C O U R S E G U I D E – s h o r t f o r m

Academic year 2017-2018

Course name[1]	**Thermal analysis of metallic materials**					Course code		3SM11DS	
Course type[2]	DS	Category[3]	DO	Year of study	3	Semester	5	Number of credit points	4

Faculty	Materials Science and Engineering	Number of teaching and learning hours[4]					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	Materials Science	96	28	-	14	-	54

Pre-requisites from the curriculum[5]		
	Compulsory	-
	Recommended	-

General objective [6]	Optimal evaluation and solution of technical problems related to the thermal analysis of metallic materials by applying concepts, theories and experimental methods.
Specific objectives[7]	• Knowledge of the principles underlying the methods of thermal analysis of metallic materials. • Knowledge of methods and instruments for thermal analysis of metallic materials. • Knowledge of the main applications of thermal analysis in the field of metallic materials.
Course description[8]	Introduction. Thermal analysis and calorimetry - definitions, classifications and terminations. Characterization of measuring instruments. Characterization, interpretation and presentation of results. Differential thermal analysis and differential scanning calorimetry. Thermogravimetric analysis. Thermal analysis of metallic materials.

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]	colloquium	Week 14	70 %
	Examination procedures and conditions: 1. Subject with open questions; tasks: answer to open questions; working conditions: oral; percent of the final grade 100 %			

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

[1]Course 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