C O U R S E G U I D E – s h o r t f o r m

Academic year 2024 – 2025

Course name[1]	**PCLP 3**					Course code		**2.EPI.04.DF**	
Course type[2]	**DF**	Category[3]	**DI**	Year of study	**2**	Semester	**3**	Number of credit points	**4**

Faculty	Materials Science and Engineering	Number of teaching and learning hours[4]					
Field	Mechanical engineering	Total	L	T	LB	P	IS
Specialization	Equipment for Industrial Processes	**100**	**14**	**-**	**14**	-	**72**

Pre-requisites from the curriculum[5]	Compulsory	
	Recommended	

General objective [6]	• 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]	• 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.
Course description[8]	• 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.

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	

[1]Course 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
[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