



Feed hygiene

ECTS: 4.00

SUBJECT MATTER CONTENT

LECTURE

The aim of the lectures is to familiarize students with the following issues: nutrition as permanent treatment; basics of fodder collection and digestion; undesirable substances; food security; organization of official control; animal feed accompanying (production and trading); animal waste management; BSE "feed" etiology; rapid alert systems and preparedness plans; feed a environment; water is also feed; managing the risk of undesirable substances in production primary and during marketing; risk of transmission of contaminants from feed to food.

PRACTICAL CLASSES

During the exercises, discussing and showing students the methods of obtaining samples for laboratory tests, their preparation (extraction) for determinations on HPLC, LC / MS, in order detecting undesirable substances and then discussing the results. Practical compliance assessment of the label of complementary feed and feed premixtures in terms of compliance with the requirements of the feed law. Workshops on the categorization of UPPZ.

AUDITORIUM CLASSES

During the exercises, students learn about the following issues: selected feed legislation; trade in animal nutrition; warehouse pests; disinfection, disinsection and deratization (DDD); approval of establishments; feed additives; veterinary supervision; feed labeling; the importance of water; feed production; animal protein; medicated feed.

TEACHING OBJECTIVE

Interpretation of legal acts in the field of health and commercial quality of materials vegetable and feed additives used in animal nutrition. Dependence between the health quality of animal nutrition and the safety of food of origin animal. The role and tasks of the veterinary service in the field of safety supervision and feed production.

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+++

Symbols for outcomes related to the field of study:

K.1.+ , B.U18. + , B.U23. + , A.W10. + , A.U14. + , K.12.+ , A.U16. + , A.U2. + , A.W16. + , B.W19. + , B.W21. + , B.W17. + , C.U4. + , K.8.+ , C.U2. + , A.W5. + , A.U23. + , B.W7. + , B.W9. + , K.10.+ , B.W13. + , A.U21. + , K.6.+ , K.2.+ , B.U21. + , A.W22. + , B.W15. + , B.W16. + , B.U6. + , B.U25. + , A.U15. + , B.U5. + , A.U13. + , B.W20. + , A.U7. + , K.4.+ , B.U9. + , K.5+ , C.W2. + , C.W3. + , A.W19. + , B.U20. + , A.U19. + , B.U22. + , A.U17. + , K.7.+ ,

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, Practical classes, Auditorium classes
Number of hours in semester: Lecture: 30.00, Practical classes: 10.00, Auditorium classes: 20.00
Language of instruction: Polish
Introductory subject: Animal biochemistry, Physiology Clinical, Animal Nutrition and feed science, pathophysiology, Pharmacology.
Prerequisites: Physiological and biochemical foundations of animal nutrition. Uptake, digestion, absorption Knowledge of the ability to recognize feed materials.

Name of the organisational unit conducting the course: Katedra Prewencji Weterynaryjnej i Higieny Pasz
Person responsible for the realization of the course: prof. dr hab. wet. Magdalena Gajęcka
e-mail: mgaja@uwm.edu.pl

Additional remarks:

LEARNING OUTCOMES:

Knowledge:

W1 – Students will gain knowledge of safety and quality procedures trade in the entire food chain, including the production stage primary and animal and vegetable products, water, feed and additives feed used in the production of feed used in animal nutrition. These aspects are part of the tasks of environmental protection, animal health protection and public health in line with the concept of "one health" (ONE Health).

Skills:

U1 – Students will have the ability to identify critical points (CCP) for their assessment and implementing corrective actions during production at the plant and / or mixing plant feed. Supervision and control within the framework of the Veterinary Inspection in establishments either registered or approved at all stages of production under food chain safety.

Social competence:

K1 – Graduates can work in all kinds of enterprises dealing with the production of plant materials and feed additives, feed and feed medicinal; in laboratories dealing with the assessment of health quality and commercial quality plant and animal materials, feed additives of plant origin and livestock from primary production; and various Veterinary Inspection levels as feed and utilization inspectors.

TEACHING FORMS AND METHODS:

Lecture(W1;K1;):Seminar lectures interpreting the application of the law in the supervision of animal feed production.

Practical classes(W1;U1;K1;):During the exercises, discussing and showing students the methods of obtaining samples for laboratory tests, their preparation (extraction) for determinations on HPLC, LC / MS in order to detect undesirable substances and then discussing the results.

Auditorium classes(W1;U1;K1;):During the exercises, students learn about the following issues: selected feed legislation; trade in animal nutrition; warehouse pests; disinfection, disinsection and deratization (DDD); approval of establishments; feed additives; veterinary supervision; feed labeling; the importance of water; feed production; animal protein; medicated feed.

