

**Course name:**

**POULTRY BREEDING AND PRODUCTION**

ECTS	3
Course status	complementary - obligatory
Course final assesement/evaluation of outcomes	credit
Prerequisites	Knowledge and skills in bird anatomy and physiology, animal breeding and genetics methods, animal nutrition, livestock keeping methods and zootechnical legislation.

**Main field of study:**

**ANIMAL SCIENCE**

Profile of study	General-academic
The code of studies (education level)	SI
Semester of studies	winter
Language of instruction	English

**Course offered by:**

Name of faculty offering the course	Faculty of Animal Sciences
Name of department offering the course	Department of Animal Reproduction, Anatomy and Genomics
Course coordinator	Krzysztof Andres PhD, Małgorzata Gumułka DSc, Marcin Lis DSc

**Learning outcomes of the course:**

Symbol of outcome	Description of learning outcome	Reference to	
		main field of study outcomes	discipline#

**KNOWLEDGE – student knows and/or understands:**

PPP_W1	Characterizes basic utility types and breeds of poultry.	ZOO1_W11	RZ
PPP_W2	Describes the principles of breeding work in flocks of various species of poultry.	ZOO1_W13	RZ
PPP_W3	Explains the role of biological features of birds in poultry production.	ZOO1_W04, ZOO1_W10	RZ
PPP_W4	Indicates the desirability of protecting genetic resources in poultry.	ZOO1_W11	RZ
PPP_W5	Describes technologies for the production of eggs and meat of various species of poultry.	ZOO1_W10, ZOO1_W11	RZ

**SKILLS – student is able to:**

PPP_U1	Can carry out rearing of domestic birds and organize the production of eggs and meat of poultry.	ZOO1_U06, ZOO1_U17	RZ
PPP_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
PPP_U3	Is able to assess egg quality and post-slaughter performance of broiler chickens.	ZOO1_U10	RZ

**SOCIAL COMPETENCE- student is ready to:**

PPP_K1	Creative in organizing poultry production. Willing to further expand knowledge.	ZOO1_K01, ZOO1_K03	RZ
PPP_K2	Sensitive to bird welfare.	ZOO1_K05, ZOO1_K06	RZ

**Teaching contents:**

**Lectures** **10 hours**

Topics of the lectures	<p>Origin of poultry species. Breeds of poultry.</p> <p>Qualitative and quantitative genetics of poultry. Genomic and bioinformatics in poultry breeding. Selection strategies for layer and broiler production.</p> <p>Laying hens: extensive, semi intensive and intensive systems.</p> <p>Broiler production systems.</p> <p>Reproductive biology of poultry. Avian embryo development and incubation.</p> <p>Duck and geese production systems. Turkey management.</p> <p>Factors affecting eggs and poultry meat quality.</p>
------------------------	--

Accomplished learning outcomes	<i>PPP_W1, PPP_W2, PPP_W3, PPP_W4, PPP_W5</i>
--------------------------------	---

Verification methods, rules and criteria of outcome assessment	<i>At least 55% of the correct answers to the questions asked must be given to the positive grade; together with participation in the final assessment (in 60%)</i>
--	---

**Classes** **15 hours**

Topics of the classes	<p>Evaluation of commercial eggs quality.</p> <p>Slaughter value and quality of poultry meat.</p> <p>Technology of egg incubation and rearing of chicks.</p> <p>Broiler breeders and laying hens management.</p> <p>Semen collection, evaluation and artificial insemination.</p>
-----------------------	---

Accomplished learning outcomes	<i>PPP_U1, PPP_U2, PPP_U3</i>
--------------------------------	-------------------------------

Verification methods, rules and criteria of outcome assessment	<i>Positive grades should include pass of individual laboratory exercises and correctly answer at least half of the final test questions; together with participation in the final assessment (in 40%)</i>
--	--

**Seminars** **... hours**

Topics of the seminars	
------------------------	--

Accomplished learning outcomes	<i>symbol of learning outcomes of the seminars</i>
--------------------------------	--

Verification methods, rules and criteria of outcome assessment	<i>together with participation in the final assessment (in %)</i>
--	---

**References:**

Basic	<i>Crawford R.D.: Poultry Breeding and Genetics. Elsevier Science Publishing Company, New York, USA, 1990.</i> <i>Etches R. J.: Reproduction in Poultry. CABI, Oxford, UK, 1996.</i> <i>Leeson S., Summers J.D.: Broiler Breeder Production. University Books, Guelph, Ontario, 2000, 329 pp.</i>
Supplementary	<i>Muir W.M., SE Aggrey S.E.: Poultry Genetics, Breeding and Biotechnology. CABI, Wallingford, UK, 2003.</i>

**Structure of learning outcomes:**

Discipline: RZ	3	ECTS**
----------------	---	--------

**Structure of student activities:**

Contact hours	25	hours	2	ECTS**
including:				
lectures	10	hours		
classes and seminars	15	hours		
consultations	0	hours		
participation in research	0	hours		
mandatory traineeships	0	hours		
participation in examinations	1	hours		
e-learning	0	hours	0	ECTS**
student own work	15	hours	1	ECTS**

Syllabus valid from the academic year 2021/2022

\* where 10 hours of classes = 1 ECTC (in case of 15 h → 2 ECTS)

\*\* stated with an accuracy to 0.1 ECTS, where 1 ECTS = 25 - 30 hours of classes

# academic discipline code: RZ - animal science and fishery, PB - biological sciences, etc.