

Standard Master program in Chemistry (Petrochemistry)

(Dated October 29th, 2015)

The total minimum required number of credits:	64 credits
- General courses (required):	07 credits
- Fundamental and core courses:	39 credits
+ Required:	18 credits
+ Elective:	21/46 credits
- Master thesis:	18 credits

Available curriculum

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
I		General courses	7				
1	PHI5001	<i>Philosophy</i>	3	30	15	0	
2	ENG5001	<i>General English</i>	4	30	30	0	
II		Fundamental and core courses					
II.1.		Required	18				
3	ENG 6001	<i>English for Academic Purposes</i>	3	45	0	0	
4	CHE6000	<i>Chemometrics</i>	3	45	0	0	
5	CHE6001	<i>Quantum method in Chemistry</i>	3	35	10	0	
6	CHE6002	<i>Modern Methods for Structure Analysis</i>	3	35	0	10	
7	CHE6600	<i>Surface Chemistry and heterogenous catalysis</i>	3	45	0	0	
8	CHE6601	<i>Catalysis in Petrochemistry</i>	3	45	0	0	
II.2.		Elective	21/46				
9	CHE6602	<i>Industrial catalytic processes</i>	3	45	0	0	
10	CHE6603	<i>Chemistry of catalysis</i>	3	45	0	0	

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
11	CHE6604	<i>Chemistry of petrochemical process</i>	3	45	0	0	
12	CHE6605	<i>Thermodynamics applied in petrochemical industry</i>	3	45	0	0	
13	CHE6606	<i>Physical methods for analysis of petroleum products</i>	2	30	0	0	
14	CHE6607	Chemistry and Surfactant Chemistry	2	30	0	0	
15	CHE6608	Upgrading heavy petroleum processing	2	30	0	0	
16	CHE6609	<i>Polimer materials and application</i>	2	30	0	0	
17	CHE6610	<i>Pollution control in petrochemical industry</i>	2	30	0	0	
18	CHE6611	<i>Fuels</i>	2	30	0	0	
19	CHE6612	<i>Computational Catalysis</i>	2	30	0	0	
20	CHE6613	<i>Advanced Practicals</i>	2	30	0	0	
21	CHE6503	<i>Industrial chemical processes</i>	3	45	0	0	
22	CHE6504	<i>Simulation of Chemical Engineering Processes</i>	3	45	0	0	
23	CHE6505	<i>Process control</i>	3	45	0	0	
24	CHE6703	<i>Fundamentals of Industrial Wastes</i>	3	45	0	0	
25	CHE6704	<i>Environmental Engineering</i>	3	45	0	0	
26	CHE6705	<i>Environmental Pollution and Control in Chemical Process Industries</i>	3	45	0	0	
III	CHE7206	Master Thesis	18				
		Total	64				

