

Ministry of Education and Science of Ukraine
Sumy National Agrarian University
Faculty of Veterinary Medicine

Syllabus of the educational component

OK 38. Production practice

Specialty	211 Veterinary Medicine
Educational program	"Veterinary Medicine"
Level of higher education	Second (Master's)

Developer:  Natalia GREBENIK

Reviewed, approved and ratified at a meeting of the Department of Obstetrics and Surgery	Protocol ____ № 11 ____ dated ____ 04.06.2026 ____ r. ____
	Head of the Department <u></u> Oksana SHKROMADA

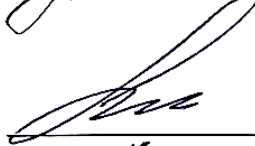
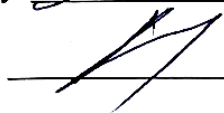
Agreed:

Educational program guarantor  Olexandr Chekan

Dean of the Faculty,

where the educational program is implemented  Lyudmila NAGORNA

Review of the work program (attached) provided by:

Methodologist of the Education Quality Department,

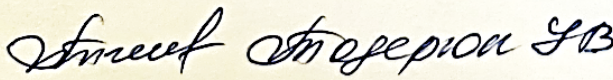
licensing and accreditation  (N. Baranik)

(signature)

(full name)

Registered in the electronic database: date: 17.07 2026.

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1. GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

1.	Full name of the educational component	OK 38. Production practice
2.	Status OK	Mandatory
3.	Educational program (<i>filled in for mandatory OKs</i>)	211 "Veterinary Medicine"
4.	Unit implementing OK	Faculty of Veterinary Medicine,
5.	NQF level	7th
6.	Semester of study	5th year m5_9 semester, 6th year m6_11 semester
7.	The scope of the educational component	9th semester: 10 ECTS 11th semester: 10 ECTS
8.	Total hours and their distribution	5th year m5_9th semester, 10 weeks (300 hours) 6th year m6_11 semester 10 weeks (300 hours)
9.	Language of instruction	Ukrainian
10.	Teacher/Educational Component Coordinator Contact information	Hrebenyk Nataliya Petrovna, Candidate of Veterinary Sciences , Associate Professor Audi . __41__ Monday from 9:00 a.m. to 3:00 p.m. mobile phone +380500571090, e- mail - greb.nata@ukr.net
11.	General description of the educational component	Completion of industrial practice is an important component of the educational process and is aimed at students mastering a system of professional skills and abilities, as well as mastering primary experience of professional activity and should contribute to the self-development of the student.
12.	Purpose of the educational component	The purpose of industrial practice at the Faculty of Veterinary Medicine is to acquire practical skills, form competencies, obtain professional skills and abilities, through deepening, supplementing and consolidating theoretical and practical knowledge and skills; consolidating and deepening theoretical knowledge and forming practical skills of applicants. Theoretical knowledge and skills will allow graduates of the Master's degree program to successfully solve practical problems of non-communicable pathology (regularities of the occurrence and spread of diseases , features of their course, diagnostics and treatment, different groups in the conditions of farms and clinics) during their professional activities. During the internship, applicants conduct diagnostics and treatment of obstetric diseases , breast pathologies, diseases of newborns and provide obstetric care , have skills in organizing and conducting artificial insemination of females, master methods of conducting obstetric medical examinations of animals on farms; master clinical methods of diagnosing pregnancy and determining the causes and extent of infertility, plan and carry out preventive measures for obstetric diseases , breast diseases and newborns. They possess modern methods of diagnosing surgical diseases and conducting their monitoring, making a diagnosis, prescribing rational methods of treatment and prevention, and have practical skills in providing surgical care to animals.

