

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

Sample course plan A Bachelor General Engineering Science (English program) (GESBS)
Specialisation Mechanical Engineering, Focus Aircraft Systems Engineering

Legend:

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

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		Mechanical Engineering: Design (part 2)		Introduction to Control Systems		Foundations of Management	
2	Chemistry I	VL 2	Physics-Lab for ET/ AIW/ GES	PR 1	Technical Thermodynamics II	VL 2	Team Project Design Methodology	POL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 4
3	Chemistry II	VL 2	Fundamentals of Mechanical Engineering Design		Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	TT 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
4	Chemistry I	HÜ 1			Technical Thermodynamics II	UE 1						
5	Chemistry II	HÜ 1					Fundamentals of Materials Science (part 2)					
6							Fundamentals of Materials Science II	VL 2				
7	Linear Algebra				Computer Engineering		Advanced Mechanical Engineering Design (part 2)		Measurement Technology for Mechanical and Process Engineers		Integrated Product Development and Lightweight Design	
8	Linear Algebra	VL 4			Computer Engineering	VL 3	Advanced Mechanical Engineering Design II	VL 2	Measurement Technology for Mechanical and Process Engineers	VL 2	Integrated Product Development I	VL 2
9	Linear Algebra	HÜ 2			Computer Engineering	UE 1	Advanced Mechanical Engineering Design II	HÜ 2	Measurement Technology for Mechanical and Process Engineers	HÜ 1	Development of Lightweight Design Products	VL 2
10	Linear Algebra	UE 2					Signals and Systems		Measurement Technology for Mechanical and Process Engineers	PR 2	CAE-Team Project	POL 2
11			Technical Thermodynamics I				Signals and Systems	VL 3	Practical Course: Measurement and Control Systems			
12			Technical Thermodynamics I	VL 2			Signals and Systems	HÜ 1				
13			Technical Thermodynamics I	HÜ 1								
14			Technical Thermodynamics I	UE 1	Mathematics III				Simulation of Dynamic Systems and Reliability		Aeronautical Systems	
15	Electrical Engineering I		Mathematical Analysis		Analysis III	VL 2	Fluid Dynamics		Simulation of Dynamic Systems	VL 2	Air Transportation Systems	VL 2
16	Electrical Engineering I	VL 3	Mathematical Analysis	VL 4	Analysis III	UE 1	Fluid Mechanics	VL 3	Reliability of Dynamic Systems	VL 2	Fundamentals of Aircraft Systems	VL 2
17	Electrical Engineering I	UE 2	Mathematical Analysis	HÜ 2	Differential Equations 1	VL 2	Fluid Mechanics	HÜ 1	Simulation of Dynamic Systems	UE 1	Fundamentals of Aircraft Systems	UE 1
18			Mathematical Analysis	UE 2	Differential Equations 1	UE 1			Reliability of Dynamic Systems	UE 1	Air Transportation Systems	HÜ 1
19					Differential Equations 1	HÜ 1						
20									Advanced Mechanical Design Project		Bachelor Thesis	
21	Mechanics I (GES)				Mechanics III (GES)		Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		Advanced Mechanical Design Project	TT 4		
22	Mechanics I	VL 2			Mechanics III	HÜ 1	Mechanics IV	VL 3				
23	Mechanics I	HÜ 3	Electrical Engineering II		Mechanics III	UE 2	Mechanics IV	UE 2				
24			Electrical Engineering II	VL 3	Mechanics III	VL 3	Mechanics IV	HÜ 1				
25			Electrical Engineering II	UE 2								
26												
27	Physics for Engineers (GES) (part 1)				Mechanical Engineering: Design (part 1)		Electrical Machines					
28	Physics for Engineers	VL 2			Embodiment Design and 3D-CAD	VL 2	Electrical Machines	VL 3				
29	Physics for Engineers	UE 1	Mechanics II (GES)		Mechanical Design Project I	TT 3	Electrical Machines	HÜ 2				
30			Mechanics II	VL 2	Fundamentals of Materials Science (part 1)							
31			Mechanics II	HÜ 2	Fundamentals of Materials Science I	VL 2						
32					Physical and Chemical Basics of	VL 2						
33					Materials Science							

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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.