

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
SUMY NATIONAL AGRARIAN UNIVERSITY**

**Department of Virology, Pathology and Poultry Diseases. prof. II Panikar
Faculty of Veterinary Medicine**

MODULE SYLLABUS


Diseases of birds
selective

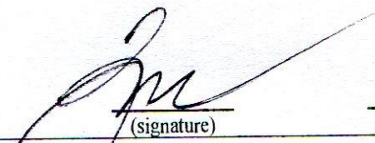
Implemented in the “Veterinary Medicine” Academic Program

Area of specialization 211 “ Veterinary Medicine”

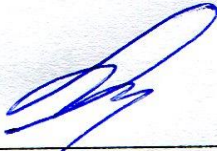
at the second (master 's) level of higher education

Sumy-2021


Author:  Reshetilo OI. , Ph.D., Associate Professor
(signature) (surname, initials) (academic degree and title, position)

Considered, approved and approved at the meeting of the department virology, pathoanatomy and diseases of poultry. prof. Panikara II	protocol from 8,06.2021 № 12
	The head departments <u></u> <u> </u> R. Petrov <u> </u> (signature) (surname, initials)

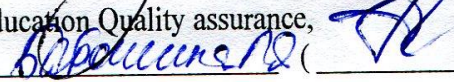

Approved by:

Guarantor of the Academic program  L. Ulko

Dean of the Faculty  O. Nechyporenko

Syllabus review (attached) is provided by :  O. Shkromada

 G. Zon

Representative of the Department of Education Quality assurance, licensing and accreditation  ()

Registered in electronic data base  2021

Syllabus review data:

The academic year in which changes are made	The Academic program attachment number with changes description	Changes revised and approved		
		Minutes No and date of the department meeting	Head of Department	Guarantor of the Academic program

1. MODULE OVERVIEW

1.	Title	VK 12. Diseases of birds			
2.	Faculty/Department	Veterinary medicine / virology, pathoanatomy and poultry diseases. prof. Panikara II			
3.	Type (compulsory or optional)	Selective			
4.	Program(s) to which module is attached				
5.	Level of the National Qualifications Framework	Veterinary medicine / 211 Veterinary medicine			
6.	Semester and duration of module	NRC of Ukraine - level 7, QF-EHEA - second cycle, EQF-LLL - level 7			
7.	ECTS credits number	6 semester, 18 weeks			
8.	Total workload and time allotment	4.0			
9.	Language of instruction	Contact work (classes)		Independent work	
		Lectures	Practical / seminar	Laboratory	
		16 (4)		30 (6)	74 (110)
10.	Module leader	English			
11.	Module leader contact information	Alexander Ivanovich Reshetilo			
11.1		mob. tel. +380991004548, e-mail reshetilooi@ukr.net https://vet.snau.edu.ua/kafedri/kafedra-ekonomiki/sklad-kafedri/reshetilo-oleksandr-ivanovich-k-vet-n-docent/			
12.	Module description	«Avian diseases "- as a discipline lays the foundations of knowledge about the biological characteristics, etiology of avian diseases, causes, modern methods of diagnosis, methods of treatment, prevention and combating them that will be needed in future work.			
13.	Module aim	The purpose of the educational component is to form students' deep theoretical knowledge and practical skills in recognizing internal diseases of poultry, studying the etiology, pathogenesis, symptoms, course, prognosis, organization of treatment depending on the specific conditions of keeping and feeding birds.			
14.	Module Dependencies (prerequisites, co-requisites, incompatible modules)	The educational component, being the basis for clinical subjects, is based on the foundation of general theoretical disciplines: Animal Physiology, Clinical Diagnosis, Epizootology and Infectious Diseases, Parasitology and Invasive Diseases			
15.	The policy of academic integrity	Applicants are explained the value of acquiring new knowledge; value and functions of academic integrity; report the inadmissibility of plagiarism, encourage independent performance of educational tasks, correct reference to sources of information in the case of borrowing scientific materials. Write-offs during tests and exams are prohibited (including the use of mobile devices). Papers should have correct textual references to the literature used. For violation of academic integrity, students may be held			

		<p>subject to the following academic liability:</p> <p>Academic plagiarism - grade 0, re-completion of the task.</p> <p>Academic fraud (writing off, deception, publishing someone's work for their own) - cancellation of points; re-evaluation of re-execution of non-independently performed work with new source data;</p> <p>Use of electronic devices during the final control of knowledge - suspension from work, grade 0, re-passing the final control</p>
16.	Link in Moodle	https://cdn.snau.edu.ua/moodle/enrol/index.php?id=1929

