COURSE GUIDE - short form

Academic year 2017-2018

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Course name ¹	Course name ¹ Technological bases of casting					Course		se co	e code 3SM0		5DS
Course type ²	DS	Category ³	DI	Year of study	Ш	Ser	nester	6	CI	nber of redit pints	6
Faculty	Materials Scienece and Engineering				١	Number of teaching and learning hours ⁴					
Field	Field Materials Engineering			Т	otal	L	Т	LB	Р	IS	
Specialization	Materials Science				84	28		28	28	96	
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Pre-requisites from the	Co	mpulsory	•		•						
curriculum ⁵	Recor	mmended	-								

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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 molding. 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; Laboratory; Work protection; Collect, prepare and weigh the material to be analyzed; Determination of sand humidity; Determining the leachable component; Granulometric analysis; Executing test specimens; Determination of the permeability; Determination of the mechanical properties of moulding materials; Determination of mechanical strengths of moulding; Hand moulding; Manual skeleton modeling; Performing forms using volatile models; Casting into metallic shapes.

	Assessment		Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
	Class tests along the semester			%
Continuous assessment	Activity during tutorials/laborato works/projects/practical work	Wk 1-14	25%+25%	
	Assignments		%	
Final assessment	Final assessment form ¹¹		session	
	Examination procedures and conditions: 1. Oral examination; two closed questions – equal share			50%

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Ĭ	Course organizer	Assoc. Prof. Ph.D. Eng. Iulian IONIŢĂ	
Ī	Teaching	Lect. Ph.D. Eng. Bogdan PRICOP,	
	assistants	Teach, Assist, Ph.D. Eng. Oana RUSU	

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