

Code of subject	M_WE_SEM8 PW 1F/2F CHZWL ANG
Field of study	Veterinary medicine
Name of the training module including the Polish name	Diseases of laboratory animals Choroby zwierząt laboratoryjnych
Language of instruction	English
Type of the training module	elective
Level of the training module	Master level
Form of studies	Stationary
Location in the programme (year)	IV
Location in the programme (semester)	VIII
Number of ECTS credits with a division into contact/noncontact	1(0,64/0,36)
Name and surname of the person in charge	Joanna Wessely-Szponder
Unit offering the subject	Sub-Department of Pathophysiology; Department of Preclinical Veterinary Sciences; Faculty of Veterinary Medicine
Aim of the module	To familiarize students with the current principles of conducting experiments on laboratory animals, the organization of vivarium, the supervision of conducting experiments, the specific use of rodents and rabbits in biomedical tests, the principles of nutrition and the management of different species, diagnosis, treatment and prevention of diseases in laboratory animals and the spread of zoonoses.
Learning outcomes	<p>Knowledge:</p> <p>K1 Recognizes the symptoms, mechanisms and ways of spreading diseases of laboratory animals.</p> <p>K2 describes, explains and interprets the mechanisms of organ and systemic pathologies</p> <p>K3 describes and interprets the causes and symptoms, describes and interprets pathological changes, applies the principles of treatment and prevention in particular diseases,</p> <p>K4 applies the appropriate course of action in the case of notifiable diseases</p> <p>Skills:</p> <p>S1 effectively communicates with clients, other veterinarians and employees of control authorities and offices, government and local government administration,</p> <p>S2 collects, secures and knows the rules for transporting samples and performing standard laboratory tests, as well as correctly analyzes and interprets the results of laboratory tests,</p> <p>S3 selects and applies the appropriate treatment,</p> <p>S4 develops and introduces prophylactic programs appropriate for individual animal species,</p> <p>Social competences:</p> <p>C1 shows responsibility for decisions made towards people and animals;</p>

	C2 adheres to ethical principles																														
	C3 has a habit of constantly expanding knowledge and improving skills																														
	C4 is aware of his own limitations																														
Preliminary and additional requirements	-																														
Contents of the training module .	Regulations concerning animal protection and the use of laboratory animals. Requirements for environmental conditions for keeping animals used for scientific or educational purposes. Genetic modifications in laboratory animals, different strains and unspecific and specific animal models for some disorders. Basic physiological parameters and species specificity of susceptibility to diseases. Rules for keeping and feeding laboratory animals, basic reproduction parameters, health monitoring. Clinical examination of laboratory animals. Rules for handling of laboratory animals. Use of drugs in laboratory animals, different treatment systems. Methods of collecting, transportation, storage and assessing of biological material from laboratory animals. Types of anesthesia, risk factors associated with anesthesia, complications after anesthesia and surgical procedures. Viral, bacterial, parasitic, cancer and metabolic diseases in laboratory animals.																														
Recommended and obligatory reading list	Obligatory reading list 1. Quesenberry K i Carpenter J. W. Ferrets, rabbits and rodents Clinical Medicine and Surgery 3 rd Edition, Saunders, 2011 2. Clinical laboratory animal medicine : an introduction / Karen Hrapkiewicz, Lesley Colby, Patricia Denison, 4th ed. John Wiley & Sons, cop. 2013. Recommended reading list: Recommended reading list 1. IVIS website content																														
The intended forms/activities/ teaching methods	Classes, discussion, lectures, project completion																														
Methods of verification and documentation forms of the achieved learning outcomes	written work - one credit, assessed in accordance with the criteria contained in Book of quality of education, evaluation of a design task, speech evaluation, presentation evaluation																														
Balance of ECTS credits	<table border="1"> <thead> <tr> <th colspan="3">CONTACT HOURS</th> </tr> <tr> <th></th> <th><i>hours</i></th> <th><i>ECTS</i></th> </tr> </thead> <tbody> <tr> <td>classes</td> <td>15</td> <td>0,6</td> </tr> <tr> <td>credit/correction credit</td> <td>1</td> <td>0,04</td> </tr> <tr> <td>All contact hours</td> <td>16</td> <td>0,64</td> </tr> <tr> <th colspan="3">NON-CONTACT HOURS</th> </tr> <tr> <td>preparation for the classes</td> <td>4</td> <td>0,16</td> </tr> <tr> <td>reading recommended literature</td> <td>3</td> <td>0,1</td> </tr> <tr> <td>preparing for the credit</td> <td>3</td> <td>0,1</td> </tr> <tr> <td>All non-contact hours/ ECTS</td> <td>10</td> <td>0,36</td> </tr> </tbody> </table>	CONTACT HOURS				<i>hours</i>	<i>ECTS</i>	classes	15	0,6	credit/correction credit	1	0,04	All contact hours	16	0,64	NON-CONTACT HOURS			preparation for the classes	4	0,16	reading recommended literature	3	0,1	preparing for the credit	3	0,1	All non-contact hours/ ECTS	10	0,36
CONTACT HOURS																															
	<i>hours</i>	<i>ECTS</i>																													
classes	15	0,6																													
credit/correction credit	1	0,04																													
All contact hours	16	0,64																													
NON-CONTACT HOURS																															
preparation for the classes	4	0,16																													
reading recommended literature	3	0,1																													
preparing for the credit	3	0,1																													
All non-contact hours/ ECTS	10	0,36																													

Number of contact hours	Participation in classes	<i>15</i>	<i>0,6</i>
	consultations		
	Credit/correction credit	<i>1</i>	<i>0,04</i>
	Number of contact hours	16	0,64
Relationship between subject learning outcomes and veterinary studies learning outcomes	K1- A.W10. K2- A.W11 K3 A.W12. K4 A.W13. S1 A.U12. S2 A.U13. S3 A.U19. S4 A.U21 C1 K1) C2 K4) C3 K5) C4 K8)		
Impact of selected compounds to final grade	Assessment of the presentation maximum number of points = 10, including 5 points for the content, 2 points for the presentation layout, 2 points for the topicality of the topic, 1 point for the presentation. The pass mark is the correct completion of the exercise. The condition for admitting to the final credit 30%. 70% is final.		