C O U R S E G U I D E – s h o r t f o r m

Academic year 2021-2022

Course name[1]	**Advanced Sintered Materials**					Course code		MATAEIA202	
Course type[2]	DA	Category[3]	DI	Year of study	2	Semester	3	Number of credit points	5

Faculty	Materials Science and Engineering	Number of teaching and learning hours[4]					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	Advanced Materials and Experimental Analysis Techniques	125	14	-	14	-	97

Pre-requisites from the curriculum[5]		
	Compulsory	-
	Recommended	-

General objective [6]	The knowledge of the sintering process, of the mechanisms that lead to obtaining sintered materials with properties appropriate to the purpose.
Specific objectives[7]	• Processes and mechanisms involved in obtaining advanced sintered materials. • Structural characterization of advanced sintered materials.
Course description[8]	Thermodynamics and kinetics of the sintering process. Theories and models of densification. Evolution of microstructure. Liquid phase sintering. Aluminum sintered materials. Titanium sintered materials.

Assesment			Sche-dule[9]	Percentage in the final grade (minimum grade)[10]
A. Final assessment form [11]: **Colloquium**	Class tests along the semester	-		70 % (minimum 5)
	Home works	-		
	Other activities	-		
	Examination procedures and conditions: 1. Subject with open questions; tasks: answer to open questions; working conditions: oral; percent of the final grade 100 %	100 % (minimum 5)	14th week	
B. Seminar	Activity during seminar			-
C. Laboratory	Acttvity during laboratory			30 % (minimum 5)
D. Project	Activity during project			-

Course organizer	Prof. dr. eng. Romeu Chelariu	
Teaching assistants	Prof. dr. eng. Romeu Chelariu	

[1]Course name from the curriculum
[2] DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)
[3] DI – imposed, DO –optional, DL – facultative (from the curriculum)
[4] Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form (L-lecture, T-tutorial, LB-laboratory works, P-project, IS-individual study)
[5] According to 4.1 – Pre-requisites - from the Course guide – extended form
[6] According to 7.1 from the Course guide – extended form
[7] According to 7.2 from the Course guide – extended form
[8] Short description of the course, according to point 8 from the Course guide – extended form
[9] For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period
[10] A minimum grade might be imposed for some assessment stages
[11] Exam or colloquium