

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 assesment (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 assesment (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 assesment (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.