

## **COURSE/MODULE SYLLABUS FOR UNIVERSITY COURSES/PhD STUDIES**

1.	Course/module name in Polish and English Selected Problems of Economic Geology/ Wybrane problemy geologii gospodarczej
2.	Discipline Earth and Environmental Science
3.	Language of instruction English
4.	Teaching unit Faculty of Earth Science and Environmental Management, Institute of Geological Sciences, Department of Economic Geology
5.	Course/module code USOS
6.	Type of course/module ( <i>mandatory or optional</i> ) optional
7.	Field of studies (major, if applicable) Geology
8.	Level of higher education ( <i>undergraduate (I cycle), Master's (II cycle), 5 year uniform Master's studies</i> ) Master's (II cycle)
9.	Year of studies ( <i>if applicable</i> ) I or II
10.	Semester ( <i>winter or summer</i> ) Winter or summer
11.	Form of classes and number of hours Lectures: 28 Teaching methods: Multimedia lecture
12.	Name, title/degree of the teacher/instructor Coordinator: prof. dr hab. Andrzej Solecki Lecturer: prof. dr hab. Andrzej Solecki
13.	Course/module prerequisites, in terms of knowledge, skills, social competences B.Sc. level geological knowledge
14.	Course objectives Getting familiar with genesis and economy of mineral deposits
15.	Course content

	<p>Lectures:</p> <p>Types of mineral resources and their genesis. Role of magmatic processes. Origin of hydrothermal waters and their role. VHMS and SEDEX mineral deposits. Porphyry copper deposit. Metallogeny of granites. Mineral deposits of platform areas. Banded Iron Formation. Mineral deposits related to weathering. Political and Economic Aspects of Mineral Deposits.</p>											
16.	<p>Intended learning outcomes</p> <p>W_1 Has deepened knowledge about selected types of deposits.</p> <p>W_2 Knows the possibilities of their development.</p> <p>U_1 Is able to assess the opportunities and risks associated with the management of mineral resources.</p> <p>K_1 Can critically analyse the information provided to him. Is aware of problems related to the management of mineral resources materials.</p>	<p>Symbols of learning outcomes for particular fields of studies:</p> <p>K2_W01</p> <p>K2_W08</p> <p>K2_U02, K2_U03</p> <p>K2_K04</p>										
17.	<p>Required and recommended reading (<i>sources, studies, manuals, etc.</i>)</p> <p>Required reading</p> <p>Evans A.M. 1997: An Introduction to Economic Geology and Its Environmental Impact. pp. 396.</p> <p>Recommended reading</p> <p>Roberts R.G., Sheahan P.A. (1994) - Ore deposit models. Geoscience Canada.</p> <p>Osika R., 1990: Geology of Poland-Mineral deposits Vol. 6. Warszawa Wydawnictwa Geologiczne pp. 314</p> <p>Economics of the Mineral Industries, William A. Vogely, Editor, 4th Edition, 1985</p> <p>Hutchison C.S. 1983: Economic Deposits and their tectonic Setting. MacMillan Education. pp. 365</p>											
18.	<p>Assessment methods for the intended learning outcomes:</p> <p>- semester paper: K2_W01, K2_W08, K2_U02, K2_U03, K2_K04.</p>											
19.	<p>Credit requirements for individual components of the course/module:</p> <p>- semester paper (individual or group).</p>											
20.	<p>Total student effort</p> <table><tr><th>form of student activities</th><th>number of hours for the implementation of activities</th></tr><tr><td>classes (according to the plan of studies) with a teacher/instructor: - lectures: 28</td><td>28</td></tr><tr><td>student's own work (including group-work) such as: - reading the suggested literature: 10 - writing a class report: 15</td><td>25</td></tr><tr><td>Total number of hours</td><td>53</td></tr><tr><td>Number of ECTS credits</td><td>2</td></tr></table>		form of student activities	number of hours for the implementation of activities	classes (according to the plan of studies) with a teacher/instructor: - lectures: 28	28	student's own work (including group-work) such as: - reading the suggested literature: 10 - writing a class report: 15	25	Total number of hours	53	Number of ECTS credits	2
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