

COURSE GUIDE – short form

Academic year 2021 – 2022

Course name ¹	PCLP 3					Course code	2IMAT04DF		
Course type ²	DF	Category ³	DI	Year of study	2	Semester	1	Number of credit points	6

Faculty	Materials Science and Engineering	Number of teaching and learning hours ⁴						
Field	Material engineering	Total	L	T	LB	P	IS	
Specialization	Materials Science	150	42	-	28	-	80	

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 %		
	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