COURSE TITLE	LITHOGEOCHEMICAL SURVEY	CODE: GC 4203

LEVEL (UG-undergraduate/M-master) AND YEAR OF STUDY (1,2,3,4)	M1	SEMESTER	II	STATUS (CO-COMPULSORY/OP-OPTIONAL)	CO

NUMBER OF HOURS/ WEEK				TOTAL HOURS/ SEMESTER	TOTAL HOURS OF INDIVIDUAL WORK	CREDITS	EVALUATION TYPE (D-DURING THE SEMESTER, C-COLLOQUIUM, E-EXAM, M-MIXT)	LANGUAGE
L	S	P	Pr.					
2		2		56	184	8	E	English

LECTURER	POSITION, NAME AND SURNAME	DEPARTMENT
	PhD Assoc. Professor Emanoil Ioan Gandrabura	Geology

PREREQUISITES	Chemistry; Mineralogy; Petrology; Geochemistry

OBJECTIVES	1. To provide basic knowledge regarding the distribution of chemical elements in natural rock systems 2. To offer the theoretical and practical bases applicable in lithogeochemical research
COURSE CONTENTS	Data on the distribution of elements 1. Presentation of analytical data 2. Variation of element compositions during crystal-liquid fractional process 3. Partition coefficients in natural and artificial systems 4. Volcanic sublimates and volcanic emanations 5. Topics on metamorphic and metasomatic processes 6. Structural control of the distribution of elements
PRACTICAL	Utilization of TR data and utilization of the amount of other trace elements for petrogenetic interpretation purposes
TEACHING METHODS	Lectures, discussion, problem-solving and independent observation

RECOMMENDED READING	Faure G. (1998). Principles and Applications of Geochemistry.2 nd ed. Prentice-Hall, Inc. New Jersey., 600p. Krauskopf K.B., Bird D. (1995). Introduction to Geochemistry. 3rd ed. McGraw-Hill Inc., 647p. Rollinson H.(1993). Using Geochemical Data: evaluation, presentation, interpretation. Longman Scientific & Technical, Burnt Mill, Harllow, England, 352p.

ASSESSMENT METHODS	Conditions	Fulfilment of professional obligations (courses and practical work)
	Criteria	Cumulative evaluation
	Way of evaluation	Practical test + written examination
	Formula of the final mark	0.75 E + 0.25 P