		Acquire practical skills in production conditions on issues of biological contamination by infectious agents animal diseases , methods and measures of general and specific prevention of infectious animal diseases ; measures to control and eliminate infectious animal diseases ; consolidate theoretical knowledge and acquired practical skills in carrying out preventive anti-epizootic measures and organizing health measures for infectious diseases of animals and poultry. They master modern methods of diagnosis, prevention and treatment of parasitic diseases, acquire skills in identifying pathogens, assessing the epizootic situation and conducting antiparasitic measures in farms of various types. Special attention is paid to the development of professional competence, the ability to make independent decisions and implement effective innovative approaches to the control of invasive diseases in order to ensure animal health and increase livestock productivity.
13	Prerequisites for studying OK, connection with other educational components of OP	The educational component is based on the following disciplines: " Obstetrics, Gynecology and Animal Reproduction Biotechnology ", " General and Special Surgery ", "Episootology and Infectious Diseases", "Veterinary Microbiology and Immunology", "Veterinary Virology", "Pathological Anatomy and Autopsy", "Parasitology and Invasive Diseases".
14	Logistics and technical support for the implementation of the OK	Requirements for the practice base: - the presence of structures that correspond to the educational programs that train specialists at a higher education institution; - the opportunity to provide interns with jobs during their internship; - granting the right to use the library, laboratories, technical and other documentation necessary for the implementation of the internship program. Specialized laboratories with a sufficient number of workplaces. Equipment: Microscopes (light, binocular), centrifuges, laboratory incubators for cultivating parasites, analyzers for studying biological samples. Tools: Scalpels, tweezers, scissors, pipettes (dispensers), loops for collecting samples, microscope slides (slides, coverslips). Educational materials: animals, research objects (premises, work surfaces, biological material, pathological material) Chemical reagents: stains for preparing smears (e.g., hematoxylin, eosin), solutions for fixing and preserving specimens, disinfectants.
15	Integrity Policy	If a candidate submits another candidate's work as their own, such work will be canceled and retaken. In the case of plagiarism, the corresponding assignment will be retaken. In case of using text borrowings without proper citation (academic plagiarism), the work will be canceled.
16	Keywords	Production practice, applicants, veterinary clinics, laboratories, farms
17	Link to the course in Moodle system	

LEARNING OUTCOMES BY EDUCATIONAL COMPONENT AND THEIR RELATIONSHIP WITH PROGRAM LEARNING OUTCOMES

Learning outcomes for OK: After studying the educational component, the student is expected to be able to	Program learning outcomes that the OC aims to achieve (indicate the number according to the numbering given in the OB profile) ³											How is RND ⁴ assessed?
	PRN 1	PRN 2	PRN 3	PRN 4	PRN 5	PRN 6	PRN 7	PRN 8	PRN 15	PRN 17	PRN 18	
VRN 1. Know and correctly use the terminology of veterinary medicine.	x											tests, oral interviews, practical tasks
DRN 2. Use information from domestic and foreign sources to develop diagnostic, treatment and business strategies.		x										tests, oral interviews, practical tasks
DRN 3. Determine the essence of physicochemical and biological processes that occur in the body animals in normal and pathological conditions. Use tools, special devices, instruments, laboratory equipment and other technical means to carry out the necessary manipulations			x	x								tests, oral interviews, practical tasks
DRN 4. Collect anamnestic data during registration and examination of animals, make decisions regarding the selection of effective methods of diagnosis, treatment and prevention of animal diseases .				x								tests, oral interviews, practical tasks
DRN 5. Interpret clinical manifestations of diseases, analyze the results of laboratory tests, establish a cause-and-effect relationship between them, and draw reasonable conclusions for diagnosis.					x							tests, oral interviews, practical tasks
DRN 6. Develop and justify quarantine and health measures, apply modern methods of diagnosis, therapy, prevention and treatment of animals with infectious etiology, taking into account biosafety and veterinary and sanitary requirements. Know the rules and requirements of biosafety , bioethics, and animal welfare.						x				x		tests, oral interviews, practical tasks
DRN 7. To monitor the causes of the spread of animal diseases of various etiologies and assess the risks of biological contamination of the environment with livestock waste, materials and veterinary products in				x				x		x		tests, oral interviews, practical tasks

order to develop biosecurity and prevention measures. To select, package, fix and ship samples of biological material for laboratory research.												
DRN 8. Formulate conclusions regarding the effectiveness of selected methods and means of restraint, animal feeding and treatment, prevention of infectious and non-infectious diseases , as well as production and technological processes at enterprises for keeping, breeding or operating animals different classes and types.							x					tests, oral interviews, practical tasks
DRN 9. Know the rules for storing various pharmaceuticals and biological products, the routes of their enteral or parenteral administration, understand the mechanism of their action, interaction and complex effect on the animal body. Formulate conclusions regarding the exploitation and treatment of animals of different classes and species, prevention of their infectious and non-infectious diseases .							x		x			tests, oral interviews, practical tasks
DRN 10. Prepare and defend an internship report in accordance with the requirements	x	x	x	x	x	x	x	x	x	x	x	Presentation report internship report

CONTENT OF THE EDUCATIONAL COMPONENT (PRODUCTION PRACTICE PROGRAM)

