



Form SP2

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UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

Course ID: HZOII4	Cour	rse name: DATABASES IN CHEMISTRY							
Cycle: SECOND	Year	: FIRST		Semester:	I	ECTS cre	dits: 4	1	
Course status: MANDATO				Total course hours: 60 Lectures: 30 Laboratory: 30					
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs							
Prerequisite for enrollment:		-							
Course aims:		Introducing students to the way, importance and evaluation scientific publications, scientists and institutions. Search literature, database, use of specific software for chemistry.						n	
Thematic course u	nits:	 Types of scientific publications (review, evaluation of different types of publications, identification of publications, ISBN, ISSN, DOI). Publishing houses, publishing costs, open access journals. Bibliographic and citation databases (ISI Web of Science, Science Direct, CAS, Scopus, Google Scholar, etc.) Statistical evaluation of bibliographic data (evaluation of journals, scientists and institutions) Publishing in scientific journals. Ethical guidelines for publishing. Publishing strategy. Searches of databases containing data on the spectral characteristics of chemical substances (NIST, SDBS Spectral Database, etc.) Searches of bases related to the characteristics of chemical substances, harmfulness of chemicals, toxicity, etc. (MSDS, Chemical Book, etc.) Databases offering access to the structure and nomenclature of chemical compounds (IUPAC Nomenclature, ChemIDplus Advances). Software for chemistry (Isis Draw, Chem Draw, 							
Learning outcomes	S:	Knowle	edge:	Acquiring	knowled	lge about	the	way	of

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	publishing scientific papers, evaluations of scientists, institutions, journals, as well as benefits use of specific programs in the field of chemistry. Skills: The student knows how to present results of scientific work, evaluation of these results as well as the purpose of obtaining useful information through database searches.							
	Competences: The student is able to search independently							
	and critically observe the relevant scientific literature, and							
	present the results of their work as a scientific publication.							
Teaching methodology:	Auditory lectures and laboratory exercises							
	Grading criteria							
	Criteria	Maximal score	Required score					
	1. Class attendance	5	3					
	2. Class activities	10	5					
	3. Midterms 4. Final exam	45	25 22					
	- I mai onam	40	<u> </u>					
Assessment methods	Total 100 5 Scores and grading							
and grading system ¹ :			Grade Grade					
and grading system	Score	(B&H)	(ECTS)					
	< 55	5	F, FX					
	55-64	6	Е					
	65-74	7	D					
	75–84	8	С					
	85-94	9	<u>B</u>					
	95-100	10	Α					
	3.6 1 . 10	10						
Literature ² :	Heidelberg New York Dovrednovanje informacija nistraživačka mreža. 2. Vučina Ž., (2006) Pretraži CARNet-hrvatska akadem Supplementary literature 1. Bulletin of the Chem	uction to Scientific Publishing rdrecht London 2. Vučina Ž., na internetu, CARNet-hrvatska ivanje i vrednovanje informac nska i istraživačka mreža.	g, Springer (2006) Pretraživanje i a akademska i ija na internetu, osnia and					

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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

 $^{^2}$ 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

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