

COURSE GUIDE – short form

Academic year 2021-2022

Course name ¹	Procedee de turnare a materialelor					Course code	3IPM08DS		
Course type ²	DS	Category ³	DI	Year of study	III	Semester	6	Number of credit points	6

Faculty	Materials Science and Engineering	Number of teaching and learning hours ⁴					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	Materials Processing Engineering	70	28	-	14	28	74

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 methods; Special casting methods; 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
Continuous assessment	Class tests along the semester		%
	Activity during tutorials/laboratory works/projects/practical work	Wk 1-14	25%+25%
	Assignments		%
Final assessment	Final assessment form ¹¹	Colloquy session	50%
	Examination procedures and conditions: 2. întrebări cu răspuns închis și deschis; 100 %		

Course organizer	Iulian IONIȚĂ, Assoc.Prof. Ph.D. Eng.
Teaching assistants	Oana RUSU. Lect. Ph.D. Eng.

¹Course name from the curriculum

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

³DI – imposed, DO – optional, DL – facultative (from the curriculum)

⁴Points 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)

⁵According to 4.1 – Pre-requisites - from the Course guide – extended form

⁶According to 7.1 from the Course guide – extended form

⁷According to 7.2 from the Course guide – extended form

⁸Short 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