

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
SUMY NATIONAL AGRARIAN UNIVERSITY
FACULTY OF VETERINARY MEDICINE
DEPARTMENT OF EPIZOOTOLOGY AND PARASITOLOGY**

Workprogram (syllabus) of the educational component

Public health protection

obligatory

(required / optional)

Implemented within the educational program

"Veterinary medicine"

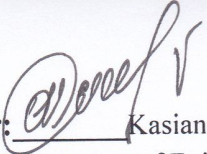
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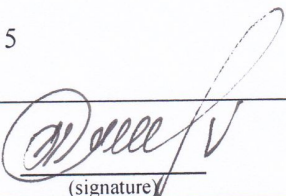
in specialty 211 "Veterinary Medicine"

(code, name)

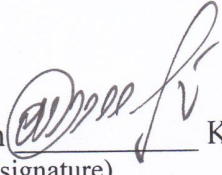
at the second (educational) level of higher education

Sumy - 2022


Developer:  Kasianenko OI, Doctor of Science, Professor
Head of the Department of Epizootology and Parasitology
(signature) (surname, initials) (academic degree and title, position)


Considered, approved and approved at the meeting of the Department of Epizootology and Parasitology (name of the department)	Minutes of June 15, 2022 № 15	
	The head departments	<u></u> (signature) Kasianenko OI (surname, initials)

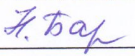
Agreed:

Guarantor of the educational program  Kasianenko O.I.
(signature) (Full name)

Dean of the faculty where the educational program is implemented

 Nechiporenko O.L.
(signature) (Full name)

Work program review (attached) provided:  Petcov R.V.
(Full name)

Methodist of the Department of Education Quality,
licensing and accreditation  (N. Baranik)
(signature) (Full name)

Registered in the electronic database: date: 29.06 2022

Information on viewing the work program (syllabus):

Academic year in which changes are made	The number of the appendix to the work program with a description of the changes	The changes have been reviewed and approved		
		Date and number of the minutes of the meeting of the department	Head of Department	Guarantor of the educational program

GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

1.	Name OK	Veterinary public health			
2.	Faculty / department	Faculty of Veterinary Medicine / Department of Epizootology and Parasitology			
3.	Status OK	Mandatory component of the OP			
4.	Program / Specialty (programs), the component of which is OK for (to be filled in for mandatory OK)	211 Veterinary medicine			
5.	OK can be suggested for (to be filled in for selective OK)				
6.	NRC level	Level 7			
7.	Semester and duration of study	5th semester, 15 weeks			
8.	Number of ECTS credits	5.0			
9.	The total number of hours and their distribution	Contact work (classes)			Individual work
		Lectures	Practical / seminar	Laboratory	
		-	-	46	104
10.	Language of instruction	Ukrainian			
11.	Teacher / Coordinator of the educational component	Doctor of Science, Professor Kasyanenko OI			
11.1	Contact Information	Corp. 3, office 81, Tel .: +8 (096) 069 09 02; viber +8 (095) 615 39 02 oksana_kasjanenko@ukr.net			
12.	General description of the educational component	The educational component is related to the general objectives of the OP and covers the aspects on which veterinary support of public health is based. The study of the discipline provides in-depth knowledge of planning, organizing and conducting veterinary measures to prevent the negative impact of various factors on human health.			
13.	The purpose of the educational component	The purpose of the educational component is the formation of higher education students' ability to dynamically combine knowledge, skills, communication skills, solve complex problems in the field of veterinary medicine in veterinary hygiene, sanitation and examination for prevention of negative impact of factors on human health during professional or research and innovation activities.			
14.	Prerequisites for studying OK, the relationship with other educational components of OP	The educational component is based on the study of OK: Hygiene and sanitation, Ethology and animal welfare, Genetics, Animal physiology			
15.	The policy of academic integrity	No manifestations of academic dishonesty are allowed during the study of OK. If a violation of academic integrity (write-off, academic plagiarism) is detected, the completed task is not credited and is sent for re-execution. Systems are tools for counteracting violations of academic			

		integrity Plagiarism check algorithm . In case of violations, the response is in accordance with the regulations on the academic integrity of participants in the educational process in Sumy NAU (https://snau.edu.ua/viddil-zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/akademichna-dobrochesnist/).
16.	CourselinkinMoodl	https://cdn.snau.edu.ua/moodle/course/view.php?id=5108

