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  Global Tectonics | | |
|  | Discipline  Earth and Environmental Science | | |
|  | Language of instruction  English | | |
|  | Teaching unit  Faculty of Earth Science and Environmental Management, Institute of Geological Sciences | | |
|  | Course/module code  USOS | | |
|  | Type of course/module *(mandatory or optional)*  optional | | |
|  | Field of studies (major, if applicable)  Geological Engeneering | | |
|  | 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*)  II | | |
|  | Semester *(winter or summer)*  Winter | | |
|  | Form of classes and number of hours  Lectures: 30  Teaching methods:  Multimedia lecture with interactive methods | | |
|  | Name, title/degree of the teacher/instructor  Coordinator: dr Artur Sobczyk | | |
|  | Course/module prerequisites, in terms of knowledge, skills, social competences  Knowledge and skills obtained during BSc. level studies | | |
|  | Course objectives  The aim of the lecture is to extend students’ knowledge on global tectonic processes. The focus of the lecture will be put on historical concepts of global tectonics, role of tectonics in sedimentary basins evolution, evolution of oceanic realm and orogenic belts, interrelation between global tectonic processes and mineral resources occurrence as well as the influence of large scale tectonics on geomorphology of the Earth. | | |
|  | Course content  - Historical perspective  - The interior of the Earth.  - Evolution of sedimentary basins.  - Evolution of oceans.  - Island arcs.  - Orogenic belts.  - Non-orogenic mountains.  - Global tectonics and resources. | | |
|  | Intended learning outcomes:  W\_1: Student obtains extensive knowledge about processes of global tectonics  W\_2: Student understands links between tectonic processes, mineral resources, and Earth’s morphology  W\_3: Student obtains overall knowledge of international terminology associated with global tectonic processes  U\_1: Student can utilize information on aspects of global tectonics published in scientific papers, data bases and other sources  U\_2: Student is able to understand and discuss aspects of global tectonics in English .  K\_1: Student is able to evaluate critically scientific information and credibility of concepts and objectives related to global tectonics, basing on logical thinking and interpretation of phenomena and processes. | Symbols of learning outcomes for particular fields of studies:  K\_W01, K\_W03, K\_W04  K\_W01, K\_W04  K\_W06  K\_U01  K\_U04  K\_K01 | |
|  | Required and recommended reading *(sources, studies, manuals, etc.)*  Recommended reading:  Kearey P., Klepeis K.A., Vine F.J., 2009: Global Tectonics (Third Edition), Wiley-Blackwell, Chichester.  Dadlez R., Jaroszewski W., 1994, Tektonika, PWN, W-wa  Marshak S., 2007: Earth: Portrait of a Planet (Third Edition), W. W. Norton & Company. | | |
|  | Assessment methods for the intended learning outcomes:  - final test K\_W01, K\_W03, K\_W04, K\_W06, K\_U01, K\_U04, K\_K01 | | |
|  | Credit requirements for individual components of the course/module:  - final test; 50% of points required to pass | | |
|  | 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:  - lecture: 30  - consultations: 6  - test: 2 | | 38 |
| student's own work (including group-work) such as:  - reading set literature: 20  - preparing for exam: 17 | | 37 |
| Total number of hours | | 75 |
| Number of ECTS credits | | 3 |