

Cycle: SECOND		Course name: MODERN INSTRUMENTAL METHODS IN ORGANIC CHEMISTRY				
Cycle. SLCOND	Year	: FIRST	Semester:	Ι	ECTS cr	edits: 6
Course status: ELECTIVE		Total course hours: 90 Lectures: 60 Laboratory: 30				
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs				
Prerequisite for enrollment:		-				
Course aims:	The aim of the course is to introduce students with the techniques of identification of organic compounds using instrumental methods.					
Thematic course un	 Classification of spectroscopic methods UV-Vis spectrophotometry Infrared spectroscopy Nuclear magnetic resonance spectroscopy Mass spectrometry Fluorescence spectroscopy, luminiscence, fluorescence and phosphorescence 					
Learning outcomes		<i>Knowledge:</i> Acquisition of knowledge about the principles of determining the structure of organic compounds using the most modern instrumental methods. <i>Skills:</i> Integration of spectral data (MS, IR and / or NMR) in solving the structure of organic compounds. <i>Competences:</i> The basic understanding of the principles of instrumental methods in organic chemistry.				
Teaching methodol	ogy:	Auditory lectures; Laboratory exercises				
Assessment method and grading system	ls	1. Class attr 2. Class act 3. Midterm 4. Final exa	Criteria endance ivities is im* Total	Grading cri	iteria <u>simal score</u> 5 10 45 40 100	Required score 3 5 25 22 55 Grade (ECTS)

¹The 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

Form SP2

UNIVERSITY OF SARAJEVO– FACULTY OF SCIENCE Department of Chemistry

	55-64	6	Е				
	65-74	7	D				
	75-84	8	С				
	85-94	9	В				
	95-100	10	А				
	*oral exam after student successfully completes midterms						
	Mandatory literature:						
	1. Field, L.D., Sternhell, S.,	Kalman, J.R. ((2007) Organic				
	 structures from spectra, 3rd Ed., John Wiley & Sons, Inc 2. Bruno, T.J., Svoronos, P.D.N. (2006) CRC handbook of fundamental spectroscopic correlation charts, Taylor & 						
	Francis, Inc.		, ,				
	3. Silverstein, R.M., Webst	er. F.X. Kieml	e. D.I. (2005)				
	Spectrometric identification of organic compounds, Yohn						
Literature ² :	Wiley & Sons, Inc.	in of organic co	mpounus, ronn				
Literature	Supplementary literature:						
	· · · ·						
	4. Shriner, R.L., Hermann, C.K.F., Morrill, T.C., Curtir						
	Fuson, R.C. (2004) <i>The sys</i>	,	ation of organic				
	<i>compounds,</i> 8 th Ed. Yohn W	/iley & Sons, Inc					
	5. Vogel's Textbook of Pract	ical Organic Che	mistry (5 th Ed),				
	Prentice Hall, 1996	U					
	6. Laćan, M., Šuprina, M. (19	976) Spektromet	trijske metode u				
	organskoj hemiji, Tehn						
	Zagrebu.	in initiation	c. cuchicta u				
	Lagi Chu.						

²The 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