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  Gospodarka surowcowa świata / Problems of global mineral resources management | | |
|  | 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)  Geological Engineering | | |
|  | 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 | | |
|  | Semester *(winter or summer)*  winter | | |
|  | Form of classes and number of hours  Lectures: 12  Lab classes: 18  Teaching methods: multimedia lecture, preparation of reports, | | |
|  | Name, title/degree of the teacher/instructor  Coordinator: prof. dr hab. Andrzej Solecki  Lecturer: prof. dr hab. Andrzej Solecki, dr Piotr Wojtulek  Classes instructor: prof. dr hab. Andrzej Solecki, dr Piotr Wojtulek | | |
|  | Course/module prerequisites, in terms of knowledge, skills, social competences  Basic knowledge of geology of deposits and economy | | |
|  | Course objectives  Classes form the basis for further education in the role of raw materials in the world economy and the significance of resource groups at particular stages of civilization development.  Exercises are designed to familiarize students with the analysis and search of information on the management of raw materials | | |
|  | Course content  Lectures:  Raw material management of the world from the prehistory to the twenty-first century. Demand for raw materials as a reason for expansion, main resource groups on international markets. International organizations related to the exploitation of raw materials. Main companies exploiting raw materials, geological conditions, price fluctuations; free market or collusion of producers?  Exercises:  Essays on the historical and current situation on international resource markets | | |
|  | Intended learning outcomes:  W\_1 Knows English terminology.  W\_2 Knows the changing role of raw materials in the world economy.  U\_1 Can determine the trends in the exploitation of raw materials.  U\_2 Can indicate the leading producers and consumers of particular groups of raw materials.  K\_1 Understands the political conditions of resource exploitation.  K\_2 Understands the role of raw materials in international conflicts.  K\_3 Can critically look at the information provided to him.  K\_4 Is aware of the need to expand its knowledge in the field of raw materials management. | Symbols of learning outcomes for particular fields of studies:  K2\_W07  K2\_U01  K2\_U01  K2\_K02  K2\_K02  K2\_K02  K2\_K02  K2\_K02 | |
|  | Required and recommended reading *(sources, studies, manuals, etc.)*  Required reading:  Evans A.M. 1997: An Introduction to Economic Geology and Its Environmental Impact. p. 396.  Recommended reading:  Gluyas J., Swarbrick R.2004: Petroleum Geoscience Blackwell Publishing  World Metal Statistics Yearbook  Webpages of USGS and international mineral institutions  Wikipedia and links therein | | |
|  | Assessment methods for the intended learning outcomes:  - written class reports: K2\_K02; K2\_U01; K2\_W07  - written semester essay (individual or team): K2\_K02; K2\_U01; K2\_W07 | | |
|  | Credit requirements for individual components of the course/module:  Lecture - a positively evaluated semester work (individual or group), i.e. over 50% of points  Exercises - writing class reports, over 50% of points | | |
|  | 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:12  - lab classes:18  - other: consultations 8 | | 38 |
| student's own work (including group-work) such as:  - being prepared for classes: 12  - reading the suggested literature: 12  - writing a class report: 13 | | 37 |
| Total number of hours | | 75 |
| Number of ECTS credits | | 3 |