

A COURSE GUIDE – short form

Academic year 2024-2025

Course name ¹	Tribology					Course code	4ISI14DD-2			
Course type ²	DO	Category ³	DO	Year of study	IV	Semester	8	Number of credit points	4	

Faculty	MATERIALS SCIENCE AND ENGINEERING				Number of teaching and learning hours ⁴					
Field	INDUSTRIAL ENGINEERING				Total	L	T	LB	P	IS
Specialization	Security Engineering in Industry				100	42	14	-	-	44

Pre-requisites from the curriculum ⁵	Compulsory	Mechanics, Mechanisms, Resistance to Materials
	Recommended	Technical drawing

General objective ⁶	It provides students with the necessary knowledge to design and analyze the tribological surfaces, absolutely useful in training young specialists
Specific objectives ⁷	<ul style="list-style-type: none"> • Understanding the way entities are created • Achieving skills in tribological surface analysis • Achieving skills in the design of tribological surfaces.
Course description ⁸	Definition and characterization of wear patterns; Defining and characterizing elements specific to friction types

Assesment			Schedule ⁹	Percentage in the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ :	Class tests along the semester	%		50% (minimum 5)
	Home works	30%		
	Other activities	%		
	Examination procedures and conditions: 1 Treating a subject theoretic - p = 50%; 2 Supporting the portfolio of papers. P = 50%.	70% (minimum 5)	Week 14	
B. Seminar	Activity during seminar			50% (minimum 5)
C. Laboratory	Activity during laboratory			% (minimum 5)
D. Project	Activity during project			% (minimum 5)

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

¹Course name from the curriculum

²DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

³DI – imposed, DO –optional, DL – facultative (from the curriculum)

⁴Points 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)

⁵According to 4.1 – Pre-requisites - from the Course guide – extended form

⁶According to 7.1 from the Course guide – extended form

⁷According 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

⁹For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

¹⁰A minimum grade might be imposed for some assessment stages

¹¹Exam or colloquium