2. CORRELATION BETWEEN MODULE LEARNING OUTCOMES (MLOs) AND PROGRAM LEARNING OUTCOMES (PLOs)

<p>MLOs:</p> <p>On successful completion of the module the learner will be able to:</p>	PLOS 1	PLOS 2	How assessed
<p>MLOs 1. Understand the importance of discipline in shaping the worldview of a veterinarian. Adhere to safety rules when working with birds. Distinguish the species of birds. Know the regulatory requirements for keeping and feeding different age groups of bird species and breeds, anatomical and physiological features structure of the bird's body,, which are related to the ability to fly, clinical and biochemical parameters of blood, urine. Master the technique and methods of administration of drugs to birds. Make blood smears, get blood serum and examine them, conduct a clinical examination.</p>	+	+	<ul style="list-style-type: none"> - Oral control (participation in a discussion on the topic of the lecture) - Laboratory and practical control (performance of tasks in laboratory work). Working with birds, autopsy - Written control (performance of tasks on independent work, self-study of the topic as a whole or individual issues of independent work (test results, preparation of presentations, presentation report of self-developed material))
<p>MLOs 2. Know main infectious and invasive diseases of poultry: etiology, diagnosis, treatment, prevention. Prepare the bird for vaccination and use vaccination schemes for prevention major viral diseases; to master methods of diagnosis, treatment and prevention of major viral bacterial, parasitic and non-communicable diseases of poultry of different species. Carry out treatment and prevention of diseases of various etiologies. Fix the birds. Apply the scheme of clinical research. Carry out registration and collection of anamnesis. Analyze the obtained results Understand the significance of the results of animal registration and anamnesis collection Use the obtained data for further clinical research of animals.</p>	+	+	<ul style="list-style-type: none"> - Oral control (participation in a discussion on the topic of the lecture) - Laboratory and practical control (performance of tasks in laboratory work). Working with birds, autopsy - Written control (performance of tasks on independent work, self-study of the topic as a whole or individual issues of independent work (test results, preparation of presentations, presentation report of self-developed material))
<p>MLOs 3. To know the technology of egg incubation, features of microclimate parameters during incubation of eggs of different species and breeds of poultry. Requirements for the quality of</p>	+	+	<ul style="list-style-type: none"> - Oral control (participation in a discussion on the topic of the lecture) - Laboratory and practical

hatching eggs of modern crossbreds of poultry, embryonic development of poultry, biology of nutrition and respiration of poultry embryos, causes of embryo mortality by incubation periods. Diagnose and prevent diseases of embryos. Fix animals. Apply the scheme of clinical research of animals. Carry out registration and collection of anamnesis. Analyze the obtained results. Understand the significance of the results of animal registration and anamnesis collection. Use the obtained data for further clinical research of animals.			control (performance of tasks in laboratory work). Working with birds, autopsy – Written control (performance of tasks on independent work, self-study of the topic as a whole or individual issues of independent work (test results, preparation of presentations, presentation report of self-developed material)) – Final control (solving tests)
MLOs 4. Diagnose wounds, diseases of bones and joints: etiology, diagnosis. To assess the zoohygienic condition of the premises, to select biological and pathological material for laboratory tests, to conduct diagnostic tests for infectious and non-infectious diseases, to prevent major diseases of various etiologies, to provide medical care to different age groups of birds. Carry out preventive veterinary and sanitary measures in production areas in poultry farms of different technological direction.	+	+	– Oral control (participation in a discussion on the topic of the lecture) – Laboratory and practical control (performance of tasks in laboratory work). Working with birds, autopsy – Written control (performance of tasks on independent work, self-study of the topic as a whole or individual issues of independent work (test results, preparation of presentations, presentation report of self-developed material))

