

## Standard Master program in Chemistry (Organic Chemistry)

(Dated October 29<sup>th</sup>, 2015)

The total minimum required number of credits:	<b>64 credits</b>
- General courses (required):	<b>07 credits</b>
- Fundamental and core courses:	<b>39 credits</b>
+ Required:	<b>18 credits</b>
+ Elective:	<b>21/44 credits</b>
- Master thesis:	<b>18 credits</b>

### Available curriculum

	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
<b>I</b>		<b>General courses</b>	<b>7</b>				
1	PHI5001	<i>Philosophy</i>	3	30	15	0	
2	ENG5001	<i>General English</i>	4	30	30	0	
<b>II</b>		<b>Fundamental and core courses</b>					
<b>II.1.</b>		<b>Required</b>	<b>18</b>				
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	CHE6200	<i>Selected Topics in Organic Chemistry</i>	2	30	0	0	
8	CHE6201	<i>Advanced Organic Chemistry Catalysis</i>	2	30	0	0	
9	CHE6202	<i>Heterocyclic Chemistry</i>	2	30	0	0	
<b>II.2.</b>		<b>Elective</b>	<b>21/44</b>				

	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
10	CHE6203	<i>Organometallic chemistry of Transition Metals</i>	3	30	0	15	
11	CHE6204	<i>Selected Topics in Organic Synthesis</i>	3	30	0	15	
12	CHE6205	<i>Selected Topics in Natural Product Chemistry</i>	3	30	0	15	
13	CHE6206	<i>Selected topics of modern spectroscopies in organic chemistry</i>	3	30	0	15	
14	CHE6207	<i>Physico – Chemical methods in quantitative analysis organic chemistry</i>	3	35	5	5	
15	CHE6208	<i>Chemistry of Surfactants</i>	3	30	0	15	
16	CHE6209	<i>Molecular Design</i>	3	30	0	15	
17	CHE6210	<i>Biosynthesis of biologically active natural products</i>	3	30	0	15	
18	CHE6100	<i>Advanced complex chemistry</i>	3	45	0	0	
19	CHE6105	<i>Inorganic biochemistry</i>	3	45	0	0	
20	CHE6302	<i>Separation methods and Chromatography in analytical chemistry</i>	2	30	0	0	
21	CHE6310	<i>Analytical methods of kinetic catalytic</i>	3	45	0	0	
22	CHE6403	<i>Chemical kinetics and catalysis</i>	3	30	15	0	
23	CHE6405	<i>Methods for the Synthesis of polymers and copolymers with controlled architectures</i>	3	35	0	10	
24	CHE6409	<i>Molecular structure and bioactivity</i>	3	35	10	0	
<b>III</b>	CHE7203	<b>Master Thesis</b>	<b>18</b>				
		<b>Total</b>	<b>64</b>				



