



Faculty of Petroleum Refining and Petrochemistry

Study Program: Petroleum Processing and Petrochemistry

Study period: 4 years Bachelor
 Academic year structure: 2 semesters (14 weeks per semester)
 Examination sessions: winter session (January/February)
 summer session (June/July)
 Total ECTS: 240 (+4)

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

1st YEAR

No	Course	1 st Semester					2 nd Semester				
		C	S	L	P	ECTS	C	S	L	P	ECTS
1	Linear algebra, analytical and differential geometry	3	2	-	-	6					
2	Chemistry 1	4	-	2	-	7					
3	Analytical Chemistry	2	-	2	-	6					
4	Computer Programming and Programming Languages	2	-	2	-	4					
5	Physics 1	2	-	2	-	5					
6	Physical Education 1	-	1	-	-	1					
7	Foreign Languages 1	-	2	-	-	2					
8	Mathematical Analysis						2	3	-	-	7
9	Chemistry 2						2	-	2	-	6
10	Instrumental Analysis 1						2	-	3	-	5
11	Economics						2	1	-	-	3
12	Physical Education 2						-	1	-	-	1
13	Computer Aided Graphics						-	2	-	-	2
14	Physics 2						2	-	2	-	5
15	Foreign Languages 2						-	2	-	-	2

2nd YEAR

No	Course	1 st Semester					2 nd Semester				
		C	S	L	P	ECTS	C	S	L	P	ECTS
1	Organic chemistry 1	4	-	2	-	7					
2	Physical chemistry 1	2	1	2	-	5					
3	Instrumental Analysis 2	2	-	2	-	4					
4	Physical-Chemistry of Petroleum	3	-	3	-	6					
5	Electrotechnics and Electronics	1	-	1	-	3					
6	Electrochemistry	1	-	1	-	3					
7	Physical education 3	-	1	-	-	1					
8	Foreign Languages 3	-	2	-	-	2					
9	Organic chemistry 2						4	-	2	-	6
10	Physical chemistry 2						3	-	2	-	5
11	Numerical Methods						2	-	2	-	3
12	Industrial catalysis and catalysts						2	-	2	-	4



Faculty of Petroleum Refining and Petrochemistry

13	Pollution Prevention and Environmental Protection						2	-	-	-	2
14	Physical education 4						-	1	-	-	1
16	Strength of Materials						2	-	2	-	4
17	Foreign Languages 4						-	2	-	-	2
18	Industrial Training 1 (3 weeks x 30 hours)						-	-	-	-	4

3rd YEAR

No	Course	1 st Semester					2 nd Semester				
		C	S	L	P	ECTS	C	S	L	P	ECTS
1	Petroleum Distillation Technology	3	-	2	-	5					
2	Elements of Mechanical Engineering	2	-	1	-	4					
3	Elements of Mechanical Engineering-Project	-	-	-	1	2					
4	Fluid Dynamics	2	-	2	-	5					
5	Reaction Engineering and Chemical Reactors	3		3	-	6					
6	Heat Transfer Processes 1	3		2	-	5					
7	Corrosion in Petroleum Industry and Petrochemistry	2	-	2	-	3					
8	Petroleum Distillation Technology-Project						-	-	-	1	2
9	Mass Transfer Processes 1						3	-	3	-	5
10	Heat Transfer Processes 2						3	-	2	-	5
11	Thermocatalytical Processes in Petroleum Industry 1						3	-	3	-	5
12	Petrochemical Technology 1						3	-	3	-	5
13	Process Control in the Chemical Industry 1						2	-	2	-	4
14	Industrial Training 2 (3 weeks x 30 hours)						-	-	-	-	4

4th YEAR

No	Course	1 st Semester					2 nd Semester				
		C	S	L	P	ECTS	C	S	L	P	ECTS
1	Thermocatalytical Processes in Petroleum Industry 2	3	-	3	-	5					
2	Thermocatalytical Processes in Petroleum Industry 3-Project	-	-	-	1	2					
3	Petrochemical Technology 2	2	-	2	-	5					
4	Mass Transfer Processes 2	3	-	3	-	6					
5	Heat Transfer Processes 3-Project	-	-	-	1	2					
6	Management and Marketing	2	1	-	-	3					
7	Process Control in the Chemical Industry 2	2	-	2	-	4					
8	Thermoenergetics	2	-	1	-	3					
9	Mass Transfer Processes 3-Project						-	-	-	1	2



Faculty of Petroleum Refining and Petrochemistry

10	Petrochemical Technology 3- Project						-	-	-	1	2
11	Organic Technical Compounds						3	-	2	-	4
12	Lube oils Manufacturing Technology						4	-	3	-	5
13	A. Complex Schemes in Petroleum Processing						3	-	2	-	4
	A. Unconventional energy conversion technologies										
14	B. Computer-aided chemical engineering						3	-	2	-	5
	B. Modeling and Simulation of Chemical Processes										
15	Elaboration of Diploma Project						-	-	-	4	4
16	Diploma Project Industrial Training (2 weeks)						-	-	-	-	4