

COURSE GUIDE – short form

Academic year 2017-2018

Course name ¹	Materials for the aeronautical industry					Course code	4SM12DS			
Course type ²	DS	Category ³	DO	Year of study	4	Semester	8	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 Science					144	28	-	28	-	88

Pre-requisites from the curriculum ⁵	Compulsory	-
	Recommended	-

General objective ⁶	Optimal evaluation and resolution of technical issues related to materials for the aeronautical industry by applying concepts, theories and experimental methods.
Specific objectives ⁷	<ul style="list-style-type: none"> •General classification of materials for the aeronautical industry according to specific properties and fields of use. •Description of the main materials processing processes for the aeronautical industry. •Analysis of the processing-property-use relationship.
Course description ⁸	Introduction. Aluminum alloys. Titanium alloys. Superalloys. Composites.

Assessment		Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment	Class tests along the semester		-
	Activity during laboratory works	Weeks 1-14	30 %
	Assignments		-
Final assessment	Final assessment form ¹¹	exam	70 %
	Examination procedures and conditions: 1.Subject with open questions; tasks: answers to open questions;working conditions:oral;percent of the final grade 50 % 2.Subject with open questions; tasks: answers to open questions;working conditions:oral;percent of the final grade 50 %		

Course organizer	Prof. dr. eng. Romeu Chelariu
Teaching assistants	Assist. dr. 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