Course syllabus

Academic year 2025/2026
Optional course 1

1. Program information

1.1. Higher education institution	University of Bucharest
1.2. Faculty	Faculty of Geology and Geophysics
1.3. Department	Doctoral School of Geology
1.4. Field of studies	Geology
1.5. Cycle of studies	Doctorate
1.6. Studies program	Geology

2. Course information

2.1. Course name			Optional course 1				
2.2. Course instructor							
2.3. Seminar instructor							
2.4 Year of studies	1	2.5. Semester	1	2.6. Evaluation type	Exam	2.7. Course regime	

3. Total estimated time

3.1. Number of hours per week		3.2. Course		3.3. Seminary/Laboratory/Proj.	
3.4. Total hours in the curriculum	12	3.5. Course	12	3.6. Seminary/Laboratory/Proj.	0/0/0
Allocation of time					
Studying using the textbook, course materials, bibliography, and notes					0
Additional research in the library, on specialized electronic platforms, and in the field					163
Preparation for seminars/laboratories, assignments, reports, portfolios, and essays					0
Tutoring					0
Other activities					0
3.7. Total hours of independent study					163
3.8. Total hours per semester					175
3.9. Number of credits					7

4. Prerequisites (where applicable)

4.1. curriculum	
4.2. competences	

5. Conditions (where applicable)

5.1. conducting the course	Room with multimedia equipment (video projector)
5.2. conducting the seminar/laboratory	

6. Learning outcomes

Knowledge	R1. The doctoral student/graduate understands and possesses advanced knowledge of the concepts, theories, principles, phenomena, and fundamental laws of Geology. R2. The doctoral student/graduate identifies the analysis methods appropriate for studying various geological processes. R3. The doctoral student/graduate identifies and understands the characterization methods and techniques, as well as the equipment required in Geology. R9. The doctoral student/graduate is familiar with the principles and norms of research ethics in general, and those specific to the doctoral thesis sub-field in particular.
Aptitudes	R1. The doctoral student/graduate synthesizes knowledge and appropriately employs specific concepts and methods to model physical phenomena related to geology. R2. The doctoral student/graduate correlates statistical analysis methods with primary data, integrating the results and critically interpreting the information obtained. R3. The doctoral student/graduate correctly interprets primary data and deduces relationships by appropriately applying fundamental principles and laws. R9. The doctoral student/graduate understands and applies ethical principles and standards in research activities and the preparation of the doctoral thesis, including responsibility towards the environment and

	the community.
Responsability andautonomy	R1. The doctoral student/graduate critically analyzes scientific results from the geology literature, formulating their own opinions. R2. The doctoral student/graduate takes responsibility for their personal professional development, planning and critically evaluating their own progress. R3. The doctoral student/graduate identifies and employs specific models and techniques while adhering to ethical and professional conduct principles. R7. The doctoral student/graduate demonstrates autonomy in the use and maintenance of laboratory equipment, complying with safety and quality standards. R9. The doctoral student/graduate efficiently organizes their time and resources, adhering to deadlines, professional ethics and conduct, and safety regulations.

7. Contents

7.1 Course	**Methods**	**Observations**
The content of this course reflects the doctoral student's ability to correctly identify the scientific context of the research to be conducted for the doctoral thesis, as well as to appropriately identify and understand the principles of geology and the analysis and characterization methods required to achieve the thesis's intended results.	Discussion	

8. Alignment of the course content with the expectations of representatives from the epistemic community, professional associations, and key employers in the field related to the program.

The course addresses the most common theoretical and practical issues related to the specialization.

9. Evaluation

Type of activity	Evaluation criteria	Methods of evaluation	Weight in the final grade
Course	Clarity and coherence of the presentation; - Correct use of primary data and analysis methods relevant to the subject matter; - Ability to analyze scientific data	Oral presentation before the committee, supported by a written report endorsed by the doctoral supervisor and the members of the guidance and academic integrity committee.	100%
Minimum performance standard			

Date,

Course instructor name and signature,

22.09.2025

Date

DSG Chair

24.09.2025

Prof. Mihai Emilian Popa