## Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w16)

Sample course plan B Bachelor General Engineering Science (English program, 7 semester) (GESBS(7)) Specialisation Mechanical Engineering, Focus Product Development and Production

 Core qualification Compulsory
 Specialisation Compulsory
 Focus Compulsory
 Thesis Compulsory

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

LP	Semester 1 Former	s/wSemester 2 Former	/wSiemester 3 Formits	/w‰emester 4 Forming	/wSwemester5 Formidis	/wSemester 6 Formers	/wSkemester7 Formirs/w
1 2 3 3	Chemistry (GES)  Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering Design	Technical Thermodynamics II  Technical VL 2 Thermodynamics II  Technical HÜ 1 Thermodynamics II  Technical UE 1 Thermodynamics II	Mechanical Engineering: Design (part 2) Team Project Design PBL2 Methodology Mechanical Design TT 3 Project II  Fundamentals of Materials Science (part 2) Fundamentals of VL 2 Materials Science II	Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship GES
9 10 11	Linear Algebra Linear Algebra VL 4 Linear Algebra HÜ 2 Linear Algebra UE 2	Technical Thermodynamics I Technical VL 2 Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 1 Thermodynamics I	Mathematics III  Analysis III VL 2  Analysis III UE 1  Analysis III HÜ 1  Differential Equations 1 VL 2  Differential Equations 1 UE 1  Differential Equations 1 HÜ 1	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical VL 2 Engineering Design II Advanced Mechanical HÜ 2 Engineering Design II  Production Engineering (part 2) Production Engineering VL 2 II Production Engineering HÜ 1 II	Introduction to Control Systems Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems	Integrated Product Development and Lightweight Design Integrated Product Development I Development of Lightweight Design Products CAE-Team Project PBL2	
12 13 14 15 16 17 18	Electrical Engineering I Electrical Engineering I VL 3 Electrical Engineering I UE 2	Mathematical Analysis  Mathematical Analysis  Mathematical Analysis  HÜ 2  Mathematical Analysis  UE 2	Mechanics III (GES)  Mechanics III HÜ 1  Mechanics III UE 2  Mechanics III VL 3	Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2  Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)  Mechanics IV VL 3 Mechanics IV UE 2 Mechanics IV HÜ 1	Measurement Technology for Mechanical and Process Engineers  Measurement VL 2 Technology for Mechanical and Process Engineers  Measurement HÜ 1 Technology for Mechanical and Process Engineers Practical Course: PR 2 Measurement and Control Systems	Enhanced Fundamentals of Materials Science Enhanced VL 2 Fundamentals: Metals Enhanced VL 2 Fundamentals: Ceramics and Polymers Enhanced HÜ 1 Fundamentals: Ceramics and Polymers	
19 20 21 22	Mechanics I (GES)	Electrical Engineering II	Mechanical Engineering:		Advanced Mechanical Design Project Advanced Mechanical PBL4 Design Project	Fundamentals of Production and Quality Management Production Process VL 2 Organization	Bachelor Thesis

Med		VL 2 HÜ 3	Electrical Engineering II Electrical Engineering II		Design (part 1) Embodiment Design and VL 2 3D-CAD Mechanical Design TT 3 Project I				Quality Management	VL 2
24 25 26					Fundamentals of Materials Science (part 1) Fundamentals of VL 2		Production Technolog	gy VL 2		
Prog	3 -	VL 1 PR 1	Mechanics II (GES) Mechanics II Mechanics II	VL 2 HÜ 2	Materials Science I Physical and Chemical VL 2 Basics of Materials Science		Technology  Forming and Cutting  Technology  Fundamentals of	HÜ 1 VL 2		
30 Phy	hysics for Engineers (GES) hysics for Engineers VL 2 hysics for Engineers UE 1			Advanced Mechanical Engineering Design (part 1) Advanced Mechanical VL 2 Engineering Design I Advanced Mechanical HÜ 2 Engineering Design I	Machine Tools Fundamentals of Machine Tools	HÜ 1	1			
2					Production Engineering (part 1)					
Nont	ntechnical Complemen	tary Cou	urses for Bachelors (from	catalogu	Production Engineering I VL 2 Production Engineering I HÜ 1 e) - 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.