential Equations 2 — HÜ 1
- **Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)**
  - Mechanics IV — VL 3
  - Mechanics IV — UE 2
  - Mechanics IV — HÜ 1
- **Fluid Mechanics for Naval Architects**
  - Fluid Mechanics for Naval Architects — VL 3
  - Fluid Mechanics for Naval Architects — HÜ 2

Semester 5

- **Introduction to Control Systems**
  - Introduction to Control Systems — VL 2
  - Introduction to Control Systems — UE 2
- **Stochastics and Ship Dynamics (part 1)**
  - Statistics and Stochastic Processes in Naval Architecure and Ocean Engineering — VL 2
- **Computational Fluid Dynamics I**
  - Computational Fluid Dynamics I — VL 2
  - Computational Fluid Dynamics I — 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 — UE 1
  - Fundamentals of Ship Structural Analysis — UE 1
- **Structural Design and Construction of Ships (part 1)**
  - Welding Technology — VL 3
- **Resistance and Propulsion**
  - Resistance and Propulsion — VL 2
  - Resistance and Propulsion — HÜ 2
- **Hydrostatics and Body Plan (part 1)**
  - Body Plan — PS 2

Semester 6

- **Stochastics and Ship Dynamics (part 2)**
  - Ship Dynamics — VL 2
  - Ship Dynamics — UE 1
- **Structural Design and Construction of Ships (part 2)**
  - Ship Structural Design — VL 2
  - Ship Structural Design — UE 2
- **Hydrostatics and Body Plan (part 2)**
  - Hydrostatics — VL 2
  - Hydrostatics — HÜ 2
- **Ship Design**
  - Ship Design — VL 2
  - Ship Design — HÜ 2
- **Bachelor Thesis**

(LP scale: 1–34)

35	**Programming in C**		
	Programming in C	VL	1
36	Programming in C	PR	1

Nontechnical Complementary 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.