3. MODULE INDICATIVE CONTENT

Topic.	Distribution of hours				Learning resources ¹
	Directed stud			Independent work	
	Lectures	Practicals	Lab.		
Topic 1. Anatomical structure of birds of different species. Physiology and ethology of birds. Basics of incubation.	2		2	8	[1, 7, 14, 17, 20, 22]
Topic 2. Sanitary and hygienic requirements for poultry farms and farms. Microclimate control, disinfection, remediation measures in poultry farms.	2		4	10	[1, 5, 9, 16, 19, 25]
Topic 3. Technological and sanitary aspects of feeding poultry of different species and age groups. Stress and their prevention in poultry.	2		4	10	[1, 10, 12, 15, 20, 26]
Topic 4. Especially dangerous infectious poultry diseases.	2		4	10	[1, 3, 6, 8, 17, 21]

¹ Specific source from the main or additional recommended literature

Topic 5. Especially dangerous invasive poultry diseases.	2		4	10	[2, 4, 7, 9, 18, 23]
Topic 6. Organ pathology. Pathological conditions of poultry associated with a lack of vitamins, macro-and micronutrients, amino acids; toxicosis.	2		4	10	[4, 7, 11, 15, 24]
Topic 7. Diseases of embryos.	2		4	8	[2, 6, 11, 17, 26]
Topic 8. Diseases of ornamental and wild birds	2		4	8	[3, 5, 12, 14, 25]
Total	16		30	74	

4. TEACHING AND LEARNING METHODS

MLOs	Teaching methods (directed study)	Hours	Learning methods (self-directed study)	Hours
MLOs 1	<p>Survey of students with explanation of key questions of the subject, answers to students' questions, mastery of practical skills, methods of laboratory work.</p> <p>Interactive discussion of the topic in the form of a discussion, which includes information presented in diagrams and drawings, answers to students' questions.</p> <p>Mastering practical skills, methods of laboratory work (the concept of symptom, prognosis, diagnosis, syndrome).</p> <p>Carrying out an autopsy followed by a detailed analysis of the specific case, discussion of basic clinical data,</p>	10	<p>Independent processing of materials on the topic. Memorization of theoretical material, observation.</p> <p>On the basis of the studied and processed material Fr.drawing up a synopsis of independent work</p> <p>Acquaintance with the information of official sites on a subject of employment or a separate question.</p> <p>Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals).</p>	16
MLOs 2	<p>Survey of students with explanation of key questions of the subject, answers to students' questions, mastery of practical skills, methods of laboratory work.</p> <p>Interactive discussion of the topic in the form of a discussion, which includes information presented in diagrams and drawings, answers to students' questions.</p> <p>Mastering practical skills, methods of laboratory work (the concept of symptom, prognosis, diagnosis,</p>	12	<p>Independent processing of materials on the topic. Memorization of theoretical material, observation.</p> <p>On the basis of the studied and processed material Fr.drawing up a synopsis of independent work</p> <p>Acquaintance with the information of official sites on a subject of employment or a separate question.</p> <p>Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for</p>	18

	<p>syndrome).</p> <p>Carrying out an autopsy followed by a detailed analysis of the specific case, discussion of basic clinical data,</p>		<p>further research of animals).</p>	
MLOs 3	<p>Survey of students with explanation of key questions of the subject, answers to students' questions, mastery of practical skills, methods of laboratory work.</p> <p>Interactive discussion of the topic in the form of a discussion, which includes information presented in diagrams and drawings, answers to students' questions.</p> <p>Mastering practical skills, methods of laboratory work (the concept of symptom, prognosis, diagnosis, syndrome).</p> <p>Carrying out an autopsy followed by a detailed analysis of the specific case, discussion of basic clinical data,</p>	12	<p>Independent processing of materials on the topic. Memorization of theoretical material, observation.</p> <p>On the basis of the studied and processed material Fr.drawing up a synopsis of independent work</p> <p>Acquaintance with the information of official sites on a subject of employment or a separate question.</p> <p>Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals).</p>	20
MLOs 4	<p>Survey of students with explanation of key questions of the subject, answers to students' questions, mastery of practical skills, methods of laboratory work.</p> <p>Interactive discussion of the topic in the form of a discussion, which includes information presented in diagrams and drawings, answers to students' questions.</p> <p>Mastering practical skills, methods of laboratory work (the concept of symptom, prognosis, diagnosis, syndrome).</p> <p>Carrying out an autopsy followed by a detailed analysis of the specific case, discussion of basic clinical data,</p>	12	<p>Independent processing of materials on the topic. Memorization of theoretical material, observation.</p> <p>On the basis of the studied and processed material Fr.drawing up a synopsis of independent work</p> <p>Acquaintance with the information of official sites on a subject of employment or a separate question.</p> <p>Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals).</p>	20

