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Course title: TECHNOLOGIES IN ANIMAL PRODUCTION

ECTS credit allocation (and other scores): 2

Semester: autumn

Level of study: ISCED-7- long-cycle programmes (EQF-7)

Branch of science: Agricultural sciences

Language: English

Number of hours per semester: 30

Course coordinator/ Department and e-mail:

dr hab. Tadeusz Bakula, Department of Veterinary Prevention and Feed Hygiene, [bakta@uwm.edu.pl](mailto:bakta@uwm.edu.pl) . dr hab. Wojciech Barański, Department of Animal Reproduction with the Clinic, [wojbar@uwm.edu.pl](mailto:wojbar@uwm.edu.pl) prof. dr hab. Andrzej Koncicki Department of Birds' Diseases, [koncicki@uwm.edu.pl](mailto:koncicki@uwm.edu.pl)

Type of classes: classes and lectures

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#### Substantive content

CLASSES: Poultry houses and equipment for poultry production turkeys, laying hens, broiler chickens, waterfowl and ostriches. Field classes on turkey and ostrich farms. Technologies in pig farming and pork production; Management and housing systems. Feeding systems and manure removal systems. Field classes on a large-scale commercial pig farm. Cattle breeding, cattle houses, cowsheds and various types of dairy cattle. Cattle identification systems. Milking systems, automatic milking, milking machines. The effects of management and housing systems on herd health status.

LECTURES: Students will learn about: technologies in poultry production (turkeys, laying hens, broiler chickens, waterfowl and ostriches). World pork production and pig farming, the position of the Polish pork industry. Pig farming structure in Poland. Pig production traits. Large-scale (commercial) and small-scale (smallholder) pig farming. Technology and management schemes for different groups of pigs. Technologies in dairy cattle and beef cattle breeding. Calf rearing systems. Technopathies in cattle production. Good Hygiene Practices, epizootic disease control and prevention on animal farms.

Learning purpose: Learning about different technologies in animal breeding, large and small-scale animal production.

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On completion of the study programme the graduate will gain:

Knowledge: Graduates will have knowledge of various animal production technologies.

Skills: - Graduates will be able to select adequate technological solutions to assure animal.

Social Competencies: Graduates will have the qualifications to understand the organization of large-scale livestock production

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#### Basic literature:

1. Farmer's Hand Book on Pig Production(For the small holders at village level). GCP/NEP/065/ECFood and Agriculture Organization of the United NationsWith Financial Assistance from the European Commission. FAO 2009.



2. New Livestock Farmer. Autor: Thistlethwaite Rebecca. The Business of Raising and Selling Ethical Meat 2015 ISBN 10: 1603585532
3. IMPROVING HEALTH AND WELFARE OF PIGS. A handbook for organic pig farmers. ISBN: 978-3-03736-278-5 FiBL order No: 1676, 2015.
4. Bell D.D., Weaver W.D.: Commercial chicken meat and egg production. Kluwer Academic Publisher, 2002, USA.
5. Brugere-Picoux J. et al.: Manual of Poultry Diseases. English edition, 2015, AFAS.
6. Saif Y.M. et al. Diseases of Poultry. 12th edition, Blackwell Publishing 2008.
7. Christian Sinder. Dairy Farming. Animal Husbandry and Welfare. 2016
8. Mahesh Kadam, ranking Patil, Milind Bhujbal. Animal Husbandry and Dairy Management. 2017

Supplementary literature:

Magazines: Medycyna Weterynaryjna" ("Veterinary Medicine"); Polish Journal of Veterinary Sciences; Poultry Sciences

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The allocated number of ECTS points consists of: 2

Contact hours with an academic teacher: 30

Student's independent work: 40