

SYLLABUS

1. Information regarding the programme

1.1 Higher education institution	„Babeş-Bolyai” University Cluj-Napoca
1.2 Faculty	Faculty of Geography
1.3 Department	Department of Geography’s Extension, Gheorgheni Extension
1.4 Field of study	Geography
1.5 Study cycle	Master
1.6 Study programme / Qualification	Ecotourism and sustainable development

2. Information regarding the discipline

2.1 Name of the discipline		Natural risk phenomenas					
2.2 Course coordinator		Assoc. prof. Dr. Dombay Ştefan					
2.3 Seminar coordinator		lecturer Dr. Magyari-Sáska Zsolt					
2.4. Year of study	I	2.5 Semester	I	2.6. Type of evaluation	Ex.	2.7 Type of discipline	Compulsory

3. Total estimated time (hours/semester of didactic activities)

3.1 Hours per week	4	Of which: 3.2 course	2	3.3 seminar/laboratory	2
3.4 Total hours in the curriculum	56	Of which: 3.5 course	28	3.6 seminar/laboratory	28
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					40
Additional documentation (in libraries, on electronic platforms, field documentation)					40
Preparation for seminars/labs, homework, papers, portfolios and essays					40
Tutorship					4
Evaluations					4
Other activities:					
3.7 Total individual study hours		128			
3.8 Total hours per semester		184			
3.9 Number of ECTS credits		6			

4. Prerequisites (if necessary)

4.1. curriculum	•
4.2. competencies	•

5. Conditions (if necessary)

5.1. for the course	Course room equipped with computer and video projector
5.2. for the seminar /lab activities	Course room equipped with computer, video projector and proper cartographical material

6. Specific competencies acquired

Professional competencies	- training skills and initiating students in assessing the tourist potential of the relief.
Transversal competencies	<ul style="list-style-type: none"> - Creating opportunities to capitalize on the amount of knowledge accumulated in the fundamental and related disciplines; - Opening the horizon to the practical exploitation of the acquired knowledge;

7. Objectives of the discipline (outcome of the acquired competencies)

7.1 General objective of the discipline	The course aims to familiarize the future specialist with the formation and development of natural risk phenomena, with the risk represented by these phenomena for tourists.
7.2 Specific objective of the discipline	After completing the course the students will be able to understand the evolution of these phenomena to appreciate their genesis moments. They will also know some risk assessment methods, while making a clear distinction between the terms used in relation to the risk phenomenon: risk, hazard, vulnerability.

8. Content

8.1 Course	Teaching methods	Remarks
Geographic risks, general notions. Systematization of risk phenomena.	Heuristic exposure with active-participatory methods	2 hours
Meteorological risk phenomena	Heuristic exposure with active-participatory methods	8 hours
Hydrological risk phenomena	Heuristic exposure with active-participatory methods	4 hours
Geomorphological risk phenomena	Heuristic exposure with active-participatory methods	4 hours
Classification and perception of hazards	Heuristic exposure with active-participatory methods	2 hours
Hazard Management	Heuristic exposure with active-participatory methods	2 hours
Getting Started in the Vulnerability Study	Heuristic exposure with active-participatory methods	2 hours
Vulnerability assessment	Heuristic exposure with active-	4 hours

	participatory methods	
Bibliography		
<ol style="list-style-type: none"> Borsy Z. (1998), <i>Általános természetföldrajz</i>. Nemzeti Tankönyvkiadó, Budapest. Goțiu D., Surdeanu V. (2007), <i>Noțiuni fundamentale în studiul hazardelor naturale</i>, Presa Universitară Clujeană, Cluj-Napoca Hartai É. (2003), <i>A változó Föld</i>. Miskolci Egyetemi Kiadó, Miskolc. Iustinian P. (2002), <i>Catastrofe geologice</i>. Dacia, Cluj-Napoca. Leeder M., Pérez-Arlucea M. (2006), <i>Physical processes in Earth and environmental sciences</i>, Blackwell Publishing, Oxford. Magyari-Sáska Zs. (2008), <i>Dezvoltarea algoritmilor SIG pentru studiul fenomenelor de risc naturale. Aplicație la Bazinul Superior al Mureșului</i>, Teză de doctorat, Universitatea Babeș-Bolyai, Facultatea de Geografie Molnár B. (2002), <i>A Föld és az élet fejlődése</i>. Nemzeti Tankönyvkiadó, Budapest. 		
8.2 Seminar / laboratory	Teaching methods	Remarks
Introduction. Defining the terms of risk, hazard, vulnerability	Interactive exposition. Examples	2 hours
Meteorological hazards.	Interactive exposition. Examples	2 hours
Hydrological hazards	Interactive exposition. Examples	2 hours
Volcanic hazards	Interactive exposition. Examples	2 hours
Seismic hazards	Interactive exposition. Examples	2 hours
Frequency analysis in risk assessment	Interactive exposition. Examples	2 hours
Practical implementation of frequency analysis. Assignment	Group work. Discussion	12 hours
Bibliography		
<ol style="list-style-type: none"> WMO (2006), <i>Comprehensive Risk Assessment for Natural Hazards</i> [PDF file] Magyari-Sáska Zs. (2008), <i>Dezvoltarea algoritmilor SIG pentru studiul fenomenelor de risc naturale. Aplicație la Bazinul Superior al Mureșului</i>, PhD Thesis, Babeș-Bolyai University Travis, W.R. (2020), <i>Natural Hazards</i> (slides) [PDF file] 		

9. Corroborating the content of the discipline with the expectations of the epistemic community, professional associations and representative employers within the field of the program

The content of the course and seminars highlights the latest ecotourism research guidelines and practices. The focus on understanding the problems and interrelations in the sphere of ecotourism is obvious. The discipline meets the needs of the employers in the field, interested in specialists able to efficiently and fully utilize the field in question.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the grade (%)
10.4 Course	Understanding issues	Written exam	50%
	Explaining the phenomena		
10.5 Seminar/lab activities	Carrying out work tasks	colloquy	50%
	Elaboration of case studies		
10.6 Minimum performance standards			
Score of at least 5.			

Date

02.09.2024

Signature of course coordinator

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Signature of seminar coordinator

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Date of approval

06.09.2024

Signature of the head of department

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