



Course title: INFECTIOUS DISEASES OF FARM ANIMALS II

ECTS credit allocation (and other scores): 2

Semester: spring

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

Branch of science: Agricultural sciences

Language: English

Number of hours per semester: Lecture: 13, Exercises: 24

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

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Type of classes: classes and lectures

Substantive content

CLASSES: Differentiation, prevention and control of infectious diseases of swine respiratory tract (mycoplasmal pneumonia of swine, atrophic rhinitis, pleuropneumonia, influenza, PCVD, PRDC, streptococcal diseases, pasteurellosis), post mortem examination. Therapy and control of infectious diseases of swine alimentary tract (swine dysentery, spirochotosis, proliferative enteropathies, necrotic enteritis, salmonellosis, colibacteriosis, TGE, PED, piglet rotaviral diarrhea, PCV2 infection) – autopsy and laboratory diagnostics. Diagnosis, differentiation and eradication of classical and african swine fever. Diagnostics and eradication of enteroviral encephalomyelitis and Aujeszky's disease. Systemic diseases - erysipelas, salmonellosis, swine vesicular disease, yersiniosis – diagnostics, control. Preventive and prophylactic programs in pig farms.

LECTURES: Infectious diseases of swine – swine pox, staphylococcosis, exudative epidermitis, skin abscesses, pityriasis rosea, porcine respiratory disease complex, swine influenza, TBC-like infections, yersiniosis, encephalomyocarditis, vomiting and wasting disease, congenital tremors, porcine myocarditis syndrome, porcine parvovirus infection, SMEDI syndrome, porcine reproductive and respiratory syndrome, leptospirosis, swine brucellosis, urinary tract infections, *Mycoplasma hyosynoviae* arthritis, *M. hyorhinis* infection, Glläser's disease, actinobacillosis, pseudomonadosis, *M. haemosuis* infection.

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 (swine), as well as practical skills regarding recognition, differentiation, treatment, prevention and control of infectious diseases of swine.

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.

Basic literature: 1) J.J. Zimmerman, L. A. Karriker, A. Ramirez, K. J. Schwartz, G. W. Stevenson, J. Zhang Diseases of Swine, 11th Edition, Wiley-Blackwell 2019; 2) P. D. Constable, K. W. Hinchcliff, S. H. Done, W. Gruenberg Veterinary Medicine - E-BOOK: 11th Edition, Kindle Edition 2016; 3) 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) W. J. Smith, R. H. C. Penny, D. J. Taylor A Colour Atlas of Diseases and Disorders of the Pig, 1990.

The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 39

Student's independent work: 21