Annex No. 5

to Ordinance No. 21/2019

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

|  |  |  |  |
| --- | --- | --- | --- |
|  | Course/module name in Polish and English  Regional and economic geology (field course)/Geologia regionalna i gospodarcza (ćwiczenia terenowe) | | |
|  | 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 (spec. Applied Geoscience) | | |
|  | 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)*  summer | | |
|  | Form of classes and number of hours  Field classes: 36  Teaching methods  practical exercises, preparation of reports | | |
|  | Name, title/degree of the teacher/instructor  Coordinator: Prof. dr hab. Andrzej Solecki,  Field classes instructor: Prof. dr hab. Andrzej Solecki, Dr Dagmara Tchorz-Trzeciakiewicz | | |
|  | Course/module prerequisites, in terms of knowledge, skills, social competences  Basic geological education at B.Sc. level. | | |
|  | Course objectives  Getting the knowledge of the regional structures and examples of selected mineral deposits. | | |
|  | Course content  1. Geological structure of the orogen on the example of the Carpathians:  Foredeep, gas deposits. Outer Carpathians, oil and gas, oil museum in Bóbrka,  menilite series and diatoms, uranium mineralization area of Bezmiechowa.  Pieniny Kilippen belt geological structure (ravine Homole), andesites of G. Wżar.  Inner Carpathians, Tatras.  Transcarpathia - (Ukraine, Hungary or Slovakia) Carpathian volcanism and its metallogenic importance (metals, perlite).  2. The geological structure of the platform area e.g. Podolian plate, Scythian platform and the central part of the Ukrainian shield, fennoscandian plate:  Precambrian shield granitoids of the Ukrainian region Uman and Krivyj Rih BIF deposits, basalts of Volyn, mineralization of Cu-U Old-Redu, profiles of the Silurian, Devonian, Cretaceous and Neogene of the Podolian platform, deposits of manganese. Tthe Ukrainian and peri-Baltic profiles as an opportunity to get acquainted with the lithology of rocks known in Poland only from the boreholes.  3. Geology of Romania and its mineral resources:  Porphyry Cu, Au, Pb, Zn deposits, the deposit and outcrops of salt in Transylvania, thermal waters, oil and salt region of Suceava, mud volcanoes  4. Cimmerian orogen of the Crimean Mountains - Cenozoic sediments of Kerch:  Development of Cimmerian Orogen from the Tauride series (Triassic?) to the Eocene platform nummulite limestone. Conditions of the formation of hydrocarbons of Majkop series , mud volcanism, Kerch iron ore, bryozoan reefs, contemporary salt lakes  The area depending on the choice of students. | | |
|  | Intended learning outcomes  P\_W01 Knows the geology of the selected region.  P\_U01 Can recognize the signs of metallogenic processes in various rock formations.  P\_K01 Is able to define and plan the test procedures of various rock formations for the presence of mineral deposits. | Symbols of learning outcomes for particular fields of studies, *e.g. K\_W01\**, *K\_U05,K\_K03*  K2\_W07  K2\_U01  K2\_K03 | |
|  | Required and recommended reading *(sources, studies, manuals, etc.)*  Required reading  Bubniak , Solecki (eds) 2013: Przewodnik geoturystyczny po szlaku GeoKarpaty,  Solecki A. ed 2008: Geoeducational potential of the Sudety Mts.  Recommended reading  Bac-Moszaszwili M., Gąsienica Szostak M., 1990: Tatry polskie. Przewodnik geologiczny dla turystów. Wyd. Geol. Warszawa  Birkenmajer K., 1979: Przewodnik geologiczny po pienińskim pasie skałkowym. Wyd. Geol. Warszawa  Bubniak I.M., Solecki A.T., Śliwiński W.R., 2006: Geoeducational potential of southern and southwestern margin of the Ukrainian Craton. Fundacja Ostoja. Wrocław  Golonka J., 2004: Plate tectonic evolution of the southern margin of Eurasia in the Mesozoic and Cenozoic. Tectonophysics 381, p. 235-273  Kotański Z. 1971: Przewodnik geologiczny po Tatrach. Wyd. Geol. | | |
|  | Assessment methods for the intended learning outcomes:  Presenting a complete set of field notes and reports. K2\_W07, K2\_U01, K2\_K03 | | |
|  | Credit requirements for individual components of the course/module:  - writing a class report of all 6 days,  - attendance in all field classes is obligatory. | | |
|  | 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:  - field classes: 36  - consultations: 9 | | 45 |
| student's own work (including group-work) such as:  - being prepared for classes: 10  - reading the suggested literature: 10  - writing a class report: 10 | | 30 |
| Total number of hours | | 75 |
| Number of ECTS credits | | 3 |