

Module code	M_WE_SEM9 PREW 1 2019-20
Field of study	Veterinary medicine
Module name, also the name in English	Veterinary Prevention 1 Prewencja weterynaryjna 1
Language of instruction	English
Module type	obligatory
Level of studies	Long-cycle master's degree studies
Form of study	Full-time
Year of study in the field of study	V
Semester of study in the field of study	IX
ECTS credits, divided into contact/non-contact hours	2 (1/1)
Academic title/degree, name of the person responsible for the module	Prof. dr hab. Renata Urban-Chmiel
Unit teaching the module	Department of Veterinary Prevention and Avian Diseases
Module objective	Acquire knowledge and skills to: evaluate the health of animal populations diverse in species and production based on epidemiological and production indicators; evaluate the importance of environmental factors in health management , including the ability to identify and eliminate factors harmful to animals; plan and conduct activities to fight threats and improve herd health and performance;
The learning outcomes for the module include a description of the knowledge, skills and social competences that the student will gain after completing the module.	Knowledge:
	K1. The student has a basic knowledge of the elementary conceptual categories and terminology used in veterinary prevention.
	K2. The student has knowledge of the influence of environmental factors, animal housing conditions and systems as well as species predispositions on the health status and production capacity.
	Skills:
	S1. The student has the ability to find, understand, analyze and creatively use necessary information from various sources and in different forms appropriate for veterinary prevention.
	S2. The student interprets law regulations regarding the basic principles of biosecurity in herd prevention.
	S3. The student has the ability to evaluate microclimate using measurement techniques of its evaluation components of the farms in terms of environmental and zoohygienic conditions, work organization and service and skilfully uses these data in preventive actions for the herd.
	Social competences:
C1. The student is able to interact and work with representatives of different professions (breeder, zootechnician) while taking different roles regarding the evaluation of parameters, animal welfare conditions and effects on health and production status of animals.	

	C2. The student is aware of the need for targeted further training and self-improvement in his/her profession, especially in the development of modern preventive measures.
Prerequisites and additional requirements	Sequence of subjects
Module program content	<p>Lectures</p> <p>Main causes of economic losses in different animal production sectors.</p> <p>Characteristic of stressful environmental factors with their effects on the health, immune status and farm animals production.</p> <p>Characteristic of endogenous factors predisposing immunosuppression in calves.</p> <p>Evaluation of effects of the metabolic disorders in cows on the immune status and health of newborn calves.</p> <p>Principles of developing prevention programs for selected companion animal species.</p> <p>Characteristics of alternative methods to chemotherapeutics to prevent diarrhea in calves.</p> <p>Basic biosecurity principles in the use of vaccines in animals.</p> <p>Vaccinology-general characteristics.</p> <p>Practical classes</p> <p>Characteristic of farm animals environment as animals health risk factors.</p> <p>Characteristic of the effects of exemplary feeding systems in cattle and pigs on health status and production.</p> <p>Characteristic of basic components of microclimate in rooms (temperature, humidity, air movement, dustiness, microflora) in terms of influence on health status, immunological parameters and farm animals production.</p> <p>Methods of measuring basic components of microclimate with the use of measuring instruments and interpretation of the results obtained on the basis of zoohygienic standards for different species and categories of animals - practical classes.</p> <p>Influence of animal housing environment on disease emergence;</p>
List of core and supplementary literature	<p>Required literature :</p> <ol style="list-style-type: none"> 1. Philpot W.N, Nickerson S.C., Malinowski E. Winning the Fight Against Mastitis. Westfalia Polska 2.Cockcroft P. Bovine medicine. Wiley Blackwell, 2015. 3.Matthews J. Diseases of the goat. Third Ed. Wiley-Blackwell, 2009 4 Radostits O.M., Herd Health Saunders Company, 2001. Current Veterinary Therapy sections, 2011-2015. 5 Greenough P.R. Lameness in cattle 2007 Elsevier . 6. Scientific articles and law regulations

<p>Planned forms/activities/teaching methods</p>	<p>As a part of the courses, students have the opportunity to participate in classes conducted in the form of lectures and seminars. In addition, some issues are implemented manually in the form of group work (use of instruments for measuring the components of microclimate, participation in the preparation of a sample feed mixture).</p>
<p>Verification methods and ways of documenting the achieved learning outcomes.</p>	<p>Verification of knowledge and skills effects 01, 02, 03 through oral answer and written test in IXth semester in the form of 4 essay questions of equal significance of 25% each.</p> <p>Verification of achieved effects 03 consists also in: manual acquisition of the ability to use instruments to measure the components of microclimate and interpret obtained results with standards.</p> <p>Verification of competency (01-02) based on class participation and semester credit.</p> <p>Scale of grades:</p> <p>0 - 50% - unsatisfactory</p> <p>51 - 60% - sufficient</p> <p>61 - 69% - sufficient plus</p> <p>70 - 80% - good</p> <p>81 - 90% - good plus</p> <p>91 - 100% - very good</p> <p>The pass mark of IXth semester is at least a satisfactory grade from the final written exam at the end of the semester.</p>

