

COURSE GUIDE – short form

Academic year 2024 - 2025

Course name ¹	BASES OF EXPERIMENTAL RESEARCH					Discipline code	4 SM 16			
Course type ²	DD	Category ³	DO	Year of study	4	Semester	8	Number of credit points	5	

Faculty	Material Science and Engineering					Number of teaching and learning hours ⁴					
Field	Materials Engineering					Total	L	T	LB	P	IS
Specialization	SM					125	28	-	-	28	69

Pre-requisites from the curriculum ⁵	Compulsory	-
	Recommended	-

General objective ⁶	Establishing a technological route for obtaining molded parts, respecting all the structural requirements and properties imposed on the material, as well as a maximum efficiency of all the equipment used.
Specific objectives ⁷	Knowledge of materials that can mold. Knowing the officials processing equipment and elements of their place in a polling. Knowledge of economic efficiency at operating at full capacity in terms of quality, compliance with environmental rules and those for safety.
Course description ⁸	Methodological basis of design and technical documentation content. The main stages of design. Organization of production in cutting plastic deformation in cutting heat treatment, casting. Organization and storage of raw materials supply and transport inter-operational. Organization of maintenance and repair.

Assessment		Schedule ⁹		Percentage of the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ exam	Class tests along the semester	%	week	50 % (minimum 5)
	Home works	%		
	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 %	100 % (minimum 5)	exam period	
B. Seminar	Activity during seminar		% (minimum 5)	
C. Laboratory	Activity during laboratory		% (minimum 5)	
D. Project	Activity during project		50 % (minimum 5)	
Course organizer	Lecturer Ph.D. Eng. Cătălin-Andrei ȚUGUI			
Teaching assistants	Lecturer Ph.D. Eng. Cătălin-Andrei ȚUGUI			

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