

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

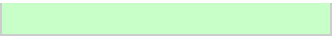
Sample course plan A Bachelor General Engineering Science (English program) (GESBS)
Specialisation Mechanical Engineering, Focus Biomechanics

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	Signals and Systems	Signals and Systems	VL 3	Signals and Systems	HÜ 1																						
5	Chemistry II	HÜ 1			Computer Engineering	VL 3			Measurement Technology for Mechanical and Process Engineers						Measurement Technology for Mechanical and Process Engineers	VL 2	BIO I: Implants and Testing (part 2)	Experimental Methods in Biomechanics	2																	
6	Linear Algebra	Linear Algebra			HÜ 2	Computer Engineering														UE 1	Measurement Technology for Mechanical and Process Engineers	HÜ 1	BIO II: Medical Basics II (part 2)	Introduction to Physiology	VL 2											
7																										Linear Algebra	UE 2	Technical Thermodynamics I	Technical Thermodynamics I	VL 2	Practical Course: Measurement and Control Systems	PR 2				
8																										Linear Algebra	HÜ 2						Mathematics III	Analysis III	VL 2	BIO I: Implants and Testing (part 1)
9			Linear Algebra	UE 2																						Analysis III	HÜ 1									
10			Electrical Engineering I	Electrical Engineering I			VL 3	Mathematical Analysis		VL 4	Numerical Mathematics I	Numerical Mathematics I	VL 2																							
11									Electrical Engineering I					UE 2	Mathematical Analysis	HÜ 2	Numerical Mathematics I	UE 2																		
12	Electrical Engineering I	UE 2			Mathematical Analysis	UE 2																														
13																			Mechanics I (GES)	Mechanics I	VL 2	Mechanics III (GES)	Mechanics III	HÜ 1												
14																									Mechanics I			HÜ 3	Electrical Engineering II	VL 3	MED I: Medical Basics I	Introduction to Radiology and Radiation Therapy	VL 2			
15																										Mechanics I	HÜ 3							Electrical Engineering II	UE 2	Introduction to Anatomy
16			Physics for Engineers (GES) (part 1)	Physics for Engineers			VL 2	Mechanical Engineering: Design (part 1)		Embodiment Design and 3D-CAD	VL 2																									
17									Physics for Engineers			UE 1	Mechanics III	UE 2	Numerical Mathematics I	Numerical Mathematics I	VL 2																			
18	Physics for Engineers	UE 1			Mechanics III	VL 3												Heat Transfer																		
19																			Mechanics II (GES)	Mechanics II	VL 2	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science I	VL 2												
20																									Mechanics II			HÜ 2	Physical and Chemical Basics of Materials Science	VL 2	Heat Transfer	HÜ 1				
21																										Electrical Engineering II	Electrical Engineering II						VL 3	Electrical Machines	Electrical Machines	VL 3
22			Electrical Engineering II	UE 2			Mechanical Design Project I	TT 3		Electrical Machines	HÜ 2																									
23									Physics for Engineers (GES) (part 1)			Physics for Engineers	VL 2	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science I	VL 2																				
24	Physics for Engineers	UE 1			Mechanics II	VL 2											Electrical Machines	HÜ 2																		
25																			Physics for Engineers	UE 1	Mechanics II	HÜ 2														
26																							Physics for Engineers (GES) (part 1)	Physics for Engineers	VL 2			Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science I	VL 2						
27																										Physics for Engineers	UE 1				Mechanics II	VL 2	Electrical Machines	HÜ 2		
28			Physics for Engineers	UE 1			Mechanics II	HÜ 2																												
29									Physics for Engineers (GES) (part 1)	Physics for Engineers	VL 2	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science I	VL 2																						
30	Physics for Engineers	UE 1			Mechanics II	VL 2									Electrical Machines	HÜ 2																				
31																	Physics for Engineers (GES) (part 1)	Physics for Engineers	VL 2	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science I	VL 2														
32																							Physics for Engineers	UE 1	Mechanics II			VL 2	Electrical Machines	HÜ 2						
33																										Physics for Engineers (GES) (part 1)	Physics for Engineers				VL 2	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science I	VL 2		
34			Physics for Engineers	UE 1			Mechanics II	VL 2																											Electrical Machines	HÜ 2
									Physics for Engineers (GES) (part 1)	Physics for Engineers	VL 2	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science I	VL 2																						
	Physics for Engineers	UE 1			Mechanics II	VL 2									Electrical Machines	HÜ 2																				
																	Physics for Engineers (GES) (part 1)	Physics for Engineers	VL 2	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science I	VL 2														
																							Physics for Engineers	UE 1	Mechanics II			VL 2	Electrical Machines	HÜ 2						
																										Physics for Engineers (GES) (part 1)	Physics for Engineers				VL 2	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science I	VL 2		
			Physics for Engineers	UE 1			Mechanics II	VL 2																											Electrical Machines	HÜ 2
									Physics for Engineers (GES) (part 1)	Physics for Engineers	VL 2	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science I	VL 2																						
	Physics for Engineers	UE 1			Mechanics II	VL 2									Electrical Machines	HÜ 2																				

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.