COURSE GUIDE – short form

Academic year 2017-2018

Course name ¹	Casting processing technology					Cour	ode 3EPI01	3EPI01DS	
Course type ²	DS	Category ³	DI	Year of study	≡	Semester	5	Number of credit points	6

Faculty	/ Materials Scienece and Engineering Number of teaching an hours ⁴			4	d learning		
Field	Field (Mechanical Engineering;		L	Т	LB	Р	IS
Specialization	Specialization Equipment for industrial processing		42	-	28	28	96

Pre-requisites from the	Compulsory	-
curriculum ⁵	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	Course - 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 forms - Special moulding metodhes - Special casting metodhes Laboratory - Work protection - Collect, prepare and weigh the material to be analyzed - Determination of sand humidity - Determination of sand humidity - Determination of the permeability - 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 Project - Studio of the cast - Establishment of technological elements in order to draw up the technological drawing -Calculus and construction of the supply and massel network - Casting regime

Assessment		Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous	Class tests along the semester		%
assessment	Activity during tutorials/laboratory	Wk 1-14	50%

	works/projects/practical work			
	Assignments		%	
Final	Final assessment form ¹¹		session	
assessment	Examination procedures and conditions:		50%	
assessment	Final evaluation by examination	on 100	%.	

Course organizer	Axinte Mihai, Eng., Ph.D., Lecturer	
Teaching	Axinte Mihai, Eng., Ph.D., Lecturer	
assistants	Florea Raluca Maria, Eng., Ph.D., assistant	

¹Course name from the curriculum

¹⁰ A minimum grade might be imposed for some assessment stages

¹¹ Exam or colloquium

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, Pproject, 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