

Subject name	Molecular Markers in Poultry Breeding and Bird Conservation	
Subject code	H.DFZa.MOL9.SM.HZOBY	
Department	Swine and Small Animal Breeding	
Faculty	Animal Sciences	
Subject supervisor/Lecturer	Dr. Krzysztof Andres	
General information	semester	summer
	ECTS credits	3
	Lectures total	10 hrs
	Laboratories	10 hrs
Objective and general description	<p>The course provide an introduction to molecular markers and their use in avian conservation, breeding and management. The laboratory practicals will be given to provide a complete method of evaluation of genetic diversity in poultry with the use of STR markers.</p> <p><u>Lectures :</u></p> <ol style="list-style-type: none"> 1. Genetic markers in biodiversity analysis and conservation studies. 2. Application of DNA markers for the study of population structure of wild and domestic birds. 3. Molecular markers in avian taxonomy and phylogeny. 4. Molecular markers and linkage mapping in poultry. 5. Molecular DNA sex typing of birds. <p><u>Lab practicals:</u></p> <p>Amplification and detection of STR markers in endangered populations of indigenous poultry breeds and varieties. Statistical analysis of molecular data.</p>	
Assessment method	test	
References	<p>Avise, J.C. 2004. Molecular Markers, Natural History, and Evolution (Second Edition). Sinauer, Sunderland, MA. (684 pp.).</p> <p>Crawford R.D.: Poultry Breeding and Genetics. Elsevier Science Publishing Company, New York, USA, 1990.</p> <p>Muir W.M., SE Aggrey S.E.: Poultry Genetics, Breeding and Biotechnology. CABI, Wallingford, UK, 2003.</p>	