BACHELOR 'S PROGRAMME **3RD YEAR OF STUDY**, **2nd SEMESTER**

		IM3609	
		full attendance/ tutorial	
		1st cycle (bachelor's degree)	
YEAR OF STUDY SEMESTED		are cycle (bachelor subcycle)	
		6	
		$\frac{1}{1}$ (2 lecture hours + 2 seminar hours)	
		Associate Professor Iuliana Cabriela RDFARAN	
		Associate Professor Iuliana Cabriela BREADAN	
		Advanced level of English	
Δ	GENERAL AND COURSE-SPECI		
	General competences:		
	 → Acquiring the adequate requirements of the sub Qualifications (RNCIS) for Course-specific competen → Define, describe and clast → Use analysis techniques 	e professional and transversal competencies, according to the specific ject and the qualifications listed in the National Index of Higher Education or Geography of the Environment ces: ssify air and water quality monitoring systems to capture environmental problems	
B	LEARNING OUTCOMES		
	\rightarrow Calculate pollution indice	s to capture the degree of pollution of an area	
	 → Analyze the maps and g components → Explains the mechanism components 	raphs of the evolution of the degradation of the quality of the environmental ns of manifestation of phenomena with negative impact on environmental	
	\rightarrow Make maps, graphis to h	ighlight environmental issues	
С	LECTURE CONTENT		
	The concept of monitoring. Introductory notions Environmental monitoring systems Parameters followed in integrated monitoring. Air management and monitoring. Pollutants and sources of air pollution. European directives on air protection Dispersion of pollutants in the atmosphere. Air quality monitoring. Indoor air quality indices; Real-time monitoring of pollution levels inside and outside residential buildings The relationship between climate and air quality Fundamental concepts of integrated water quality management Standardization, organization and optimization of monitoring and automonitoring systems		
Automatic monitoring and alarr		arm stations	
	Warning of accidental pollution	on nical methods of water analysis	
	Methods of data analysis and	d interpretation	
	Integration of water monitorin	ng activities in the integrated environmental monitoring system in Romania.	
D	RECOMMENDED READING FOR	LECTURES Cabriele (2012) Tehnologii de estricitie menitorizare si diameter de l'india	
	 Cretescu Igor , Soreanu factorilor de mediu, Ed. Eco. Ciulache, S.,(2004), Influ 	Gabriela, (2013), Tehnologii de achizitie, monitorizare si diagnoza a calitatii zone, lasi ența condițiilor meteorologice și climatice asupra poluării aerului, Com	
	 Geogr., V, Editura Universita 3. Hanna S.R.,1982, <i>Review</i> Technical Note No.177, 4. Terceiro Patricia, Cecla Ed. Electra, Bucureşti146 p 	ații București; w of atmospheric diffusion models for regulation application", WMO, No.581, n Rodica, Popa Ionel (2009) - Environmental monitoring of water sources,	
E	SEMINAR CONTENT		
	Presentation of the means of Identification of environmenta knowledge used in assessme Methods of data analysis and Evaluation and management	investigation of the terrestrial atmosphere (SNEGICA) al information sources (SNMCA) and (SNIEPA). Types of data, information and ent d interpretation of ambient air quality. Collection of necessary data	

Field activity meant to determine the usual air pollutants Generating a cartographic support with the identification of the main and secondary critical areas; Methods of water sampling Methods of physical, chemical and biological analysis of water Methods of data analysis and interpretation Field activity: detailed measurements in the Bahlui river basin and the city of lasi		
character for water, specific to a negative situation		
Generation of a cartographic	support as an analysis tool in integrated management	
F RECOMMENDED READING FOR SEMINARS		
 Drăghiei, C., Perniu, D.,(2002), Poluarea şi monitorizarea mediului, Editura Universității Transilvania, Braşov <u>http://www.eea.eu.int;</u> http://www.unep.org; <u>http://www.epa.gov/;</u> http://enrin.grida.no; Tanase N., (2002), Calitatea atmosferei în contextual dezvoltarii durabile", Referat de doctorat, Bucuresti; Tanase N., (2010) Analiza temporala a poluarii. Corelatii între poluanti masurati la statiile de tip trafic, Conferinta Facultatii de Instalatii 		
G EDUCATION STYLE		
LEARNING AND TEACHING METHODS	Lecture, didactic explanation, heuristic conversation, problematization, case study, demonstration	
ASSESSMENT METHODS	Performance evaluation + Seminar Grades	
LANGUAGE OF INSTRUCTION	English	