

# COURSE GUIDE – short form

Academic year 2024-2025

Course name <sup>1</sup>	<b>TECHNOLOGIES OF PROCESSING BY PLASTIC DEFORMATION</b>					Discipline code		<b>3 EPI 02</b>		
Course type <sup>2</sup>	<b>DS</b>	Category <sup>3</sup>	<b>DI</b>	Year of study	3	Semester	<b>5</b>	Number of credit points	<b>5</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>125</b>	<b>28</b>	-	<b>28</b>	-	<b>69</b>

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

General objective <sup>6</sup>	Knowledge of theoretical bases of plastic deformation processing; Acquiring the main technologies for processing by plastic deformation
Specific objectives <sup>7</sup>	Ability to make decisions in defined situations and accountability for their decisions and actions; Skills to use information technology, written and oral communication skills, including a foreign language movement international coordination skills team work
Course description <sup>8</sup>	Stress state, strain state, plasticity, resistance to deformation; Laws of plastic deformation; Plasticity criteria; Technologies of processing by rolling, forging, die forging, extrusion and drawing; Unconventional technologies of processing by plastic deformation

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: 1	20 %	week <b>8</b>	80 % (minimum 5)
	Home works	%		
	Other activities	%	week	
	Examination procedures and conditions: 1. Subject with closed questions, working conditions written percent 100 %; 2. -, working conditions -, percent %; 3. -, working conditions -, percent %	80 % (minimum 5)	exam period	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Activity during laboratory			20 % (minimum 5)
D. Project	Activity during project			% (minimum 5)
Course organizer	<b>Professor, Ph.D., Eng. Dorin LUCA</b>			
Teaching assistants	<b>Professor, Ph.D., Eng. Dorin LUCA</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

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<sup>10</sup> A minimum grade might be imposed for some assessment stages

<sup>11</sup> Exam or colloquium