2. LEARNING OUTCOMES OF THE EDUCATIONAL COMPONENT AND THEIR RELATIONSHIP WITH THE SOFTWARE LEARNING OUTCOMES

<p style="text-align: center;">OK learning outcomes:</p> <p>After studying the educational component, the student is expected to be able to... »</p>	<p style="text-align: center;">As estimated by RND</p>
<p>PRN 9. Develop measures to protect the population from diseases common to animals and humans.</p>	<p>Rating control according to the 100-point scale of ECTS assessment. Polycriteria assessment of the current work of higher education students: survey of theoretical issues, assessment of the level of knowledge demonstrated in laboratory-practical classes; multiple choice test; independent elaboration of the topic as a whole or separate questions of independent work of applicants for higher education (test results, preparation of presentations, presentation report of independently developed material). Activity is taken into account when discussing issues raised in class; express control during classroom classes. During the current and final control in the process of DRN evaluation, scientific publications prepared by the applicant and published in collections that are part of professional publications and / or conference proceedings are taken into account .</p>
<p>PRN 10. To offer and use expedient innovative methods and approaches of the decision of problem situations of a professional origin.</p>	<p>Rating control according to the 100-point scale of ECTS assessment. Polycriteria assessment of the current work of higher education students: survey of theoretical issues, assessment of the level of knowledge demonstrated in laboratory-practical classes; multiple choice test; independent elaboration of the topic as a whole or separate questions of independent work of applicants for higher education (test results, preparation of presentations, presentation report of independently developed material). Activity is taken into account when discussing issues raised in class; express control during classroom classes. During the current and final control in the process of DRN evaluation, scientific publications prepared by the applicant and published in collections that are part of professional publications and / or conference proceedings are taken into account .</p>

<p>PRN 19. Carry out educational activities among employees of the industry and the population.</p>	<p>Rating control according to the 100-point scale of ECTS assessment. Polycriteria assessment of the current work of higher education students: survey of theoretical issues, assessment of the level of knowledge demonstrated in laboratory-practical classes; multiple choice test; independent elaboration of the topic as a whole or separate questions of independent work of applicants for higher education (test results, preparation of presentations, presentation report of independently developed material). Activity is taken into account when discussing issues raised in class; express control during classroom classes. During the current and final control in the process of DRN evaluation, scientific publications prepared by the applicant and published in collections that are part of professional publications and / or conference proceedings are taken into account .</p>
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3. CONTENT OF THE EDUCATIONAL COMPONENT (PROGRAM OF THE COURSE)

Topic. List of issues to be addressed within the topic	Distribution within the total time budget			Recommended Books ¹	
	Classroom work		Individual work		
	Luke	P.z / semin. with	Lab. with.		
Topic 1. Basics of healthy eating			12	20	[1, 3, 4, 10, 17, 23]
Topic 2. Infectious diseases transmitted to humans through livestock products			8	14	[1, 2, 4, 5, 8, 25]
Topic 3. Invasive animal diseases transmitted to humans through livestock products			8	14	[4, 6, 9, 15, 27]
Topic 4. Fish diseases are dangerous to humans			6	14	[3, 4, 10, 26]
Topic 5. Food poisoning and the basics of their prevention			6	14	[1, 4, 7, 19, 11, 15]
Topic 6. Control of residues of antibacterial drugs in livestock products			6	14	[4, 7, 13, 17, 27]
Total		46		104	

