



<b>Course ID:</b> HODOB15	<b>Course name: SELECTED CHROMATOGRAPHYC METHODS</b>		
<b>Cycle: THIRD</b>	<b>Year: FIRST</b>	<b>Semester: I</b>	<b>ECTS credits: 7</b>
<b>Course status: ELECTIVE</b>		<b>Total course hours:</b> Lectures: Laboratory:	
<b>Teaching participants:</b>	<b>Teachers and associates with expertise in the field to which the subject belongs</b>		
<b>Prerequisite for enrollment:</b>	-		
<b>Course aims:</b>	The student will WORK ON selected chromatographic methods, liquid and gas chromatography. The program includes the preparation of the tested sample for analysis, as well as the identification and quantification of the tested organic compound by various related techniques.		
<b>Thematic course units:</b>	<ol style="list-style-type: none"> <li>1. Preparation of samples for analysis</li> <li>2. Chromatographic methods (HPLC, GC)</li> <li>3. Coupled techniques for separation and analysis of organic compounds (HPLC UV/Vis, HPLC-ECD, GC-MS)</li> </ol>		
<b>Learning outcomes:</b>	<b>Knowledge:</b>  <b>Skills:</b>  <b>Competences:</b>		
<b>Teaching methodology:</b>			
<b>Assessment methods and grading system<sup>1</sup>:</b>	<b>Grading criteria</b>		
	Criteria	Maximal score	Required score
	1. Class attendance		
	2. Class activities		
	3. Seminars	1 × 50	25
	4. Final exam	50	30
	Total	100	55
<b>Scores and grading</b>			
Score	Grade (B&H)	Grade (ECTS)	

<sup>1</sup> 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

	< 55	5	F, FX
	55-64	6	E
	65-74	7	D
	75-84	8	C
	85-94	9	B
	95-100	10	A
<b>Literature<sup>2</sup>:</b>	<p><b>Mandatory literature:</b></p> <ol style="list-style-type: none"> <li>Wellings, D. A. <i>A practical handbook of preparative HPLC</i>, Elsevier, The Boulevard, Langford Lane, Kidlington, Oxford, 2006.</li> <li>McNair, H.M., Miller, J.M. <i>Basic Gas Chromatography</i>, John Wiley &amp; Sons, Inc., 1998.</li> <li>Kazakevich, Y. LoBrutto, R., <i>HPLC for pharmaceutical scientists</i>, John Wiley &amp; Sons, Inc., 2007.</li> <li>Grob, R.L., Barry, E.F., <i>Modern practice of gas chromatography</i>. John Wiley &amp; Sons, Inc., 2004.</li> <li>Francis Rouessac, Annick Rouessac, <i>Chemical Analysis: Modern Instrumentation Methods and Techniques</i>, 2nd Edition, John Wiley</li> <li>Original scientific papers</li> </ol>		

<sup>2</sup> 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