Topic. List of issues that will be considered within the scope of the practical training topic	Distribution within the overall time budget	Recommended popular literature
	daytime	
ORGANIZATION OF THE INDUSTRIAL INTERNSHIP: familiarization with the internship site, workplace orientation, internal rules and regulations, and completion of occupational health and safety, fire safety, and biosafety induction training.	20	
VETERINARY SANITARY INSPECTION OF ANIMAL SLAUGHTER PRODUCTS AND THE SAFETY AND QUALITY OF FOOD PRODUCTS. 1. Quality and safety control of meat and meat products at a slaughterhouse or meat processing plant. 2. Quality and safety control of milk and dairy products in the conditions of a dairy farm, milk reception point, and processing plant.	20	Textbooks, manuals: 3. Methodological support: 6, 7 Others sources: 8, 9, 10

3. Quality and safety control of products in the conditions of the state laboratory of veterinary and sanitary examination on the market, regional oblast and district laboratories, and research laboratories.		
EPIZOOTOLOGY AND INFECTIOUS DISEASES. 1. Study the epizootic state of the farm, participate in the preparation and implementation of a plan for anti-epizootic measures, organization and implementation of measures to eliminate infectious diseases; 2. Conduct a clinical examination of animals and an epizootological examination of the farm for the presence of infectious diseases using allergic, serological, bacteriological, hematological and other research methods; 3. Take an active part in conducting scheduled diagnostic tests for tuberculosis, leukemia, brucellosis and vaccinations carried out on the farm, referring to copies of the acts; 4. Participate in quarantine measures and isolation of sick animals, disposal of corpses, disinfection of livestock products and raw materials; 5. Participate in the disinfection and deratization of livestock premises, inventory and care items, draw up reports, and reflect their effectiveness in the report; 6. Prepare accompanying documents for blood samples, pathological material to the veterinary medicine laboratory, as well as reports for diagnostic tests and vaccinations; 7. Study the system of veterinary service for livestock, planning the work of veterinary medicine specialists, accounting, provision of medicines and veterinary goods, organization of the working day and workplace; 8. Become familiar with the responsibilities of the institution's veterinary doctor, planning anti-epizootic measures, processing applications for the purchase of equipment, medicines, biological products, reporting on the incidence and mortality of animals from infectious and non-infectious diseases, and processing veterinary certificates when transporting animals, products and raw materials of animal origin.	40	Textbooks, manuals: 2 - 4 Methodological support: 12-14 Others sources: 22, 23, 26
PARASITOLOGY AND INVASIVE DISEASES 1. During an epizootic examination of an enterprise (farm, clinic), study and describe the situation regarding parasitic diseases of animals through own observations and statistical data (outpatient journals, plans, reports, examinations); 2. Conduct a clinical examination of animals on the farm (clinic) for the presence of ectoparasites; 3. Take an active part in organizing and conducting deworming, chemoprophylaxis, and health activities at the enterprise; 4. Take an active part in the diagnosis of parasitic diseases of animals, familiarize yourself with the maintenance and preparation of state accounting documents and reporting; 5. Submit to the department micro- and macro-samplings of parasites, affected organs and tissues for the defense of reports.	40	Textbooks, manuals: 6, 7 Methodological support: 12-14 Others sources: 17, 19, 27, 28
INTERNAL DISEASES OF ANIMALS 1. To study the causes of mass diseases of farm animals and poultry, taking into account the type and age of animals, seasonality, climatic and economic conditions;	40	Textbooks, manuals: 8, 9, 10 Methodological

