

# COURSE GUIDE – short form

Academic year 2017-2018

Course name <sup>1</sup>	NON-METALLIC SHAPE MEMORY MATERIALS					Course code		5MATAE DO 08	
Course type <sup>2</sup>	DS	Category <sup>3</sup>	DO	Year of study	5	Semester	2	No of credit points	6

Faculty	Materials Science and Engineering	Number of teaching and learning hours <sup>4</sup>					
Field	Materials Engineering	Total	C	S	L	P	SI
Specialization	MATAE	112	28	-	14	-	70

Pre-requisites from the curriculum	Mandatory	-
	Recommended	-

Course objective <sup>5</sup>	Presenting the structure, the properties, the main obtainment and processing methods as well as the best known applications of the four categories of non-metallic shape memory materials.
Specific objectives <sup>6</sup>	(i) introducing the main processing technologies of these materials; (ii) introducing the most effective and well known applications of non-metallic shape memory materials; (iii) conveying a theoretical background meant to provide the understanding of micro and macroscopic mechanisms that govern the characteristic phenomena of non-metallic shape memory materials.
Course description <sup>7</sup>	General characterization of non-metallic shape memory materials, shape memory alloys, ceramics, polymers, composites and hybrids

Assessment system		Schedule <sup>8</sup>	Percentage of the final grade (minimum grade) <sup>9</sup>
Continuous assessment	Class tests during the semester	Week 1, 8	
	Activity during tutorials/laboratory works/projects/practical work	Week.1-14	20 %
	Specialty home works	Week. 14	20 %
Final assessment	Final assessment form <sup>10</sup>	Exam	60 %
	Tasks and their development conditions: Written exam under the form of grid test with 40 questions, each one with 4 variants among which one correct		

Course tenant	Prof.univ.dr.ing. Leandru-Gheorghe BUJOREANU
Tenant of applications	Asist.univ.ing. Elena MIHALACHE

<sup>1</sup> Course name from the curriculum

<sup>2</sup> DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

<sup>3</sup> DI – imposed, DO –optional, DL – facultative (from the curriculum)

<sup>4</sup> Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form

<sup>5</sup> According to 7.1 from the Course guide – extended form

<sup>6</sup> According to 7.2 from the Course guide – extended form

<sup>7</sup> Short description of the course, according to point 8 from the Course guide – extended form

<sup>8</sup> For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

<sup>9</sup> A minimum grade might be imposed for some assessment stages

<sup>10</sup> Exam or colloquium