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Lecture (Written exam) - Test-based exam - all students (all year round) enter the classroom at the same time and answer the questions included in the test. There are about 70 questions. There are four answers, including one true. The answer to a single question takes 26 seconds. To pass the exam, the student should positively answer 65% of the questions. 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. In the event of suspension of classroom classes, an on-line examination in the form of a test is allowed. -

Practical classes (Colloquium test) - Colloquia in the form of a test. Each time students are asked 20 questions. Positive rating with min. 65% correct answers. There are four answers, including one true. The answer to a single question takes 26 seconds. Assessment is based on the score thresholds described in the faculty procedure of the "Principles of Student Assessment". In the event of suspension of classroom classes, an on-line colloquium in the form of a test is allowed. -

Auditorium classes (Colloquium test) - Colloquia in the form of a test. Each time students are asked 20 questions. Positive rating with min. 65% correct answers. There are four answers, including one true. The answer to a single question takes 26 seconds. Assessment is based on the score thresholds described in the faculty procedure of the "Principles of Student Assessment". In the event of suspension of classroom classes, an on-line colloquium in the form of a test is allowed. -

BASIC LITERATURE:

1. Dorota Jamroz, *Żywnienie zwierząt i paszoznawstwo - Fizjologiczne i biochemiczne podstawy żywienia zwierząt*, Tom 1, Wyd. PWN, R. 2006
2. Dorota Jamroz, Witold Podkówka, Jadwiga Chachułowa, *Żywnienie zwierząt i paszoznawstwo - Paszoznawstwo*, Tom 2, Wyd. PTNW, R. 2006
3. Dorota Jamroz, Andrzej Potkański, *Żywnienie zwierząt i paszoznawstwo - Podstawy szczegółowego żywienia*, Tom 3, Wyd. PTNW, R. 2006
4. Dorota Jamroz, *Żywnienie zwierząt i paszoznawstwo - podstawy szczegółowego żywienia zwierząt*, Tom 2, Wyd. PTNW, R. 2015
5. Dorota Jamroz, *Żywnienie zwierząt i paszoznawstwo - Paszoznawstwo*, Tom 3, Wyd. PTNW, R. 2015
6. Zdzisław Gliński, Krzysztof Kostro, Maciej Gajęcki, *Mikozy i Mikotoksykozy zwierząt*, Tom 1, Wyd. Wydawnictwo Uniwersytetu Przyrodniczego w Lublinie, R. 2011
7. J. Grochowicz, *Technologia Produkcji Mieszanek Paszowych*, Tom 1, Wyd. Państwowe Wydawnictwo Rolnicze, R. 1996
8. Tomasz Maślanka, *Farmakologia Kliniczna*, Tom 1, Wyd. druk, R. 2014
9. Waldemar Dzwplak, Stefan Ziajka, *podstawy zapewniania bezpieczeństwa żywności w systemie HACCP*, Tom 1, Wyd. studio 108, R. 2001

SUPPLEMENTARY LITERATURE:

1. , *USTAWA z dnia 22 lipca 2006 r. o paszach*, Wyd. , R. 2006
2. , *ROZPORZĄDZENIE (WE) Nr 183/2005 PARLAMENTU EUROPEJSKIEGO I RADY z dnia 12 stycznia 2005 r. ustanawiające wymagania dotyczące higieny pasz*, wyd. , rok 2005, wyd, Wyd. , R. 2005
3. , *ROZPORZĄDZENIE (WE) NR 178/2002 PARLAMENTU EUROPEJSKIEGO I RADY z dnia 28 stycznia 2002 r. ustanawiające ogólne zasady i wymagania prawa żywnościowego, powołujące Europejski Urząd ds. Bezpieczeństwa Żywności oraz ustanawiające procedury w zakresie bezpieczeństwa żywności*, wyd., Wyd. , R. 2002
4. , *ROZPORZĄDZENIE (WE) NR 882/2004 PARLAMENTU EUROPEJSKIEGO I RADY z dnia 29 kwietnia 2004 r. w sprawie kontroli urzędowych przeprowadzanych w celu sprawdzenia zgodności z prawem paszowym i żywnościowym oraz regułami dotyczącymi zdrowia zwierząt i dobrostanu zwierząt*, wyd, Wyd. , R. 2004
5. , *ROZPORZĄDZENIE PARLAMENTU EUROPEJSKIEGO I RADY (WE) nr 1069/2009z dnia 21 października 2009 r.określające przepisy sanitarne dotyczące produktów ubocznych pochodzenia zwierzęcego, nieprzeznaczonych do spożycia przez ludzi, i uchylające rozporządzenie (WE) nr 1774/2002 (rozporządzenie o produktach ubocznych pochodzenia zwierzęcego*, Wyd. , R. 2009
6. , *ROZPORZĄDZENIA ROZPORZĄDZENIE PARLAMENTU EUROPEJSKIEGO I RADY (UE) 2019/4 z dnia 11 grudnia 2018 r. w sprawie wytwarzania, wprowadzania na rynek i stosowania paszy leczniczej, zmieniające rozporządzenie (WE) nr 183/2005 Parlamentu Europejskiego i Rady oraz uchylające dyrektywę Rady 90/167/EWG*), wyd. , rok 2019 7. , tytuł: *USTAWA z dnia 22 czerwca 2001 r. o organizmach genetycznie zmodyfikowanych*, wyd, Wyd. , R. 2001
7. Maciej Gajęcki, Magdalena Gajęcka and Łukasz Zielonka, *Mycotoxins Occurrence in Feed and Their Influence on Animal Health*, Tom 1, Wyd. This book is a printed edition of the Special Issue Mycotoxins Occurrence in Feed and Their Influence on Animal Health that was published in *Toxins*, R. 2021, s. 240