2. Conduct an examination of sick animals, establish etiological factors that caused the occurrence of internal diseases of animals, establish a diagnosis, treatment and preventive measures. 3. Conduct an analysis of the sanitary and hygienic conditions of keeping, feeding and operating animals, establish the main causes of internal non-communicable pathology and reduced productivity, taking into account the effects of stress factors and the body's natural resistance; 4. Pay special attention to the causes, diagnostics, and treatment methods for diseases of young animals, stomach and intestines , respiratory organs, metabolic disorders, and feed poisoning; 5. Participate in planning and conducting medical and preventive measures and animal health examinations; 6. Participate in outpatient appointments , learn the procedure and methods of clinical examination, and the most common methods of laboratory tests; 7. Learn to distinguish the norm from pathology in the functioning of the circulatory, respiratory, digestive, and urinary organs; 8. Master diet therapy, physiotherapy, application of heat and cold, use of antibiotics, tissue preparations; 9. Master the technique of subcutaneous, intradermal , intramuscular , intratracheal , intracavitary and intravenous injections.		support: 15 Others sources: 20
OBSTETRICS, GYNECOLOGY AND ANIMAL REPRODUCTION BIOTECHNOLOGY 1. Get acquainted with the primary veterinary records and analyze the state of the reproductive capacity of animals; 2. Learn methods for identifying females in the hunt and, under the guidance of an artificial insemination technician, perform animal insemination using various methods; 3. To master modern methods of diagnosis, treatment and prevention of sexual cycle disorders in productive and small domestic animals; 4. Participate in determining pregnancy in productive and small domestic animals, using anamnestic data, external, internal examination, paying special attention to the use of modern methods: ELISA, ultrasound, etc.; 5. Master the skills of conducting physiological childbirth and providing assistance in pathological childbirth; 6. Assess the condition of newborns and provide them with first aid in case of complicated births; 7. Participate in conducting clinical and gynecological research on breeding stock of livestock farms and the private sector; 8. Study the causes and learn methods of clinical and laboratory diagnosis of postpartum diseases in animals; 9. Treat animals with postpartum pathology using the latest methods, taking into account the knowledge obtained at the university and the recommendations of a veterinary doctor; 10. Master the methods of diagnosis, treatment and prevention of mammary gland diseases in females; 11. Study the types of animal infertility, their prevalence, causes and diagnostic methods and, under the guidance of a veterinary doctor, develop a plan of measures to eliminate and prevent animal infertility. 12. Master the methods of diagnosis, treatment and prevention of	40	Textbooks, manuals: 1, 5. Methodological support: 6, 7 Others sources: 11, 16, 17, 21

andrological pathology in males.		
OPERATIVE, GENERAL AND SPECIAL SURGERY 1. Master the basic methods of trapping and fixing cattle, small animals, horses, and poultry; 2. To study the causes and characteristics of injuries in productive (domestic) animals depending on the conditions of their maintenance, feeding, and exploitation; 3. Master the methods of local and general anesthesia; 4. Learn to sterilize instruments, dressings and sutures, prepare the operating field and the surgeon's hands before surgery; 5. Master the skills of treating wounds and applying bandages to individual parts of the animal's body; 6. Master the surgical methods of treating hernias, aseptic and purulent processes, performing cesarean section, castration of males and females, punctures of the abdominal cavity, scar, and books; 7. Provide postoperative treatment for animals; 8. Diagnose diseases of the limbs and eyes and treat sick animals with surgical pathology; 9. Take an active part in organizing and carrying out preventive measures for mass surgical diseases of animals (deformation of hoofs, surgical infection, trauma).	40	Textbooks, manuals: 1, 5. Methodological support: 6, 7 Others sources: 11, 16, 17, 21
PATHOLOGICAL ANATOMICAL DIAGNOSIS OF ANIMAL DISEASES AND FORENSIC VETERINARY MEDICINE 1. In production conditions (veterinary medicine clinics, farms, recycling plants, veterinary medicine laboratories, etc. enterprises), educational and scientific laboratories of the faculty, acquire skills in the technique of pathological autopsy of animal corpses, assessment of the pathological picture and making a postmortem diagnosis, and master the methods of making anatomical macro- and micro-preparations. 2. To master the features of diagnostic, scientific research and forensic veterinary autopsy of animal corpses; to be able to use tools for this purpose; 3. Develop methods for selecting pathological material for histological, bacteriological, virological and toxicological analysis; 4. Get acquainted with the organization of the autopsy site in diagnostic laboratories, poultry farms, pig farms, etc.; 5. Become familiar with the equipment of special transport, the organization and implementation of veterinary and sanitary requirements when transporting corpses to the autopsy site, to the disposal plant, and their disposal; 6. Acquire practical skills related to the sanitation of the autopsy site and methods of neutralization and disposal of cadaveric material: burial, incineration, biothermal treatment in Czech pits, disposal in farms and in a sanitary plant (using salvage equipment); 7. Get acquainted with the structure of the Czech pit or burial ground, conduct a veterinary and sanitary assessment of the condition of the burial ground (biothermal pit) and draw up a corresponding card; 8. Practically master the technical side of personal protection when working with corpses (overalls, hand treatment, etc.);	20	Textbooks, manuals: 1, 2, 3, 4, 5. Methodological support: 6, 7 Others sources: 8, 9, 10

9. Learn methods of protecting the environment from contamination by cadaveric material; 10. Develop methods for disinfecting autopsy sites and objects that may be infected with cadaveric material; 11. Under the guidance of the chief veterinary doctor, draw up a report (protocol) of the pathological autopsy (at least one according to the provided form) or a report of the forensic veterinary autopsy of the animal corpse; 12. Find out whether there have been any court cases in the farm (district) over the past three years related to the work of veterinary medicine workers and other reasons or violations of current legislation; 13. Select and record pathological material, in accordance with the requirements, and deliver it to the pathological museum of the department for further production of a dry or wet macroscopic preparation		
Total	300	

