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

Academic year 2024-2025

Course name[1]	MATERIALS FOR SPECIAL APPLICATIONS 2					Course code		4.SM.14.DS-1	
Course type[2]	DS	Category[3]	DO	Year of study	IV	Semester	7	Number of credit points	3

Faculty	Materials Science and Engineering	Number of teaching and learning hours[4]					
Field	Materials engineering	Total	L	T	LB	P	IS
Specialization	Materials science	75	28	-	14	-	33

Pre-requisites from the curriculum[5]	Compulsory	not necessary
	Recommended	Physical Metallurgy

General objective [6]	Understanding the science of shape memory materials properties and the technology of obtaining them.
Specific objectives[7]	• Learning theoretical knowledge related to physical and chemical phenomena, based on inteligent materials proprieties. • Achieving the ability to research and analyze inteligent materials using a variety of research methods.
Course description[8]	Phase transformations in shape memory alloys Characteristics and properties of shape memory alloys Obtaining shape memory alloys Applications of shape memory alloys

Assesment			Sche-dule[9]	Percentage in the final grade (minimum grade)[10]
A. Final assessment form [11]: Colloquium	Class tests along the semester	%		50%
	Home works	%		
	Other activities	%		
	Examination procedures and conditions: Probe 1: Oral Examination. The Exam Question papers contains two questions, with a closed answer, equal weight.	100%		
B. Seminar	Activity during seminar			0%
C. Laboratory	Acttvity during laboratory			50 %
D. Project	Activity during project			0%

Course organizer	Prof. dr. eng. Sergiu STANCIU	
Teaching assistants	Prof. dr. eng. Sergiu STANCIU	

[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