UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN
Faculty of Veterinary Medicine

Infectious diseases of farm animals I

ECTS: 3.00

SUBJECT MATTER CONTENT

LECTURE

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, diphteral, 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, necrobacylosis. 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.,CLASSES AUDYTORYJNE:Actions of Regional Veterinary Surgeon during suspition, 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 month disease and anthrax, DIVA strategy. Diagnostics and eradication of BSE. Diagnosis and control rules of IBR/IPV, BVD-MD and calf diseases (BRDC, pasteurellosis, pneumococcois, colibacteriosis, salmonellosis, legionellosis, H. somni and Campylobacter sp. infections, rotavirus and coronavirus infections. Diagnostics and control of infections 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.,CLASSES PRAKTYCZNE:Independent performance of veterinary procedures carried out as part of exercises (Tuberculinization).

TEACHING OBJECTIVE

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.

DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:

Symbols for outcomes related to the discipline:	R/WA_P7S+++

Legal acts specifying learning outcomes:
682/2020
Disciplines: Veterinary science
Status of the course: Obligatoryjny
Group of courses:B - przedmioty kierunkowe
Code: ISCED 0841
Field of study: Veterinary Medicine
Scope of education:
Profile of education: General academic
Form of studies: full-time
Level of studies: uniform master's studies
Year/semester: 4/7

Types of classes: Lecture, Classes, Practical classes
Number of hours in semester: Lecture: 15.00, Classes: 36.00, Practical classes: 9.00
Language of instruction: Polish
Introductory subject: Microbiology, Immunology, Pharmacology, Pathophysiology, Pathomorphology, Veterinary epidemiology.
Prerequisites: Knowledge of basic definitions and topics of above introductional subjects.

Name of the organisational unit conducting the course: Katedra Epizootiologii
Person responsible for the realization of the course:prof. dr hab. wet. Agata Bancerz-Kisiel
e-mail: a.bancerz-kisiel@uwm.edu.pl

Additional remarks: Field, practical and laboratory exercises in small groups.

Symbols for outcomes related to the field of study:

K.1.+, B.U8. +, A.W10. +, A.U14. +, K.8.+, A.W13. +, A.U23. +, B.W2. +, K.11.+, B.W3. +, B.W1. +, B.U19. +, B.U21. +, B.W5. +, A.W17. +, B.U6. +, B.U3. +, B.W6. +, B.U20. +, B.U2. +, B.U13. +, B.W4. +, B.W8. +

LEARNING OUTCOMES:

Knowledge:

W1 – 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:

U1 – 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 competence:

K1 – 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.

TEACHING FORMS AND METHODS:

Lecture(W1;U1;K1;):Lecture - with a multimedia presentation, films.
Practical classes(W1;U1;K1;):Classes conducted on a cattle farm - tuberculinization. Laboratory exercises - laboratory diagnosis of selected infectious diseases of ruminants.

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Lecture (Written exam) - The exam covers contagious diseases of cattle, sheep, goats and pigs, discussed during both semesters of lectures and exercises. To pass the exam, you must obtain at least 65% of the possible points. The grading of grades is based on the score thresholds described in the faculty procedure "Principles of grading students". The student may take the exam improvement twice. The condition for receiving the final credit for the exercises and lectures is to obtain a positive grade from the entire material discussed in the course of the classes. "In the event of a top-down suspension of classroom classes and the necessity of distance learning, the methods of verifying the achievement of learning outcomes declared in the syllabus, i.e. the forms of passing the exam and exercises, may change in a manner appropriate to the situation." -
Classes (Written test) - Written test - knowledge of basic concepts and issues related to the subject of current classes. -
Classes (Oral test) - Oral test - credit with a grade in the field of contagious diseases of cattle, sheep and goats discussed during exercises. To pass the test, you must obtain at least 65% of the possible points. The grading of grades is based on the score thresholds described in the faculty procedure "Principles of grading students". The student may attempt to correct the test twice. The condition for receiving the final pass for the exercises is to obtain positive grades from all the credits in the course of the classes. In case of passing all the tests, the final grade for the exercises is issued on the basis of the arithmetic mean value of all the grades obtained in the tests. Failure to pass any of the tests is tantamount to obtaining an unsatisfactory final grade in the exercises. "In the event of a top-down suspension of classroom classes and the need for distance learning, the methods of verifying the achievement of learning outcomes, declared in the syllabus, and thus the forms of passing the exam and exercises, may change in a manner appropriate to the situation." -

Practical classes (Evaluation of the work and cooperation in the group) - Independent performance of veterinary procedures carried out as part of the exercise (Tuberculinization). Independent laboratory diagnostics of selected infectious diseases of ruminants. -

BASIC LITERATURE:

1. Dirksen Gerrit, Grunder Hans-Dieter, Stober Matthaeus , *Choroby wewnętrzne i chirurgia bydła*, Wyd. Galaktyka, R. 2009, s.
2. T.J. Divers, S.F. Peek wyd. I polskie, red. J. Twardoń, M. Fabisiak, *Choroby bydła mlecznego*, Tom Tom 1 i 2, Wyd. Elsevier , R. 2011, s.
3. Michał Bednarski , *Choroby bydła podstawy diagnostyki i terapii*, Wyd. Apra – wetpress, R. 20015, s.
4. Gliński Zdzisław, Kostro Krzysztof , *Choroby zakaźne zwierząt z elementami epidemiologii i zoonoz*, Wyd. PWRiL, R. 2011, s.
5. Kita J., Oyrzanowska J., Dziąba K., *Metody zwalczania chorób zaraźliwych zwierząt gospodarskich. Ćwiczenia z epizootiologii*, Wyd. PWN, R. 1987, s.

SUPPLEMENTARY LITERATURE:

1. R.W. Blowey, A.D. Weaver wyd. I polskie, red. J. Nicpoń, *Atlas chorób bydła*, Wyd. Elsevier, R. 2008, s.
2. Mordak Ryszard , *Monitorowanie problemów zdrowotnych stad bydła*, Wyd. MedPharm Polska, R. 2008, s.
3. Simon F. Peek, Thomas J. Divers, *Rebhun's Diseases of Dairy Cattle 3rd Edition*, Wyd. Saunders , R. 2018, s.
4. SCOTT W. DANNY, *Atlas chorób skóry zwierząt gospodarskich*, Wyd. Galaktyka, R. 2009, s.