Course title	Fundamentals of Genetics and Evolutionary Biology		
Course code	Semester	ECTS	Lectures/ classes
13.1.1443	winter	3	Lectures: 15 hours+ Lab class: 20 hours
Name of the lecturer and contact	dr Adrianna Kilikowska; adrianna.kilikowska@ug.edu.pl		
Prerequisites	none		
Course description	multiple alleles, mendelian per Quantitative characters: proper pleiotropy, polygenic inheritary. The eukaryotic genome and crosses, extranuclear inheritary. The chromosomal basis of the Genetic mapping of Menders Genetic structure of popurecombination, selection, might the context of the patterns organisation. LABORATORY TRAINING Drosophila melanogaster as of D. melanogaster to illustrate Mendelian's Laws - Dominary. Multiple allele - Modifier general elements of linked general elements. Mea elements of popular elements of popular elements.	edigree patterns benetrance and expressivity, meance d chromosomes in cells: recombinate heredity: sex-linked heredity, the lian characters and genetic mark ulations; interactions between a gration and genetic drift in and processes of biodiversity G CONTENT: a model organism. Crossing exp ate a range of inheritance pattern ance and recessivity enes and epistatic genes heritance. Sex determination	the evolutionary forces: mutation, at different levels of biological eriments using pure breeding strains s: evein in D. melanogaster. em.

	Knowledge:		
Learning outcomes	- explain important processes, principles and concepts and critically evaluate		
	theories and empirical research within evolutionary biology		
	- describes mechanisms of the flow of genetic information, and sources of variability		
	of organisms;		
	- explain the most important laws and rules in genetics		
	Skills:		
	- recalls technical English-language vocabulary in the field of biological sciences in everyday		
	professional / scientific activity		
	- uses basic research equipment and tools, as well as maintains correct order of		
	activities in the laboratory,		
	- conducts observations and performs basic genetic experiments in the laboratory		