

Code of subject	M_WE_SEM7 HZRZM 1
Field of study	Veterinary medicine
Name of the training module including the Polish name	Hygiene of slaughter animals and meat 1 Higiena zwierząt rzeźnych i mięsa
Language of instruction	English
Type of the training module	Obligatory
Level of the training module	Master level
Form of studies	Stationary
Location in the programme (year)	IV
Location in the programme (semester)	7
Number of ECTS credits with a division into contact/noncontact	4 (2,1/1,9)
Name and surname of the person in charge	Dr. Michał Gondek
Unit offering the subject	Department of Food Hygiene of Animal Origin
Aim of the module	The acquisition by students of knowledge and skills in the following fields: a) official supervision over the slaughter of food producing animals and the post-slaughter processing of the carcasses and organs obtained from these animals, b) ante-mortem inspection of slaughter animals and post-mortem, macroscopic examination of slaughter animals and their meat.
Learning outcomes	<p><b>Knowledge:</b></p> <p>K1: Student knows, based on the applicable legal regulations, the rules of supervision over the slaughter of food producing animals and the rules of ante-mortem inspection of slaughter animals and post-slaughter macroscopic examination of meat to the extent necessary for the proper performance of sanitary and veterinary supervision.</p> <p>K2: Understands main principles of meat safety and quality assurance systems at all steps of the food production chain</p> <p>K3: knows the structure and properties of muscle tissue and organs of slaughter animals as well as post-slaughter changes taking place in them.</p> <p><b>Skills:</b></p> <p>S1: indicates and interprets the relevant provisions of European food law when performing sanitary and veterinary supervision over the slaughter of food producing animals</p> <p>S2: is able to introduce an official reference method for examination of meat for Trichinella</p> <p>S3: correctly describes and verifies the procedures of the HACCP system at the stage of slaughter of food producing animals</p> <p><b>Social competences:</b></p> <p>C1: Correctly identifies and resolves problems related to the official supervision over the slaughter of food producing animals and is able to formulate opinions in connection with the activity performed.</p>

	C2: Student is ready to be accountable for consumer safety in terms of the supervision performed and understands the need for further targeted training and self-education.
Preliminary and additional requirements	Resolution No. 6 / 2016-2017 on the sequence of subjects in veterinary medicine
Contents of the training module – a compact description of approx. 100 words.	<p>The aim of the classes is to familiarize students with: a) rules of the official supervision over the slaughter of food producing animals based on the applicable legal regulations and b) the principles of ante- and post-mortem examination of slaughter animals, with particular emphasis on macroscopic examination and examination of meat for <i>Trichinella</i> by using artificial digestion technique.</p> <p>The lecture content concerns: a) rules of slaughter animals turnover, b) rules and technology of slaughter of food producing animals, c) factors determining the quantity and quality of slaughter raw materials, d) the course of endogenous changes in meat, and e) HACCP system principles in the slaughter technology.</p>
Recommended and obligatory reading list	<ol style="list-style-type: none"> <li>1. Collins D.S., Huey R.J. – <i>Gracey's Meat Hygiene</i>, 11<sup>th</sup> Edition. Wiley-Blackwell, 2015.</li> <li>2. Selected European legal acts (852/2004, 853/2004, 625/2017, 624/2019, 627/2019, 2073/2005, 2015/1375)</li> <li>3. Selected ISO Standards (microbiological methods for food-poisoning bacteria isolation)</li> <li>4. Selected research articles</li> </ol>
The intended forms/activities/ teaching methods	Lectures, laboratory classes

