Sylabusy - Centrum Informatyczne UG Dział Kształcenia



	KAPITAŁ LUDZKI Narodowa strategia spójności	Projekt ws Unię Eu Europe S	półfin iropej ejskie Społe [,]	ansowany iską w rama go Fundusz cznego	przez ich :u	UNIA EUROPEJSKA EUROPEJSKI FUNDUSZ SPOŁECZNY	
Course title				ECTS	S code		
Animal movement						1 1459	
Name of unit admini				10			
null Studios							
faculty	field of study	t	type all				
Faculty of Biology	Natural Resources	I snec	rorm vialty	all			
	and Experimental	specializa	ation				
	Biology, Medical			all			
	Biology, Biology						
Teaching staff dr.bab. Magdalana Reminiawiazi dr.bab. Wajajach Bakara, profesor yazalaj							
Forms of classes, the realization and number of hours					ECTS credits		
Forms of classes							
						ark in contact with the lecturer	
The realization of activities						rtigingtijen in legturen.	
The realization of at					iting the exem 2 hours		
classroom instruction, online classes					VVI	ling the exam – 2 hours	
Number of hours						lividual work by the student:	
Lecture: 15 hours					Dr	and an work by the student.	
The academic cvcle							
2022/2023 summo	r comostor						
	Lan	Language of instruction					
Type of course							
an elective course			english				
Teaching methods		For	Form and method of assessment and basic criteria for eveluation or examination requirements				
Lecture with multimedia presentation and discussion			Final evaluation				
			- written exam with open questions				
			- Written assignment with test and open questions				
		The	basi	ic criteria fo	or eva	luation	
Method of verifying required learning outcomes			The condition of a student being allowed to take exam is participation in all lectures. Allowed absence is 5 hours of lecture (225 min) in case of justified emergencies, e.g. sickness, hospitalisation, family problems, justified by relevant documents presented to the lecturer. The student can compensate for the absence by reading materials indicated by the lecturer or watching a recording from a lecture, if available.				
			Completing the course is based on written assignment during the last lecture, marked according to the percent scale (according to "Rules of studying at UG") with test questions, open questions and sketches to label. The assignment covers the material from lectures. In case of not passing the assignment at the first date, the student can write the assignment of the same kind as the first one more time at the date agreed with the lecturer.				

Animal movement #13.1.1459 Sylabusy - Centrum Informatyczne UG Dział Kształcenia



zakładany efekt kształcenia	Lecture with multimedia presentation and discussion						
	Knowledge						
B_W01	Contribution to discussion.						
B_W04	Writing exam (assigment with test and open questions).						
	Skills						
B_U06	Writing exam (assigment with test and open questions).						
	Social competences						
O_K05	Writing exam (assigment with test and open questions). Contribution to discussion						
Required courses and introductory requirements							
A. Formal requirements None							
B. Prerequisites							
Aims of education							
Understanding reasons, mechanisms and adaptations of animals to migrations, as an important element of animal's life cycle in seasonal climates							
Course contents							
 General patterns and rules in animal movements. Altitudinal migrations in water and in mountains. Breeding migrations in different groups of animals. Seasonal migrations vs irruptive and irregular movements. Mechanisms of animal navigation and orientation during migration. Regular patterns and outstanding achievements of migratory animals. Novel techniques in studies of animal movements. 							
Bibliography of literature							
 A. Compulsory: Dingle H. 1996. Migration: The Biology of Life on the Move. Oxford University Press. Hansson LA., Åkesson S., (eds). Animal Movement Across Scales. Oxford: Oxford University Press, 2014. Oxford Scholarship Online, 2014. doi: 10.1093/acprof:oso/9780199677184.001.0001. B. Facultative: Jetz W, Tertitski G, Kays R, Mueller U, Wikelski M. and Supporting authors. 2022. Biological Earth observation with animal sensors. Trends in 							
Ecology & Evolution 37 (4): 293–298. Remisiewicz M. Underhill I.G. 2022. Climate in Africa seque	ntially shapes spring passage of Willow Warbler Phylloscopus trochilus across the Baltic						
Remisiewicz IVI, Undernill LG. 2022. Climate in Africa sequentially snapes spring passage of Willow Warbler Phylloscopus trochilus across the Baltic coast. PeerJ 10:e12964 DOI 10.7717/peerj.12964 Milner-Gulland, E.J., J.M. Fryxell, Sinclair A.R.E.2011. Animal Migration: A Synthesis. Oxford University Press.							
Newton I. 2010. Bird Migration. Harper Collins. Elphick, J. 1995. The atlas of bird migration: tracing the great journeys of the world's birds. Random House. Berthold, P. 2003. Avian migration. Springer.							
Lucas, M.C. and Baras, E. 2001. Migration of freshwater fishes. Blackwell Science.							
Drake, V.A. and Gatehouse, A. G. 1995. Insect migration: tracking resources through space and time. Cambridge University Press.							
specialization)							
	A student consistently applies and disseminates the principle of a strict, based on empirical data, interpretation of biological phenomena and processes in research and practical activities						
	A student has in-depth knowledge of the animal movements						
	Skills						
	A student selects and applies knowledge on animal movements to interpret and conclude on empirical data related to animal movements.						
	Social competence						
	A student understands the need to use recognized sources of scientific and popular						
	science information on animal behaviour in order to deepen knowledge.						

Sylabusy - Centrum Informatyczne U

Contact

magdalena.remisiewicz@ug.edu.pl

