

Module title:	Management of laboratory animal facility	ECTS	1
Polish translation:	Zarządzanie zwierzętarnią doświadczalną		
Course:	Veterinary Medicine		

Module language:	English	Stage:		JM-FVM	
Form of studies:	<input checked="" type="checkbox"/> intramural <input type="checkbox"/> extramural	Type of module:	<input type="checkbox"/> basic <input checked="" type="checkbox"/> directional <input type="checkbox"/> mandatory <input checked="" type="checkbox"/> elective	Semester: 7	<input checked="" type="checkbox"/> winter semester <input type="checkbox"/> summer semester
Academic year:		2023/2024	Catalogue number:	FVM-V-JMSS-07W-ED05_23	

Module coordinator:	Łukasz Kiraga DVM		
Teachers responsible for the module:	Łukasz Kiraga DVM, Academic teachers of the Institute of Veterinary Medicine; Department of Physiological Sciences; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study		
Unit responsible for the module:	Institute of Veterinary Medicine, Department of Physiological Sciences		
Faculty in charge:	Faculty of Veterinary Medicine		
Objectives of the module:	The aim of the module is to familiarize students with the principles of work at the position of animal facility manager and to indicate the role of the veterinary surgeon in the health monitoring of laboratory animals and providing animal welfare.		
Teaching forms, number of hours:	a) Lectures; hours 15		
Teaching methods:	Multimedia presentations, discussion		
Formal prerequisites and initial requirements:	Animal physiology, Veterinary microbiology, Ethology, Animal husbandry and breeding, Animal Nutrition and Feeding		
Learning outcomes:	<b>Knowledge:</b> <ul style="list-style-type: none"> <li>Student is familiar with the applicable legislation on the protection of laboratory animals</li> <li>Student knows the environmental and nutritional requirements of laboratory animals</li> <li>Student knows how to monitor health of the laboratory animals</li> <li>Student knows and describes conditions for appropriate utilisation and disposal of animal waste from scientific experiments</li> </ul>	<b>Skills:</b> <ul style="list-style-type: none"> <li>Student can recognise the pathological symptoms of kept laboratory animals</li> <li>Student knows how to prevent and monitor microbiological hazards</li> <li>Student can appropriately keep livestock record of laboratory animals</li> <li>Student can impellent the rules in the facility providing proper animal welfare</li> <li>Student is able to supervise the use of anaesthetic drugs</li> </ul>	<b>Competences:</b> <ul style="list-style-type: none"> <li>Animal facility personnel management and work organisation</li> <li>Supervision of humanitarian experimentation</li> </ul>
Assessment methods:	Written single-choice test, 30 questions		
Formal documentation of learning outcomes:	Signed test papers, grade in eHMS		
Elements impelling final grade:	<b>100% test results:</b> <b>0-15 pts 2 (failed)</b> <b>16-20 pts 3 (sufficient)</b> <b>21-22 pts 3.5 (sufficient +)</b> <b>23 - 25 pts 4 (good)</b> <b>26 - 27 pts 4.5 (very good)</b> <b>28 - 30 pts 5 (excellent)</b>		
Teaching base:	Lecture facilities of the Faculty of Veterinary Medicine		
Mandatory and supportive materials :	<ol style="list-style-type: none"> <li>DIRECTIVE 2010/63/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 September 2010 on the protection of animals used for scientific purposes</li> <li>Wolfensohn S., Lloyd M: Handbook of Laboratory Animal Management and Welfare, 4<sup>th</sup> Edition. <i>Wiley Blackwell</i> (2013).</li> </ol>		
ANNOTATIONS			

Quantitative summary of the module:

Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS:	<b>25 h</b>
Total ECTS points, accumulated by students during contact learning:	<b>1 ECTS</b>

Learning outcomes of the module relative to the learning outcomes of the subject:

Outcome category	Learning outcomes:	Learning outcomes relative to the course outcomes	Impact on the each of course outcomes*)
Knowledge -	Student is familiar with the applicable legislation on the protection of laboratory animals	B.W.7	3
Knowledge -	Student knows the environmental and nutritional requirements of laboratory animals	B.W.11, B.W.13	3
Knowledge -	Student knows how to monitor health of the laboratory animals	B.W.5	3
Knowledge -	Student knows and describes conditions for appropriate utilisation and disposal of animal waste from scientific experiments	B.W.15	1
Skills -	Student can recognise the pathological symptoms of kept laboratory animals and evaluate their nutritional state	B.U.2, B.U.5	3
Skills -	Student knows how to prevent and monitor microbiological hazards	B.U.6, B.U.21	3
Skills -	Student can appropriately keep livestock record of laboratory animals	A.U.14	2
Skills -	Student can impellent the rules in the facility providing proper animal welfare	A.U.19, B.U.1, B.U.20	3
Skills -	Student is able to supervise the use of narcotic drugs	B.U.9, B.U.10	3
Competences -	Animal facility personnel management and work organisation	KS.1, KS.3, KS.9	3
Competences -	Supervision of humanitarian experimentation	KS.2	3