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Course title: INFECTIOUS DISEASES OF FARM ANIMALS I

ECTS credit allocation (and other scores): 3

Semester: autumn

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

Branch of science: Agricultural sciences

Language: English

Number of hours per semester: Lecture: 23, Exercises: 30

Course coordinator/ Department and e-mail: prof. dr hab. Wojciech Szweda; Department of Epizootiology;  
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Type of classes: classes and lectures

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#### Substantive content

**CLASSES:** Actions of Regional Veterinary Surgeon during suspicion, affirmation and elimination of bovine tuberculosis. Diagnostics and eradication of bovine brucellosis and enzootic bovine leukemia, realization of serological examinations (AGID, ELISA). Mycoses of farm animals – differential diagnosis, prevention and control methods. Diagnostics and prevention methods of foot and mouth disease and anthrax, DIVA strategy. Diagnostics and eradication of BSE. Diagnosis and control rules of IBR/IPV, BVD-MD and calf diseases (BRDC, pasteurellosis, pneumococcosis, colibacteriosis, salmonellosis, legionellosis, *H. somni* and *Campylobacter sp.* infections, rotavirus and coronavirus infections. Diagnostics and control of infectious diseases of sheep – sheep pox, contagious pustular dermatitis, louping ill, maedi-visna disease, lamb dysentery, enterotoxemia of sheep, black disease, braxy, listeriosis. Diagnostics and control of selected goat diseases – caprine arthritis/encephalitis, goat lymphadenitis, chlamydiosis, foot-rot.

**LECTURES:** General epizootiology. Infectious diseases of cattle - cow pox, pseudo cow pox, lumpy skin disease, bovine herpes mamillitis, dermatitis nodosa, bovine papillomatosis, black leg, malignant edema, dermatophilosis, contagious bovine pleuropneumonia, lung aspergillosis, paratuberculosis, bovine enterotoxemia, candidosis, stomatitis – vesicular, papular, diphtheral, infectious hemoglobinuria, bovine ehrlichiosis, bovine anaplasmosis, tetanus, botulism, epizootic abortion in cattle, bovine genital campylobacteriosis, infectious pustular vulvovaginitis, fungal abortion, foot and mouth disease, rinderpest, malignant catarrhal fever, actinomycosis, bovine actinobacillosis, nocardiosis, necrobacillosis. Infectious diseases of sheep and goats – contagious agalactia, ovine pulmonary adenocarcinoma, bluetongue, Rift Valley fever, Akabane disease, Nairobi disease, border disease, wesselsbron disease, ovine ehrlichiosis, ovine actinobacillosis, goat herpesvirus infection, infectious balanoposithis, peste de petits ruminants, tularemia.

**Learning purpose:** The objective of education is an acquisition by the student theoretical knowledge in the area of causes and mechanisms of formation and transmission of the infectious diseases of farm animals (cattle, sheep, goats), as well as practical skills regarding recognition, differentiation, treatment, prevention and control of infectious diseases of cattle, sheep and goats.

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On completion of the study programme the graduate will gain:

**Knowledge:** Student describes and interprets the causes, clinical signs and pathological lesions, applies the rules of treatment and prevention of particular diseases; implements the rules of diagnostic (including differential diagnosis) and therapeutic procedures; carries out a clinical examination of the patient and monitors the state of animal health in industrial breeding; applies proper procedures in case of ascertainment of notifiable diseases under control or

registration; collects, analyzes and correctly interprets the clinical data and the results of laboratory and additional examinations.

**Skills:** Student speaks English and Latin medical nomenclature; carries out a veterinary interview in order to obtain precise information about a single animal or group of animals; performs a full clinical examination of the animal; takes, protects and knows the rules for transport of samples and performance of standard laboratory tests; implements appropriate procedures in case of ascertainment of notifiable disease under control or registration; selects and applies an appropriate treatment; develops and implements prevention programs specific to each animal species.

**Social Competencies:** Student demonstrates responsibility for decisions taken towards humans and animals; is able to critically assess their own and other people's actions and improve the proposed solutions; possess a habit of lifelong learning to enhance knowledge and improve skills; puts the welfare of the patient in the first place.

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**Basic literature:** 1) P. D. Constable, K. W. Hinchcliff, S. H. Done, W. Gruenberg Veterinary Medicine - E-BOOK: 11th Edition, Kindle Edition 2016 2) J. Winkelmann, S. Anderson Sheep and Goat Diseases 4th Edition, 2016; 3) Simon F. Peek, Thomas J. Divers, Rebhun's Diseases of Dairy Cattle 3rd Edition, Saunders, 2018; 4) P. Quinn, B. Markey, M. Carter, G.R. Carter Clinical Veterinary Microbiology, Mosby, 2013; 5) Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 8th Edition, 2018, Volumes 1, 2 and 3, ISBN 978-92-95108-18-9.

**Supplementary literature:** 1) R.W. Blowey, A.D. Weaver wyd. I polskie, red. J. Nicpoń, Atlas chorób bydła, wyd. Elsevier, 2008; 2) SCOTT W. DANNY, Atlas chorób skóry zwierząt gospodarskich, wyd. Galaktyka, 2009;

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The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 53

Student's independent work: 37