

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

Sample course plan B Bachelor General Engineering Science (English program) (GESBS)
Specialisation Mechanical Engineering, Focus Product Development and Production

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	Advanced Mechanical Engineering Design (part 2)	Advanced Mechanical Engineering Design II	Measurement Technology for Mechanical and Process Engineers	Integrated Product Development and Lightweight Design										
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	Integrated Product Development I	VL 2					
6	Linear Algebra	VL 4			Fundamentals of Mechanical Engineering Design	HÜ 2			Advanced Mechanical Engineering Design II					HÜ 2	Measurement Technology for Mechanical and Process Engineers	HÜ 1	Development of Lightweight Design Products	VL 2					
7					Linear Algebra	HÜ 2			Signals and Systems					Signals and Systems	Practical Course: Measurement and Control Systems	Mechanical and Process Engineers	CAE-Team Project	POL 2					
8					Linear Algebra	UE 2													Technical Thermodynamics I	VL 2	Advanced Mechanical Design Project	Advanced Mechanical Design Project	TT 4
9	Linear Algebra	UE 2			Technical Thermodynamics I	HÜ 1													Fluid Dynamics	Fluid Mechanics			
10	Electrical Engineering I	VL 3	Technical Thermodynamics I	UE 1	Fluid Mechanics	HÜ 1																	
11			Technical Thermodynamics I	HÜ 1	Fluid Mechanics	VL 3	Forming and Cutting Technology	HÜ 1															
12			Technical Thermodynamics I	UE 1	Differential Equations 1	VL 2				Fundamentals of Machine Tools	VL 3												
13	Mathematics III	VL 2	Differential Equations 1	UE 1	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)	Mechanics IV						VL 3	Material Science Laboratory										
14			Analysis III	UE 1					Mechanics IV					UE 2	Companion Lecture for Materials Science Laboratory	VL 2							
15			Analysis III	HÜ 1					Mechanics IV					HÜ 1			Material Science Laboratory	Material Science Laboratory			PR 4		
16	Electrical Engineering I	VL 3	Differential Equations 1	VL 2					Fundamentals of Production and Quality Management					Production Process Organization					VL 2				
17	Electrical Engineering I	UE 2	Differential Equations 1	UE 1																Quality Management		VL 2	
18	Electrical Engineering II	VL 3	Differential Equations 1	HÜ 1			Material Science Laboratory	Material Science Laboratory															PR 4
19			Electrical Engineering II	UE 2						Mechanics III (GES)	Mechanics III												
20			Electrical Engineering II	UE 2	Mechanics III	UE 2						UE 2											
21	Mechanics I (GES)	VL 2	Mathematical Analysis	Mathematical Analysis									VL 4										
22															Mechanics I	HÜ 3	Mathematical Analysis	HÜ 2					
23									Mechanics I					HÜ 3	Mathematical Analysis	UE 2							
24	Physics for Engineers (GES) (part 1)	VL 2							Computer Engineering					Computer Engineering					VL 3				
25							Physics for Engineers	UE 1												Computer Engineering	UE 1		
26							Physics for Engineers	UE 1		Computer Engineering	UE 1												
27	Mechanics II (GES)	VL 2			Mathematics III	Analysis III	VL 2																
28			Mechanics II	HÜ 2				Analysis III				UE 1											
29			Mechanics II	HÜ 2									Analysis III				HÜ 1						
30	Fundamentals of Materials Science (part 1)	VL 2	Mathematics III	Analysis III											HÜ 1								
31									Fundamentals of Materials Science I					VL 2		Differential Equations 1		VL 2					
32									Physical and Chemical Basics of					VL 2					Differential Equations 1	UE 1			
33	Materials Science								Differential Equations 1	HÜ 1													

