

Curriculum Bachelor Environmental, Process & Energy Engineering

Semester Credit Units | ECTS-Credits

	1	2	3	4	5	6
ENVIRONMENTAL- & ENERGY ENGINEERING						
Chemistry Laboratory		3 4				
Green Chemistry		3 3				
Water Supply and Disposal			2 3			
Renewable Energies I: Wind & Solar		2 3				
Renewable Energies II: Hydropower			2 2			
Renewable Energies III: Biomass					2 3	
Thermal Process Engineering				2 3		
Technical Thermodynamics				3 4		
Air Pollution Control				2 3		
Biological Process Engineering					2 2	
PROCESS ENGINEERING						
Process Engineering Laboratory			2 3	3 5	2 3	
Apparatus Engineering			1 2			
Measurement Technology for Process Plants			1 1			
Chemical Process Engineering			3 4			
Plant Automation				2 3		
Process Technology				1 2		
Waste and Resource Management				2 2		
Mechanical Process Engineering				2 3	1 2	
Process Simulation					2 3	
Project Planning for Plants					3 4	
Plant Engineering					2 3	
FUNDAMENTALS: MATHEMATICS, NATURAL SCIENCES						
Fundamentals of Mathematics	4 5					
Introduction to Physics	3 5					
Introduction to Chemistry	4 5					
Mathematical Specialization		4 5				
FUNDAMENTALS OF ENGINEERING						
Engineering Mechanics	2 3					
Design Engineering	2 2					
Structure of Matter	1 1					
Introduction to Biology	1 1					
Materials Engineering	2 3					
Basics of Programming		2 2				
Thermodynamics		2 3	2 3			
Electrical Engineering		3 4				
Electrical Engineering Laboratory		1 1				
Fluidynamics			3 4			
Material and Energy Balances			1 1			
Mathematical Practice			2 2			
BUSINESS, MANAGEMENT & KEY COMPETENCES						
Good Scientific Practice	1 2					
Sustainable Development Goals	1 1					
Sustainable Process Technology		1 1				
English	1 1	1 1	1 1	1 1		
Technology-based Entrepreneurship: From the Idea to the Startup	1 1	1 1	1 1	1 1	1 1	
Fundamentals of Economics & Management for Engineers		1 2				
Rhetoric & Presentation Skills			1 1			
Strategic and Operative Marketing			2 2			
Quality and Environmental Management				2 2		
Fundamentals of Law				1 1		
Process and Project Management					2 2	
Operational Accounting/Controlling					2 2	
INTERDISCIPLINARY ELECTIVE						
Interdisciplinary Elective: Current Topic					3 5	
BACHELOR THESIS & INTERNSHIP						
Bachelor Thesis						12
Bachelor Exam						1
Seminar Bachelor Thesis						2 2
Internship						15
SEMESTER CREDIT UNITS ECTS-CREDITS	23 30	24 30	24 30	22 30	22 30	2 30