

Course syllabus for First cycle studies					
1.	Course title	General and Inorganic Chemistry 1			
2.	Code	MDE1M2			
3.	Study Program	Metallurgical Digital Engineering			
4.	Study program organizer (unit, institute, department, division)				
5.	Degree (first, second, third cycle)	First degree			
6.	Academic year / semester	I semester	7.	Number of ECTS	7
8.	Instructors	Gordana Ruseska, full professor Biljana Angjuseva, full professor			
9.	Prerequisites for course enrollment	/			
10.	Objectives of the course syllabus (competences): Acquired skills (competences):				
11.	Content of the course: Chemistry as a Natural Science Types of Matter Laws for chemical combination of elements by mass Law for chemical combination of elements by volume Gas laws Modern concept of chemical element Atomic and molecular mass Electronic configuration Types of chemical bonds (ionic, covalent and metallic bonds) Thermochemical equations (heat effects of chemical processes) Rate of chemical reaction				
12.	Study methods:				
13.	Total available time				
14.	Allocation of available time				
15.	Teaching activities	15.1.	Lectures	45 hours	
		15.2.	Labotatory and Classroom Exercises	45 hours	
16.	Other types of activities	16.1.	Project Tasks	20 hours	
		16.2.	Independent Tasks	40 hours	
		16.3.	Homework	90 hours	
17.	Grading system				
	17.1.				
	17.2.				
	17.3.				
18.	Grading criteria	Up to 61 points			5 (five) (F)

	(points/grade)	From 61 to 69 points	6 (six) (E)				
		From 70 to 79 points	7 (seven) (D)				
		from 80 to 89 points	8 (eight) (C)				
		From 90 to 95 points	9 (nine) (B)				
		from 95 to 100 points	10 (ten) (A)				
19.	Prerequisites for taking the final exam						
20.	Language in which lectures are conducted						
21.	Method for monitoring the quality of lectures						
22.	LITERATURE						
	22.1.	Compulsory literature					
		No.	Author	Title	Publisher	Year	
		1.	N.N. Greenwood A. Earnshaw	Chemistry of the elements (Second Edition) ISBN: 978075063 3659		1997	
		2.	Raymond Chang, Jason Overby ISBN:978007 6812141	CHEMISTRY Edition 13	MC graw Hill Education	2018	
		3.					
	22.2.	Additional literature					
		No.	Author	Title	Publisher	Year	
		1.	A. Smith	Intro- duction to general inorganic chemistry	2012		
		2.					
3.							