



Course title: AVIAN REPRODUCTION

ECTS credit allocation (and other scores): 2

Semester: autumn

Level of study: ISCED-6 - first-cycle programmes (EQF-6)

Branch of science: Agricultural sciences

Language: English

Number of hours per semester: 30

Course coordinator/ Department and e-mail: prof. Krzysztof Kozłowski/ Department of Poultry Science;  
k.kozlowski@uwm.edu.pl

Type of classes: classes and lectures

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#### Substantive content

**CLASSES:** Biological aspects of bird reproduction, functioning of the male and female reproductive system, oogenesis, vitellogenesis, steroidogenesis, spermatogenesis. The specificity of fertilization, genetic and environmental factors conditioning bird reproduction. Methods of breeding birds. Assessment of semen and hatching eggs quality. Assessment of sperm quality and sperm fertilizing capacity. Sperm preservation methods. Threats resulting from male and female reproductive function disorders. Selection of the appropriate method used to assess the reproductive function of birds.

**LECTURES:** Explanation of selected issues regarding the biological basis for the functioning of the male and female reproductive system. Mating birds and fertilization, environmental factors related to the maintenance of reproductive birds, the development of a bird embryo in the mother's body and beyond, the importance of artificial insemination in the reproduction of birds and the protection of endangered species. Male and female reproductive function disorders. Skills in the field of semen and hatching eggs assessment, useful for specialist practice and professional work. Advances in knowledge in the field of bird reproduction.

**Learning purpose:** Transfer of knowledge about methods used in reproduction of male and female birds.

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On completion of the study programme the graduate will gain:

**Knowledge:** knows the basic concepts and methods used in bird reproduction.

**Skills:** can choose the right course of action and apply it in bird farming.

**Social Competencies:** strives to continuously improve knowledge in the field of bird reproduction.

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**Basic literature:** Sasanami T. (edt.) Avian reproduction. From behavior to molecules.

**Supplementary literature:** Al-Darai H.J. Avian reproductive physiology.

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The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 31

Student's independent work: 18