4. METHODS OF TEACHING AND TEACHING

PRN	Teaching methods(work to be carried out by the teacher during classes, consultations)	Number of hours	Teaching methods(what types of educational activities the student must perform independently)	Number of hours
PRN 9. Develop measures to protect the population from diseases common to animals and humans.	Narration of theoretical questions, explanations, conversation (heuristic and reproductive), lecture, instruction. Laboratory-practical classes in (educational-scientific laboratory of PCR-diagnostics, inter-faculty educational-scientific laboratory of electron microscopy). Demonstration of methods and results of diagnostic tests, illustration, observation. Use of technical means of training and problem situations, excursions, classes on production, group researches, use of educational and control tests). Use of multimedia technologies, spreadsheets,	18	Pobota with a book, lecture notes, educational and methodical literature (reading, translation, writing, taking notes, making tables, graphs, reference notes). Acquaintance with the information of official sites on a subject of employment or a separate question (the instruction on prevention and elimination of an infectious disease). Memorization of theoretical material, observation. The student must apply teaching methods by the nature of the logic of cognition (analytical, synthesis methods, inductive method, deductive method, translational method). On the basis of the studied and	30

¹Specific source from the main or additional recommended literature

	<p>application of the method of analysis of specific situations (case-study), dialogue training, part-time students (cooperation).</p>		<p>processed material to independently generate an opinion during a theoretical survey, solving situational problems, debates, discussions, binary classes, business and role-playing games, group research). Use multimedia technologies, dialogue learning, student cooperation (cooperation).</p>	
<p>PRN 10. To offer and use expedient innovative methods and approaches of the decision of problem situations of a professional origin.</p>	<p>Narration of theoretical questions, explanations, conversation (heuristic and reproductive), lecture, instruction. Laboratory-practical classes in (educational-scientific laboratory of PCR-diagnostics, inter-faculty educational-scientific laboratory of electron microscopy). Demonstration of methods and results of diagnostic tests, illustration, observation. Use of technical means of training and problem situations, excursions, classes on production, group researches, use of educational and control tests). Use of multimedia technologies, spreadsheets, application of the method of analysis of specific situations (case-study), dialogue training, part-time students (cooperation).</p>	18	<p>Pobota with a book, lecture notes, educational and methodical literature (reading, translation, writing, taking notes, making tables, graphs, reference notes). Acquaintance with the information of official sites on a subject of employment or a separate question (the instruction on prevention and elimination of an infectious disease). Memorization of theoretical material, observation. The student must apply teaching methods by the nature of the logic of cognition (analytical, synthesis methods, inductive method, deductive method, translational method). On the basis of the studied and processed material to independently generate an opinion during a theoretical survey, solving situational problems, debates, discussions, binary classes, business and role-playing games, group research). Use multimedia technologies, dialogue learning, student cooperation (cooperation).</p>	44
<p>PRN 19. Carry out educational activities among employees of the industry and the population.</p>	<p>Narration of theoretical questions, explanations, conversation (heuristic and reproductive), lecture, instruction. Laboratory-practical classes in (educational-scientific laboratory of PCR-diagnostics, inter-faculty educational-scientific laboratory of electron microscopy). Demonstration of methods and results of diagnostic tests,</p>	10	<p>Pobota with a book, lecture notes, educational and methodical literature (reading, translation, writing, taking notes, making tables, graphs, reference notes). Acquaintance with the information of official sites on a subject of employment or a separate question (the instruction on prevention and elimination of an infectious disease).</p>	30

	<p>illustration, observation.</p> <p>Use of technical means of training and problem situations, excursions, classes on production, group researches, use of educational and control tests).</p> <p>Use of multimedia technologies, spreadsheets, application of the method of analysis of specific situations (case-study), dialogue training, part-time students (cooperation).</p>		<p>Memorization of theoretical material, observation.</p> <p>The student must apply teaching methods by the nature of the logic of cognition (analytical, synthesis methods, inductive method, deductive method, translational method).</p> <p>On the basis of the studied and processed material to independently generate an opinion during a theoretical survey, solving situational problems, debates, discussions, binary classes, business and role-playing games, group research).</p> <p>Use multimedia technologies, dialogue learning, student cooperation (cooperation).</p>	
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5. EVALUATION BY EDUCATIONAL COMPONENT

5.1. Diagnostic evaluation (indicated if necessary)

5.2. Summative assessment

5.2.1. To assess the expected learning outcomes provided

№	Methods of summative evaluation	Points / Weight in the overall score	Date of compilation
	Thematic survey	<i>20 points / 20%</i>	Weekly
	Execution of tasks in laboratory-practical classes	<i>20 points / 20%</i>	According to the schedule
	Multiple choice test	<i>15 points / 15%</i>	For 7-8 weeks
	Report with a presentation on the subject of independent study of the discipline	<i>45 points / 45%</i>	According to the schedule

