

Module name:	General and veterinary genetics	
ECTS:	2	
Learning effects	Course outcomes:	
Knowledge:	1	Student has knowledge of the structure of cell genetic information carriers and molecular mechanisms of the basis of inheritance
	2	Student defines and describes the principles and processes of inheritance, recognizes genetic disorders and understands the mechanisms of the emergence and inheritance of genetic diseases, including cancer
	3	Student knows the basics of population genetics
	4	Student knows the basic possibilities of genetic engineering
	5	Student knows the rules of collecting, securing and transporting material for genetic testing
Skills:	1	Student correctly uses terminology in the field of genetics
	2	Student is able to logically and creatively present genetic issues in the aspect of cell, organism and population
	3	Student is able to propose methods for the diagnosis of genetic diseases and is able to interpret the results obtained
Competences:	1	Student understands the existence of a variety of genetic features between individual species of pets, is ready to use this knowledge in the implementation of further study, especially in the field of clinical subjects
	2	Student is prepared to communicate and cooperate with a genetic specialist in the diagnosis of genetic diseases
	3	Student critically assesses the scope of his knowledge and has the habit of constantly deepening his knowledge using objective sources of knowledge
Objectives of the module required to obtain learning effects:	During the course, students acquire both basic and the latest information and knowledge in the field of the structure of DNA and chromosomes, mechanisms of gene function, their mutations, genetic diseases, methods of genetic analysis as well as population relationship in animal breeding.	
Assessment methods:	Written test	