Annex No. 5

to Ordinance No. 21/2019

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

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|  | Course/module name in Polish and English  Selected Problems of Economic Geology/ Wybrane problemy geologii gospodarczej | | |
|  | Discipline  Earth and Environmental Science | | |
|  | Language of instruction  English | | |
|  | Teaching unit  Faculty of Earth Science and Environmental Management, Institute of Geological Sciences, Department of Economic Geology | | |
|  | Course/module code  USOS | | |
|  | Type of course/module *(mandatory or optional)*  optional | | |
|  | Field of studies (major, if applicable)  Geology | | |
|  | Level of higher education *(undergraduate (I cycle), Master’s (II cycle), 5 year uniform Master’s studies)*  Master’s (II cycle) | | |
|  | Year of studies *(if applicable*)  I or II | | |
|  | Semester *(winter or summer)*  Winter or summer | | |
|  | Form of classes and number of hours  Lectures: 28  Teaching methods:  Multimedia lecture | | |
|  | Name, title/degree of the teacher/instructor  Coordinator: prof. dr hab. Andrzej Solecki  Lecturer: prof. dr hab. Andrzej Solecki | | |
|  | Course/module prerequisites, in terms of knowledge, skills, social competences  B.Sc. level geological knowledge | | |
|  | Course objectives  Getting familiar with genesis and economy of mineral deposits | | |
|  | Course content  Lectures:  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 deposist. Metallogeny of granites. Mineral deposits of platform areas. Banded Iron Formation. Mineral deposits related to weathering. Political and Economic Aspects of Mineral Deposits. | | |
|  | Intended learning outcomes  W\_1 Has deepened knowledge about selected types of deposits.  W\_2 Knows the possibilities of their development.  U\_1 Is able to assess the opportunities and risks associated with the management of mineral resources.  K\_1 Can critically analyse the information provided to him. Is aware of problems related to the management of mineral resources materials. | Symbols of learning outcomes for particular fields of studies:  K2\_W01  K2\_W08  K2\_U02, K2\_U03  K2\_K04 | |
|  | Required and recommended reading *(sources, studies, manuals, etc.)*  Required reading  Evans A.M. 1997: An Introduction to Economic Geology and Its Environmental Impact. pp. 396.  Recommended reading  Roberts R.G., Sheahan P.A. (1994) - Ore deposit models. Geoscience Canada.  Osika R., 1990: Geology of Poland-Mineral deposits Vol. 6. Warszawa Wydawnictwa Geologiczne pp. 314 Economics of the Mineral Industries, William A. Vogely, Editor, 4th Edition, 1985  Hutchison C.S. 1983: Economic Deposits and their tectonic Setting. MacMillan Education. pp. 365 | | |
|  | Assessment methods for the intended learning outcomes:  - semester paper: K2\_W01, K2\_W08, K2\_U02, K2\_U03, K2\_K04. | | |
|  | Credit requirements for individual components of the course/module:  - semester paper (individual or group). | | |
|  | Total student effort | | |
| 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 |