PhD program in Petrochemistry (2013)

The total minimum required number of credits: 104 credits

- Coursework: 24 credits
  - + Basic courses: 12 credits
    - Required: 09 credits
    - Elective: 3/9 credits
  - + Advanced foreign languages for academic purposes: 04 credits
  - + Advanced courses: 06 credits
  - + Overview: 02 credits
- Research
- PhD Thesis: 80 credits

Available curriculum :

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	*Practice*	*Self-study*	
I	**Part 1. Coursework**						
I.1	**Basic courses**		**12**				
I.1.1	***Required***		***9***				
1	CHE8110	*Shape selectivity theory in petrochemistry and refinery*	3	30	15		
2	CHE8111	*Adsorption*	3	30	15		
3	CHE8112	*Infrared technique for characterizing catalysts*	3	30	15		
I.1.2	***Elective***		***3/9***				
4	CHE8113	*Chemistry of Catalysis*	3	30	15		

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	*Practice*	*Self-study*	
5	CHE8114	*Fischer-Tropsch Synthesis*	3	30	15		
6	CHE8115	B*iofuels*	3	30	15		
I.2	**Advanced foreign languages for academic purposes**		**4**				
7	ENG8001	*Advanced English for Academic Purposes*	4			60	
I.3	**Advanced courses**		**6/18**				
8	CHE8116	*Technology for treatment of organic pollution*	3	30	15		
9	CHE8117	*Heterogeneous Catalysis and Characteristic methods for solid catalysts*	3	30	15		
10	CHE8118	*Polymer materials and application*	3	30	15		
11	CHE8119	*Lubrificants and additives*	3	30	15		
12	CHE8120	*Clean energy: Basic and Technology*	3	30	15		
13	CHE8121	*Pollution control in petrochemical industry*	3	30	15		
I.4	**Overview**		**2**				
14	CHE8122	Overview	2			30	
II	**Part 2. Research (research planning, publishing …)**						
III	**Part 3. Doctoral Thesis**						
15	CHE9005	Doctoral Thesis	80				
		Total	**104**				