COURSE GUIDE - short form

Academic year 2024-2025

Course name ¹ PROFESSIONAL PRACTICE					Course code			TAIPM PA 106			
Cours	se type ²	DI	Category ³	DS	Year of study	1	Semester	1	(Number of credit points	

Faculty	/ Waterials Science and Engineering				ching and learning burs⁴			
Field	Materials Engineering	Total	L	Т	LB	Р	IS	
Specialization	ТАІРМ	175			175			

Pre-requisites from the	Compulsory	Not the case
curriculum⁵	Recommended	Not the case

General objective ⁶	Development of professional skills in the field of materials investigation to support professional training.
Specific objectives ⁷	 Adequate and efficient use of foundational knowledge, criteria, and methods specific to the field of Materials Science. Cognitive (knowledge and appropriate use of concepts specific to the field): Understanding the design and manufacturing processes for thermal and mechanical elements in materials engineering; Knowledge of terms and concepts specific to thermal and mechanical systems in materials engineering; Principles underlying the manufacturing and functioning of thermal and mechanical systems in materials engineering; Criteria for selecting thermal and mechanical systems in materials engineering. Performance and reliability of thermal and mechanical systems in materials engineering. Explanation and Interpretation (explanation and interpretation of ideas, projects, processes, and theoretical and practical content of the discipline): Interdisciplinary phenomena involved in thermal and mechanical systems in materials engineering; Developing the ability to use and apply interdisciplinary knowledge; Performance of thermal and mechanical systems in materials engineering based on functional-constructive solutions. Technical/Professional (design and evaluation of specific practical activities; use of investigation and application methods, techniques, and tools): Ability to relate theoretical knowledge to practice; Capability to compare and select thermal and mechanical systems in materials engineering; Ability to maintain and repair devices containing thermal and mechanical systems in materials engineering; Ability to maintain and repair devices containing thermal and mechanical systems in materials engineering; Ability to maintain
Course description ⁸	Chapter I: Workplace Safety Training and Company Overview Chapter II: Mechanical Testing and Chemical Analysis Laboratories Chapter III: Technological Processes

	Assesment		Sche- dule ⁹	Percentage of the final grade (minimum grade) ¹⁰	
	Class tests along the semester	%			
A. Final	Home works	%			
assessment	Other activities	%			
form ¹¹ : Colloquium	Examination procedures and conditions: Final Evaluation:	% (mini- mum grade 5)		% (minimum 5)	
B. Seminar Activity during seminar				% (minimum 5)	
C. Laboratory Acttvity during laboratory				100% (minimum 5)	
D. Project	% (minimum 5)				

Course organizer		
Teaching assistants	Professor Ph.D. Eng. Petrică VIZUREANU	

¹Course name from the curriculum

¹¹ Exam or colloquium

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, Pproject, 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