Module code	M_WE_SEM1 BHP			
Field of study	Veterinary medicine			
Module name, also the name in English	Work Safety and Ergonomics			
	Bezpieczeństwo pracy i ergonomia			
Language of instruction	English			
Module type	mandatory			
Level of studies	Long-cycle master's degree studies			
Form of study	Full-time			
Year of study in the field of study	1			
Semester of study in the field of study	1			
ECTS credits, divided into contact/non-	1 (0,6/0,4)			
contact hours				
Academic title/degree, name of the	dr Piotr Maksym			
person responsible for the module				
Unit teaching the module	Department of Technology Fundamentals			
Module objective	The aim of the module is to familiarise students with regulations of			
	labour protection laws and occupational safety and health in Poland			
	and the European Union. Work environment factors that may cause			
	safety and health hazards - identification, measurement and			
	evaluation of work environment factors. Ergonomic requirements of			
	work organisation, work space. Specific requirements for working in			
	laboratories and conducting veterinary activities, machinery and			
	equipment. Workload assessment - physical and mental. Prevention			
	and protective measures for existing hazards at workstations.			
	Specific health protection requirements. Accident rate - accidents at			
	work, equated with accidents at work, on the road, post-accident			
	proceedings. Occupational diseases.			
The learning outcomes for the module	Knowledge:			
include a description of the knowledge,	W1. Has general knowledge of ergonomics and has knowledge of			
skills and social competences that the	labour protection law, OSH regulations and assessment of working			
student will gain after completing the	conditions.			
module.	Skills:			
	U1. Is able to independently perform an ergonomic assessment of			
	workstations.			
	U2. Can interpret the role of people in the work process and use			
	available methods of work environment analysis and technical			
	solutions to plan work safety preventive measures, also in terms of			
	safe and humane handling of animals, and can instruct others in this			
	regard.			
	Social competences:			
	K1. Is willing to maintain ethics, aesthetics, etiquette, and health and			
	safety in his/her work and interpersonal interactions and to work in			
	a group and be responsible for the safety of his/her own work,			
	others, and patients.			
Prerequisites and additional	•			
requirements				

Module program content	Lectures: Introduction - discussing the applicable module and introducing the basic concepts and definitions of ergonomics and OSH. Basic regulations of Polish and international labour protection law. Ergonomic requirements of work organisation, work space. Work rooms, hygiene and sanitation facilities, laboratory work. Specific requirements for working in laboratories and conducting veterinary activities. Identification of work environment factors - physical, chemical and biological factors. Measurement and evaluation of work environment factors - physical, chemical and biological factors. Hazardous factors in the work environment. Machines, technical devices, apparatuses and laboratory equipment - health and safety requirements. Workload assessment - physical loads, static and dynamic work, EC. Prevention and protective measures for existing hazards at workstations. Specific requirements for employee health protection - pre-medical first aid. Accident rate - accidents at work, accidents equated with accidents at work, accidents on the way to and from work.	
	Analysis of accident causes and circumstances. Prevention. Occupational diseases - proceedings for recognition of occupational disease.	
List of core and supplementary literature	 Lars Harms-Ringdahl, Safety Analysis: Principles and Practice in Occupational Safety, CRC Press Gavriel Salvendy, Waldemar Karwowski, Handbook of Human Factors and Ergonomics, 5th edition, 2021 John Wiley & Sons, Inc. Supplementary materials: https://www.cdc.gov/niosh/topics/veterinary/default.html https://www.who.int/occupational_health/regions/en/oehemhealth careworkers.pdf Labour Code, special regulations 	
Planned forms/activities/teaching methods	Lecture, discussion, consultation	

Verification methods and ways of	W - the credit is given based on positive res	ults of a fir	al exam			
documenting the achieved learning	containing single-choice questions.					
outcomes.		ussion during the lectures on the prevention of occupational				
outcomes.	hazards of a veterinary physician in the light of contemporary					
	ergonomic knowledge		. ,			
	K - participation in discussions held during lectures					
	Specific evaluation criteria:					
	1) A student demonstrates a satisfactory (3.0) level of knowledge					
	or skills when he or she obtains between 51 and 60% of the					
	sum of points determining the maximum level of knowledge or					
	skills in a given subject,					
	2) A student demonstrates a satisfac					
	knowledge or skills when he/she obtains between 61 and 70%					
	of the total points determining the maximum level of					
	knowledge or skills in a given subject,					
	3) A student demonstrates a good level (4.0) of knowledge or skills when he/she obtains between 71 and 80% of the total					
	points determining the maximum leve					
	a given subject,		edge of skins in			
	4) A student demonstrates a plus good level (4.5) in knowledge or					
	skills when he/she obtains between 81 and 90% of the total					
	points determining the maximum level of knowledge or skills in					
	a given subject,					
	5) a student demonstrates a very good level (5.0) of knowledge					
	or skills when he/she obtains more than 91% of the total					
	points indicating the maximum level of knowledge or skills in a					
<u> </u>	given subject (respectively - its part)					
ECTS credits		Hours	ECTS			
		10	credits			
	Lectures Consultations	10 3	0,4			
		2	0,12 0,08			
	credit pass/resit exam TOTAL contact hours	15	0,08 0,6			
	NON-CONTACT	15	0,0			
	literature study	6	0,24			
	preparation for examination	4	0,24			
	TOTAL non-contact hours/ ECTS credits	10	0,10			
The workload of activities that requires	attendance at lectures	10	0,4			
direct participation of an academic	Consultations	3	0,12			
teacher	Credit pass/resit exam	2	0,12			
	TOTAL with direct involvement of the	15	0,6			
	teacher					
Relation of module learning outcomes		1				
	W1 - CW3 ++					
_	W1 - CW3 ++ U1 - AU21 +					
to course learning outcomes.						
_	U1 - AU21 +					
_	U1 - AU21 + U1 - AU22 +	e course is	the positive			
to course learning outcomes.	U1 - AU21 + U1 - AU22 + K1K1+, K8 +		•			
to course learning outcomes. Elements and values affecting the final	U1 - AU21 + U1 - AU22 + K1 –K1+, K8 + The condition for obtaining the credit for th	ing of close	ed questions)			