

# COURSE GUIDE – short form

Academic year 2021 – 2022

Course name <sup>1</sup>	<b>PCLP 3</b>				Course code	<b>2ISI04DF</b>			
Course type <sup>2</sup>	<b>DF</b>	Category <sup>3</sup>	<b>DI</b>	Year of study	<b>2</b>	Semester	<b>1</b>	Number of credit points	<b>3</b>

Faculty	Materials Science and Engineering	Number of teaching and learning hours <sup>4</sup>					
Field	Industrial engineering	Total	L	T	LB	P	IS
Specialization	Security Engineering in Industry	<b>75</b>	<b>28</b>	-	<b>28</b>	-	<b>19</b>

Pre-requisites from the curriculum <sup>5</sup>	Compulsory	
	Recommended	

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

Assessment			Schedule <sup>9</sup>	Percentage in the final grade (minimum grade) <sup>10</sup>
A. Final assessment form <sup>11</sup> :	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, Assist. Ana-Maria ROMAN	

---

<sup>1</sup>Course name from the curriculum

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

<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

<sup>9</sup>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