Code of subject	M_WE_SEM9 CHP 1
Field of study	Veterinary medicine
Name of the training module including the Polish name	Diseases of birds 1
	Choroby ptaków 1
Language of instruction	English
Type of the training module	obligatory
Level of the training module	Master level
Form of studies	Stationary
Location in the programme (year)	V
Location in the programme (semester)	IX
Number of ECTS credits with a division into contact/noncontact	4 (2,48/1,52)
Name and surname of the person in charge	Dr hab. Agnieszka Marek university professor
Unit offering the subject	Department of Veterinary Prevention and Diseases of Birds
Aim of the module	Students learn practical issues in the field of anatomy, topographic anatomy, clinical physiology, pathophysiology and clinical immunology of birds, learn to correctly diagnose bird diseases on on the basis of clinical, anatomopathological and laboratory tests.
Learning outcomes	Knowledge:
	K1- basic knowledge of topographic anatomy and embryology of farm and domestic birds
	K2- basic knowledge of bird physiology and pathophysiology
	K3- basic knowledge in the field of bird pathomorphology
	K4- basic information on the contagious diseases of birds
	K5- has basic knowledge of the pharmacodynamics and pharmacokinetics of drugs used in birds
	K6- knowledge in the field of immunology and prevention of bird diseases
	Skills:
	S1- is able to carry out a clinical examination and basic laboratory tests in farm and domestic birds
	S2- performs an autopsy of birds and prepares an autopsy report, correctly interprets the autopsy results
	S3- correctly takes samples for laboratory tests and interprets the results of laboratory tests
	Social competences:
	C1- can diagnose the most common infectious and metabolic diseases in birds
	C2- adheres to ethical principles
	C3- is aware that the decisions made by him / her will have an impact on the patient's condition and the environment
Preliminary and additional requirements	Pathomorphology

Contents of the training module – a compact description of approx. 100 words.	Lectures: 1. Selected issues of avioembriopathology 2. Breeding physiology 3. Pathology of broods 4. Hygiene of the Poultry Hatching Plant 5.Immunoprophylaxis of poultry diseases (vaccines used in poultry) 6.Immunoprophylaxis of poultry diseases (rules of program arrangement and vaccination dates) 7. Poultry viral diseases eradicated ex officio 8. Poultry viral diseases eradicated ex officio 9. Avian leucosis 10,11 Poultry viral diseases 12, 13.Birds as a source of zoonoses 14. Selected diseases of game birds 14. Proceedings with poultry salmonellosis dangerous to public health 15. Detection of infectious diseases of poultry Exercises: 1. Topographic anatomy and selected issues in bird physiology. 2. Section technique 3. Anamnesis and clinical examination of the bird / flock 4. Biosecurity in poultry production / Clinical diagnostic methods in poultry pathology 5. Introduction to infectious immunology in poultry. Serology. 6. Viral respiratory diseases of poultry 7. Bacterial diseases of poultry 8. Immunoprophylaxis of viral diseases of poultry 9. Prevention and rules of combating bacterial diseases of poultry (vaccination techniques) 10. Immunosuppressive viral diseases of poultry 11. Other viral diseases of poultry. 12. Fungal diseases 13. Mycotoxicosis of poultry 14. Differential diagnosis of bird diseases.
Recommended and obligatory reading list	Basic literature: 1. Sturkie P.D.: Avian Physiology. Paul Verlag, New York, 1986 2. Swayne D.E. (Edit): Diseases of Poultry.,Wiley-Blackwell, 13th Edition, 2013 3. Randall C.J. Disease of the domestic fowl and turkey, London, 1985
The intended forms/activities/ teaching methods	a) lectures; number of hours 30; (multimedia presentations, films, discussion) b) Exercises; number of hours 30; (practical improvement of the techniques of clinical and pathological examinations, laboratory diagnostics, laboratory exercises report) c) consultation

Methods of verification and documentation forms of the achieved learning outcomes	During the semester, the following are planned: 1) one credit script with mixed questions (test, open, supplementing the issues, true / false), covering the knowledge provided during the lectures and exercises in the field of: topographic anatomy, morphology and selected issues in bird physiology; Breeding physiology and pathology; Clinical diagnostic methods in poultry pathology; Biosecurity. Diseases fought ex officio; Introduction to infectious immunology in poultry; serology; Immunoprophylaxis of viral diseases of poultry; Prevention and rules for combating bacterial diseases of poultry; Health problems of extensive production; Diseases of domestic birds. 60% of points are required to pass credit. There are two dates for the written test (first term, second term). Both terms have the same form. The second term may be joined by students who did not obtain the required number of points and students who were absent after justifying their absence. The absence must be justified within 7 days of the situation. Details can be found in the course regulations and will be provided to students during the first class. The number of questions and points that can be obtained from partial credits will be given to students during the first class and in the regulations of the subject. Criteria used to assess the pass: Insufficient (2.0) <60% obtained percentage of the sum of points assessing the level of required knowledge / skills Sufficient (3.0) 61–68% obtained percentage of the sum of points assessing the level of required knowledge / skills Sufficient plus (3+) 69–76% obtained percentage of the sum of points assessing the level of required knowledge / skills Good (4.0) 77–84% obtained percentage of the sum of points assessing the level of required knowledge / skills Good plus (4+) 85–92% obtained percentage of the sum of points assessing the level of required knowledge / skills Very good (5.0) 93–100% obtained percentage of the sum of points assessing the level of required knowledge / skills Active participation of the student in performing an autopsy (no grade). This activity is documented by recording your presence. Each student is required to complete at least one necropsy during the semester. Completion of the dissection technique in the practical and oral form (questions asked from the list of questions), including carrying out the autopsy of the bird along with checking the level of knowledge of the material covering the exercises. To pass the exercises, it is necessary to meet the following criteria: -crediting (without assessing) the autopsy technique during the classes, noted by the lecturer in the attendance register, - obtaining at least 61% of possible points from a written test.

<table>
<tr><td rowspan="5">Balance of ECTS credits</td><td>Form of classes.</td><td>number of contact hours</td><td>ECTS points</td></tr>
<tr><td>Lectures
Exercise
Credit</td><td>30
30
2</td><td>1.2
1.2
0,08</td></tr>
<tr><td></td><td>number of non-contact hours</td><td></td></tr>
<tr><td>preparation for laboratory exercises:
- preparation for exercises:
Reading the recommended literature
Preparation for credit</td><td>20

8

2
8</td><td>0,8

0,32

0,08
0,25</td></tr>
<tr><td>Total</td><td>100 hours</td><td>4</td></tr>
<tr><td>Number of contact hours</td><td colspan="3">30 h lectures
30 h exercise
2 hours. Credit
consultation
A total of 62 hours, which corresponds to 2.48 ECTS</td></tr>
<tr><td>Relationship between subject learning outcomes and veterinary studies learning outcomes</td><td colspan="3">K1 – A.W1 +
K2 - A.W2 +
K3 - B.W1 ++
K4 - B.W3 ++
K5- A.W16 ++
K6 - B.W3 ++
S1 - B.U3 ++
S2- B.U16 ++
S3 - B.U6 +
C1- K5 ++
C2 – K2 +
C3 - K1 +</td></tr>
<tr><td>Impact of selected compounds to final grade</td><td colspan="3">Weights of the final grade for the subject:
Exercise grade (EG) = 50% - arithmetic mean of grades obtained from the answers and passing the autopsy technique.
Assessment with credit written (AC) = 50%
Calculation of the final grade for the subject: FG = (0.5 x EG) + (0.5 x AC)</td></tr>
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