ECTS credits	<table border="0"> <thead> <tr> <th data-bbox="654 197 954 226">Form of course</th> <th data-bbox="995 197 1206 226">Number of hours</th> </tr> </thead> <tbody> <tr> <td data-bbox="654 232 954 262">ECTS credits</td> <td></td> </tr> <tr> <td></td> <td data-bbox="995 271 1181 300">Contact hours</td> </tr> <tr> <td data-bbox="654 309 954 338">Lectures</td> <td data-bbox="1098 309 1129 338">15</td> </tr> <tr> <td data-bbox="654 347 954 376">0,5</td> <td></td> </tr> <tr> <td data-bbox="654 385 954 414">Recitation classes</td> <td data-bbox="1098 385 1129 414">15</td> </tr> <tr> <td data-bbox="654 423 954 452">0,5</td> <td></td> </tr> <tr> <td data-bbox="654 461 954 490">and laboratories</td> <td></td> </tr> <tr> <td data-bbox="654 499 954 528">Consultations related</td> <td data-bbox="1114 499 1129 528">2</td> </tr> <tr> <td data-bbox="654 537 954 566">0,05</td> <td></td> </tr> <tr> <td data-bbox="654 575 954 604">to preparation</td> <td></td> </tr> <tr> <td data-bbox="654 613 954 642">for test and exam</td> <td></td> </tr> <tr> <td data-bbox="654 651 954 680">Final credit</td> <td data-bbox="1114 651 1129 680">1</td> </tr> <tr> <td data-bbox="654 689 954 719">0,05</td> <td></td> </tr> <tr> <td></td> <td data-bbox="979 772 1206 801">Number of hours</td> </tr> <tr> <td></td> <td data-bbox="979 810 1206 840">Non-contact hours</td> </tr> <tr> <td data-bbox="654 848 954 878">Preparation for</td> <td data-bbox="1114 848 1129 878">7</td> </tr> <tr> <td data-bbox="654 887 954 916">0,2</td> <td></td> </tr> <tr> <td data-bbox="654 925 954 954">laboratory classes</td> <td></td> </tr> <tr> <td data-bbox="654 963 954 992">Preparation for</td> <td data-bbox="1114 963 1129 992">7</td> </tr> <tr> <td data-bbox="654 1001 954 1030">0,2</td> <td></td> </tr> <tr> <td data-bbox="654 1039 954 1068">recitation classes</td> <td></td> </tr> <tr> <td data-bbox="654 1077 954 1106">Preparation for</td> <td data-bbox="1098 1077 1129 1106">13</td> </tr> <tr> <td data-bbox="654 1115 954 1144">0,4</td> <td></td> </tr> <tr> <td data-bbox="654 1153 954 1182">tests and exams</td> <td></td> </tr> <tr> <td data-bbox="654 1191 954 1220">Reading literature</td> <td data-bbox="1114 1191 1129 1220">4</td> </tr> <tr> <td data-bbox="654 1229 954 1258">0.1</td> <td></td> </tr> <tr> <td data-bbox="654 1267 954 1296">TOTAL:</td> <td data-bbox="1098 1267 1129 1296">64</td> </tr> <tr> <td data-bbox="654 1305 954 1335">2</td> <td></td> </tr> </tbody> </table>	Form of course	Number of hours	ECTS credits			Contact hours	Lectures	15	0,5		Recitation classes	15	0,5		and laboratories		Consultations related	2	0,05		to preparation		for test and exam		Final credit	1	0,05			Number of hours		Non-contact hours	Preparation for	7	0,2		laboratory classes		Preparation for	7	0,2		recitation classes		Preparation for	13	0,4		tests and exams		Reading literature	4	0.1		TOTAL:	64	2	
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The workload of activities that requires direct participation of an academic teacher	Participation in lectures - 15 hours, in classes - 15 hours, consultations - 2 hours; semester credit - 1 hour																																																										
Relation of module learning outcomes to course learning outcomes.	Module learning outcome code - course learning outcome code K1. - WE_W21+, WE_W27 + K2.- WE_W21+, WE_W27++ S1.- WE_U15 ++, S2.- WE_U31+, WE_U15 ++, S3.- WE_U31+, WE_U15 +, S4.- WE_U31++, WE_U15 +++, C1.- WE_K 5 +, WE_K 6 ++, WE_K 9 + C2.- WE_K 5 +, WE_K 6 ++, WE_K 9 +																																																										
Elements and values affecting the final grade	The final grade is based on the written exam in IX semester in the form of 4 essay questions of equal significance of 25% each- Total -100%.																																																										