COURSE TITLE				ENVIRONMENTAL GEOCHEMICAL HAZARDS							CODE: GC 5204	
LEVEL (UG-undergrad AND YEAR OF STUD)				uate/M-master) ' (1,2,3,4)	M2 S		SEMESTER		STATUS (CO-COMPULSORY/OP-OPTI		NAL)	СО
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	
1		2		36	174	174			M		Romanian/English	
LEC	CTURE	D		POSITION, NAME AND SURNAME							PARTMENT	
LLCTURER				PhD Professor Gabriel Ovidiu				u		(Geology	
PREREQUISITES Geochemistry												
OBJECTIVES COURSE CONTENTS PRACTICAL TEACHING				Knowledge of the principal geochemical hazards and risks and measures to prevent or reduce their damaging effects Pollution caused by non-metals (F, As), heavy metals (Cd, Pb, Hg, Zn, etc.) and radioactive metals (U, Th, Ra); Artificial replenishment of aquifers, Deep-level injection of waste; Sterile dumps; Acid rain; Urban waste, Pesticides Detailed presentation of geochemical hazards occurring in Romania or globally: heavy-metal pollution in urban areas, cyanide pollution in mining areas etc.; Testing and analysis of zones subject to geochemical risks (practical case – Jassy Municipality) Lectures based on video projections, discussion, problem-solving								
ME	THODS	<u>S</u>		Lectures based off video projections, discussion, problem-solving								
RECOMMENDED READING				Förstner U. (1998). Integrated pollution control, Springer Verlag, 505 p.; Pirone N., Mahaffey K. R. (2005). Dynamics of mercurry pollution on regional and global scales, Springer Verlag, 744 p.; Popek E. P. (2003). Sampling and analysis of environmental chemical pollutants. A complete guide, Academic Press, 366 p.; Reeve R. N. (2002). Introduction to environmental analysis, John Wiley & Sons, LTD; Vallero D. A. (2004). Environmental Contaminants: Assesment and Control, Elsevier Academic Press, 801 p.; Zhu C., Anderson G. (2002). Environmental applications of geochemical modelling, Cambridge University Press, 284 p.								
			-	Conditions	Fulfilment of student course and practical work obligations							
ASSESSMENT METHODS			į	Criteria		Cumulative evaluation						
				Way of evaluation Written tests throughout the term and written examination Formula of the final mark 0.50 D + 0.50 F								