

Code of subject	M_WE_SEM3 PW 1B/2B FIZJ KLIN ANG
Field of study	Veterinary medicine
Name of the training module including the Polish name	Clinical physiology Fizjologia kliniczna
Language of instruction	English
Type of the training module	elective
Level of the training module	Long-cycle master's degree studies
Form of studies	Full-time
Location in the programme (year)	2
Location in the programme (semester)	3
Number of ECTS credits with a division into contact/noncontact	1 (0,5/0,5)
Name and surname of the person in charge	PhD Małgorzata Kapica
Unit offering the subject	Department of Animal Physiology
Aim of the module	The aim of the module is to familiarize students with the mechanisms of regulation of physiological processes important from a clinical point of view Understanding the functioning of individual structures, organs and systems in conditions of altered amounts (excess or shortage) of food intake, increased or limited movement, fluid overload, dehydration, aging.
Learning outcomes – the total number of learning outcomes may not exceed (4-8) for the module. The description of the intended learning outcomes that a student should achieve after the completion of the module should be provided. The outcomes for all forms of classes used should be presented.	Knowledge:
	K1 has knowledge of the rhythm of physiological activities, immunology of the gastrointestinal tract and the mechanisms causing changes in the amount of food consumed and their impact on the animal's organism
	K2 has knowledge of changes taking place in the body under conditions of motor inactivity, fluid overload, dehydration, aging
	Skills:
	S1. Can identify and explain changes resulting from the development of obesity and motor inactivity in the circulatory, respiratory and musculoskeletal systems
	S2. Can identify and explain changes in the body resulting from the physiological aging process
	Social competences:
C1. is ready for continuous training and self-improvement in the field of clinical physiology	
Preliminary and additional requirements	No requirements

<p>Contents of the training module – a compact description of approx. 100 words.</p>	<ol style="list-style-type: none"> <li>1. Causes of obesity. The metabolic consequences of obesity development. Changes in the locomotor system, changes in the function of the respiratory system accompanying obesity - 2 hours</li> <li>2. The influence of diet on life expectancy. Energy deficit. Organ changes in the body during the period of starvation. Hunger tolerance - 2 hours</li> <li>3. Regulation of water and electrolyte balance. Water deficit and dehydration of the body. Overhydration - 2 hours</li> <li>4. Physiological changes in the body during aging - 2 hours.</li> <li>5. Physiology of motor inactivity. Decrease in physical performance. Glucose tolerance impairment and hormonal interactions - 2 hours.</li> <li>6. Rhythms of body activities - physiological and clinical significance - 2 hours.</li> <li>7. Immunological processes in the digestive tract. Food allergies and intolerances - 2 hours</li> </ol>
<p>Recommended and obligatory reading list</p>	<ol style="list-style-type: none"> <li>1. Clinical Physiology Ashis (University College London Medical School) Banerjee 2005</li> <li>2. Clinical Physiology of Acid-Base and Electrolyte Disorders Burton David Rose, Theodore Post</li> <li>3. Clinical Physiology Made Ridiculously Simple Stephen Goldberg, MEDMASTER 2010</li> <li>4. Clinical Exercise Physiology, Wolters Kluwer Health, 2015</li> </ol>
<p>The intended forms/activities/ teaching methods</p>	<p>Teaching methods: <i>Auditorium exercises, multimedia presentations, films, discussion</i></p>
<p>Methods of verification and documentation forms of the achieved learning outcomes</p>	<p>W - Multiple choice test, 20 questions (passing threshold: 11 correct answers). In order to be able to take the final test, the student may have a maximum of two unexcused absences from classes. Points scale: 11-12p .: 3.0; 13-14p .: 3.5; 15-16p .: 4.0; 17-18p .: 4.5; 19-20p .: 5.0- U- Preparation of the presentation. Assessment based on compliance with the topic, correct inference, formulation of opinions, appropriate answers to questions, justification of the opinions expressed. Rating on a scale of 2.0-5.0.</p>
<p>Balance of ECTS credits</p>	<p>participation in auditorium classes - 14 hours,  - attendance at the exam - 1 hour  number of contact hours -15 / 0.5 ECTS  - preparation for auditorium exercises (reading the recommended literature) - 5 hours,  - preparation for a written test - 5 hours ,  - preparation of presentations for classes 5 hours  number of non-contact hours -15 / 0.5 ECTS</p>
<p>Number of contact hours</p>	<p>- participation in auditorium classes - 14 hours,  - attendance at the exam - 1 hour  A total of 15 hours equivalent to 0.5 ECTS</p>

<p>Relationship between subject learning outcomes and veterinary studies learning outcomes</p>	<p>K1 AW2, ++, A.W.4 ++, A.W.5++  K2 A.W.9 ++, A.W.10 ++, A.W.11  S1 A.U.5 ++, A.U.7 ++  S2 A.U.5 ++, A.U.7 ++  Sc1 K8) ++</p>
<p>Impact of selected compounds to final grade</p>	<p>The following elements influence the final grade:  - attendance at exercises (test admission condition),  - independent development and presentation of selected issues in the form of a presentation: 50% of the final grade in the subject  - final pass (test): 50% of the final grade for the subject</p>