

# Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w16)

Sample course plan - Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))  
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	Form/hrs	Semester 2	Form/hrs	Semester 3	Form/hrs	Semester 4	Form/hrs	Semester 5	Form/hrs	Semester 6	Form/hrs	Semester 7	Form/hrs/wk			
1	<b>Chemistry (GES)</b>		<b>Fundamentals of Mechanical Engineering Design</b>		<b>Technical Thermodynamics II</b>		<b>Foundations of Management</b>		<b>Stochastics and Ship Dynamics (part 1)</b>		<b>Stochastics and Ship Dynamics (part 2)</b>		<b>Advanced Internship GES</b>				
2	Chemistry I	VL 2	Fundamentals of Mechanical Engineering Design	VL 2	Technical Thermodynamics II	VL 2	Introduction to Management	VL 3	Statistics and Stochastic Processes in Naval Architecture and Ocean Engineering	VL 2	Ship Dynamics	VL 2					
3	Chemistry II	VL 2		Fundamentals of Mechanical Engineering Design		VL 2		Technical Thermodynamics II		Project Entrepreneurship PBL2		HÜ 1		Computational Fluid Dynamics I	HÜ 2	Ship Structural Design	UE 1
4	Chemistry I	HÜ 1				Fundamentals of Mechanical Engineering Design											
5	Chemistry II	HÜ 1		Mathematical Analysis				UE 1		Differential Equations 1		HÜ 1		Fundamentals of Ship Structural Design	VL 2	Fundamentals of Materials Science II	VL 2
6			Mathematical Analysis		UE 1	Differential Equations 1	HÜ 1		Fundamentals of Ship Structural Design		VL 2						
7	<b>Linear Algebra</b>			Mathematical Analysis				UE 1		Differential Equations 1		HÜ 1		Complex Functions	VL 2	Fundamentals of Ship Structural Design	UE 1
8	Linear Algebra	VL 4	Mathematical Analysis		HÜ 2	Mechanics III (GES)	HÜ 1		Complex Functions		UE 1						
9	Linear Algebra	HÜ 2		Mathematical Analysis				UE 2		Mechanics III		UE 2		Differential Equations 2	VL 2	Structural Design and Construction of Ships (part 1)	UE 1
10	Linear Algebra	UE 2	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		UE 2	Mechanics III	UE 2		Differential Equations 2		HÜ 1						
11				Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)				UE 1		Mechanics III		VL 3		Differential Equations 2	HÜ 1	Fundamentals of Materials Science (part 1)	VL 2
12			Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		UE 1	Mechanics III	VL 3		Differential Equations 2		HÜ 1						
13				Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)				UE 1		Mechanics III		VL 3	Differential Equations 2	HÜ 1	Physical and Chemical Basics of Materials Science	VL 2	Resistance and Propulsion
14			Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		UE 1	Mechanics III	VL 3		Differential Equations 2		HÜ 1						
15	<b>Electrical Engineering I</b>			Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)				UE 1		Mechanics III		VL 3	Differential Equations 2	HÜ 1	Resistance and Propulsion	VL 2	Resistance and Propulsion
16	Electrical Engineering I	VL 3	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		UE 1	Mechanics III	VL 3		Differential Equations 2		HÜ 1						
17	Electrical Engineering I	UE 2		Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)				UE 1		Mechanics III		VL 3	Differential Equations 2	HÜ 1	Resistance and Propulsion	VL 2	Resistance and Propulsion
18			Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		UE 1	Mechanics III	VL 3		Differential Equations 2		HÜ 1						
19				Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)				UE 1		Mechanics III		VL 3	Differential Equations 2	HÜ 1	Resistance and Propulsion	VL 2	Resistance and Propulsion
20			Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		UE 1	Mechanics III	VL 3		Differential Equations 2		HÜ 1						
21	<b>Mechanics I (GES)</b>			Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)				UE 1		Mechanics III		VL 3	Differential Equations 2	HÜ 1	Resistance and Propulsion	VL 2	Resistance and Propulsion
22	Mechanics I	VL 2	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		UE 1	Mechanics III	VL 3		Differential Equations 2		HÜ 1						
23	Mechanics I	HÜ 3		Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)				UE 1		Mechanics III		VL 3	Differential Equations 2	HÜ 1	Resistance and Propulsion	VL 2	Resistance and Propulsion
24			Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		UE 1	Mechanics III	VL 3		Differential Equations 2		HÜ 1						
25				Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)				UE 1		Mechanics III		VL 3	Differential Equations 2	HÜ 1	Resistance and Propulsion	VL 2	Resistance and Propulsion
26			Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		UE 1	Mechanics III	VL 3		Differential Equations 2		HÜ 1						
27	<b>Programming in C</b>			Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)				UE 1		Mechanics III		VL 3	Differential Equations 2	HÜ 1	Resistance and Propulsion	VL 2	Resistance and Propulsion
28	Programming in C	VL 1	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		UE 1	Mechanics III	VL 3		Differential Equations 2		HÜ 1						
29	Programming in C	PR 1		Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)				UE 1		Mechanics III		VL 3	Differential Equations 2	HÜ 1	Resistance and Propulsion	VL 2	Resistance and Propulsion
			Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		UE 1	Mechanics III	VL 3		Differential Equations 2		HÜ 1						

29							
30	<b>Physics for Engineers (GES)</b>			Introduction to Control	UE 2		
31	Physics for Engineers	VL 2		Systems			
32	Physics for Engineers	UE 1				<b>Hydrostatics and Body Plan (part 1)</b>	
						Body Plan	PS 2

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.