Course ID: HODOA17	**Course name: CHEMISTRY OF ORGANOMETALLIC COMPOUNDS - SELECTED CHAPTERS**		
Cycle: THIRD	**Year: FIRST**	**Semester: I**	**ECTS credits: 7**
Course status: ELECTIVE		**Total course hours: 45** Lectures: 30 Laboratory: 15	
Teaching participants:	**Teachers and associates with expertise in the field to which the subject belongs**		
Prerequisite for enrollment:	-		
Course aims:	Study of the structure, reactivity and application of organometallic compounds within organometallic chemistry of main groups metals and the organometallic chemistry of transition metals		
Thematic course units:	1. Classification of organometallic compounds. 2. The nature of the chemical bond in organometallic compounds. 3. Basic aspects of structure and metal-carbon bonds. 4. Organometallic compounds of main group metals. Structure and reactivity. 5. Chemistry of lithium and aluminum. 6. Methods of preparation of organometallic compounds of main group metals. 7. Organometallic compounds of transition metals. Systematization and typical reactions. 8. Selection of important ligands in terms of their structure, binding and reactivity. 9. Reactions that take place on the metal and reactions on the ligands. 10. Catalytic reactions: homogeneous and heterogeneous catalysis. 11. Interpretation of selected synthetic pathways in inorganic chemistry		
Assessment methods and grading system[1]:	Grading criteria Criteria — Maximal score — Required score		

[1] The grading structure for each subject is determined by the Council of the organizational unit before the beginning of the academic year in which the subject is taught as per Article 64, paragraph 6 of the Law on Higher Education of Sarajevo Canton

	1. Seminar papers	30	16,5
	2. Midterms	30	16,5
	3. Final exam	40	22
	Total	100	55
	Scores and grading		
	Score	Grade (B&H)	Grade (ECTS)
	< 55	5	F, FX
	55–64	6	E
	65–74	7	D
	75–84	8	C
	85–94	9	B
	95–100	10	A
Literature[2]:	Supplementary literature: 1. Gary O. Spessard and Gary L. Miessler: Organometallic Chemistry, Prentice Hall, New Jersey, 1996. 2. Ch. Elschenbroich, Organometallics, 3rd Ed., Wiley & VCH, Weinheim, 2006. 3. J. Hartwig, Organotransition Metal Chemistry – from Bonding to Catalysis, University Science Books, Sausalito, California, 2010. 4. R. H. Crabtree, The Organometallic Chemistry of the Transition Metals, 4th Ed., John Wiley & Sons, New York, 2005. 5. Original scientific papers		

[2] The Senate of the higher education institution, as an institution, or the Council of the organizational unit of the higher education institution, as a public institution, determines by a special decision, which is published on its website before the beginning of the academic year obligatory, mandatory and recommended textbooks and manuals, as well as other recommended literature based on which exams are prepared and taken as per Article 56, paragraph 3 of the Law on Higher Education of the Sarajevo Canton