

COURSE GUIDE – short form

Academic year 2018 - 2019

Course name ¹	NANOSTRUCTURED MATERIALS BY SEVERE PLASTIC DEFORMATION					Codul disciplinei		1 MATAE 03	
Course type ²	DS	Category ³	DI	Year of study	1M	Semester	1	Number of credit points	6

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴						
Field	Materials Engineering	Total	L	T	LB	P	IS	
Specialization	MATAE	150	28	-	28	-	94	

Pre-requisites from the curriculum ⁵	Compulsory	Theoretical basis of plastic deformation
	Recommended	

General objective ⁶	Communication of new knowledge in the field of high performance materials for new products and processes by integrating nanotechnology Top-Down (severe plastic deformation) and nanostructured materials in existing processes
Specific objectives ⁷	Knowledge and application of technologies and nanostructuring by severe plastic deformation analysis of the effects on the properties induced by ultrafined grain
Course description ⁸	Top-Down nanotechnologies for obtaining nanostructured materials - severe plastic deformation (DPS); Characterization of nanostructured materials / CLASS finished; Finishing and structural stability obtained by DPS.

Assessment		Schedule ⁹		Percentage of the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ exam	Class tests along the semester	50 %	week 10	50 % (minimum 5)
	Home works	%		
	Other activities	%	week	
	Examination procedures and conditions: 1. Subject with closed questions, working conditions oral, percent 50 %; 2. Subject with open questions, working conditions oral, percent 50 %;	50 % (minimum 5)	exam period	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Activity during laboratory			50 % (minimum 5)
D. Project	Activity during project			% (minimum 5)

Course organizer	prof.dr.eng. Radu COMĂNECI	
Teaching assistants	prof.dr.eng. Radu COMĂNECI	

¹Course name from the curriculum

²DF – fundamental, DD – in the field, DS – specialty, DC – complementary (from the curriculum)

³DI – imposed, DO – optional, DL – facultative (from the curriculum)

⁴Points 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)

⁵According to 4.1 – Pre-requisites - from the Course guide – extended form

⁶According to 7.1 from the Course guide – extended form

⁷According to 7.2 from the Course guide – extended form

⁸Short description of the course, according to point 8 from the Course guide – extended form

⁹For 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