

Code of subject	M_WE_SEM6 HŚZZ
Field of study	Veterinary medicine
Name of the training module including the Polish name	Animal feed hygiene Higiena środków żywienia zwierząt
Language of instruction	English
Type of the training module	obligatory
Level of the training module	Master level
Form of studies	Full-time
Location in the programme (year)	III
Location in the programme (semester)	IV
Number of ECTS credits with a division into contact/noncontact	2 (1,36/0,64)
Name and surname of the person in charge	Dr Agnieszka Wilczek-Jagiełło
Unit offering the subject	Sub-Department of Veterinary Prevention and Avian Diseases
Aim of the module	Familiarizing students with the basic legal acts in force in the country and the European Union in the field of health and commercial quality of materials and feed additives used in animal nutrition. Getting acquainted with the duties and competences of the Veterinary Inspection in the field of feed hygiene and official control.
Learning outcomes	<p>Knowledge:</p> <p>K1. student has knowledge of the role and scope of tasks of the veterinary service in supervising feed production</p> <p>K2. Student correctly uses the legal acts regulating the veterinary supervision over feeds</p> <p>K3. Student is able to present the relationship between the health quality of animal nutrition and the safety of food of animal origin</p> <p>Skills:</p> <p>S1. Student is able to exercise sanitary and veterinary supervision over the production, distribution and use of animal nutrition</p> <p>S2. Student is able to identify and correctly assess the factors affecting the quality of animal nutrition on the basis of applicable regulations</p> <p>S3. On the basis of applicable regulations, the student is able to take actions aimed at solving problems in the field of safety of medicated feed, genetically modified feed and feed material containing animal protein</p> <p>Social skills:</p> <p>C1. Student is ready to bear social, professional and ethical responsibility for the health quality of animal nutrition</p> <p>C2. Student is prepared to constantly expand his/her knowledge and self-improvement in the field of obligations of the Veterinary Inspection related to official control of animal nutrition</p>
Preliminary and additional requirements	Requirements in accordance with the resolution on sequencing

<p>Contents of the training module</p>	<p>Each of the topics of lectures and laboratory classes is designed for 2 lesson hours</p> <p>Lectures :</p> <p>Legislation - national and European Union law regulating the principles of production, marketing and use of feed.</p> <p>Feed safety requirements – list of prohibited substances, feed monitoring, feed hygiene requirements at the primary production level, obligation to keep records, feed labeling, placing feed on the market.</p> <p>Obligations of the Veterinary Inspection with regard to the official control of feed, plants producing feed additives, premixes and compounds feed and control of products placed on the market.</p> <p>National official feed control program – objectives, implementation methods and results. Quality assurance systems in feed production – GMP, GHP, HACCP.</p> <p>Rapid alert systems and preparedness plans – RASFF, post-acceptance procedures.</p> <p>The role and tasks of Border Veterinary Inspection in official feed control, structure operation of the National Early Warning System.</p> <p>Warehouse pests – methods of detection; disinfection, disinsection, deratization of storage and production rooms.</p> <p>Subjects of laboratory classes :</p> <p>Rules on sampling and handling of feed for official control.</p> <p>Evaluation of feed on the basis of applicable regulations : methods of chemical and physical determination of feed composition, microbiological tests, evaluation of test results.</p> <p>Principles of production and use of medicated feed.</p> <p>GMOs in animal nutrition. Register and tasks of the Veterinary Inspection in the supervision of GMOs.</p> <p>Principles of using protein of animal origin in the nutrition of farm animals.</p> <p>Feed additives – categories and functional groups, coccidiostats.</p> <p>Sanitary and hygienic assessment of water</p>
<p>Recommended and obligatory reading list</p>	<p>Act of July 22,2006 on feed</p> <p>Regulation of the European Parliament and the Council laying down the general principles and requirements of food law (178/2002)</p> <p>Ordinances of the Minister of Agriculture and Rural Development on animal nutrition</p> <p>Instructions from the Chief Veterinarian on official feed control</p> <p>“Animal nutrition and feed science” – Vol. 3 – edited by D. Jamroz, 2013</p>
<p>The intended forms/activities/ teaching methods</p>	<p>Lecture, laboratory class, discussion, project completion</p>

<p>Methods of verification and documentation forms of the achieved learning outcomes</p>	<p>K – filling out reports on the procedure in case of finding prohibited substances in the feed, completing an order for the production of medicated feed, risk analysis when taking samples of feed to test for prohibited substances in feed C – evaluation of reports and orders completed during the classes S – participation in the discussion, answer to the questions posed during the presented issues The condition for passing the module is a passing grade (minimum 61%). Credit includes checking the knowledge on the subject of lectures and classes and consists of 6 open questions. The total score is 18 points. A positive mark can be obtained after obtaining 11 points (i.e. a result of at least 61%). Entering the grade in the examination report and index and the documentation contained in the “Course file” (student evaluation sheet, attendance lists, sets of questions for pass and written exam, reports completed during laboratory classes, written final exam. In the case of distance learning, the method of documenting the verification of learning outcomes will be adequately modified</p>		
<p>Balance of ECTS credits</p>	<p>Form of classes</p>	<p>Number of contact hours</p>	<p>ECTS points</p>
	<p>Lectures</p>	<p>15</p>	<p>0,6</p>
	<p>Laboratory classes</p>	<p>15</p>	<p>0,6</p>
	<p>consultation</p>	<p>3</p>	<p>0,12</p>
	<p>Final test</p>	<p>1</p>	<p>0,04</p>
		<p>Number of non-contact hours</p>	
	<p>Preparation for classes</p>		
	<p>Preparation for the final test</p>	<p>7</p>	<p>0,28</p>
	<p>Total</p>	<p>49</p>	<p>2</p>
<p>Number of contact hours</p>	<p>Lectures – 15 Laboratory classes – 15 Consultation – 3 Final test – 1 34 hours in total, corresponding to 1,36 ECTS Workload related to practical classes : participation in auditorium and laboratory classes – 15 hours, participation in consultations related to preparation for classes – 3, participation in the final test – 1. A total of 19 hours corresponding to 0.64 ECTS</p>		
<p>Relationship between subject learning outcomes and veterinary studies learning outcomes</p>	<p>K1 – WE_W23 +++ K2 – WE_W22 +++ K3 – WE_W23 ++, WE_W33 + S1 – WE_U19 +++ S2 – WE_U19 ++ S3 – WE_U7 ++, WE_U18 + Sc1 – WE_K1 +++ Sc2 – WE_K6++, WE_K9+</p>		

Impact of selected compounds to final grade	Only students who participated in the laboratory and auditorium classes can take the final exam. The final 90% of the final pass grade and 10% of the average grade for active participation in classes
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