

Course syllabus for First cycle studies					
1.	<b>Course title</b>	<b>Workplace safety in metallurgy</b>			
2.	<b>Code</b>	MDE7M5			
3.	<b>Study Program</b>	Metallurgical Digital Engineering			
4.	<b>Study program organizer (unit, institute, department, division)</b>	Faculty of Technology and Metallurgy			
5.	<b>Degree (first, second, third cycle)</b>	first			
6.	<b>Academic year / semester</b>	Fourth	7.	<b>Number of ECTS</b> <b>4</b>	Seventh semester
8.	<b>Instructors</b>	Dr. Goran Nachevski, full professor			
9.	<b>Prerequisites for course enrollment</b>				
10.	<b>Objectives of the course syllabus (competences):</b>  The aim of the course is for students to gain theoretical knowledge on occupational safety in metallurgy.				
	<b>Acquired skills (competences):</b>				
11.	<b>Content of the course:</b> General concepts of occupational safety. Legal regulations. Organization of production, the workplace, control, and maintenance of production equipment. The impact of metallurgical processes on workplace and environmental pollution. Criteria for assessing the source of pollution. Occupational safety with machinery and equipment. Personal protective equipment. Protection from the harmful effects of electrical energy, both direct and indirect contact. Protection from noise and vibrations. Safety during transportation. Climate control and ventilation. Protection against fires, explosions, and radiation. Lighting systems.				
12.	<b>Study methods:</b>				
13.	<b>Total available time</b>	150			
14.	<b>Allocation of available time</b>				
15.	<b>Teaching activities</b>	15.1.	Lectures - theoretical teaching. classes	30	
		15.2.	Exercises (laboratory, lecture), seminars, teamwork: classes	30	
		15.3.	Practice: classes	0	
16.	<b>Other types of activities</b>	16.1.	Project tasks: classes	15	
		16.2.	Independent tasks: lessons	15	
		16.3.	Homework - assignments	60	
17.	<b>Grading system</b>				
	17.1.	Tests: points			80
	17.2.	Seminar paper/project, written and oral presentation: points			10
	17.3.	Final exam: points			10
18.	<b>Grading criteria</b>	Up to 61 points		5 (five) (F)	

	<b>(points/grade)</b>	From 61 to 69 points	6 (six) (E)			
		From 70 to 79 points	7 (seven) (D)			
		from 80 to 89 points	8 (eight) (S)			
		From 90 to 95 points	9 (nine) (B)			
		from 95 to 100 points	10 (ten) (A)			
19.	<b>Prerequisites for taking the final exam</b>					
20.	<b>Language in which lectures are conducted</b>					
21.	<b>Method for monitoring the quality of lectures</b>					
22.	<b>LITERATURE</b>					
	22.1.	Compulsory literature				
		No.	Author	Title	Publisher	Year
		1.	G.Nachevski	Workplace safety in metallurgy, Internal Script	TMF, Skopje	2011
		2.	K. M. Hangos , I. T. Cameron	Personal Protective Equipment for Work	Institute for Occupational Safety Documentation,	1979
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
		1.		Labor Relations Law	Official Gazette of the Republic of Macedonia 62/05, 106/08, 161/08	2005
		2.				
		3.				