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

	Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))							Core qualification Compulsory	Specia	alisation Compulsory	Focus Compulsory		Thesis Compulsory		
Specia	ilisation Energy and Envirome	enta	l Engineering						Core qualification Elective Compulsory		alisation Elective ulsory	Focus Elective Co		Interdisciplinary complement	
LP	Semester 1 For	intrs/\	Økmester 2	For h hrs/	ଏହିkmester 3	For h hrs,	ଏହାkemester 4	Formithrs,	Watemester 5 I	Formin	/ &k mester 6	Formirs	/&kmeste	er 7 Fo	or h hrs/wk
1 2	Chemistry		Electrical Engineering	g II:	Technical		Mechanical Enginee	ring:	Introduction to Contro	ol	Foundations o	of		ed Internship A	w/
3	Chemistry I VL	Z	Alternating Current Networks and Basic		Thermodynamics II		Design (part 2)		Systems		Management		GES		
5	Chemistry II VL	2	Devices		Technical Thermodynamics II	VL 2	Team Project Design Methodology	PBL2	Introduction to V Control Systems	VL 2	Introduction to Management	VL 3			
	Chemistry I HÜ Chemistry II HÜ		Electrical Engineering II: Alternating Current	VL 3	Technical	HÜ 1	Mechanical Design	PBL3		UE 2	Management Tu	utorial UE 2			
			Networks and Basic		Thermodynamics II	UE 1	Project II		Control Systems						
4 5			Devices		Technical Thermodynamics II	UE I	Fundamentals of								
5			Electrical Engineering II: Alternating Current	UE 2			Materials Science (
			Networks and Basic Devices				Fundamentals of Materials Science II	VL 2							
6							Fundamentals of Flu	uid							
7 8	Electrical Engineering I:		Fundamentals of		Mathematics III		Mechanics		Heat and Mass Transfer		Particle Technology and				
о 9	Direct Current Networks and Electromagnetic		Mechanical Engineeri Design	ing	Analysis III	VL 2	Fundamentals of Fluid Mechanics	VL 2		VL 2	Solids Process Engineering	5			
10	Fields		-	VL 2	Analysis III	UE 1	Fluid Mechanics for	HÜ 2	Transfer Heat and Mass	UE 1	Particle Technol	logy I VL 2			
11	Electrical Engineering VL	3	Mechanical		Analysis III	HÜ 1	Process Engineering		Transfer	UEI	Particle Technol				
12	I: Direct Current Networks and		Engineering Design Fundamentals of	HÜ 2	Differential Equations	VL 2	Electrical Machines	and		HÜ 1	Particle Techno	logy I PR 2			
	Electromagnetic Fields		Mechanical		Differential Equations	UE 1	Actuators	unu	Transfer						
	Electrical Engineering UE I: Direct Current	2	Engineering Design		1		Electrical Machines and Actuators	VL 3							
	Networks and				Differential Equations	HUI	Electrical Machines	HÜ 2							
	Electromagnetic Fields						and Actuators								
13 14	Mathematics I		Technical						Thermal Separation		Environmenta	il i			
15	Linear Algebra I VL	2	Thermodynamics I Technical	VL 2					Processes		Technology Environmental	VL 2			
	Linear Algebra I UE	± .	Thermodynamics I	VLZ	Mechanics III (Hydrostatics,				Thermal Separation N Processes	VL Z	Assessment	VL Z			
	Linear Algebra I HÜ Analysis I VL	2		HÜ 1	Kinematics, Kinetics				and the second	UE 2		UE 1			
1.6	Analysis I UE	-	Thermodynamics I Technical	UE 1	Mechanics III	VL 3			Processes Thermal Separation	HÜ 1	Assessment				
16	Analysis I HÜ		Thermodynamics I	UEI	Mechanics III Mechanics III	UE 2 HÜ 1			Processes		Environmenta				
					Mechanics in	110 1			Separation Processes	PR 1	Technology (p Practical Exercis				
											Environmental	5C 11(I			
											Technology				
17 18											Process and P	lant			
18 19		-					Renewables and En	ergy			Engineering I				
20			Mechanics II: Mechar of Materials	nics			Systems Renewable Energy	VI 2	Measurement Techno for Mechanical Engine		Process and Pla Engineering I	int VL 2	Bachel	or Thesis	
21	Mechanics I (Statics)			VL 2	Computer Engineeri	ng	Energy Systems and		-		Process and Pla	nt HÜ 1			
-	()														