5. ASSESSMENT

5.1. Diagnostic assessment

5.2. Summative assessment

5.2.1. Intended learning outcomes methods:

№	Summative assessment methods	Grades	Deadline
1.	Oral control (participation in a discussion on the topic of the lecture)	<i>30 points / 30%</i>	Weekly
2.	Written control (performance of tasks on independent work).	<i>15 points / 15%</i>	According to the schedule
3.	Laboratory-practical control (performance of tasks on laboratory works) Work with a bird, carrying out autopsy	<i>40 points / 40%</i>	According to the schedule of the hospital
4.	Final control (solving tests)	<i>15 points / 15%</i>	According to the schedule of delivery of modules

5.2.2. Grading criteria

Summative assessment method	Unsatisfactory	Satisfactory	Good	Excellent
	<i><14 points</i>	<i>15-24 points</i>	<i>25-34 points</i>	<i>35-40 points</i>
Thematic survey. Oral control	The student can play only individual fragments of the course.	The student has certain knowledge provided in the program of the discipline, has the basic provisions studied at a level that is defined as the minimum allowable	The student in general is well versed in the material, knows the basic provisions of the material, makes an analysis of possible situations based on them and is able to apply in solving typical practical problems, but admits some inaccuracies	The student demonstrates complete and solid knowledge of the educational material in the amount that corresponds to the program of the discipline, correctly and reasonably makes the necessary decisions in various non-standard situations.
	<i><9 points</i>	<i>10-19</i>	<i>20-29 points</i>	<i>30 points</i>
Laboratory and practical control (performance of tasks in laboratory work). Working with birds, autopsy	The student is not prepared to solve problems, the answer is incomplete, some components are missing or insufficient to disclose	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue Using the basic theoretical provisions, the student has difficulty performing the task. Tasks are significantly	The student has mastered the basic material, and understands the solution of problems, has suggestions on the direction of their solutions. All the requirements of the task are met, but in violation of the methods	The task is performed methodically correctly and qualitatively. The student is able to implement the theoretical provisions of the discipline in practice When performing tasks, he showed the ability to solve tasks independently

		formalized: there is a correspondence of the algorithm, but there is no deep understanding of the work		
	<5 points	5-8	8-14 points	15 points
Written control (performance of tasks on independent work). Protection of the abstract from independent work.	The student does not have a complete understanding of the material on the discipline. The student is not prepared to independently solve problems that outline the purpose and objectives of the discipline	Despite the fact that the student completed the program of the discipline, he worked passively, his answers during the registration of works are mostly incorrect, unfounded	Knows the characteristics of the main provisions that are crucial in performing the design of tasks and explaining the decisions made, within the discipline being studied. Errors in the answers are not systemic.	When performing tasks, he showed the ability to solve tasks independently. The synopsis is designed flawlessly, logically arranged material with an understanding of the relationships of the processes disclosed on this topic.
Multiple choice tests	The student gives the correct answer to several questions ($\leq 33\%$ of the correct answers).	The student has some knowledge provided in the program of the discipline, has the basic provisions being studied and gives the correct answer to several questions (34-59% of correct answers).	The student is generally well versed in the material, knows the basic provisions of the material, and gives the correct answer to several questions (60-89% of the correct answers).	The student demonstrates complete and solid knowledge of the study material in the amount that corresponds to the program of the discipline, correctly answers the test questions (90-100% of correct answers).

5.1. Formative assessment:

To assess current progress in learning and understanding areas for further improvement

№	Elements of formative assessment	Date
1	Oral interview students with an explanation of key issues of the subject, answers to students' questions, mastering practical skills (methods of laboratory work)	During the lesson
2	Oral feedback from the teacher while working on the solution of clinical and situational problems	During the lesson
3	Written feedback from the teacher after checking the synopsis with independent study of the discipline.	Within a week, after execution

6. 6. LEARNING RESOURCES

6.1. The main sources

6.1.1. Textbooks guide

1. Berezovsky AV, Herman VV, Fotina TI, Fotina GA Diseases of birds: Textbook. K .: LLC "DiA", 2012. 328 p.
2. Zon G.A. Pathological anatomy of parasitic diseases of animals. Educational edition. Sumy, "Source". 2005. 226 p.

