

# COURSE GUIDE – short form

Academic year 2024-2025

Course name <sup>1</sup>	<b>MECHATRONICS AND ROBOTICS ELEMENTS</b>				Discipline code		<b>4 EPI 13</b>		
Course type <sup>2</sup>	<b>DS</b>	Category <sup>3</sup>	<b>DO</b>	Year of study	4	Semester	7	Number of credit points	<b>3</b>

Faculty	Material Science and Engineering				Number of teaching and learning hours <sup>4</sup>					
Field	Mechanical Engineering				Total	L	T	LB	P	IS
Specialization	EPI				<b>75</b>	<b>28</b>	-	<b>14</b>	-	<b>33</b>

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

General objective <sup>6</sup>	Knowledge about the developing of the metalurgical industrial robots and their usage in processes automation.
Specific objectives <sup>7</sup>	Industrial robots and equipments used in in the field of the hot processes.
Course description <sup>8</sup>	Automatic adjusment systems, industrial robots, prehession equipments, lines and calibration.

Assessment		Schedule <sup>9</sup>		Percentage of the final grade (minimum grade) <sup>10</sup>
A. Final assessment form <sup>11</sup> exam	Class tests along the semester	-	%	80 % (minimum 5)
	Home works	-	%	
	Other activities	-	%	
	Examination procedures and conditions: 1. Subject with open questions, working conditions oral, percent 100 %; 2. -, working conditions -, percent %; 3. -, working conditions -, percent %	100 % (minimum 5)	exam period	
B. Seminar	Activity during seminar			- % (minimum 5)
C. Laboratory	Acttvity during laboratory			20 % (minimum 5)
D. Project	Activity during project			- % (minimum 5)
Course organizer	<b>Lecturer Phd.Eng.ELENA CHIRILĂ</b>			
Teaching assistants	<b>Lecturer Phd.Eng.ELENA CHIRILĂ</b>			

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

<sup>2</sup> DF – fundamental, DD – 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