

COURSE GUIDE – short form

Academic year 2021 - 2022

Course name ¹	SURFACE ENGINEERING					Discipline code	1 TAIPM 09		
Course type ²	DA	Category ³	DI	Year of study	1	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	TAIPM					42	28	-	14	-	56

Pre-requisites from the curriculum ⁵	Compulsory	-
	Recommended	-

General objective ⁶	It is presented aspects about surface topography, surface characterization, surface corrosion, surface usage and method to improve the corrosion and usage resistance
Specific objectives ⁷	Surface layers New techniques in surface engineering
Course description ⁸	<ol style="list-style-type: none"> 1. Surface engineering concept 2. Solid surface 3. Surface layers 4. Properties of deposited layers 5. Treatment techniques of surface layers 6. Emails and ceramics depositions 7. Organic deposition layers 8. Analysis and characterization of superficial layers

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