3. Zon GA, Violin MV, Ivanovskaya LB Pathological autopsy of animal carcasses: a textbook. second edition, supplemented, Sums of GDP "Dream - 1" Ltd. 2012. 244 p.

6.1.2. Methodical support

1. Panikar II Viral hepatitis of ducklings (methodical instructions for students of veterinary faculty and listeners of FPK. Sumy. 1989. 10 p.
2. Baidevlyatov AB, Zon GA, Fotina TI etc. Methodical recommendations on veterinary and sanitary protection of poultry, improvement of technologies and organization of production at turkey breeding enterprises (associations). Sumy, 1990. 210 p.
3. Baidevlyatov AB, Fotina TI, Zon GA, etc. Methodical recommendations for the prevention of Escherichia coli (bacteriosis) of turkeys. Sumy, 1990. 15 p.
4. Tsarenko OM, Baidevlyatov AB and other. Methodical recommendations on improvement and introduction in production of economic and ecological technological and veterinary and sanitary measures for production of meat of broilers in Ukraine. Sumy, 1998 GDP "Dream". LTD. 32 s.
5. Tsarenko OM, Baidevlyatov AB and other. Economic-ecological, technological and sanitary-hygienic bases of increase of efficiency of production of eggs in poultry farms of Ukraine / methodical recommendations. Sumy. 1998, Runway "Dream" - 1 LTD. 40 s.
6. Zone GA, Ivanovskaya LB, Zon MG and other birds Yersiniosis / methodical recommendations / Kyiv, 2001. 10 p.
7. Panikar II, Pedan VA and other birds Staphylococcus / guidelines /, Kyiv, 2001. 8 p.
8. Zone GA, Sorokova VV, Ivanovskaya LB and other Clostridiosis of birds / methodical recommendations / Kyiv, 2003. 13 p.
9. Fotina TI, Sakhatskaya OI and other Recommendations for the diagnosis, control and prevention of avian campylobacteriosis / Kyiv, 2004. Vetinform. 24 s.
10. Kotsyumbas IY, Zon GA, Fotina TI and others Epizootological survey of poultry enterprises / methodical recommendations / KYIV, 2008. 12 p.
11. Reshetilo OI, Pedan VA, Panasenko OS Methodical instructions: "Staging of indirect hemagglutination reaction". SNAU, 2011. 8 p.
12. Zon GA, Vashchuk EV, Stets VV Methodical recommendations for diagnosis, control and prevention of avian pseudomonas. SNAU, 2012. 22 p.
13. Panikar II, Garagulya GI, Garkova VV Methodical instructions for performance of independent work of students on a theme: "Hematopoietic organs and immune protection" Sumy, 2012, SNAU. 45 s.
14. Reshetilo OI, Panasenko OS, Pedan VA Methodical instructions for carrying out laboratory-practical classes on special veterinary virology: part 1. Sumy, 2012, SNAU. 22 s.

6.1.3. Other sources

- <http://www.vet.gov.ua/>
- http://www.ritmpress.ru/med/book/int_med/index/htm
- <http://www.jalonso.com/libreria.html>
- <http://www.mlink.net/veterinet/>
- <http://www.vet.net/>

6.2. Additional sources

15. Berezovsky VV, Fotina AA Modern chemotherapeutic agents in poultry technology. Kiev, 2010. 72 p.
16. Korovin RN, Zelenky VP, Grosheva GI Laboratory diagnosis of bird diseases: a handbook. M: Agropromizdat, 2009. 256 p.
17. Birman B.Ya., Golubnichy VP Diseases of birds. МН .: 2006. 251 с.
18. Tretyakov NP, Krok GS Incubation with the basics of embryology. Izd.2 –e., M .: Kolos, 2008. 304 s.
19. Breeding turkeys / Ed. Ryabokon Yu.A. - H .: «NTMT», 2008. - 304 p.

20. The need of poultry for nutrients / Per. with English IV Shchepnikova and OV Lishchenko. M .: Kolos, 2007. 255 s.
21. Ruban BV Poultry and poultry textbook. Kharkiv: Espada, 2002. 520 p.
22. Lemesheva MM Feeding poultry. Sumy "Slobozhanshchina", 2003. 152 p.
23. Bessarabov BF Diseases of songbirds and ornamental birds. M .: Rosselkhozizdat, 2000. 192 s.
24. Donnik NS, Kalganov AV Poultry diseases. K .: "Vetinform", 2007. 152 p.
25. Rakhmanov AN, Bessarabov BF Pigeons and prevention of their diseases. M .: Rosselkhozizdat, 2007. 271 s.
26. Panikar II, Garkava VV, Sevryukov YI Industrial poultry and environmental protection. Rosselkhozizdat, M.2007. 46 s.

