

Course of Study Engineering Science (Study Cohort w20)

Sample course plan B Bachelor Engineering Science (ESBS)

Specialisation Electrical Engineering																		
1	Chemistry (GES)			Mathematical Analysis		Mechanical Engineering: Design (part 1)		Mechanical Engineering: Design (part 2)		Numerical Mathematics I		Fundamentals of Production and Quality Management		Advanced Internship AIW/ ES				
2	Chemistry I+II	VL	4	Mathematical Analysis	VL	4	Embodiment Design and 3D-CAD	VL	2	Team Project Design Methodology	PBL	2	Numerical Mathematics I	VL	2	Advanced Internship AIW/ ES:	SE	1
3	Chemistry I+II	HÜ	2	Mathematical Analysis	HÜ	2	Mechanical Design Project I	PBL	3	Mechanical Design Project II	PBL	3	Numerical Mathematics I	GÜ	2	Production Process Organization	VL	2
4				Mathematical Analysis	GÜ	2	Engineering Mechanics III (EN) Mechanics III Mechanics III Mechanics III	HÜ 1 GÜ 2 VL 3	Fundamentals of Materials Science (EN) (part 2) Fundamentals of Materials Science II	VL 2	Electromagnetics for Engineers I: Time-Independent Fields Electromagnetics for Engineers I: Time-Independent Fields Electromagnetics for Engineers I: Time-Independent Fields	VL 3 GÜ 2	Fluid Mechanics (EN) Fluid Mechanics Fluid Mechanics	VL 3 HÜ 2	Modeling, Simulation and Optimization (EN) Modeling, Simulation and Optimization	IV 4		
5																		
6																		
7																		
8																		
9																		
10	Linear Algebra			Electrical Engineering II (GES) Electrical Engineering II Electrical Engineering II	VL 3 GÜ 2	Fundamentals of Materials Science (EN) (part 1) Fundamentals of Materials Science I Physical and Chemical Basics of Materials Science	VL 2 VL 2	Computer Science for Engineers (EN) **** Computer Science for Engineers **** Computer Science for Engineers	VL 0 GÜ 3	Signals and Systems (EN) Signals and Systems Signals and Systems	GÜ 2 VL 3	Introduction to Control Systems (EN) Introduction to Control Systems Introductio	VL 2 GÜ 2	Foundations of Management (EN) *** Introduction to Management *** Introduction to Management	VL 3 GÜ 3			
11																		
12																		
13																		
14																		
15																		
16	Electrical Engineering I (GES)			Engineering Mechanics II (GES) Mechanics II Mechanics II	VL 2 HÜ 2													
17																		
18																		
19																		
20																		
21																		
22	Engineering Mechanics I (GES)			Fundamentals of Mechanical Engineering Design (GES) Fundamentals of Mechanical Engineering Fundamentals of Mechanical Engineering	VL 2 GÜ 2													
23																		
24																		
25																		
26																		
27																		
28	Physics for Engineers (GES)			Technical Thermodynamics I (GES) *** Technical Thermodynamics I *** Technical Thermodynamics I	IV 3 GÜ 1													
29																		
30																		
31																		
32																		
Non-technical 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.

