COURSE GUIDE – short form

Academic year 2021-2022

Course name		Metallic Materials (3)			Course code		3.SM.09.DS		
Course type	DS	Category	DI	Year of study	3	Semester	6	Number of credit points	4

Faculty	Materials Science and Engineering	Number of teaching and learning hours					
Field	Materials Engineering		С	S	L	Р	SI
Specialization	Materials Science	100	28	-	28	-	44

Pre-requisites from the curriculum	Compulsory	-
	Recommended	-

General objective	Using criteria and evaluation methods fundamental to the identification, modeling, analysis and assessment of qualitative and quantitative phenomena, processes and theories characteristic, and to process and interpret the results of specific processes nonferrous alloys;
Specific objectives	Acquiring basic knowledge about the phenomena and processes that take place in the development of non-ferrous alloys. Solve and explain problems of medium complexity regarding the processing, structural aspects, properties and industrial applications of non-ferrous metals and alloys.
Course description	Metals and non-ferrous alloys. Physico-chemical processes in the processing of non-ferrous metals and alloys. Alloys refining. Copper and its alloys. Nickel and its alloys. Aluminum and its alloys. Magnesium and its alloys. Tin, lead and their alloys. Specific methods of obtaining, refining and casting.

	Percentage in the final grade (minimum grade)			
	Class tests along the semester	-		
	Home works	-		
A. Final	Other activities	-		
assessment form ¹ : Exam	Examination procedures and conditions: 1.Subject with open questions; tasks: answers to open questions; working conditions: oral; percent of the final grade 50 % 2.Subject with open questions; tasks: answers to open questions; working conditions: oral; percent of the final grade 50 %		exam period	70 % (minimum 5)
B. Seminar	Activity during seminar			-
C. Laboratory Activity during laboratory				30 % (minimum 5)
D. Project	roject Activity during project			

Course organizer	Professor dr.eng. Romeu CHELARIU	
Teaching assistants	Assistant dr. ing. Elena Ionela CHERECHEȘ	