

Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w19)

Sample course plan B Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))
Specialisation Mechanical Engineering, Focus Theoretical Mechanical Engineering

Legend:

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

LP	Semester 1	FormHrs	Semester 2	FormHrs	Semester 3	FormHrs	Semester 4	FormHrs	Semester 5	FormHrs	Semester 6	FormHrs	Semester 7	FormHrs/wk
1	Chemistry (GES) Chemistry I Chemistry II Chemistry I Chemistry II	VL 2 VL 2 HÜ 1 HÜ 1	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	VL 2 VL 2 HÜ 1 UE 1	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 VL 2 HÜ 1 UE 1	Mechanical Engineering: Design (part 2) Team Project Design Methodology Mechanical Design Project II Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II Fluid Dynamics Fluid Mechanics Fluid Mechanics	VL 3 UE 1 VL 2 VL 2 HÜ 2 HÜ 2 VL 3 HÜ 2	Computer Engineering Computer Engineering Computer Engineering Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems Measurement Technology for Mechanical and Process Engineers Measurement Technology for Mechanical and Process Engineers Measurement Technology for Mechanical and Process Engineers Practical Course: Measurement and Control Systems	VL 3 UE 1 VL 3 UE 2	Foundations of Management Introduction to Management Management Tutorial Mathematics IV Complex Functions Complex Functions Complex Functions Differential Equations 2 Differential Equations 2 Differential Equations 2 Fundamentals of Production and Quality Management Production Process Organization Quality Management	VL 3 HÜ 2 VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1 VL 2 VL 2 VL 2	Advanced Internship GES	
2														
3														
4														
5														
6														
7	Linear Algebra Linear Algebra Linear Algebra Linear Algebra	VL 4 HÜ 2 UE 2	Mathematical Analysis Mathematical Analysis Mathematical Analysis Mathematical Analysis	VL 4 HÜ 2 UE 2	Mathematics III Analysis III Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV Mechanics IV Mechanics IV	VL 2 HÜ 2 HÜ 2 VL 3 UE 2 HÜ 1	Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems	VL 2 UE 2	Mathematics IV Complex Functions Complex Functions Complex Functions Differential Equations 2 Differential Equations 2 Differential Equations 2	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Advanced Mechanical Design Project	
8														
9														
10														
11														
12														
13														
14														
15	Electrical Engineering I Electrical Engineering I Electrical Engineering I	VL 3 UE 2	Electrical Engineering II Electrical Engineering II Electrical Engineering II	VL 3 UE 2	Mechanics III (GES) Mechanics III Mechanics III Mechanics III	HÜ 1 UE 2 VL 3	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV Mechanics IV Mechanics IV	VL 3 UE 2 HÜ 1	Measurement Technology for Mechanical and Process Engineers Measurement Technology for Mechanical and Process Engineers Measurement Technology for Mechanical and Process Engineers Practical Course: Measurement and Control Systems	VL 2 HÜ 1 PR 2	Production Engineering (part 2) Production Engineering II Production Engineering	VL 2 VL 2	Bachelor Thesis	
16														
17														
18														
19														
20														
21	Mechanics I (GES) Mechanics I	VL 2	Mechanics II (GES) Mechanics II	VL 2	Mechanical Engineering: Design (part 1) Embodiment Design and	VL 2	Signals and Systems Signals and Systems	VL 3	PBL4 Design Project	VL 2 HÜ 1	Production Engineering	VL 2 HÜ 1	Bachelor Thesis	

	Mechanics I	HÜ 3	Mechanics II	HÜ 2	3D-CAD		Signals and Systems	UE 2		II	
22					Mechanical Design	PBL3					
23					Project I						
24					Fundamentals of Materials Science (part 1)						
25											
26					Fundamentals of	VL 2			Numerical Mathematics I		
27	Programming in C		Fundamentals of Mechanical Engineering Design (GES)		Materials Science I				Numerical Mathematics I	VL 2	
	Programming in C	VL 1			Physical and Chemical	VL 2			Numerical Mathematics I	UE 2	
	Programming in C	PR 1	Fundamentals of Mechanical Engineering	VL 2	Basics of Materials Science						
28			Fundamentals of Mechanical Engineering	UE 2	Advanced Mechanical Engineering Design (part 1)						
29	Physics for Engineers (GES)				Advanced Mechanical Engineering Design I	VL 2					
30	Physics for Engineers	VL 2			Advanced Mechanical Engineering Design I	HÜ 2					
	Physics for Engineers	UE 1									
31									Production Engineering (part 1)		
32									Production Engineering I	VL 2	
33									Production Engineering I	HÜ 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.