

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

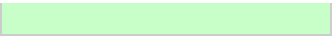
Sample course plan C Bachelor General Engineering Science (English program) (GESBS)
Specialisation Mechanical Engineering, Focus Biomechanics

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/ 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	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	Computer Engineering			VL 3						Computer Engineering	UE 1	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	VL 2																												
6	Linear Algebra	VL 4																					Technical Thermodynamics I	VL 2	HÜ 1	Technical Thermodynamics I	HÜ 1	Measurement Technology for Mechanical and Process Engineers	HÜ 1	MED II: Medical Basics II (part 2)	Introduction to Physiology	VL 2																		
7																																	Linear Algebra	HÜ 2	Mathematics III	Analysis III	VL 2	Analysis III	UE 1	BIO I: Implants and Testing (part 1)	Implants and Fracture Healing	VL 2	Bachelor Thesis							
8																																	Linear Algebra	UE 2										Mathematical Analysis	Mathematical Analysis	VL 4	Mathematical Analysis	HÜ 2	MED II: Medical Basics II (part 1)	Introduction to Biochemistry and Molecular Biology
9			Linear Algebra	UE 2																													Electrical Engineering I	Electrical Engineering I																
10			Electrical Engineering I	UE 2			Mathematical Analysis	Mathematical Analysis		HÜ 2	Mathematical Analysis	UE 2	Numerical Mathematics I	UE 2																																				
11					Mechanics I (GES)	VL 2			Electrical Engineering II						VL 3	Mechanics III (GES)	Mechanics III	HÜ 1	MED I: Medical Basics I	Introduction to Radiology and Radiation Therapy	VL 2																													
12	Mechanics I	HÜ 3																				Electrical Engineering II	UE 2	Mechanics III	UE 2	Introduction to Anatomy	VL 2																							
13																												Physics for Engineers (GES) (part 1)	Physics for Engineers	VL 2	Mechanical Engineering: Design (part 1)	Embodiment Design and 3D-CAD			VL 2	Heat Transfer	Heat Transfer	VL 3												
14																																							Physics for Engineers	UE 1	Mechanics II (GES)	Mechanics II	VL 2	Mechanics II	HÜ 2	Heat Transfer	HÜ 1			
15																																	Physics for Engineers (GES) (part 1)	Physics for Engineers														UE 1	Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science I
16			Physics for Engineers	UE 1			Fundamentals of Materials Science	VL 2		Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	VL 2																																					
17					Physics for Engineers	UE 1			Fundamentals of Materials Science					VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2																																
18	Physics for Engineers	UE 1																	Fundamentals of Materials Science	VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2																										
19																									Physics for Engineers	UE 1	Fundamentals of Materials Science	VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2																		
20																																			Physics for Engineers	UE 1	Fundamentals of Materials Science	VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2								
21																																	Physics for Engineers	UE 1									Fundamentals of Materials Science	VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2		
22			Physics for Engineers	UE 1			Fundamentals of Materials Science	VL 2		Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2																																					
23					Physics for Engineers	UE 1			Fundamentals of Materials Science					VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2																																
24	Physics for Engineers	UE 1																	Fundamentals of Materials Science	VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2																										
25																									Physics for Engineers	UE 1	Fundamentals of Materials Science	VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2																		
26																																			Physics for Engineers	UE 1	Fundamentals of Materials Science	VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2								
27																																	Physics for Engineers	UE 1									Fundamentals of Materials Science	VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2		
28			Physics for Engineers	UE 1			Fundamentals of Materials Science	VL 2		Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2																																					
29					Physics for Engineers	UE 1			Fundamentals of Materials Science					VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2																																
30	Physics for Engineers	UE 1																	Fundamentals of Materials Science	VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2																										
31																									Physics for Engineers	UE 1	Fundamentals of Materials Science	VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2																		
32																																			Physics for Engineers	UE 1	Fundamentals of Materials Science	VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2								
33																																	Physics for Engineers	UE 1									Fundamentals of Materials Science	VL 2	Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	HÜ 2		
34			Physics for Engineers	UE 1			Fundamentals of Materials Science	VL 2		Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design	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.