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

Academic year 2016-2017

Course name[1]	INTELIGENT MATERIALS					Course code			
Course type[2]	OD	Category[3]		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	42	28		14		

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

Assessment		Schedule[9]	Percentage of the final grade (minimum grade)[10]
Continuous assessment	Class tests along the semester		%
	Activity during tutorials/laboratory works/projects/practical work	Practical test – 1h	50%
	Assignments		%
Final assessment	Final assessment form[11]		50%
	Examination procedures and conditions: 1. ; tasks ; working conditions ; percent of the final grade % 2. ; tasks ; working conditions ; percent of the final grade % 3.		

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