COURSE GUIDE - short form

Academic year 2021 - 2022

Course name ¹	UNCON PLASTI	UNCONVENTIONAL TECHNOLOGIES FOR PLASTIC DEFORMATION (1)				Discipline c	code	SITM IA 102	
Course type ²	DA	Category ³	DI	Year of study	1	Semester	1	Number of credit points 4	

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴						
Field	Field Mechanical Engineering			T	LB	P	IS	
Specialization	SITM	28	14	•	14	ı	68	

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	

General objective ⁶	Developing professional and transversal competences required for the application and proper use of unconventional technologies of plastic deformation.			
Specific objectives ⁷	Unconventional technologies of plastic deformation with pressure mediums, high speeds, magnetic energy, thermal activation, by electro-hydraulic effect and gas expansion; Unconventional technologies of plastic deformation for advanced materials.			
Course description ⁸	Deep-drawing with liquid and gaseous medium pressure, hydrostatic extrusion, plastic deformation with explosives, plastic processing by by expanding gases, processing by electromagnetic forming, deep-drawing by heating or cryogenic cooling the workpiece.			

Assessment		Schedule ⁹		Percentage of the final grade (minimum grade) ¹⁰		
	Class to	ests along the semester	20 %	week 9		
	Home	works	%			
A. Final	Other a	activities	week	90.0/		
assessment form 11 colloquium	1. Su conditi 2, v	nation procedures and conditions: bject with closed questions, working ons computer, percent 100 %; working conditions -, percent %; working conditions -, percent %	80 % (minimum 5)	week 14	80 % (minimum 5)	
B. Seminar Activity during seminar				% (minimum 5)		
C. Laboratory Activity during laboratory				20 % (minimum 5)		
D. Project Activity during project			% (minimum 5)			
Course organizer Professor, Ph.D., Eng. Dorin LUCA						
Teaching assistants Professor, Ph.D., Eng. Dorin LUCA						

¹Course name from the curriculum

² DF – fundamental, DD – 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
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