COURSE GUIDE – short form

Academic year 2017 - 2018

Course name ¹	PROPERTIES AND MATERIALS CHOICE				Codul di	inei 4 Sl	4 SM 02		
Course type ²	DID	Category ³	DI	Year of study	4	Semester	7	Number credit poi	of nts 4

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴				ng	
Field	Materials Engineering	Total	L	Т	LB	Р	IS
Specialization	SM	96	28	14	14	-	40

Pre-requisites from the curriculum ⁵	Compulsory	Physical Metallurgy, Metallic Materials Science and Engineering, Welding Metallurgy, Machine Elements
	Recommended	Mathematical Analysis, Physics, Tehnical Drawing, Materials Resistance

General objective ⁶	Evaluation and optimum solutioning of tehnical problems linked with the characterisation of materials, by applying the concepts, theories and experimental methods.
Specific objectives ⁷	Knowing the properties of materials, way of determination and practical use situations.
Course description ⁸	Physical properties, density, electric conductibility and rezistivity, superconductibility, thermal conductibility, specific heat, thermal dilatation, magnetic properties, fotoconductibility, termoelectromagnetic effets, chemical properties, static and dynamic mechanical properties (details concerning the methods of determination), technological properties and determination methods: splintering capability, quencing capability, welding capability, hot and cold deformability for metallic materials.

	Assessment	Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰	
Class tests along the semester -			week	%
Continuous assessment	Activity during tutorials/laborator questions)	continuos	50 %	
	Assignments -		week	%
	Final assessment form ¹¹	exam	exam period	
Final assessment	 Examination procedures and conditions: 1. Subject with closed questions; tasks answer to clos working conditions oral; percent 50 %; 2. Subject with closed questions; tasks answer to clos working conditions oral; percent 50 %; 3; tasks -; working conditions -; percent %; 		sed questions ; sed questions ;	50 % (minimum 5)

Course organizer	Assoc.Prof.Ph.D.Eng. Gheorghe Badarau	
Teaching assistants	Assoc.Prof. Adrian Alexandru, Tech.Assist.Ph.D.Eng. Raluca Maria Florea	

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