Module of classes:
POULTRY BREEDING AND PRODUCTION

ECTS	**3**
Status	**complementary - obligatory**
Form of final credit	**credit**
Prerequisites	**Knowledge and skills in bird anatomy and physiology, animal breeding and genetics methods, animal nutrition, livestock keeping methods and zootechnical legislation.**

Field of study:
ANIMAL SCIENCE

Profile of study	**General-academic**
The code of the form of study and the level of study	**bachelor**
Semester of study	**winter**
Language of study	**English**

The leading faculty, department and the lecturer of the module:

Name of the competent unit for the coordinator	**Faculty of Animal Sciences, Department of Animal Reproduction, Anatomy and Genomics**
Courese coordinator	**Dr. Krzysztof Andres, Ph.D.**

Learning outcomes of the module/subject

The code of the description component (symbol of the effect)	Description	Relation to (code)	
		field effect	discipline#
KNOWLEDGE – the student knows and/or understands:			
POU_W1	Characterizes basic utility types and breeds of poultry.	ZOO1_W11	RZ
POU_W2	Describes the principles of breeding work in flocks of various species of poultry	ZOO1_W13	RZ
POU_W3	Explains the role of biological features of birds in poultry production.	ZOO1_W04, ZOO1_W10	RZ
POU_W4	Indicates the desirability of protecting genetic resources in poultry.	ZOO1_W11	RZ
POU_W5	Describes technologies for the production of eggs and meat of various species of poultry.	ZOO1_W10, ZOO1_W11	RZ
SKILLS – the student can:			
POU_U1	Can carry out rearing of domestic birdsand organize the production of eggs and meat of poultry.	ZOO1_U08, ZOO1_U17	RZ
POU_U2	Is able to recognize poultry breeds and conduct breeding work in breeding flocks and assess the breeding value of animals.	ZOO1_U15, ZOO1_U16	RZ
POU_U3	Is able to assess egg quality and post-slaughter performance of broiler chickens.	ZOO1_U10	RZ
SOCIAL COMPETENCE- the student is ready to:			
POU_K1	Creative in organizing poultry production. Willing to further expand knowledge.	ZOO1_K01, ZOO1_K03	RZ
POU_K2	Sensitive to bird welfare.	ZOO1_K05, ZOO1_K06	RZ

Teaching content:

Lectures	**10**	**hours**

Subjects of lectures	Origin of poultry species. Breeds of poultry. Qualitative and quantitative genetics of poultry. Genomic and bioinformatics in poultry breeding. Selection strategies for layer and broiler production. Laying hens: extensive, semi intensive and intensive systems. Broiler production systems. Reproductive biology of poultry. Avian embryo development and incubation. Duck and geese production systems. Turkey management. Factors affecting eggs and poultry meat quality.
Realized learning outcomes	*POU_W1, POU_W2, POU_W3, POU_W4, POU_W5*
Verification methods and criteria of effects evaluation	*At least 55% of the correct answers to the questions asked must be given to the positive grade; the share of the lecture grade in the final grade is 60%.*

Classes	**15**	**hours**

Subjects of the classes	Evaluation of commercial eggs quality. Slaughter value and quality of poultry meat. Technology of egg incubation and rearing of chicks. Broiler breeders and laying hens management. Semen collection, evaluation and artificial insemination.
Realized learning outcomes	*POU_U1,POU_U2, POU_U3*
Verification methods and criteria of effects evaluation	*Positive grades should include pass of individual laboratory exercises and correctly answer at least half of the final test questions; the share of the grade for laboratory exercises in the final grade is 40%.*

Seminars	**0**	**hours**

Subjects of the seminars	not applicable
Realized learning outcomes	*not applicable*
Verification methods and criteria of effects evaluation	*not applicable*

Literature:

Basic	*Crawford R.D.: Poultry Breeding and Genetics. Elsevier Science Publishing Company, New York, USA, 1990.* *Etches R. J.: Reproduction in Poultry. CABI, Oxford, UK, 1996.* *Leeson S., Summers J.D.: Broiler Breeder Production. University Books, Guelph, Ontario, 2000, 329 pp.*
Supplementary	*Nesheim M. C., Austic R. E., Card. L. E.: Poultry Production. Lea & Febiger, Philadelphia, USA, 1979.* *Muir W.M., SE Aggrey S.E.: Poultry Genetics, Breeding and Biotechnology. CABI, Wallingford, UK, 2003.*

Structure of learning outcomes:

Dyscipline – animal husbandry and fishery (RZ)	*3*	ECTS*
Dyscipline –…	*0*	ECTS*

Structure of student's activities:

classes carried out with direct participation of the teacher		39	hours	1,6	ECTS*
including:	lectures	10	hours		
	classes and seminars	15	hours		
	consultations	9	hours		
	participation in research	0	hours		

mandatory practices and internships	0	hours		
participation in the exam and credits	5	hours		
classes carried out with the use of e-learning	0	hours	0	ECTS*
student's own work	36	hours	1,4	ECTS*

) * - Reported to the nearest to 0,1 ECTS, where 1 ECTS = 25-30 hours of classes
) # discipline code: RZ - zootechnics and fishery, PB - biological sciences