

COURSE GUIDE – short form

Academic year 2018 - 2019

Course name ¹	NANOTECHNOLOGIES					Codul disciplinei		4 IPM 09		
Course type ²	DS	Category ³	DO	Year of study	4	Semester	7	Number of credit points	4	

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	IPM	100	28	-	14	-	58

Pre-requisites from the curriculum ⁵	Compulsory	Theoretical basis of plastic deformation, Physics, Analysis in Materials Engineering
	Recommended	

General objective ⁶	Knowledge of nanotechnologies and material processing to obtain nanostructured semifinished products obtained by severe plastic deformation.
Specific objectives ⁷	Knowledge, analysis, design and efficient and appropriate use of Top-Down and Bottom-Up nanotechnologies.
Course description ⁸	Nanomaterials, nanoscale, nanostructured materials, Top-Down and Bottom-Up technologies

Assessment		Schedule ⁹		Percentage of the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ colloquium	Class tests along the semester	50 %	week 10	50 % (minimum 5)
	Home works	%		
	Other activities	%	week	
	Examination procedures and conditions: 1. Subject with open questions, working conditions oral, percent 100 %; 2. -, working conditions -, percent %;	50 % (minimum 5)	week 14	
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

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