



Form SP2

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UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

Course ID: HDOB23	Cour	ourse name: SELECTED BIOANALYTICAL METHODS			
Cycle: THIRD	Year	: FIRST	Semester: II	ECTS cre	dits: 15
Course status: ELECTIVE			Total course hours: 90 Lectures: 45 Laboratory: 45		
Teaching participants:		Teachers and associates with expertise in the field of bioanalytical chemistry			
Prerequisite for enrollment:		-			
Course aims:		•	the students voice of quantification cromolecules (protection)	of simple bio	molecules and
Thematic course units:		Optical tests for determination of catalytic concentration of the enzymes. Application of fluorimetry in biochemical analyses. Application of luminometry in biochemical analyses. Luminiscent immunochemistry. Application of chromatography methods (HPLC-ED, HPLC-UV/VIS, HPLC-FI). Bioanalytical chemistry of signal substances, neurotransmitters and neuromodulators. Methods for isolation of DNA and RNA.			
Teaching methodo	logy:	Classroom lectures and laboratory exercises.			
Assessment metho and grading systen			Criteria endance ivities s s	ng criteria Maximal score 20 40 40 100 I grading Grade (B&H) 5 6 7	Required score 11 22 22 55 Grade (ECTS) F, FX E D C

 $^{^{1}}$ 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

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	85-94 95-100	9 10	B A			
	Mandatory literature: 1. Štraus, B., Stavljenić (1997) Analitičke te 2. Wilson, K., Walker, J					
Literature ² :	 Supplementary literature: Tymoczka, J.L., Stryer, L.W.H., Berg, J.M. (2005) Biochemistry, 5th ed., Freeman and Company/New York. Baynes, J.W., Dominiczak, M.H. (2005) Medical Biochemistry, 2nd ed., Elsevier, Mosby; Philadelphia, Edinburgh, London, NY, Oxford, St. Louis, Sydney, Toronto. 					

 $^{^2}$ 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