

**COURSE OFFERED**

<b>Name of the course</b>	Polish	<b>Paleogeografia holocenu i geoarcheologia</b>
	English	<b>Holocene paleogeography and geoarchaeology</b>

**1. LOCATION OF THE COURSE OF STUDY WITHIN THE EDUCATION SYSTEM**

<b>1.1. Section<sup>1</sup></b>	Exact and natural sciences
<b>1.2. Discipline<sup>2</sup></b>	Earth And Environmental Sciences
<b>1.3. Type of education</b>	stationary
<b>1.4. Level of education</b>	Doctoral School
<b>1.5. Person preparing the course description</b>	Prof. UJK dr hab. Tomasz Kalicki
<b>1.6. Contact</b>	tomaszkalicki@ymail.com; tomasz.kalicki@ujk.edu.pl

**2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY**

<b>2.1. Type of course<sup>3</sup></b>	<b>Specialized subject in the discipline</b>
<b>2.2. Language of the course</b>	English

**3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY**

<b>3.1. Type of classes<sup>4</sup></b>	lecture
<b>3.2. The number of hours<sup>5</sup></b>	15
<b>3.3. Location of classes</b>	UJK teaching room
<b>3.4. Type of assessment</b>	assessment with grade
<b>3.5. Didactic methods</b>	lecture
<b>3.6. Literature</b>	<b>basic</b> <ul style="list-style-type: none"> <li>• Roberts N., 2014, The Holocene. An Environmental History, WILEY Blackwell</li> <li>• O'Connor T., Evans J. G., 2005, Environmental Archaeology. Principles and Methods, Sutton Publishing</li> <li>• Brooke, J. 2014, Climate Change and the Course of Global History: A Rough Journey, New York.</li> </ul>
	<b>supplementary</b> <ul style="list-style-type: none"> <li>• Global catastrophic risks, 2008, Oxford Univ. Press</li> <li>• Mannion A.M., 2001. Zmiany środowiska Ziemi. Historia środowiska przyrodniczego i kulturowego. PWN, Warszawa.</li> <li>• Dobrzańska H., Kalicki T. 2015. Morphology and land use of floodplains in the western part of Sandomierz Basin (southern Poland, Central Europe) in the Roman period, „Quaternary International”, 370, s. 100–112,</li> </ul>

<sup>1</sup> Section of Humanities:, Social Sciences, Section of Exact and Natural Sciences, Section of Medical and Health Sciences, Section of Arts.

<sup>2</sup> History,Linguistics, Literary Studies, Medical Sciences, Health Sciences, Political and Administrative Sciences, Legal Sciences, Security Sciences, Pedagogy, Communication and Media Studies, Management and Quality Studies, Biological Sciences, Chemical Sciences, Physical Sciences, Earth and related Environmental Sciences, Visual Arts and Artwork Conservation, Musical Arts.

<sup>3</sup> General courses, domain specific subjects in the section, disciplinary subjects in the sections, specialized subjects in the discipline.

<sup>4</sup> Classes, lecture, seminar.

<sup>5</sup> Consistent with the education program at the Doctoral School  
Jan Kochanowski University in Kielce.

#### 4. OBJECTIVES, SYLLABUS CONTENT AND INTENDEND LEARNING OUTCOMES

4.1. Course objectives (including the form of classes)
C1 Familiarization with the issues of paleogeography and geoarchaeology in general and Central Europe
C2 Presentation of the latest state of research and research directions in paleogeography and geoarchaeology in Poland and around the world, with particular emphasis on Central Europe
C3 Acquisition by the student of the ability to understand conceptual categories and cause-effect relationships leading to environmental changes and human-environment interactions
4.2. Syllabus content
Selected problems of paleogeography. Variability of the components of the environment of Central Europe during the Late Glacial and Holocene periods. Methods of paleogeographic reconstruction. Similarities and differences in chronostratigraphy, methods and interpretations used in natural sciences and humanities. The Świętokrzyskie Mountains region in Roman times - human activity and environment. Geoarchaeology - basic concepts, scope and research objectives. Sediments, soils and environmental interpretations. Paleoclimate. Environmental context and shaping of archaeological sites in various environmental conditions. Geoarchaeological research methods and spatial analyses. Comparison of geological, pedological, biostratigraphic and archaeological stratigraphy and absolute dating methods. Paleoenvironmental reconstructions on selected examples from the Paleolithic, Neolithic, Bronze Age and Iron Age

#### 5. SUBJECT LEARNING OUTCOMES

Learning outcomes	A doctoral student who has passed the subject:	Reference to the learning outcomes of Doctoral School (according to the training program at the Doctoral School)
<b>in the area of KNOWLEDGE:</b>		
W01	The doctoral student possesses in-depth knowledge of the latest scientific achievements, encompassing theoretical foundations, general issues, and selected specific topics relevant to the scientific discipline in which the doctoral dissertation is being prepared	SD_W01
W02	The doctoral student has advanced knowledge of development trends in disciplines related to the research project theme being pursued	SD_W02
W03	The doctoral student is able to formulate significant, current, and unresolved issues in the field of science in which they are studying, particularly in the discipline where the doctoral dissertation is being prepared, including in a foreign language.	SD_W07
<b>in the area of SKILLS:</b>		
U01	The doctoral student can define the goal and subject of research or project activities, as well as formulate research hypotheses in the discipline where the doctoral dissertation is being prepare	SD_U01

U02	The doctoral student is capable of utilizing knowledge from various disciplines to identify, formulate, and creatively solve complex problems or undertake research project tasks.	SD_U03
U03	The doctoral student can effectively use a foreign language in research or project activities.	SD_U07
<b>in the area of SOCIAL COMPETENCE:</b>		
K01	The doctoral demonstrates entrepreneurial thinking and actively takes initiative.	SD_K04

## 6. METHODS OF ASSESSMENT OF THE INTENDED LEARNING OUTCOMES

SUBJECT LEARNING OUTCOMES	METHOD OF ASSESSMENT (+/-)																				
	Oral/written exam			Kolokwium			Project			activity in class			Own work			Group work			Others		
	The type of classes			The type of classes			The type of classes			The type of classes			The type of classes			The type of classes			The type of classes		
	L	C	S	L	C	S	L	C	S	L	C	S	L	C	S	L	C	S	L	C	S
W01				X																	
W02				X																	
W03				X																	
U01				X																	
U02				X																	
U03				X																	
K01																			X		

## 7. CRITERIA OF ASSESSMENT OF THE INTENDED LEARNING OUTCOMES

Form of classes	Grade	Criterion of assessment
Lecture (L) <sup>6</sup>	3,0	Achieving 51% of points on final tests.
	3,5	Achieving 60% of points on final tests.
	4,0	Achieving 70% of points on final tests.
	4,5	Achieving 80% of points on final tests.
	5,0	Achieving 90% of points on final tests.

Accepted for execution

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<sup>6</sup> Niepotrzebne usunąć.