

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

Sample course plan A Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))
Specialisation Energy and Environmental 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	For/Hrs	Semester 2	For/Hrs	Semester 3	For/Hrs	Semester 4	For/Hrs	Semester 5	For/Hrs	Semester 6	For/Hrs	Semester 7	For/Hrs/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	PBL2 PBL3	Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems	VL 2 VL 2 UE 2	Foundations of Management Introduction to Management Management Tutorial	VL 3 HÜ 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	Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics Fluid Mechanics for Process Engineering	VL 2 HÜ 2	Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer	VL 2 UE 1 HÜ 1	Environmental Technology (part 2) Practical Exercise Environmental Technology	PR 1 HÜ 1		
8														
9														
10														
11														
12														
13														
14	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	Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics Fluid Mechanics for Process Engineering	VL 2 HÜ 2	Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer	VL 2 UE 2 HÜ 1	Environmental Technology Environmental Assessment Environmental Assessment	VL 2 UE 1		
15														
16														
17														
18														
19														
20	Mechanics I (GES) Mechanics I Mechanics I	VL 2 HÜ 3	Mechanics II (GES) Mechanics II Mechanics II	VL 2 HÜ 2	Computer Engineering Computer Engineering Computer Engineering	VL 3 UE 1	Electrical Machines and Actuators Electrical Machines and Actuators	VL 3 HÜ 2	Thermal Separation Processes Thermal Separation Processes Thermal Separation Processes Separation Processes	VL 2 UE 2 HÜ 1 PR 1	Environmental Technology Environmental Assessment Environmental Assessment	VL 2 UE 1		
21														
22														
23														
24														
25														

26			
27	Programming in C Programming in C VL 1 Programming in C PR 1	Fundamentals of Mechanical Engineering Design (GES) Fundamentals of Mechanical Engineering VL 2	Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL 2
28			
29	Physics for Engineers (GES) Physics for Engineers VL 2 Physics for Engineers UE 1	Fundamentals of Mechanical Engineering UE 2	Mechanical Design Project I PBL3
30			
31			Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2
32			Physical and Chemical Basics of Materials Science VL 2
33			

Measurement Technology for Mechanical and Process Engineers

Measurement Technology for Mechanical and Process Engineers	VL 2
Measurement Technology for Mechanical and Process Engineers	HÜ 1
Practical Course: Measurement and Control Systems	PR 2

Environmental Technology (part 1)

Environmental Technologie	VL 2
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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.