SUBJECT/MODULE SYLLABUS*

1.	Subject/module name	
	Introduction to the Earth science	
2.	Discipline	
	archaeology	
3.	5 5	
	Polish	
4.	The entity conducting subject	
5.	Institute of Archaeology Subject/module code	
J.	22-ÅR-S1-02-WdNoZ	
6.		
	obligatory	
/.	7. Field of study (specialization)*	
0	archaeology	
8.	Level of studies (1st degree*, 2nd degree*, long-cycle master's studies*, name of the Doctoral College*)	
	1st degree	
9.	Year of studies (<i>if applicable</i>)	
51	1st year	
10.	Semester (winter or summer)	
	winter	
11.	Form of classes and number of hours (including number of hours of online classes*)	
	lecture 30 hours	
12.	Prerequisites in terms of knowledge, skills and social competences forthe	
	subject/module	
10	None	
13.	Learning objectives for the subject	
	Introduction to the history of Earth sciences, including the methods of cartographic	
	Introduction to the history of Earth sciences, including the methods of cartographic	
	projections in the geology (artifacts, maps, mapping systems). Introducing the	
	basics of the methodological natural sciences, including the essence and meaning of	
	phenomenology in the description and researching phenomena and processes.	
	Familiarization the listener with stochastic and phenomenological categorization of	
	phenomena, processes and events and their geological recording. Discussion of the	
	structure of the Earth and its history as a planet. Space on Earth and its evolution	
	over time (continents, oceans, lands and seas). Role overview the most important	
	elements, compounds, minerals and rocks that make up the Earth in the context of	
	their occurrence and where deposits are obtained by humans). Molds occurrence of	

	deposits and methods of their exploitation. Basics of environmental geology
	(recorded in sediments and rocks of volcanogenic environmental processes -
	geodynamics, seismicity, climate, hydrological and hydrogeological changes and
	geoenvironmental events). Familiarization with methods of reconstructing ancient
	environments and processes that prevailed and shaped the Earth's surface.
	Familiarization with the basics of the absolute dating methods. Familiarization with
	modern methods of mapping of the land surface and the possibilities of using
1.4	artifacts and geofacts for paleogeographic reconstructions
14.	Program content:
	1. Introduction: sedimentation processes, sediments and sedimentary rocks -
	definitions, classifications, basic methods
	2. Textural features of sediments - methods of process-environmental description
	and interpretation
	3. Structural features of sediments - methods of description and process-
	environmental interpretation
	4. Diagenetic features and soil processes - methods of process-environmental
	description and interpretation
	5. Terrestrial sedimentary environments (processes, sediments, fossil record)
	6. Recognition and description of geological and environmental processes (cyclicality,
	evolution)
	7. Recognition and description of geological and environmental events (probability of
	events, their recording and impact on other environmental processes)
	8. Geochronology and methods for determining the superposition of phenomena and
	processes
	9. Methods of mapping the land surface (history, modern methods)

10. Methods of mapping the geological structure (cross-sections, block diagrams)		
11. Modern cartographic methods (LIDAR, DEM, 3D laser scanning, shallow		
geophysics)		
12. Methods of determining the age of geological phenomena		
13. Deposits of raw materials, their importance for the location and migration of		
people and methods of exploitation		
14. Ground and surface waters, their importance for human migration and methods		
of exploitation		
15. Geohazards - types, assessment methods, methods of prevention		
16. Geohazards (event geoarchaeology)		
Assumed learning outcomes	Appropriate directional symbols	
Assumed learning outcomes		
	learning outcomes	
Knows the basic concepts and terminology used in	K_W02	
archaeology and other humanities, especially		
history, cultural anthropology, selected natural		
sciences and sciences about land with which		
archeology cooperates		
Has structured methodological knowledge and	K_W03	
range of theories used in archeology and in various		
directions of archaeological, archaeological and		
natural, and natural research		
Has basic knowledge of the connections between	K_W05	
archaeology and scientific fields and disciplines that		
are the basis of specialties developed within them,		
such as environmental archaeology		

	<u>ا</u>
(bioarchaeology), underwater archaeology,	
architectural archaeology, conservation of	
archaeological artefacts	
Able to search, analyze, evaluate, select and use	K_U01
information from using various sources and	
methods	
Has basic skills in:	K_U02
- formulating scientific problems and their analysis	
by selecting appropriate methods and tools	
research,	
- development and presentation of research	
results,	
- solving problems in fields and scientific disciplines	
, relevant to the field of study	
Is able to recognize various types of cultural	K_U05
products appropriate for the discipline being	
studied and conduct their critical analysis and	
interpretation with using typical research methods,	
in order to determine their content and meanings,	
including chronological-cultural affiliation and	
function	
Has substantive arguing skills using the views of	K_U06
others authors and formulating conclusions	
Understands the need for lifelong learning	
Is able to appropriately determine priorities for	К_КО1

	carrying out a task specified by yourself or other	s К_КОЗ	
	Appreciates the role of the humanities and relate	d	
	sciences cooperating in shaping social bonds	К_К08	
	at the local and supra-local level		
15.			
	Required and recommended literature (sources, studies, textbooks, etc.)		
	 Keller E.A. 1999. Introduction to Environmental Geology, Prentice Hall, Reading H.G. 1986. Sedimentary Environments and Facies, Blackwell Sc. Friedman G.M., Sanders J.E. 1978. Principles of Sedimentology, Willey & Sons, Inc., Nichols G. 1999. Sedimentology and Stratigraphy, Blackwell Thiry M., Simon-Coincon R. 1999. Palaeoweathering. Palaeosurfaces and Related Continental Deposits, Blackwell Science Migoń P. 2012. Geomorfologia, Warszawa: PWN Ollier C., Pain C. 2000. Origin of Mountains, Routledge Stankowski W. 1996. Wstęp do geologii kenozoiku, ze szczególnym odniesieniem do terytorium Polski, Poznań: Wydawnictwo Naukowe UAM 		
16.			
	Methods of verifying the assumed learning outco oral assessment, essay preparation	mes:	
	oral assessment, essay preparation		
17.	. Conditions and form of passing individual components of the subject/module:		
	attending 75% of classes, preparing a written es	say on a topic bordering on geology	
	attending 75% of classes, preparing a written essay on a topic bordering on geology and archaeology agreed with the instructor , (2-3 pages with sources of		
	information)		
18.	. Student/PhD student workload		
	the form of carrying out classes by the	the number of hours allocated to	
	student*/doctoral student*	carry out a given type of classes	
	classes (according to the study plan) with the		
	instructor: - lecture:	30	
	student/doctoral student's own work (including		
	participation in group work), e.g.:		
	- reading the indicated literature:	20	

- preparation of written work:	
- preparation for tests and the final exam:	10
Total number of hours	60
Number of ECTS points (if required)	2

(T) – implemented in a traditional way(O) – implemented online

* remove unnecessary