

COURSE DESCRIPTION CARD

Course name	Natural and anthropogenic changes of the natural environment in the Holocene				
Course type	Optional	Course code	SDPB0118	ECTS credits	1
Forms and number of hours	Lecture: 10 h	Scientific discipline	Forestry sciences		
Course objectives	To convey knowledge on changes in the natural environment and landscape in subsequent periods of the Holocene, occurring in the territory of Poland under the influence of natural processes and human activity.				
Course content	<ol style="list-style-type: none"> 1. Methods of paleoecological research and reconstruction of changes in the natural environment. Palynological, limnological and archaeological sources. Stratigraphic division of the Holocene and periodization of human history in Poland. Climatic changes and their impact on the formation of the landscape and vegetation after the last glaciation. 2. Settlement processes and development of the cultural landscape in subsequent periods of the Holocene and their ecological consequences. 3. The impact of old forms of industry and use on the landscape and the forests. Fragmentation of the forest landscape and its effects. 4. Changes in the hydrographic network under the influence of natural processes and human activity. 5. The impact of natural and anthropogenic environmental changes on biogeographic processes. Changes in the ranges and share of main forest species and forest types in the Holocene. 				
Teaching methods	The multimedia presentation, information lecture, tasks for self-development				
Assessment method	Passing the lecture				
Symbol of learning outcome	Learning outcomes		Reference to the learning outcomes for the field of study for the 8th level of Polish Qualification Framework (PRK)	Methods of assessing the learning outcomes	
LO1	The PhD student has knowledge about natural and anthropogenic factors shaping the natural environment and landscape.		SD_W1	Passing the lecture	

LO2	The PhD student knows the methods of research on the dynamics of the natural environment and is able to critically analyze their results.	SD_U2	Passing the lecture
LO3	The PhD student is able to identify the impact of natural and anthropogenic factors on the natural environment based on scientific research results.	SD_U1	Passing the lecture
Student workload (in hours)			
Lecture	10 / 0 / 0 / 0 / 0		
Consultations	5		
The unassisted student work	15		
Implementation of project tasks and preparation for and participation in exams/tests	10		
Total	40		
ECTS credits	1		
Basic references	<ol style="list-style-type: none"> 1. Roberts N. <i>The Holocene. An environmental history</i>. Willey Blackwell, 2014. 2. Head L. <i>Cultural Landscapes and Environmental Change</i>. Routledge, 2000. 		
Supplementary references	<ol style="list-style-type: none"> 1. Kopczyński K., Skoczylas J. <i>Krajobraz przyrodniczy i kulturowy: próba ujęcia interdyscyplinarnego</i>. Wyd. UAM, 2008 [In Polish with English summary]. 2. Gancarski J. (red.). <i>Zmiany środowiska i warunków klimatycznych w okresie od schyłkowego paleolitu do końca średniowiecza i ich wpływ na warunki życia człowieka w północnej części Europy Środkowej</i>. Krosno, 2021 [In Polish with English summary]. 3. Starkel L. (red.). <i>Geografia Polski. Środowisko przyrodnicze</i>. WAM, 1999 [In Polish with English summary]. 		
Author of the programme	Prof. Piotr Banaszuk, Dan Wołkowycki, PhD		
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