

COURSE GUIDE – short form

Academic year 2021 - 2022

Course name ¹	MODERN SYSTEMS IN SURFACE ENGINEERING (2)					Discipline code	1 SITM 10		
Course type ²	DA	Category ³	DI	Year of study	1M	Semester	2	Number of credit points	4

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴					
Field	Mechanical Engineering	Total	L	T	LB	P	IS
Specialization	SITM	42	28	-	14	-	56

Pre-requisites from the curriculum ⁵	Compulsory	--
	Recommended	-

General objective ⁶	The establishment of functional goal and the imposed properties of metallic parts, using specialized equipments in surface engineering
Specific objectives ⁷	Techniques and equipments for surface treatment based on thin layers deposition Techniques and equipments for surface treatment based on chemical conversion
Course description ⁸	<ol style="list-style-type: none"> 1. Deposition layer concept 2. Chemical and electrochemical deposition 3. Thermal spraying deposition 4. Plating deposition 5. Deposition methods 6. CVD deposition 7. PVD deposition 8. Thin layers characterization

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 50 %; 2. -, working conditions -, percent %; 3. -, working conditions -, percent %	50 % (minimum 5)	exam period	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Activity during laboratory			50 % (minimum 5)
D. Project	Activity during project			% (minimum 5)
Course organizer	lecturer phd. eng. Achiței Dragoș			
Teaching assistants	lecturer phd. eng. Achiței Dragoș			

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