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]	**FUNCTIONAL LAYERS**					Course code		MATAE IA 102	
Course type[2]	DID	Category[3]	DA	Year of study	I	Semester	1	Number of credit points	5

Faculty	MATERIALS SCIENCE AND ENGINEERING	Number of teaching and learning hours[4]					
Field	MATERIALS ENGINEERING	Total	L	T	LB	P	IS
Specialization	MATAE	125	14	-	14	-	97

Pre-requisites from the curriculum[5]		
	Compulsory	Material science
	Recommended	Physics

General objective [6]	Assimilation of techniques for obtaining and analysis of functional layers
Specific objectives[7]	• The theoretical understanding of the way in which the deposition of functional material is achieved • Practical assimilation of the methods and means of achieving the layers deposited by thermal spraying processes • Theoretical and practical assimilation of methods and means for characterization of the layers deposited by thermal spraying processes
Course description[8]	Corrosion-resistant, wear-resistant deposits

Assesment			Sche-dule[9]	Percentage in the final grade (minimum grade)[10]
A. Final assessment form[11]: Exam	Class tests along the semester	%	-	60% (minimum 5)
	Home works	20%	6th, 12th week	
	Other activities	%	-	
	Examination procedures and conditions: 1 Treating a two subjects theoretic p_1 = 35%; p_2 = 35%; 2. Treating a subject practice P = 30%.	80% (mini-mum 5)	Exam period	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Acttvity during laboratory			40% (minimum 5)
D. Project	Activityduringproject			% (minimum 5)

Course organizer	Professor Habil. PhD. Eng. Stefan Lucian TOMA	
Teaching assistants	Professor Habil. PhD. Eng. Stefan Lucian TOMA	

[1]Course 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