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

Sample course plan B Bachelor General Engineering Science (English program, 7 semester) (GESBS(7)) Specialisation Energy and Environmental Engineering

	lisation Energy and Env			ngiisii	program, 7 semester)	(02505)			Compulsory	6				
peelu	insución Energy and Env	nomene							Core qualification Elective Compulsory	Compi	alisation Elective Focus ulsory	Elective Co	mpulsory Interdisciplinary complement	
.P	Semester 1 Formurs/Watemester 2 Formurs			or i nirs/	/wsikemester 3 Formilers		s/wskemester 4 Formirs/		Stemester 5 Forthirs		s/wsieemester 6 Formirs		/wsikemester 7 Formirs	
	Chemistry (GES)		Technical		Technical		Mechanical Enginee	ring:	Introduction to Contro	ы	Foundations of		Advanced Internship AIW/	
: 	Chemistry I	VL 2	Thermodynamics I		Thermodynamics II		Design (part 2)		Systems		Management		GES	
•	Chemistry II	VL 2			Technical	VL 2	Team Project Design	PBL2		'L 2	Introduction to	VL 3		
	Chemistry I	HÜ 1	Thermodynamics I		Thermodynamics II		Methodology		Control Systems		Management			
	Chemistry II	HÜ 1	Technical HI Thermodynamics I		Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	PBL3	Introduction to U Control Systems	IE 2	Management Tutoria	UE 2		
					Technical	UE 1	i loject li		Control Systems					
• ;			Thermodynamics I		Thermodynamics II		Fundamentals of							
•							Materials Science (part 2)						
							Fundamentals of Materials Science II	VL 2						
							Materials Science II							
; ,							Fundamentals of Fl	uid						
	Linear Algebra		Mathematical Analysis	5	Mathematics III		Mechanics		Heat and Mass Transfe	er	Environmental			
	Linear Algebra	VL 4	Mathematical Analysis VI	′L 4	Analysis III	VL 2	Fundamentals of Fluid Mechanics	VL 2		'L 2	Technology (part 2			
	Linear Algebra	HÜ 2	Mathematical Analysis H	IÜ 2	Analysis III	UE 1			Transfer		Practical Exercise	PR 1		
	Linear Algebra	UE 2	Mathematical Analysis Ul	JE 2	Analysis III	HÜ 1	Fluid Mechanics for Process Engineering	HÜ 2	Heat and Mass U Transfer	IE 1	Environmental Technology			
					Differential Equations	VL 2	· · · · · · · · · · · · · · · · · · ·			IÜ 1				
,)					1				Transfer	10 1	Particle Technolog	y and		
.0					Differential Equations	UE 1					Solids Process Engineering			
1					Differential Equations	<u>ый 1</u>					Particle Technology I	VL 2		
2					1	110 1	Electrical Machines				Particle Technology I			
.3							Actuators	anu	Thermal Separation		Particle Technology I			
4							Electrical Machines	VL 3	Processes					
5	Electrical Engineering I		Electrical Engineering II Mechan		Machanica III (CEC)		and Actuators Electrical Machines HÜ 2	Thermal Separation V Processes	'L 2	Environmental Technology				
6	Electrical Engineering	VL 3	Electrical Engineering VI	′L 3	Mechanics III	HÜ 1		10 2		IE 2	Environmental	VL 2		
	I		Ш		Mechanics III	UE 2			Processes		Assessment			
	Electrical Engineering	UE 2	Electrical Engineering UI	JE 2	Mechanics III	VL 3			Thermal Separation H Processes	IÜ 1	Environmental Assessment	UE 1		
7									Separation Processes Pl	R 1	Process and Plant			
8							Renewables and En	ergy			Engineering I			
9							Systems		Measurement Technol	ogy	Process and Plant	VL 2	Bachelor Thesis	
0							Renewable Energy	VL 2	for Mechanical Engine		Engineering I			
1	Mechanics I (GES)		Mechanics II (GES)		Computer Engineeri	ng	Energy Systems and	VL 2		'L 2	Process and Plant	HÜ 1		
2	Mechanics I	VL 2	Mechanics II VI	′L 2	Computer Engineering	VL 3	Energy Industry		Technology for Mechanical		Engineering I			
	Mechanics I	HÜ 3	Mechanics II H	IÜ 2	Computer Engineering	UE 1	Power Industry	VL 1	Engineering		Process and Plant Engineering I	UE 1		
							Renewable Energy	UE 1		IÜ 1	Lighteening			

Core gualification

Compulsory

Specialisation Compulsory Focus Compulsory

Thesis Compulsory

24				
25				
26				
27	Programming in C		Fundamentals of	Mechanical Engineering:
28		/L 1	Mechanical Engineering	Design (part 1)
		PR 1	(GES) Fundamentals of VL 2	Embodiment Design VL 2 and 3D-CAD
29	Physics for Engineers (GES)		Mechanical Engineering	Mechanical Design PBL3 Project I
30	Physics for Engineers V	/L 2	Fundamentals of UE 2 Mechanical	Fundamentals of
31	Physics for Engineers	JE 1	Engineering	Materials Science (part 1)
32				Fundamentals of VL 2
33				Materials Science I
				Physical and Chemical VL 2 Basics of Materials Science

Mechanical Engineering			
Practical Course: Measurement and Control Systems	PR 2		
Environmental Technology (part 1)			
Environmental Technologie	VL 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.