C O U R S E G U I D E – s h o r t f o r m

Academic year 2024-2025

Course name	**MICRO AND NANOMECHANICAL MATERIALS SYSTEMS**					Course code		MATAE IA 105	
Course type	DID	Category	DI	Year of study	1	Semester	1	Number of credit points	4

Faculty	Materials Science and Engineering	Number of teaching and learning hours					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	Advanced materials and experimental analysis techniques	100	14		14		72

Pre-requisites from the curriculum	Compulsory	
	Recommended	

General objective	Discipline "Micro And Nanomechanical Materials Systems " presents the current general trend regarding the obtaining of advanced materials with special properties.
Specific objectives	Discipline aims, besides forming a systemic thinking, is the making of a link between the theoretical and the practical side in the processing of materials at a nanometric level by specific technologies. This provides a flexibility of thinking and acting to the student, specialist defining features of a market economy.
Course description	Constitutive thin layers from micro and nanomechanical structures. Micromechanical structures typical production processes. Micromechanical systems. Nanoprocessing systems. Nanomechanical systems

Assesment			Sche-dule[1]	Percentage in the final grade (minimum grade)[2]
A. Final assessment form [3]: Colloquium	Class tests along the semester	40%	Week 7	70% (minimum 5)
	Home works	%	-	
	Other activities	%	-	
	Examination procedures and conditions: Probe 1: Oral examination with 2 subjects;	60% (mini-mum 5)		
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Acttvity during laboratory			30% (minimum 5)
D. Project	Activity during project			% (minimum 5)

Course organizer	Ioan Gabriel SANDU	
Teaching assistants	Ioan Gabriel SANDU	

[1] For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

[2] A minimum grade might be imposed for some assessment stages

[3] Exam or colloquium