6.3. Software

- Microsoft Power Point - data visualization Microsoft Power BI - analytics and data visualization
- Multimedia projector, whiteboard and screen;
Moodle distance learning and control system

Рецензія на Робочу програму (силабус)

Параметр, за яким оцінюється робоча програма (силабус) освітнього компонента гарантом або членом проєктної групи	Так	Ні	Коментар
Результати навчання за освітнім компонентом (ДРН) відповідають НРК	+		
Результати навчання за освітнім компонентом (ДРН) відповідають передбаченим ПРН (для обов'язкових ОК)	+		
Результати навчання за освітнім компонентом дають можливість виміряти та оцінити рівень їх досягнення	+		

Член проєктної групи ОП _____ Шкромада О.І.

Параметр, за яким оцінюється робоча програма (силабус) освітнього компонента викладачем відповідної кафедри	Так	Ні	Коментар
Загальна інформація про освітній компонент є достатньою	+		
Результати навчання за освітнім компонентом (ДРН) відповідають НРК	+		
Результати навчання за освітнім компонентом (ДРН) дають можливість виміряти та оцінити рівень їх досягнення	+		
Результати навчання (ДРН) стосуються компетентностей студентів, а не змісту дисципліни (містять знання, уміння, навички, а не теми навчальної програми дисципліни)	+		
Зміст ОК сформовано відповідно до структурно-логічної схеми	+		
Навчальна активність (методи викладання та навчання) дає змогу студентам досягти очікуваних результатів навчання (ДРН)	+		
Освітній компонент передбачає навчання через дослідження, що є доцільним та достатнім для відповідного рівня вищої освіти	+		
Стратегія оцінювання в межах освітнього компонента відповідає політиці Університету/факультету	+		
Передбачені методи оцінювання дозволяють оцінити ступінь досягнення результатів навчання за освітнім компонентом	+		
Навантаження студентів є адекватним обсягу освітнього компонента	+		
Рекомендовані навчальні ресурси є достатніми для досягнення результатів навчання (ДРН)	+		
Література є актуальною	+		

Рецензія на Робочу програму (силабус)

Параметр, за яким оцінюється робоча програма (силабус) освітнього компонента гарантом або членом проектної групи	Так	Ні	Коментар
Результати навчання за освітнім компонентом (ДРН) відповідають НРК	+		
Результати навчання за освітнім компонентом (ДРН) відповідають передбаченим ПРН (для обов'язкових ОК)	+		
Результати навчання за освітнім компонентом дають можливість виміряти та оцінити рівень їх досягнення	+		

Член проектної групи ОП _____ Шкромада О.І.

Параметр, за яким оцінюється робоча програма (силабус) освітнього компонента викладачем відповідної кафедри	Так	Ні	Коментар
Загальна інформація про освітній компонент є достатньою	+		
Результати навчання за освітнім компонентом (ДРН) відповідають НРК	+		
Результати навчання за освітнім компонентом (ДРН) дають можливість виміряти та оцінити рівень їх досягнення	+		
Результати навчання (ДРН) стосуються компетентностей студентів, а не змісту дисципліни (містять знання, уміння, навички, а не теми навчальної програми дисципліни)	+		
Зміст ОК сформовано відповідно до структурно-логічної схеми	+		
Навчальна активність (методи викладання та навчання) дає змогу студентам досягти очікуваних результатів навчання (ДРН)	+		
Освітній компонент передбачає навчання через дослідження, що є доцільним та достатнім для відповідного рівня вищої освіти	+		
Стратегія оцінювання в межах освітнього компонента відповідає політиці Університету/факультету	+		
Передбачені методи оцінювання дозволяють оцінити ступінь досягнення результатів навчання за освітнім компонентом	+		
Навантаження студентів є адекватним обсягу освітнього компонента	+		
Рекомендовані навчальні ресурси є достатніми для досягнення результатів навчання (ДРН)	+		
Література є актуальною	+		

Рецензент викладач кафедри вірусології, патанатомії та хвороб птиці, професор Зон Г.А. _____
(назва) (посада, ПІБ) (підпис)