Core gualification

Mechanics I Mechanics I Mechanics I	VL 2 UE 2 HÜ 1	Mechanics II Mechanics II	UE 2 HÜ 2	Computer Engineering VL 3 Computer Engineering UE 1	Energy Industry Power Industry Renewable Energy	VL 1 UE 1	Mechanical Engineering Measurement Technology for Mechanical Engineering		Process and Plant Engineering I	UE 1	
		Mathematics II Linear Algebra II Linear Algebra II Linear Algebra II	VL 2 UE 1 HÜ 1				Environmental Technology (part 1) Environmental Technologie	VL 2			
Programming in C Programming in C	VL 1	Analysis II Analysis II	VL 2 HÜ 1	Mechanical Engineering: Design (part 1)			Computational Fluid Dynamics I	/1 2			
		Analysis II	UE I	and 3D-CAD Mechanical Design PBL3 Project I			Dynamics I				
				Fundamentals of Materials Science (part 1)							
				Fundamentals of VL 2 Materials Science I Physical and Chemical VL 2 Basics of Materials Science							
	Mechanics I Programming in C Programming in C Programming in C Programming in C Physics for Engineers	Mechanics I UE 2 Mechanics I HÜ 1 Programming in C VL 1 Programming in C PR 1 Physics for Engineers	Mechanics I UE 2 Mechanics I UE 2 Mechanics I HÜ 1 Mechanics I HÜ 1 Mechanics II HÜ 1 Mechanics II Mathematics II Linear Algebra II Linear Algebra II Linear Algebra II Linear Algebra II Linear Algebra II Linear Algebra II Analysis II Programming in C VL 1 Programming in C PR 1 Physics for Engineers VL 2	Mechanics I UE 2 Mechanics I UE 2 Mechanics I HÜ 1 Mechanics I HÜ 1 Mechanics I HÜ 1 Mechanics II HÜ 2 Mechanics II HÜ 2 Mechanics II HÜ 2 Mechanics II UZ 2 Linear Algebra II UZ 1 Linear Algebra II UE 1 Linear Algebra II UE 1 Linear Algebra II UZ 2 Programming in C VL 1 Programming in C PR 1 Physics for Engineers VL 2	Mechanics I UE 2 Mechanics I UE 2 Mechanics I HÜ 1 Mechanics II HÜ 1 Mechanics II HÜ 1 Mechanics II HÜ 2 Mechanics II HÜ 2 Mechanics II UE 2 Mechanics II UE 2 Linear Algebra II UE 1 Linear Algebra II UE 1 Linear Algebra II UE 1 Linear Algebra II UE 1 Linear Algebra II UE 1 Analysis II VL 2 Analysis II VL 2 Analysis II UE 1 Analysis II UE 1 Analysis II VL 2 Mechanical Engineering: Design (part 1) Embodiment Design VL 2 and 3D-CAD Mechanical Design VL 2 Analysis II UE 1 Fundamentals of Mechanical Science (part 1) Fundamentals of VL 2 Materials Science I VL 2 Materials Science I VL 2	Mechanics I VE 2 Mechanics I VE 2 Mathematics II Linear Algebra II VE 2 Linear Algebra II VE 2 Index Algebra II VE 2 Analysis II VE 2 Analysis II VE 2 Mechanical Engineering: Design (part 1) Embodiment Design VE 2 and 3D-CAD Physics for Engineers VE 2 Physics for Engineers VE 2 Physical and Chemical VE 2	Mechanics I UE 2 Mechanics I UE 2 Mechanics I UE 2 Mechanics I HÜ 1 Mechanics II HÜ 2 Mechanics II HÜ 2 Mechanics II UI 1 Mathematics II Linear Algebra II VL 2 Linear Algebra II VL 2 Linear Algebra II VL 2 Linear Algebra II VL 2 Linear Algebra II UE 1 Linear Algebra II VL 2 Analysis II HÜ 1 Programming in C Programming in C Programming in C Programming in C Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers VL 2 Physica and Chemical VL 2 Physica and Chemical VL 2 Physica and Chemical VL 2	Mechanics I UE 2 Mechanics I UE 2 Mechanics I HÜ 1 Mechanics I I HÜ 2 Mechanics II HÜ 2 Mechanics II HÜ 2 Mechanics II HÜ 1 Mechanics II I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Mechanics I VL 2 Mechanics II VL 2 Mechanics II HÜ 2 Mechanics I UE 2 Mechanics I UE 2 Mechanics II HÜ 1 Mechanics II HÜ 2 Mechanics II HÜ 2 Mechanics II VL 2 Mathematics II Linear Algebra II VL 2 Programming in C VL 1 Programming in C VL 1 Programming in C VL 1 Physics for Engineers VL 2 Physics for Engineers VL 2 Physics for Engineers VL 2 Physics for Engineers VL 2 Physics for Engineers VL 2 Mechanical Engineering Mathematics II Linear Algebra II VL 2 Programming in C VL 1 Physics for Engineers VL 2 Physics for Engineers VL 2 Physical Computational Fluid VL 2 Physical Computational	Mechanics I UE 2 Mechanics I UE 2 Mechanics I UE 2 Mechanics I UE 2 Mechanics II UE 2 Mechanica IE I Linear Algebra II UE 1 Linear Algebra II UE 1 Programming in C Programming	Mechanics I UE 2 Mechanics I UE 2 Mechanical Engineering VE 3 Mechanical Engineering VE 3 Mechanical Engineering VE 4 Mechanical Engineering VE 1 Mechanical Engineering VE 3 Mechanical Engineering PE 3 Physics for Engineers VE 3 Physics for Engineers VE 3 Mechanical Science 1 Physics

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