## Curriculum

			Credit Units   I	
	1	2	3	4
PROCESS ENGEERING				
Process Control	2   <b>2</b>			
Reaction Engineering	2   3			
Heat & Mass Transfer	3   4			
Matlab in Engineering	1   1			
Revision Course in Process Technology	4   10			
Conceptual Process Design & Simulation		2   4		
Plantwide Control		2   <b>3</b>		
Apparatus Engineering		2   <b>3</b>		
Solid Process Engineering – Particle Technology		2   <b>3</b>		
Advanced Thermal Process Technology		2   <b>2</b>		
Plant Safety			2   <b>2</b>	
Plant Engineering			2   3	
Computational Fluid Dynamics – Theory			1   2	
Computational Fluid Dynamics - Simulation			2   3	
Interdisciplinary Project			3   10	
BEYOND ENGINEERING				
Regulations & Standards in Process Engineering	1   1			
Legal Aspects of Engineering	1   1			
Business Economics	2   3			
Academic Writing		1   1		
Design of Experiments		1   2		
Ethics		1   1		
Literature Seminar		1   1		
PLANT ENGINEERING & OPERATIONS				
Strength of Materials	2   <b>2.5</b>			
Process Integration		1   1		
Plant Automation		1   1		
Materials Handling & Logistics		2   3		
Plant Design Project		,	4   5	
CHEMICAL ENGINEERING	0105			
Polymer Chemistry	2   <b>2,5</b>			
Advanced Industrial Chemistry		2   <b>2,5</b>		
Advanced Catalysis		2   <b>2,5</b>		
Chemical Technology Seminar			1   1	
Chemical Product Design & Development			1   1	
Industrial Scale-Up			1   2	
Field Trip			1   1	
ENERGY ENGINEERING				
Energy Storage	1   1.25			
Electrochemical Energy Storage & Conversion	1   1.25			
Power & Smart Grids	, ,	2   2.25		
Energy Conversion Technologies & Synthetic Bio-Fuels		2   2.25		
Renewable Energy Systems		2   2.20	2   2.25	
Heating & Cooling Technology			2   2.25	
			2 / 2.20	
ENVIRONMENTAL ENGINEERING				
Waste Engineering	1   1.25			
Noise Control	1   1.25			
Groundwater, Advanced Water Engineering & Reuse		3   4		
Life Cycle Assessment		1   1		
Membrane Technology			2   2.25	
Flow & Transport in Environmental Engineering			2   2.25	
MASTER'S THESIS				
Master's Seminar				2   5
Master's Thesis				25
				23
SEMESTER CREDIT UNITS   ECTS-CREDITS	20   <b>30</b>	22   <b>30</b>	18   <b>30</b>	2   <b>30</b>