

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

Sample course plan A Bachelor General Engineering Science (English program) (GESBS)
Specialisation Mechanical Engineering, Focus Theoretical Mechanical 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/IIW-Engineers	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	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	Fundamentals of Materials Science (part 2)	Fundamentals of Materials Science II	VL 2	Advanced Mechanical Engineering Design (part 2)	Advanced Mechanical Engineering Design II	Measurement Technology for Mechanical and Process Engineers	Mathematics IV														
5	Chemistry II	HÜ 1			Fundamentals of Mechanical Engineering Design	VL 2			Advanced Mechanical Engineering Design II					VL 2	Measurement Technology for Mechanical and Process Engineers	VL 2	Complex Functions	VL 2									
6	Linear Algebra				Fundamentals of Mechanical Engineering Design	HÜ 2			Advanced Mechanical Engineering Design II					HÜ 2	Measurement Technology for Mechanical and Process Engineers	HÜ 1	Complex Functions	UE 1									
7		Linear Algebra			VL 4	Computer Engineering			Computer Engineering					VL 3	Signals and Systems	Signals and Systems	Practical Course: Measurement and Control Systems	Mechanical and Process Engineers	Differential Equations 2								
8		Linear Algebra			HÜ 2									Computer Engineering						UE 1	Signals and Systems	VL 3	Practical Course: Measurement and Control Systems	PR 2	Differential Equations 2	VL 2	
9	Linear Algebra	UE 2	Technical Thermodynamics I	Technical Thermodynamics I	Mathematics III									Analysis III						Signals and Systems	HÜ 1	Simulation of Dynamic Systems and Reliability	Simulation of Dynamic Systems	Bachelor Thesis			
10	Electrical Engineering I						Technical Thermodynamics I	VL 2		Analysis III	UE 1	Simulation of Dynamic Systems	VL 2												Advanced Mechanical Design Project	Advanced Mechanical Design Project	
11		Technical Thermodynamics I					HÜ 1	Analysis III		HÜ 1	Reliability of Dynamic Systems	VL 2	Heat Transfer														Heat Transfer
12		Technical Thermodynamics I					UE 1	Differential Equations 1		VL 2	Reliability of Dynamic Systems	UE 1															
13	Electrical Engineering I					Differential Equations 1	UE 1	Differential Equations 1	HÜ 1	Heat Transfer	HÜ 1																
14		Electrical Engineering I				VL 3	Differential Equations 1	HÜ 1	Mechanics III (GES)	Mechanics III	Mechanics III	Mechanics III															
15		Electrical Engineering I	UE 2	Mathematical Analysis	VL 4	Mechanics III	HÜ 1	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)						Mechanics IV													
16	Mechanics I (GES)		Mathematical Analysis	HÜ 2	Mechanics III	UE 2	Mechanics IV								VL 3												
17		Mathematical Analysis	UE 2	Mechanics III	VL 3	Mechanics IV	UE 2						Mechanics IV		HÜ 1												
18		Mechanics I	VL 2	Electrical Engineering II	Electrical Engineering II	Mechanical Engineering: Design (part 1)	Embodiment Design and 3D-CAD						Mechanical Design Project I		Electrical Machines												
19	Mechanics I	HÜ 3	Electrical Engineering II													VL 3	Embodiment Design and 3D-CAD	VL 2	Electrical Machines	VL 3							
20	Physics for Engineers (GES) (part 1)		Electrical Engineering II						UE 2	Mechanical Design Project I	TT 3	Electrical Machines				HÜ 2											
21		Physics for Engineers	VL 2					Mechanics II (GES)	Mechanics II	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science I	Physical and Chemical Basics of		Materials Science													
22		Physics for Engineers	UE 1													Mechanics II	VL 2	Fundamentals of Materials Science I	VL 2								
23	Physics for Engineers (GES) (part 1)		Mechanics II													HÜ 2	Fundamentals of Materials Science I	VL 2									
24		Physics for Engineers	VL 2	Electrical Machines	Electrical Machines	Physical and Chemical Basics of	Materials Science																				
25		Physics for Engineers	UE 1										Electrical Machines		VL 3												
26	Physics for Engineers (GES) (part 1)		Electrical Machines										HÜ 2														
27		Physics for Engineers	VL 2					Electrical Machines	HÜ 2																		
28		Physics for Engineers	UE 1					Electrical Machines	HÜ 2																		
29	Physics for Engineers (GES) (part 1)		Electrical Machines					HÜ 2																			
30		Physics for Engineers	VL 2	Electrical Machines	HÜ 2																						
31		Physics for Engineers	UE 1	Electrical Machines	HÜ 2																						
32	Physics for Engineers (GES) (part 1)		Electrical Machines	HÜ 2																							
33		Physics for Engineers	VL 2	Electrical Machines	HÜ 2																						
34		Physics for Engineers	UE 1	Electrical Machines	HÜ 2																						

