

# COURSE GUIDE – short form

Academic year 2017 - 2018

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

Faculty	Material Science and Engineering	Number of teaching and learning hours <sup>4</sup>					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	MATAE	<b>56</b>	<b>28</b>	-	<b>28</b>	-	

Pre-requisites from the curriculum <sup>5</sup>	Compulsory	Theoretical basis of plastic deformation
	Recommended	

General objective <sup>6</sup>	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 <sup>7</sup>	Knowledge and application of technologies and nanostructuring by severe plastic deformation analysis of the effects on the properties induced by ultrafined grain
Course description <sup>8</sup>	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 <sup>9</sup>	Percentage of the final grade (minimum grade) <sup>10</sup>
Continuous assessment	Class tests along the semester -	week	%
	Activity during tutorials/laboratory works/projects/practical work		50 %
	Assignments -	week	%
Final assessment	Final assessment form <sup>11</sup>   exam	exam period	50 % (minimum 5)
	Examination procedures and conditions: 1. Subject with closed questions ; tasks answer to closed questions ; working conditions oral; percent 50 %; 2. Subject with open questions ; tasks thematic approach ; working conditions oral; percent 50 %; 3. - ; tasks - ; working conditions -; percent %;		

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Teaching assistants	<b>assist.dr.eng. Cătălin ȚUGUI</b>

<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 (L-lecture, T-tutorial, LB-laboratory works, P-project, IS-individual study)

<sup>5</sup> According to 4.1 – Pre-requisites - from the Course guide – extended form

<sup>6</sup> According to 7.1 from the Course guide – extended form

<sup>7</sup> According to 7.2 from the Course guide – extended form

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

<sup>9</sup> For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

<sup>10</sup> A minimum grade might be imposed for some assessment stages

<sup>11</sup> Exam or colloquium