5.2.2. Evaluation criteria

Component²	Unsatisfactorily	Satisfactorily	Fine	Perfectly³
Thematic survey	<i><12 points</i>	<i>12-15 points</i>	<i>15-18 points</i>	<i>20 points</i>
	the applicant can reproduce only individual fragments of the course.	the applicant can recall and reproduce knowledge based on directly posted material within the OK	the applicant can recall and reproduce the knowledge of the directly presented material within the OK with some evidence of a broader study	the applicant can reproduce the knowledge obtained outside directly laid out material within the OK
Performing tasks in -practical classes	<i><12 points</i>	<i>12-15 points</i>	<i>15-18 points</i>	<i>20 points</i>
	Task requirements not met	The applicant can plan, conduct and submit an independent study with significant level of support	The applicant may plan, conduct and represent an independent research with a low level of support	The applicant implements the theoretical material of the discipline in the performance of practical work, Plan, conduct and present an independent research with limited support
Multiple choice test	<i>≤ 5 points</i>	<i>6-9 points</i>	<i>10-13 points</i>	<i>14-15 points</i>
	The applicant gives the correct answer to several questions (≤ 33% of the correct answers).	The applicant 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 applicant 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 applicant demonstrates complete and solid knowledge of the training material in the amount that corresponds to the program of the discipline, correctly answers the test questions (90-100% of correct answers).
Design and	<i><9 points</i>	<i>10-19 points</i>	<i>20-39 points</i>	<i>40-45 points</i>

²Indicate the component of summative assessment

³Indicate the distribution of points and the criteria that determine the level of evaluation

presentation report of self-developed material	The Applicant has no integrity of understanding of the material on the discipline. The applicant did not perform independent processing of the material.	Despite the fact that the applicant completed the program of the discipline, but some components are missing or insufficiently developed, the student worked passively.	Knows the basic provisions that are crucial in performing independent work / individual tasks. Errors in the answers are not significant.	All requirements, tasks are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered.
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5.3. Formative assessment:

To assess current learning progress and understand areas for further improvement

№	Elements of formative assessment	Date
1	Oral feedback after studying topics 1–3, 6–7	3 weeks
2	Written feedback after studying topics 4-5	8 weeks
3	Written feedback from the teacher while working on laboratory-practical tasks	Within 1 week after execution
4	Oral feedback from the teacher after stories with a presentation on the subject of independent study of the discipline	During classes

6. LEARNING RESOURCES (LITERATURE)

The main sources

1. Law of Ukraine "On Veterinary Medicine" (Vidomosti Verkhovnoi Rady Ukrainy, 2006, № 14, p. 116).
2. Law of Ukraine "On Ensuring Sanitary and Epidemic Welfare of the Population". Available: <https://zakon.rada.gov.ua/laws/show/4004-12#Text>
3. Law of Ukraine "On Basic Principles and Requirements for Food Safety and Quality". Available: <https://zakon.rada.gov.ua/laws/show/771/97-%D0%B2%D1%80#Text>
4. Law of Ukraine "On Environmental Protection". The law came into force on July 1, 1991, except for Article 45, which came into force on January 1, 1995 (according to the Resolution of the Verkhovna Rada of the Ukrainian SSR of June 26, 1991 № 1268-XII, taking into account the amendments made by the Resolution of the Verkhovna Rada of Ukraine February 25, 1994)
5. Yatsenko IV, Busol L., Bogatko NM, Biben IA, Binkevich V. Ya., Kasyanenko OI, Гачак Ю.П. Hygiene of milk and dairy products: Electronic manual / http://192.162.132.48:5000/MyWeb/manual/vetmed/gigiena_moloka_i_molognux_prodyktiv/ykladachi/Ukladathi.htm.
6. Yarchuk BM, Verbytsky PI, Lytvyn VP, and others. General epizootology. Bila Tserkva, 2002 - 656 p.
7. VP Litvin, AF Yevtushenko and others. Workshop on general epizootology. К.: БІЛІ НАУ, 2003 - 175 c.
8. Hygiene of milk and dairy products: Textbook / Yatsenko IV, Bogatko NM, Bukalova NV, Fotina TI, Biben IA, Bergilevich OM, Binkevich VY, Gachak YR, Tkachuk SA, Kamyansky VV, Bondarevsky MM, Zazharskaya NM, Tsyvirko IL, Kasyanenko OI - Kharkiv: RVV KhDZVA, 2016. - 427 p.
9. Veterinary-sanitary examination with the basics of technology and standardization of livestock products / [Yakubchak OM, Khomenko VI, Melnichuk SD etc.]. - Kyiv: LLC "Bioprom", 2005. - 800 p.

