

# COURSE GUIDE – short form

Academic year 2018-2019

Course name <sup>1</sup>	Simulation and experiment applied to stresses and strains analysis (1)					Course code	1 MATAE DS08		
Course type <sup>2</sup>	DID	Category <sup>3</sup>	DI	Year of study	I	Semester	2	Number of credit points	5

Faculty	Faculty of Materials Science and Engineering	Number of teaching and learning hours <sup>4</sup>					
Field	Materials engineering	Total	L	T	LB	P	IS
Specialization	MATAE	42	28		14		83

Pre-requisites from the curriculum <sup>5</sup>	Compulsory	
	Recommended	

General objective <sup>6</sup>	Introducing the appropriate mathematical instruments in order to define stress and strain state generated during forming
Specific objectives <sup>7</sup>	<ul style="list-style-type: none"> <li>Give of the needed data related to model the forming processes of the advanced materials.</li> </ul>
Course description <sup>8</sup>	Stress field, strain field, link between those into advanced materials forming process. Forming of the advanced materials. Basic concepts related to finite element analysis.

Assesment			Schedule <sup>9</sup>	Percentage in the final grade (minimum grade) <sup>10</sup>	
A. Final assessment form <sup>11</sup> :	Class tests along the semester	10%	week7	60% (minimum 5)	
	Home works	%			
	Other activities	%			
Exam / Colloquium	Colloquium	50% (minimum 5)	Session		
B. Seminar	Activity during seminar				% (minimum 5)
C. Laboratory	Acttivity during laboratory				40% (minimum 5)
D. Project	Activity during project			% (minimum 5)	

Course organizer	Prof. PhD. Eng. Costică BEJINARIU	
Teaching assistants	Assist. PhD. Eng. Alin Marian CAZAC	

<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

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

<sup>11</sup> Exam or colloquium