## COURSE GUIDE – short form

Academic year 2024-2025

Course name <sup>1</sup> SURFACE ENGINEERING				Course code		TAIPM IA 109			
Course type <sup>2</sup>	DA	Category <sup>3</sup>	DI	Year of study	1	Semester	2	Number of credit points	4

Faculty	/ Material Science and Engineering		eachii hour	hing and learning urs <sup>4</sup>			
Field	Material Engineering	Total	L	Т	LB	Р	IS
Specialization	ТАІРМ	100	28	-	14	-	58

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

General objective <sup>6</sup>	It is presented aspects about surface topography, surface characterization, surface corrosion, surface usage and method to improve the corrosion and usage resistance
Specific objectives <sup>7</sup>	Surface layers New techniques in surface engineering
Course description <sup>8</sup>	<ol> <li>Surface engineering concept</li> <li>Solid surface</li> <li>Surface layers</li> <li>Properties of deposed layers</li> <li>Treatment techniques of surface layers</li> <li>Emails and ceramics depositions</li> <li>Organic deposition layers</li> <li>Analysis and characterization of superficial layers</li> </ol>

	Sche- dule <sup>9</sup>	Percentage of the final grade (minimum grade) <sup>10</sup>		
	Class tests along the semester	%		
A. Final	Home works	%		
A. Final assessment form <sup>11</sup> : Exam	Other activities	%		
	Examination procedures and conditions: Probe 1: working conditions oral; percent of the final grade 50%; Probe 2: working conditions oral; percent of the final grade 50%.	100% (mini- mum grade 5)	Exam period	50% (minimum 5)
B. Seminar Activity during seminar				% (minimum 5)
C. Laboratory Acttvity during laboratory				50% (minimum 5)
D. Project	% (minimum 5)			

Course organizer	Lecturer PhD. Eng. Dragoş-Cristian ACHIŢEI	
Teaching assistants	Lecturer PhD. Eng. Dragoş-Cristian ACHIŢEI	

<sup>3</sup> DI – imposed, DO –optional, DL – facultative (from the curriculum)

<sup>4</sup> 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)

- <sup>5</sup> According to 4.1 Pre-requisites from the Course guide extended form
- <sup>6</sup> According to 7.1 from the Course guide extended form
- <sup>7</sup> According to 7.2 from the Course guide extended form
- <sup>8</sup> 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

- <sup>10</sup> A minimum grade might be imposed for some assessment stages
- <sup>11</sup> Exam or colloquium

<sup>&</sup>lt;sup>1</sup>Course name from the curriculum

<sup>&</sup>lt;sup>2</sup> DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)