



## Faculty of Petroleum Refining and Petrochemistry

### Study Program: Computer Aided Chemical Engineering Applied in Refineries and Petrochemistry

Study period: 1,5 years Bachelor  
 Academic year structure: 2 semesters (14 weeks per semester)  
 Examination sessions: winter session (January/February)  
 summer session (June/July)  
 Total ECTS: 90

Courses per year (C-course, S-seminar, L-Laboratory, P-project)

#### 1<sup>st</sup> YEAR

No	Course	1 <sup>st</sup> Semester					2 <sup>nd</sup> Semester				
		C	S	L	P	ECTS	C	S	L	P	ECTS
1	Modelling and Simulation of Transfer Processes	3	-	3	-	6					
2	Advanced Control of Chemical Processes	3	-	1	-	5					
3	Modelling and Simulation of Chemical Reactions and Reactors	3	-	3	-	6					
4	Advanced Control of Chemical Processes - Project	-	-	-	3	3					
5	Project Management in Chemical Industry	3	-	2	-	6					
	Raw materials, Processes and Products in Petroleum Refining Industry										
6	Professional Practical Training 1	-	-	-	-	4					
7	Dynamic Simulation of Chemical Processes						3	-	3	-	6
8	Optimization of Chemical Processes						3	-	2	-	6
9	Conceptual Design of Chemical Processes						3	-	2	-	6
10	Conceptual Design of Chemical Processes - Project						-	-	-	3	3
11	3D Design of Industry Plants						3	-	2	-	5
	Manufacturing Technologies for Alternatives Fuels										
12	Professional Practical Training 2						-	-	-	-	4



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### 2<sup>nd</sup> YEAR

No	Course	1 <sup>st</sup> Semester				
		C	S	L	P	ECTS
1	Pinch Method Applied in Chemical Engineering	3	-	2	3	6
2	Computer Graphics in Chemical Engineering	2	-	2	2	5
3	Computers Utilization Chemical Processes Control	3	-	2	-	6
4	Optimization of Chemical Processes - Project	-	-	-	3	3
5	Academic Ethics and Integrity	2	1	-	-	3
6	Dissertation Project training (4 weeks x 30 hours )	-	-	-	-	7