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]	**Cristalography and mineralogy**					Course code		2SM03DID	
Course type[2]	DS	Category[3]	DI	Year of study	2	Semester	3	Number of credit points	4

Faculty	Material Science and Engineering	Number of teaching and learning hours[4]					
Field	Materials Engineering, Mechanical Engineering	Total	L	T	LB	P	IS
Specialization	PME, MS	42	28		14		

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

General objective [6]	Presenting phenomena and physicochemical processes, crystallographic
Specific objectives[7]	
Course description[8]	Crystallography and its interdependence with other disciplines. Crystallographic notations. Projections and crystallographic calculations. Polyhedra repeatable symmetry. Symmetry repeatable patterns. Crystalline aggregates. The atomic structure of crystals. Imperfections in the atomic structure of crystals. The crystallization and crystal growth. Producing radiation used to analyze crystal structures. Methods for analysis of single crystals. Methods of analysis of polycrystalline aggregates structure

Assessment			Schedule[9]	Percentage of the final grade (minimum grade)[10]
Continuous assessment	Class tests along the semester		-	
	Activity during tutorials/laboratory works/projects/practical work		-	30 %
	Assignments		-	-
Final assessment	Final assessment form[11]	Exam	Session	70 %
	Examination procedures and conditions: Grid text			

Course organizer	Lect. PhD. Eng. Năstaca TIMOFTE	
Teaching assistants	Lect. PhD. Eng. Năstaca TIMOFTE	

[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