## COURSE GUIDE – short form

Academic year 2024-2025

Course nor	nol Moto	riale with an	ooiol	opplications 4		<u> </u>		ada.	4	CM 15	200	
Course nam		e <sup>1</sup> Materials with special applications 4 Course										
Course typ	e <sup>2</sup> DS	Category <sup>3</sup>	DO	Year of study	4	Sem	ester	8		per of contemporation of contemporation of the provide the provident of the provided many series of the provide the provided many series of th	credit	5
Faculty Materials Science and Engin				e and Engineerir	ng		Number of teaching and learning hours <sup>4</sup>					
	d Materials E	Materials Engineering			Total	L	Т	LB	Р	IS		
Specialization Materials Science				125	28	-	28	-	69			
Pre-requisites curricul	Compulsory - Recommended -											
General objective <sup>6</sup>	Optimal evaluation and resolution of technical issues related to materials for the aeronautical industry by applying concepts, theories and experimental methods.											
<ul> <li>Specific objectives<sup>7</sup></li> <li>•General classification of materials for the aeronautical industry according to specific properties and fields of use.</li> <li>•Description of the main materials processing processes for the aeronautical industry.</li> <li>•Analysis of the processing-property-use relationship.</li> </ul>												
Course description <sup>8</sup>	Introduction. Aluminum alloys. Titanium alloys. Superalloys. Composites.											

	Sche- dule <sup>9</sup>	Percentage in the final grade (minimum grade) <sup>10</sup>					
A. Final assessment	Class tests along the semester -						
	Home	works	20%				
	Other activities -				70 %		
form <sup>11</sup> : Exam	Two s answe	nation procedures and conditions: subjects with open questions; tasks: ers to open questions; working ions: oral;	80 % (minimum 5)	Exam period	(minimum 5)		
B. Seminar	Activity during seminar				-		
C. Laboratory	30 % (minimum 5)						
D. Project Activity during project					-		
Course organizer Assoc.Prof. Phd.Eng. Ramona Cimpoesu							

Course organizer	Assoc.Prof. Phd.Eng. Ramona Cimpoeşu	
Teaching assistants	Assoc.Prof. Phd.Eng. Ramona Cimpoeşu	

<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>&</sup>lt;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>&</sup>lt;sup>5</sup> According to 4.1 – Pre-requisites - from the Course guide – extended form

<sup>&</sup>lt;sup>6</sup> According to 7.1 from the Course guide – extended form

<sup>&</sup>lt;sup>7</sup> According to 7.2 from the Course guide – extended form

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

<sup>&</sup>lt;sup>11</sup> Exam or colloquium