Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w18)

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

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 F	or im rs/	Welemester 2 Formers	/wSkemester 3	Formers	∕w‰emester 4	Formers	/wSwemester5 Formidis	s/wSemester 6 Formers	s/wSkemester 7 Formidirs/
1 2 3 4 5 6 7 8	Chemistry II V Chemistry I H Chemistry II H	/L 2 HÜ 1 HÜ 1	Technical Thermodynamics I Technical VL 2 Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 1 Thermodynamics I Mathematical Analysis VL 4	Technical Thermodyna II Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Mathematics III Analysis III	WL 2 HÜ 1 UE 1		PBL2 PBL3 rials VL 2	Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1 Introduction to Control Systems	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2 Integrated Product Development and	Advanced Internship GES
9 10 11 12 13	Linear Algebra H	1Ü 2 JE 2	Mathematical Analysis HÜ 2 Mathematical Analysis UE 2	Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	UE 1 HÜ 1 VL 2 UE 1	Engineering Design II Advanced Mechanical Engineering Design II Production Engineering (part 2) Production Engineering II Production Engineering II Fluid Dynamics Fluid Mechanics	VL 2	Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems Measurement Technology	Lightweight Design Integrated Product VL 2 Development I Development of VL 2 Lightweight Design Products CAE-Team Project PBL2 Enhanced Fundamentals of	
14 15 16 17 18	Electrical Engineering I Electrical Engineering I V Electrical Engineering I U		Electrical Engineering II Electrical Engineering II VL 3 Electrical Engineering II UE 2	Mechanics III (GES) Mechanics III Mechanics III Mechanics III	HÜ 1 UE 2 VL 3	Fluid Mechanics Fluid Mechanics Mechanics IV (Kinetics Oscillations, Analytica Mechanics, Multibody Systems) Mechanics IV Mechanics IV Mechanics IV	HÜ 2	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	Materials Science Enhanced VL 2	
20								Advanced Mechanical	Electrical Machines and	Bachelor Thesis

Mechanics I VL 2 Mechanics I HÜ 3	Mechanics II (GES) Mechanics II VL 2 Mechanics II HÜ 2	Mechanical Engineering: Design (part 1) Embodiment Design and VL 2 3D-CAD Mechanical Design PBL3 Project I	Design Projec Advanced Mecl Design Project	hanical PBL4	Actuators Electrical Machines and VL 3 Actuators Electrical Machines and HÜ 2 Actuators
24 25 66		Fundamentals of Materials Science (part 1) Fundamentals of VL 2	Production Te	٥,	
Programming in C PR 1	Fundamentals of Mechanical Engineering (GES) Fundamentals of VL 2 Mechanical Engineering	Materials Science I Physical and Chemical VL 2 Basics of Materials Science	Technology Forming and Co Technology Fundamentals of	utting HÜ 1	
Physics for Engineers (GES) Physics for Engineers VL 2 Physics for Engineers UE 1	Fundamentals of UE 2 Mechanical Engineering	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	of HÜ 1	
1 2		Production Engineering (part 1)			
		Production Engineering I VL 2 Production Engineering I HÜ 1			

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