## WEATHERING OF ROCKS

CODE: GC 4202

LEVEL (UG-undergrad	duate/M-master) Y (1,2,3,4)	M1	SEMESTER		STATUS (CO-COMF	PULSORY/OP-OPTION	NAL)	СО
NUMBER OF HOURS/ WEEK	TOTAL HOURS/ SEMESTER	TOTAL HOURS O INDIVIDUA WORK	OF AL CREDIT	гs	EVALU (D-DURING C-COLLOQ	JATION TYPE 5 THE SEMESTER, UIUM, E-EXAM, M- MIXT)	LANGL	JAGE
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LECTURER	D Reader Dan Stumbea				Geology			
PREREQUISITES Crystallography; Mineralogy; Petrology (igneous, metamorphic, sedimentary); Metallogeny; Geochemistry; Hydrogeochemistry; Biogeochemistry								
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OBJECTIVES	Knowledge of: - factors of weathering - weathering processes - weathering products - analytical methods used in the study of rock weathering - experimental approaches - evolution of magmatic and metamorphic rocks under temperate climatic conditions							
1. Factors of weathering         2. Processes of weathering (physical weathering, chemical weathering, organic weathering)         3. Weathering Products         4. Analytical methods in rock weathering approaches         COURSE         5. Experimental approaches         6. Evolution of magmatic and metamorphic rocks under temperate climatic conditions         7. Evolution of ore deposits under weathering conditions         8. Influence of weathering processes on some environmental systems (soils, sediments, waters, atmosphere)								
PRACTICAL	<ol> <li>Identifying the texture of mineralogical associations generated by weathering processes</li> <li>Identifying the mineralogical associations generated by weathering processes</li> <li>Identifying the chemical features of the mineralogical associations generated by weathering processes</li> <li>Identifying the chemical features of the mineralogical associations generated by weathering processes</li> <li>Identifying the chemical features of the mineralogical associations generated by weathering processes</li> <li>Identifying the chemical features of the mineralogical associations generated by weathering processes</li> <li>Identifying the chemical features of the mineralogical associations generated by weathering processes</li> <li>Identifying the chemical features of the mineralogical associations generated by weathering processes</li> <li>Identifying the chemical features of the mineralogical associations generated by weathering processes</li> <li>Identifying the chemical features of the mineralogical associations generated by weathering processes</li> <li>Identifying the chemical features of minerals under weathering conditions</li> <li>Experimental approaches</li> </ol>							
METHODS	Lectures, depates, learning through discovery							

	Bland, W., Rolls, D. (1998). Weathering. An Introduction to the scientific principles. Arnold, Londra, 272p.
RECOMMENDED	Pacquet, H. (1997). Soils and sediments. Springer, Berlin, 370p.
READING	Parker, A., Rae, J. E. (1998). Environmental interactions of clays. Springer, Berlin, 272p.
	Stumbea, D. (2007). Geologia zăcămintelor de minereuri. Casa Ed. "Demiurg", Iași, 209p

ASSESSMENT METHODS	Conditions	Active participation in lectures and seminars.		
	Criteria	Cumulative Evaluation		
	Way of evaluation	Written tests		
	Formula of the final mark	0.30 E + 0.70 D		