

# COURSE GUIDE – short form

Academic year 2021 - 2022

Course name <sup>1</sup>	<b>UNCONVENTIONAL MATERIALS TECHNIQUES FOR PROCESSING PLASTIC DEFORMATION</b>					Discipline code	TAIPM IA 108		
Course type <sup>2</sup>	<b>DA</b>	Category <sup>3</sup>	<b>DI</b>	Year of study	1M	Semester	<b>2</b>	Number of credit points	<b>4</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	TAIPM	<b>42</b>	<b>28</b>	-	<b>14</b>	-	

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

General objective <sup>6</sup>	Presenting and deepening so-called cutting-edge techniques or advanced techniques of plastic deformation materials worldwide, some of which are currently going beyond the experimental stage at the laboratory level, others being already applied in industrial practice. in highly developed countries.
Specific objectives <sup>7</sup>	Presentation and knowledge of plastic processing with ultraacoustic activation, plastic processing by electroreflection, high speed molding, plastic processing by magnetofforming, by orbital forging, by electrohydraulic deformation, by incremental deformation.
Course description <sup>8</sup>	Introduction. Processing by plastic deformation of metallic materials with ultrasonic vibrations, by electrorefulare, by high speed molding, by magnetofmare, by plastic deformation by forging orbital, by plastic deformation electropressing, by plastic deformation incremental sheet metal.

Assessment		Schedule <sup>9</sup>		Percentage of the final grade (minimum grade) <sup>10</sup>
A. Final assessment form <sup>11</sup> colloquium	Class tests along the semester	%	week	60 % (minimum 5)
	Home works	40 %		
	Other activities	%	week	
	Examination procedures and conditions: 1. Subject with open questions, working conditions oral, percent 100 %; 2. -, working conditions -, percent %; 3. -, working conditions -, percent %	60 % (minimum 5)	week 14	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Activity during laboratory			40 % (minimum 5)
D. Project	Activity during project			% (minimum 5)
Course organizer	<b>Lecturer Ph.D. Eng. Manuela-Cristina PERJU</b>			
Teaching assistants	<b>Lecturer Ph.D. Eng. Manuela-Cristina PERJU</b>			

<sup>1</sup>Course name from the curriculum

<sup>2</sup> DF – fundamental, DD – 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

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<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