

COURSE GUIDE – short form

Academic year 2024 – 2025

Course name ¹	PCLP 3				Course code	2.ISI.04.DF			
Course type ²	DF	Category ³	DI	Year of study	2	Semester	3	Number of credit points	3

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				75	28	-	28	-	19

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	

General objective ⁶	<ul style="list-style-type: none"> • Mastering the matrix-working mode, specific to the Matlab application. • Writing functions and M files in Matlab. • Mastering the use of the main predefined functions in Matlab.
Specific objectives ⁷	<ul style="list-style-type: none"> • Modeling complex problems and solving them using the facilities offered by Matlab. • Learn how to create a graphical interface in Matlab. • Analysis of various toolboxes in Matlab and their use for solving practical problems. • The use of specific web design tools. • To develop design and programming skills specific to interactive sites.
Course description ⁸	<ul style="list-style-type: none"> • MATLAB programming environment, graphical interface, general commands, toolboxes. Variables, operands, operators, expressions; • Control instructions (if, elseif, switch-case, for, while). • Predefined functions in Matlab. Script files. Function files. Control functions. 2D and 3D graphics. • HTML language. Save, view, and edit an HTML document. HTML document structure. Text formatting. Tables. • Multimedia on the web page. Image attributes. Sounds on the web page. Video sequences on the web page.

Assessment			Schedule ⁹	Percentage in the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ :	Class tests along the semester	0 %		50%
	Home works	0 %		
	Other activities	0 %		
Colloquium	Examination procedures and conditions: Practical examination	100%	week 14	
B. Seminar	Activity during seminar			0%
C. Laboratory	Activity during laboratory			50%
D. Project	Activity during project			0%

Course organizer	Lecturer EngD Bogdan PRICOP
Teaching assistants	Lecturer EngD Bogdan PRICOP

¹Course 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

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