COURSE GUIDE - short form

Academic year 2024-2025

Course name ¹	TECH	NVENTIONA NIQUES FOR RMATION		TERIALS CESSING PLAST	TIC	Course	code	TAIPM IA 108	
Course type ²	DA	Category ³	DI	Year of study	1	Semester		Number of credit points	4

Faculty	Material Science and Engineering Number of			of teaching and learning hours ⁴				
Field Materials Engineering		Total	L	Т	LB	Р	IS	
Specialization	Specialization TAIPM		28	-	14	ı	58	

Pre-requisites from the	Compulsory	Not applicable
curriculum ⁵	Recommended	Not applicable

General objective ⁶	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 ⁷	Presentation and knowledge of plastic processing with ultraacoustic activation, plastic processing by electroreflection, high speed molding, plastic processing by magnetoforming, by orbital forging, by electrohydraulic deformation, by incremental deformation.
Course description ⁸	Introduction. Processing by plastic deformation of metallic materials with ultrasonic vibrations, by electrorefulare, by high speed molding, by magnetoformare, by plastic deformation by forging orbital, by plastic deformation electropressing, by plastic deformation incremental sheet metal.

	Assesment		Sche- dule ⁹	Percentage of the final grade (minimum grade) ¹⁰
	Class tests along the semester	%		
A. Final	Home works 1	40%		
assessment	Other activities	%		60%
form ¹¹ : Colloquium	Examination procedures and conditions: Probe 1: working conditions - oral; percent of the final grade 100%;	60% (mini- mum grade 5)	Week 14	(minimum 5)
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory Activity during laboratory				40% (minimum 5)
D. Project Activity during project				% (minimum 5)

Course organizer	Lecturer Ph.D. Eng. Manuela-Cristina PERJU	
Teaching assistants	Lecturer Ph.D. Eng. Manuela-Cristina PERJU	

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