

Course ID: HMH205	Cour	urse name: HISTORY OF CHEMISTRY				
Cycle: FIRST	Year	: SECOND	Semester: III	ECTS credits: 2		
Course status: ELECTIVE			<b>Total course hours:</b> Lectures: 30 Laboratory: -	30		
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs				
Prerequisite for enrollment:		-				
Course aims:		Introduction chemistry as application chemistry.	to the origins and s s a natural and exact s of acquired knowled	tages of development of science, necessary for the ge in various fields of		
application         chemistry.         1.         7.         8.         7.         7.         7.         8.         9.         10.         11.         12.         13.         14.         15.         16.         17.         18.         19.         10.         11.         12.         13.         14.         14.		1. The of t 2. Beg alcl 3. Iatr 4. Tec 5. Ant 6. The 7. Per 8. Ato Mik 9. The 10. The 11. The 12. Per 13. The 14. Rac	bi acquired knowledge in various helds of the inception of chemistry as a science. Chronology the development of chemistry. eginnings of civilization. Ancient period. The era of chemy trochemistry. Pneumatic Chemistry echnical chemistry. Phlogiston theory ntoine Laurent Lavoisier ne beginnings of crystallography eriod of quantitative laws comic-molecular theory. Amedeo Avogadro. ikhail Vasilyevich Lomonosov ne development of organic chemistry ne development of inorganic chemistry eriodic Table of the Elements ne development of physical chemistry adioactivity. Structure of the atom.			
Learning outcomes	:	Knowledge: Recog devel Descr ideas Recog	gnize the contribution o opment of chemistry as ibe the emergence and and concepts fundamen gnize the scientific princ	of selected scientists to the a science development of the main ntal to chemistry; ciples within which basic		

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	chemical concents have emerged.				
	Skills.				
	<ul> <li>Skills:</li> <li>Construct a timeline of significant events in the history of chemistry</li> <li>Assess the contribution of some outdated theories (alchemy, phlogiston theory) to the development of chemistry as a science;</li> <li>Assess the connection between the development of chemistry as a science and the development of society as a whole;</li> </ul>				
	Competences:				
	<ul> <li>Explain the development of experimental verification and its importance in evaluating proposed theoretical assumptions</li> <li>Analyze the importance of experimental evidence in different periods of chemistry development</li> </ul>				
	Oral presentation				
Teaching methodology:	Discussion				
reaching methodology.	Research				
	Grading criteria				
		Criteria	Maximal score	Required score	
	1.	Class attendance	5	3	
	2.	Class activities	5	3	
	3.	Midterm	30	17	
	4.	Seminar	20	10	
	5.	Final exam	40	22	
Assessment methods		Total	100	55	
and grading system <sup>1</sup> :	Scores and grading				
0 0 0		Score	(B&H)	(ECTS)	
		< 55	5	F. FX	
		55-64	6	Ē	
		65-74	7	D	
		75-84	8	С	
		85-94	9	В	
		95-100	10	А	
T !+				-	

 $<sup>^{1}</sup>$  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

 $<sup>^2</sup>$  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

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1	<ul> <li>Janković, M. (1999). Historija hemije/ Sarajevo: Univerzitetska knjiga</li> </ul>	Povijest kemije.
2	. Gutman, I., Zejnilagić-Hajrić, M., N <i>Izabrana poglavlja iz istorije hemi</i> Prirodno-matematički fakultet u Kragu	uić, I. (2010). <i>je</i> . Kragujevac: ijevcu.

## Supplementary literature:

 Asimov, I. (1968). Kratka istorija hemije. Beograd: Naučna knjiga.

 Grdenić, D. (2001). Povijest kemije. Zagreb: Novi Liber & Školska knjiga.