COURSE TITLE	GEOCHEMICAL FIELD WORK	CODE: GC 4204

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.					
		4		124	174	6	C	Romanian/English

LECTURER	POSITION, NAME AND SURNAME	DEPARTMENT
	PhD Professor Gabriel Ovidiu Iancu	Geology

PREREQUISITES	Geochemistry

OBJECTIVES	Theoretical and Practical Knowledge concerning the: a) Representative geological sampling and b) Preparation of geological samples for the purpose of laboratory determinations by various methods of instrumental analysis
PRACTICAL	Geochemical sampling of rocks, minerals, soils and waters (the criterion of representativeness of samples, sample size, the management of samples). Storage of samples for various tests. Preparing samples for analysis: Grinding (minerals and rocks), tablet forming (XRF soil analysis) and concentration (liquid for XRF analysis). Sampling and processing of minerals, rocks, soils and water for the dissertation work.
TEACHING METHODS	Lectures based on video projections, discussion, problem-solving

RECOMMENDED READING	Erhan, V., Popa, Gh. (1986). Prospecţiunea geologică. Curs litografiat. Univ. „Al I. Cuza" Iaşi, 199p. Gill R. Ed. (1999) - Modern Analytical Geochemistry - An Introduction to Quantitative Chemical Analysis Techniques for Earth, Environmental and Materials Scientists. Longman, 344 p. Murariu, T. (1985). Geologia zăcămintelor de minereuri. Lucrări practice. Litografiat, Universitatea "Al. I. Cuza" Iaşi, 266p. Potts, P. J. (1987) A Handbook of Silicate Rock Analysis. New York, NY: Blackie, Chapman and Hall, 622 p. Treiber, I. (1967). Prelucrarea materialelor mineralogice şi petrografice. Ed. Didactică şi Pedagogică, Bucureşti, 472p. Van Grieken R. E., Markowicz A. A. (eds) (2002) - Handbook of X-Ray Spectrometry (2nd ed.). Marcel Dekker,Inc, New York, 984 p.

ASSESSMENT METHODS	Conditions	Fulfilment of student course and practical work obligations
	Criteria	Cumulative evaluation
	Way of evaluation	Written tests throughout the term and written examination
	Formula of the final mark	0.50 D + 0.50 E