Curriculum of Process Equipment and Control Engineering

(Note: CP-Credit Point, S-Semester, L-Lecture, P-Practice, W-Week)		Type	CP	Hours	S1	S2	S3	S4	S5	S6	S7	S8
Competence fields	**Module**				CP	CP	CP	CP	CP	CP	CP	CP
Mathematics, Physics and Chemistry	Calculus(1)	L	6	96	6							
	Calculus(2)	L	6	96		6						
	Linear Algebra	L	2	32		2						
	Probability Theory and Mathematical Statistics	L	3	48			3					
	College Chemistry	L&P	6	96	6							
	College Physics (1)	L&P	5	80		5						
	College Physics (2)	L&P	5	80			5					
Informatics	Information Technology	L&P	2	32	2							
	Introduction to Computer	L	3	48		3						
	Program Design and Practice	L&P	3	48			3					
Engineering Fundamentals	Fundamentals of Engineering Drawing	L	4	64	4							
	Electrical Engineering and Electronics	L&P	6	96		6						
	Mechanics of Materials	L&P	6	96		6						
	Theoretical Mechanics	L	6	96			6					
	Fundamentals of Engineering Materials	L&P	4	64			4					
	Mechancial Engineering Drawing	L&P	6	96				6				
	Engineering Thermodynamics	L&P	6	96				6				
	Machine Design	L&P	6	96				6				
	Engineering Fluid Mechanics	L&P	6	96				6				
	Process Control Theory	L&P	6	96					6			
	Heat Transfer	L&P	6	96					6			
	Introduction to Process Equipment and Control Engineering	L	4	64					4			

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Competence fields	**Module**				CP	CP	CP	CP	CP	CP	CP	CP
Engineering Applications	Safety Technology of Process Equipment	L	3	48			3					
	Computer Modeling Practice	L&P	3	48				3				
	Measurement and Control Technology of Power Engineering	L&P	6	96					6			
	Process Principle and Equipment	L&P	6	96					6			
	Seal Technology of Process Equipment	L	6	96						6		
	Design of Process Equipment	L&P	6	96						6		
	Process Fluid Machinery	L&P	6	96						6		
	Control Technology and Application of Process Equipment	L&P	3	48						3		
	Chemical Drawing	L	3	48						3		
	Fabrication and Examination of Process Equipment	L&P	6	96							6	
Electives	Chemical Reaction Engineering	L	3	48						6		
	Chemical Process Technique	L	3	48								
	Process System Identification and Simulation	L&P	3	48								
	Energy Management	L	3	48								
	Process Analysis and Integration	L	3	48							12	
	FEM Numerical Simulation	L&P	3	48								
	CFD Numerical Simulation	L&P	3	48								
	Complete Set Technology of Process Equipment	L	3	48								
	Water Treatment Engineering	L	3	48								
	Equipment Fault Diagnosis	L	3	48								
	Fundamental English	L&P	2	48	2							
	Intensive English	L&P	2	48		2						

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Competence fields	**Module**				CP	CP	CP	CP	CP	CP	CP	CP
Foreign Language	Interactive Practical English	L&P	2	48			2					
	Reading and Writing in Technical English	L&P	2	48			2					
	Interactive Comprehensive English	L&P	2	48				2				
General Courses	Ideological,Moral Cultivation and Law Basis	L	1	32	1							
	Introduction to China's Modern and Contemporary History	L	1	32	1							
	Introduction to Basic Principles of Marxism	L	1	32	1							
	Introduction to Mao Zedong Thoughts and the Theoretical System of Socialism with Chinese Characteristics	L	2	48	2							
	Social Practice	P	1	32	1							
	Military Theories	L	1	32	1							
	Military Training	P	1	2W	1							
	Physical Education(1)	p	1	32	1							
	Physical Education(2)	p	1	32		1						
	Physical Education(3)	p	1	32			1					
	Physical Education(4)	P	1	32				1				
Practical Training	Metalworking Practice	P	3	3W					3			
	Comprehensive Experiment	P	4	4W							4	
	Professional Comprehensive Course Design	P	4	4W							4	
	Innovation and Entrepreneurship Project Training	L&P	4	4W							4	
	Internship	P	14	10W								14
Bachelor Thesis	Bachelor Thesis	L&P	16	12W								16
SUM=240	**ECTS PER SEMESTER**				29	31	29	30	31	30	30	30