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

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Mechanical Engineering, Focus Materials in Engineering Sciences

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	Mirs/wikemester 2 F	or i mrs/&kemester 3	Formers	s/\skmester 4 Fori	hrs/wikemester 5 Forh	rs/&kmester 6 ForMrs	s/wskemester 7 Forthers/v
Chemistry Chemistry I VL Chemistry II VL Chemistry II HÜ Chemistry II HÜ Chemistry II HÜ	Networks and Basic Devices Electrical Engineering V	Thermodynamics Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1 UE 1	Mechanical Engineering: Design (part 2) Team Project Design PBL Methodology Mechanical Design PBL Project II Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II	Systems 2 Introduction to VL 2 Control Systems 3 Introduction to UE 2 Control Systems	Management	Advanced Internship AIW/ GES
7 8 Blectrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering VL I: Direct Current Networks and Electromagnetic Fields 10 Electrical Engineering UE 11 I: Direct Current Networks and Electromagnetic Fields 12 Electrical Engineering UE 13 Electrical Engineering UE 14 Electromagnetic Fields	Mechanical Engineering Design Fundamentals of V Mechanical Engineering Design Fundamentals of H Mechanical	Mathematics III Analysis III Analysis III Analysis III Differential Equation Differential Equation Differential Equation Differential Equation	ns UE 1	Advanced Mechanical Engineering Design (par 2) Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II Fluid Dynamics Fluid Mechanics VL Fluid Mechanics HÜ	Computer Engineering VL 3 Computer Engineering UE 1 2	Estrated March	
13 14 Linear Algebra I Linear Algebra I Linear Algebra I Linear Algebra I HÜ Analysis I Analysis I UE HÜ Analysis I HÜ HÜ	1 Technical V Thermodynamics I 1 Technical H 2 Thermodynamics I 1 Technical U 1 Thermodynamics I	L 2 Mechanics III (Hydrostatics, Ü 1 Mechanics III Mechanics III Mechanics III	vics I) VL 3 UE 2 HÜ 1	Mechanics IV (Kinetics II Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV VL Mechanics IV UE Mechanics IV HÜ	Technology for Mechanical Engineering Measurement Technology for Mechanical Engineering Practical Course: Measurement and Control Systems	Fundamentals of VL 2 Mechanical Properties of Materials Electrical Machines and Actuators Electrical Machines VL 3 and Actuators	
20 21 Mechanics I (Statics) Mechanics I VL		Mechanical Engine	eering:	Signals and Systems Signals and Systems VL	Numerical Mathematics I Numerical VL 2 Mathematics I 3 Numerical UE 2		Bachelor Thesis

23	Mechanics I Mechanics I	UE 2 HÜ 1	Mathematics II Linear Algebra II UE 1 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II UE 1	HÜ 2	Embodiment Design VL and 3D-CAD Mechanical Design PB Project I		Signals and Systems UE 2	UE 2	Mathematics I	
24 25 26 27				VL 2				Structural Materials (part 1)		
	Programming in C Programming in C Programming in C	VL 1 PR 1		Materials Science I Physical and Chemical VL Basics of Materials Science	al VL 2			Welding Technology VL 3		
28 29 30	Physics for Enginee (AIW) Physics for Engineers Physics for Engineers	VL 2		Advanced Mechanical Engineering Design (part 1) Advanced Mechanical VL : Engineering Design I Advanced Mechanical HÜ : Engineering Design I	. 2			Material Science Laboratory Companion Lecture for Materials Science Laboratory Material Science PR 4 Laboratory		
31 32 33	Nontechnical Complem		Course for Dook	(6	dans) (ID					

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