

BACHELOR 'S PROGRAMME
1ST YEAR OF STUDY, 2ND SEMESTER

COURSE TITLE	GENERAL GEOLOGY
COURSE CODE	JT1208
COURSE TYPE	full attendance/ tutorial
COURSE LEVEL	1 st cycle (bachelor's degree)
YEAR OF STUDY, SEMESTER	1 st year of study, 2 nd semester
NUMBER OF ECTS CREDITS	5
NUMBER OF HOURS PER WEEK	4 (2 lecture hours + 2 seminar hours)
NAME OF LECTURE HOLDER	Associate Professor Delia ANDRONE
NAME OF SEMINAR HOLDER	Associate Professor Delia ANDRONE
PREREQUISITES	Advanced level of English
A	GENERAL AND COURSE-SPECIFIC COMPETENCES
	<p>General competences:</p> <p>→ Acquiring the adequate professional and transversal competencies, according to the specific requirements of the subject and the qualifications listed in the National Index of Higher Education Qualifications (RNCIS) for Geography of Tourism</p> <p>Course-specific competences:</p> <p>→ Describe the main lithologic - mineralogical characteristics of the igneous, sedimentary and metamorphic terrains, as well as the particularities of the Earth`s major crustal morpho-structures</p> <p>→ Use the geologic maps in order to describe the structural characteristics of the physico-geographic units</p>
B	LEARNING OUTCOMES
	<p>→ Analyze the geological features of a particular unit, based on geologic materials (<i>geologic maps, block diagrams, geologic cross sections, lithostratigraphic columns etc.</i>) and explain the general trends in the palaeogeographic evolution of the substratum</p> <p>→ Design the chapters regarding the geological and structural features of the terrains being studied within a specific geographical frame (<i>geomorphological, hydro-climate, natural risks, territorial planning etc.</i>)</p>
C	LECTURE CONTENT
	<p>Introduction Earth`s Internal Structure Plate Tectonics and Lithosphere Dynamics Cristallography and Mineralogy Igneous Petrology Sedimentary Petrology Metamorphic Petrology Structural Geology and Geological Cartography Geologic Time Scale Earth`s Palaeogeographic Evolution Using geological knowledge in the Geosystem study</p>
D	RECOMMENDED READING FOR LECTURES
	<ol style="list-style-type: none"> Androne D. (2018). <i>Geologie generală: Introducere în Geologie</i>. Curs vol. II, Ed. Tehnopress, Iași. Armstrong D., Muggleston F., Richards R., Stratton F. (2008). <i>Geology</i>. Heinemann - Pearson Education Ltd., U.K. Androne D. (2008). <i>Geologie generală: Mineralogie</i>. Curs vol. I, Ed. Tehnopress, Iași. Wenk H.R. & Bulakh A. (2004). <i>Minerals - Their Constitution and Origin</i>, Cambridge University Press, U.K. Har N. (2005). <i>Petrologie magmatică</i>. Ed. Casa Cărții de Știință, Cluj-Napoca. Iancu O.G. (2007). <i>Petrologie metamorfică</i>. Ed. Sedcom Libris, Iași. Philipotts A.R. & Ague J.J., (2011). <i>Principles of Igneous and Metamorphic Petrology</i>. Cambridge Univ. Press, UK. Buzgar N. (2000). <i>Petrologie sedimentară</i>. Ed. Univ. "A.I.Cuza", Iași. Tucker M. (2008). <i>Sedimentary Petrology. An Introduction to the Origin of Sedimentary Rocks</i>. Blackwell Publishing, U.S.A. Grasu C. (1997). <i>Geologie structurală</i>. Ed. Tehnică, București. Filipescu S. (2002). <i>Stratigrafie</i>. Presa Universitară Clujeană, Cluj. Ogg G.J., Ogg G., Gradstein M.F. (2010). <i>The concise Geologic Time Scale</i>. Cambridge Univ. Press, UK.
E	SEMINAR CONTENT

	<p>Geochronology and Chronostratigraphy. Geologic Time Scale. Crystallography: symmetry elements, unit cell, crystallographic systems Classification and macroscopic determination of mineral species Classification and macroscopic determination of igneous rocks Classification and macroscopic determination of sedimentary rocks Classification and macroscopic determination of metamorphic rocks Analysis and use of geologic maps and cross-sections</p>
F	RECOMMENDED READING FOR SEMINARS
	<ol style="list-style-type: none"> 1. Androne D. (2018). <i>Geologie generală: Introducere în Geologie</i>. Curs vol. II, Ed. Tehnopress, Iași. 2. Androne D. (2008). <i>Geologie generală: Mineralogie</i>. Curs vol. I, Ed. Tehnopress, Iași. 3. Juravle D.-T. (2013). <i>Caiet de lucrări practice de Geologie generală</i>. Suport online. 4. Anastasiu N. (1977). <i>Minerale și roci sedimentare. Determinator</i>. Ed. Tehnică București. 5. Pellant C. (2000). <i>Rocks and Minerals - Handbook</i>. Dorling Kindersley Ltd., London, U.K.
G	EDUCATION STYLE
LEARNING AND TEACHING METHODS	Lecture, explanation, heuristic conversation, video projection
ASSESSMENT METHODS	Examination + Seminar Grades
LANGUAGE OF INSTRUCTION	English