Course of Study General Engineering Science (English program) (Study Cohort w15)

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

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	**Chemistry (GES)**		**Physics for Engineers (GES) (part 2)**		**Technical Thermodynamics II**		**Foundations of Management**		**Introduction to Control Systems**		**Stochastics and Ship Dynamics (part 2)**	
2	Chemistry I	VL 2	Physics-Lab for ET/ AIW/ GES	PR 1	Technical Thermodynamics II	VL 2	Introduction to Management	VL 4	Introduction to Control Systems	VL 2	Ship Dynamics	VL 2
3	Chemistry II	VL 2	**Fundamentals of Mechanical Engineering Design**		Technical Thermodynamics II	HÜ 1	Project Entrepreneurship	POL 2	Introduction to Control Systems	UE 2	Ship Dynamics	UE 1
4	Chemistry I	HÜ 1	Fundamentals of Mechanical Engineering Design	VL 2	Technical Thermodynamics II	UE 1						
5	Chemistry II	HÜ 1	Fundamentals of Mechanical Engineering Design	HÜ 2							**Structural Design and Construction of Ships (part 2)**	
6											Ship Structural Design	VL 2
7	**Linear Algebra**				**Computer Engineering**		**Fundamentals of Materials Science (part 2)**		**Stochastics and Ship Dynamics (part 1)**		Ship Structural Design	UE 2
8	Linear Algebra	VL 4			Computer Engineering	VL 3	Fundamentals of Materials Science II	VL 2	Statistics and Stochastic Processes in Naval Architecure and Ocean Engineering	VL 2		
9	Linear Algebra	HÜ 2	**Technical Thermodynamics I**		Computer Engineering	UE 1	**Mathematics IV**		**Computational Fluid Dynamics I**		**Hydrostatics and Body Plan (part 2)**	
10	Linear Algebra	UE 2	Technical Thermodynamics I	VL 2			Complex Functions	VL 2	Computational Fluid Dynamics I	VL 2	Hydrostatics	VL 2
11			Technical Thermodynamics I	HÜ 1			Complex Functions	UE 1	Computational Fluid Dynamics I	HÜ 2	Hydrostatics	HÜ 2
12			Technical Thermodynamics I	UE 1			Complex Functions	HÜ 1				
13					**Mathematics III**		Differential Equations 2	VL 2				
14					Analysis III	VL 2	Differential Equations 2	UE 1				
15	**Electrical Engineering I**		**Mathematical Analysis**		Analysis III	UE 1	Differential Equations 2	HÜ 1			**Ship Design**	
16	Electrical Engineering I	VL 3	Mathematical Analysis	VL 4	Analysis III	HÜ 1	**Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)**		**Fundamentals of Ship Structural Design and Analysis**		Ship Design	VL 2
17	Electrical Engineering I	UE 2	Mathematical Analysis	HÜ 2	Differential Equations 1	VL 2	Mechanics IV	VL 3	Fundamentals of Ship Structural Analysis	VL 2	Ship Design	HÜ 2
18			Mathematical Analysis	UE 2	Differential Equations 1	UE 1	Mechanics IV	UE 2	Fundamentals of Ship Structural Design	VL 2		
19					Differential Equations 1	HÜ 1	Mechanics IV	HÜ 1	Fundamentals of Ship Structural Design	UE 1		
20									Fundamentals of Ship Structural Analysis	UE 1		
21	**Mechanics I (GES)**				**Mechanics III (GES)**		**Fluid Mechanics for Naval Architects**				**Bachelor Thesis**	
22	Mechanics I	VL 2			Mechanics III	HÜ 1	Fluid Mechanics for Naval Architects	VL 3	**Structural Design and Construction of Ships (part 1)**			
23	Mechanics I	HÜ 3	**Electrical Engineering II**		Mechanics III	UE 2	Fluid Mechanics for Naval Architects	HÜ 2	Welding Technology	VL 3		
24			Electrical Engineering II	VL 3	Mechanics III	VL 3						
25			Electrical Engineering II	UE 2								
26												
27	**Physics for Engineers (GES) (part 1)**				**Fundamentals of Materials Science (part 1)**				**Resistance and Propulsion**			
28	Physics for Engineers	VL 2			Fundamentals of Materials Science I	VL 2			Resistance and Propulsion	VL 2		
29	Physics for Engineers	UE 1	**Mechanics II (GES)**		Physical and Chemical Basics of Materials Science	VL 2			Resistance and Propulsion	HÜ 2		
30			Mechanics II	VL 2								
31			Mechanics II	HÜ 2					**Hydrostatics and Body Plan (part 1)**			
32									Body Plan	PS 2		
33												
34												

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