10. Khomenko VI
Workshop on veterinary and sanitary examination with the basics of technology and standardization of livestock and crop products. - Kyiv: Vetinform, 1998. - 240 p.
11. Veterinary and sanitary examination, standardization and certification of products. In 2 volumes. Tom I. General examination, standardization and certification of products with the basics of technology and hygiene of production, canning and storage / [A. V. Aganin, IG Bereza, Yu. I. Boykov, etc.]. - C-II. : OOO КомСНАБ, 2005. - 440 c.
12. Veterinary and sanitary examination, standardization and certification of products. In 2 volumes. Volume II. Private veterinary and sanitary examination of livestock products / [P. V. Zhitenko, BK Ilyasov, VI Burkov and others]. - C-II. : OOO КомСНАБ, 2005. - 520 c.

Auxiliary

13. Mandatory minimum list of studies of raw materials, products of animal and plant origin, feed materials, feed, vitamin drugs, etc., which should be carried out in state laboratories of veterinary medicine and the results of which are issued a veterinary certificate (f-2). Approved by the order of the State Department of Veterinary Medicine of Ukraine dated 03.11.98 № 16 and registered in the Ministry of Justice of Ukraine on 30.11.98 for № 761/3201.
14. Rules of pre-slaughter veterinary inspection of animals and veterinary-sanitary examination of meat and meat products.
15. Rules of veterinary and sanitary examination of milk and dairy products and requirements for their implementation.
16. Rules of veterinary inspection and veterinary-sanitary examination of freshwater and marine fish, other aquatic organisms and products of their processing.
17. Rules of veterinary and sanitary examination of poultry eggs.
18. Karisheva AF Special epizootology. K. : "Higher education", 2002. - 701 p.
19. VP Litvin, L.V. Oliynyk, LE Kornienko, BM Yarchuk. Factor diseases of agricultural animals. White Church. 2002. - 368 p.
20. Bozhko GK Organization of anti-epizootic measures. - Kyiv. "Harvest" 1974. - 229 p.
21. R. Kravtsiv, J. Zlonkevych, B. Korzh, I. Oleksyuk Infectious diseases of cattle. Lviv, - 2001. - 394 p.
22. Konopatkin AA, Bakulov IA, Nuikin Ya.V. Epizootology and infectious diseases of farm animals. M., "Kolos", 1984. - 543 p.
23. Куриленко А.Л. Krupalnik VL Treatment of farm animals with infectious diseases. M. "Agropromizdat", 1986. - 191 p.
24. Zon GA Pathological autopsy of animals / GA Zon, MV Skrypka, LB Ivanovska. ; ed. HA. Zone. - Donetsk: PP Glazunov RO, 2009. - 189 p.

Methodical support

25. Kasyanenko OI State control of food products. Methodical instructions for conducting laboratory-practical and independent classes "System of state control of food products", Sumy, 2021, 24 p.
26. Kasyanenko OI Methodical instructions for carrying out laboratory-practical and independent classes "State control of food products of animal origin" Sumy, 2021, 24 p.
27. Litvinenko VM Vaccine prevention of bird diseases. Textbook, 2016.
28. Rebenko GI, Fotin AI Organization and carrying out of anti-epizootic measures, registration of documentation on them. Methodical recommendations for students of the Faculty of Veterinary Medicine, Sumy, 2008 - 28 p.

Other sources

Website of the State Veterinary and Phytosanitary Service: <http://www.vet.gov.ua/>
MEB website: <http://www.oie.int/>
Website of the State Food and Consumer Services <http://www.consumer.gov.ua>