COURSE GUIDE – short form

Academic year 2024-2025

Course name ¹	Material casting procedures				Cours	de 3.IPM.08.	3.IPM.08.DS		
Course type ²	DS	Category ³	DI	Year of study	III	Semester	6	Number of credit points	6

Faculty	Materials Scienece and Engineering	Number of teaching and learning hours ⁴			ning		
Field	Materials Engineering	Total	L	Т	LB	Р	IS
Specialization	Materials Processing Engineering	150	28	-	14	28	80

Pre-requisites from the curriculum ⁵	Compulsory	-
	Recommended	-

General objective ⁶	Completing the knowledge assimilated to other disciplines with specific elements regarding the design and use of casting technologies.
Specific objectives ⁷	Obtaining appropriate knowledge and skills in the field of designing technologies for casting parts by casting. Knowing the advantages of obtaining molded parts and the possibilities of using them in the industry.
Course description ⁸	Casting of metals and metal alloys; Designing castings; The technological process of obtaining parts by casting; Technology execution cores in mixed forms and moulding; Permanent and semi-permanent moulds; Special moulding metodhes; Special casting metodhes; Determination of the humidity of the sand and the leachable component; Granulometric analysis of foundry sands; Executing test specimens for testing blending and permeability determination; Determination of the mechanical properties of the raw and dry mixes; Manual training with unsorted model; Performing forms using volatile models.

	Assessment	Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰		
	Class tests along the semester			%	
Continuous assessment	Activity during tutorials/laborate works/projects/practical work	Wk 1-14	25%+25%		
	Assignments		%		
Final assessment	Final assessment form ¹¹	Colloquy	session		
	Examination procedures and concerning 2. Closed-ended and open-er	0 %	50%		

Course organizer	Oana RUSU. Lect. Ph.D. Eng.	
Teaching assistants	Oana RUSU. Lect. Ph.D. Eng.	

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

 $^{^{9}}$ For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

¹⁰ A minimum grade might be imposed for some assessment stages

¹¹ Exam or colloquium