**Course of Study Engineering Science (Study Cohort w20)** 

	e course plan B Bachelor Engine lisation Electrical Engineering	Letting science (ESBS)			Jecian Special	isation Elective Compulsory Focus Elective Compuls	ory Interdisciplinary complement
	Chemistry (GES)         VL         4           Chemistry I+II         HÜ         2	Mathematical Analysis VL 4 Mathematical Analysis HÜ 2 Mathematical Analysis HÜ 2 Mathematical Analysis GÜ 2	Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3  Engineering Mechanics III (EN)	Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3 Fundamentals of Materials Science (EN) (part	Numerical Mathematics I Numerical Mathematics I VL 2 Numerical Mathematics I GÜ 2	Fundamentals of Production and Quality Management Production Process Organization VL 2 Quality Management VL 2	Advanced Internship AIW/ ES Advanced Internship AIW/ ES: SE Preparation Advanced Intenship AIW/ ES: Internship- SE accompanying Seminar
5			Mechanics III	2) Fundamentals of Materials Science (EN) (part 2) Fundamentals of Materials Science II VL 2 Electromagnetics for Engineers I: Time-			
7 8 9	Linear Algebra         VL 4           Linear Algebra         VL 4           Linear Algebra         HÜ 2           Linear Algebra         GÜ 2              Electrical Engineering I (GES)           Electrical Engineering I         VL 3           Electrical Engineering I         GÜ 2	Electrical Engineering II (GES) Electrical Engineering II VL 3 Electrical Engineering II GÜ 2  Engineering Mechanics II (GES) Mechanics II VL 2 Mechanics II HÜ 2		Independent Fields Electromagnetics for Engineers I: Time- VL 3 Independent Fields Electromagnetics for Engineers I: Time- GÜ 2 Independent Fields :  Computational Mechanics (EN) Computational Mechanics IV 4 Computational Mechanics GÜ 2	Fluid Mechanics (EN) Fluid Mechanics VL 3 Fluid Mechanics HÜ 2	Modeling, Simulation and Optimization (EN) Modeling, Simulation and Optimization IV 4	
10 11 12			Fundamentals of Materials Science (EN) (part 1) Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2				
L3 L4			Science  Computer Science for Engineers (EN)  **** Computer Science for Engineers VL 0  **** Computer Science for Engineers GÜ 3		Introduction to Control Systems (EN) Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	Foundations of Management (EN)  *** Introduction to Management VL 3  *** Introduction to Management GÜ 3	
.5 .6 .7							
8 9 0			Mathematics III (EN)	Signals and Systems (EN)           Signals and Systems         GÜ 2           Signals and Systems         VL 3	Theoretical Electrical Engineering II: Time- Dependent Fields Theoretical Electrical Engineering II: VL 3	Semiconductor Circuit Design Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GÜ 1	Bachelor Thesis
1 2 3	Engineering Mechanics I (GES)           Mechanics I         VL         2           Mechanics I         HÜ         3	Fundamentals of Mechanical Engineering Design (GES) Fundamentals of Mechanical Engineering VL 2 Fundamentals of Mechanical Engineering GÜ 2	Analysis III         VL         2           Analysis III         HÜ         1           Analysis III         GÜ         1           Differential Equations 1         VL         2		Time-Dependent Fields Theoretical Electrical Engineering II: GÜ 2 Time-Dependent Fields	Semiconauctor Circuit Design GO 1	
4 5 6			Differential Equations 1 HÜ 1 Differential Equations 1 GÜ 1		Electronic Devices Electronic Devices VL 3 Electronic Devices PBL 2	Mathematics IV (EN)           Differential Equations 2         VL 2           Differential Equations 2         HÚ 1	
7 3 9	Physics for Engineers (GES)           Physics for Engineers         VL 2           Physics for Engineers         GÜ 1	Technical Thermodynamics I (GES)  *** Technical Thermodynamics I IV 3  *** Technical Thermodynamics I GÜ 1			Electronic Devices PBL 2	Differential Equations 2	
0 1 2	<b>GES 101</b> GES 101 SE 2						

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.