

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 ¹	Crystallographies and Mineralogies					Course code	2.IMAT.03. DD		
Course type ²	DID	Category ³	DI	Year of study	2	Semester	3	Number of credit points	4

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴						
Field	Materials Engineering	Total	L	T	LB	P	IS	
Specialization	Materials Processing Engineering	100	28		14		58	

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	

General objective ⁶	The objectives of the course are to ensure that the students acquire the concepts and language of the discipline of crystallography and mineralogy. Identification and recognition of crystals and minerals based on physical properties.
Specific objectives ⁷	Approaching the causal relationships between the structure, chemical composition and physical properties of crystals and minerals. Realization of technical graphic representations of medium complexity with the specification of technical conditions
Course description ⁸	Crystal symmetry. Classification of crystals. Analytical representation of crystals. Crystal shapes. Stereographic projection of crystals. Macle. The composition and chemical formulas of minerals.orphism and mineral isomorphism. Physical properties of minerals. Classification of minerals.

Assesment			Schedule ⁹	Percentage in the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ :	Class tests along the semester	30%	Week 7	70%
	Examination procedures and conditions: Exam, Oral examination;Two subjects; percent of the final grade 50% per subject;	70%	Exam period	
C. Laboratory	Activity during laboratory: Weeks 1-14			30%

Course organizer	Lecturer PhD. Eng. Vasile MANOLE
Teaching assistants	Lecturer PhD. Eng. Vasile MANOLE

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

⁹For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

¹⁰A minimum grade might be imposed for some assessment stages

¹¹Exam or colloquium