<p>Methods of verification and documentation forms of the achieved learning outcomes</p>	<p>K1 and K2 - two written mid-term tests and completion the practical part of the laboratory classes.  K3 – two written mid-term tests  S1 and S3- two written mid-term tests  U2 - two written mid-term tests and completion the practical part of the laboratory classes.  C1 and C2 – two written mid-term tests  During the course, two written mid-term tests are planned:  - Students may take the test provided they pass (oral knowledge evaluation) any absences in laboratory classes before the test.  - two additional terms for students who failed the first term of the written test are available.  - mid-term tests include open questions and/or single-choice questions  -the evaluation criteria indicated in the Faculty Book of Education Quality are used to assess the student’s mid-term written tests  Completion of the module is based on the grades from particular mid-term written test (arithmetic mean) and on the basis of the student participation (attendance) in laboratory classes.  Completion of the module entitles the student to join the classes carried out in the eighth semester.  The rules for completing the course are presented to students during first meeting (classes).  Forms of documenting the results achieved: teacher logbooks and written mid-term test protocols</p>																																						
<p>Balance of ECTS credits</p>	<table border="1"> <thead> <tr> <th data-bbox="657 1111 1059 1214">Type of classes</th> <th data-bbox="1059 1111 1238 1214">Number of contact hours</th> <th data-bbox="1238 1111 1430 1214">ECTS</th> </tr> </thead> <tbody> <tr> <td data-bbox="657 1214 1059 1249">Lectures</td> <td data-bbox="1059 1214 1238 1249">15</td> <td data-bbox="1238 1214 1430 1249">0,5</td> </tr> <tr> <td data-bbox="657 1249 1059 1285">Classes</td> <td data-bbox="1059 1249 1238 1285">45</td> <td data-bbox="1238 1249 1430 1285">1,5</td> </tr> <tr> <td data-bbox="657 1285 1059 1321">Consultation</td> <td data-bbox="1059 1285 1238 1321">2</td> <td data-bbox="1238 1285 1430 1321">0,07</td> </tr> <tr> <td data-bbox="657 1321 1059 1357">Mid-term tests</td> <td data-bbox="1059 1321 1238 1357">1</td> <td data-bbox="1238 1321 1430 1357">0,03</td> </tr> <tr> <td data-bbox="657 1357 1059 1393"><b>Sum (contact hours)</b></td> <td data-bbox="1059 1357 1238 1393"><b>63</b></td> <td data-bbox="1238 1357 1430 1393"><b>2,1</b></td> </tr> <tr> <td data-bbox="657 1393 1059 1505"></td> <th data-bbox="1059 1393 1238 1505">Number of non-contact hours</th> <td data-bbox="1238 1393 1430 1505"></td> </tr> <tr> <td data-bbox="657 1505 1059 1572">Student’s self-education for the classes</td> <td data-bbox="1059 1505 1238 1572">15</td> <td data-bbox="1238 1505 1430 1572">0,5</td> </tr> <tr> <td data-bbox="657 1572 1059 1639">Student’s self-education for the mid-term tests</td> <td data-bbox="1059 1572 1238 1639">39</td> <td data-bbox="1238 1572 1430 1639">1,3</td> </tr> <tr> <td data-bbox="657 1639 1059 1706">recommended literature analysis</td> <td data-bbox="1059 1639 1238 1706">3</td> <td data-bbox="1238 1639 1430 1706">0,1</td> </tr> <tr> <td data-bbox="657 1706 1059 1751"><b>Sum (non-contact hours)</b></td> <td data-bbox="1059 1706 1238 1751"><b>57</b></td> <td data-bbox="1238 1706 1430 1751"><b>1,9</b></td> </tr> <tr> <td data-bbox="657 1751 1059 1792"><b>Sum:</b></td> <td data-bbox="1059 1751 1238 1792"><b>120</b></td> <td data-bbox="1238 1751 1430 1792"><b>4</b></td> </tr> </tbody> </table>			Type of classes	Number of contact hours	ECTS	Lectures	15	0,5	Classes	45	1,5	Consultation	2	0,07	Mid-term tests	1	0,03	<b>Sum (contact hours)</b>	<b>63</b>	<b>2,1</b>		Number of non-contact hours		Student’s self-education for the classes	15	0,5	Student’s self-education for the mid-term tests	39	1,3	recommended literature analysis	3	0,1	<b>Sum (non-contact hours)</b>	<b>57</b>	<b>1,9</b>	<b>Sum:</b>	<b>120</b>	<b>4</b>
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<p>Number of contact hours</p>	<p>a) participation in lectures – <math>15 \times 1 = 15</math> hours  b) participation in laboratory classes – <math>15 \times 3 = 45</math> hours  c) consultation – <math>2 \times 1 = 2</math> hours  d) participation in mid-term tests - <math>2 \times 0,5 = 1</math> hour  Sum: 63 hours which correspond to 2.1 ECTS</p>																																						

<p>Relationship between subject learning outcomes and veterinary studies learning outcomes</p>	<p>K1 – WE_W30 ++ and WE_W31 ++  K2 - WE_W31 ++ and WE_W33 ++  K3 - WE_W01 + i WE_W02 +  S1, S2 i S3 – WE_U29 ++  C1 – WE_K1 i WE_K5 +  C2 – WE_K1 i WE_K6 +</p>
<p>Impact of selected compounds to final grade</p>	<p>two mid-term tests (each 50%) – 100%</p>