TEACHING AND LEARNING METHODS

DRN	Methods teaching (work to be carried out by the teacher <u>during classroom lessons</u> , consultations)	Number of hours	Methods teaching (which types educational activities has perform <u>student independently</u>)	Number of hours *
DRN 1.	Know and correctly use veterinary medicine terminology.	30	fixation (reading) of lecture material.	-
DRN 2.	Use information from domestic and foreign sources to develop diagnostic, treatment and business strategies.	30	Oral interviews, practical tasks	
DRN 3.	Determine the essence of physicochemical and biological processes that occur in the body animals in normal and pathological conditions. Use tools, special devices, instruments, laboratory equipment and other technical means to carry out the necessary manipulations	30	Tests, oral interviews, practical tasks	
DRN 4 .	Collect anamnestic data during registration and examination of animals, make decisions regarding the selection of effective methods of diagnosis, treatment and prevention of animal diseases .	30	Solving situational problems, mastering research methods, testing on the topics of works using the Moodle platform	
DRN 5 .	Interpret clinical manifestations of diseases, analyze laboratory test results, establish cause-and-effect relationships between them, and draw reasonable conclusions for diagnosis.	30		
DRN 6 .	Develop and justify quarantine and health measures, apply modern methods of diagnosis, therapy, prevention and treatment of animals with infectious etiology, taking into account biosafety and veterinary and sanitary requirements.	30	Solving situational problems, mastering research methods, testing on work topics using the Moodle platform	

	Know the rules and requirements of biosafety , bioethics, and animal welfare.			
DRN 7 .	To monitor the causes of the spread of animal diseases of various etiologies and assess the risks of biological contamination of the environment with livestock waste, materials and veterinary products in order to develop biosecurity and prevention measures. To select, package, fix and ship samples of biological material for laboratory research.	30	Solving situational problems, mastering research methods, testing on work topics using the Moodle platform	
DRN 8.	Formulate conclusions regarding the effectiveness of selected methods and means of restraint, animal feeding and treatment, prevention of infectious and non-infectious diseases , as well as production and technological processes at enterprises for keeping, breeding or operating animals different classes and types.	30	Solving situational problems, mastering research methods, testing on the topics of works using the Moodle platform	
DRN 9.	Know the rules for storing various pharmaceuticals and biological products, the routes of their enteral or parenteral administration, understand the mechanism of their action, interaction and complex effect on the animal body. Formulate conclusions regarding the exploitation and treatment of animals of different classes and species, and the prevention of their infectious and non-infectious diseases .	30	Tests, oral interviews, practical tasks	
DRN 10 .	Prepare and defend an internship report in accordance with the requirements	30	Presentation, oral interviews	

EVALUATION BY EDUCATIONAL COMPONENT
(SUMMATIVE ASSESSMENT)

No.	Summative assessment methods	Points/Weight in Overall Score	Date of compilation
1.	Preparation of documents for internship (internship diary) and briefing on occupational safety and health	10 points/10%	1st week
2.	Implementation of the internship program. Gathering material for writing a report on industrial internship.	30 points/30%	During the internship
3.	Writing and preparing a report on the internship. The student prepares a report based on the internship diary at the end of the internship period; The report summarizes the results of the work carried out in the disciplines "Veterinary Sanitary Inspection of Animal Slaughter Products and Food Safety and Quality", "Obstetrics, Gynecology and Animal Reproduction Biotechnology", "Surgical, General and Special Surgery", "Internal Diseases of Animals", "Parasitology and Invasive Diseases", "Epizootology and Infectious Diseases", "Pathoanatomical Diagnosis of Animal Diseases and Forensic Veterinary Medicine" obtained by applicants in the process of performing the tasks of industrial practice with a full analysis of the results obtained and conclusions; In the conclusions, formulate your own opinion on the fundamental positive or negative facts of the organization of production processes in the livestock sector, which have a direct impact on animal welfare.	35 points/35%	Last week
4.	Presentations, answers and joint reports discussion	25 points/25%	Upon completion of the internship
	Total	points	

EVALUATION BY THE EDUCATIONAL COMPONENT (ASSESSMENT CRITERIA)

Component	Unsatisfactorily	Satisfactorily	Good	Perfectly
	0 points	1-7 points	7-9 points	10 points
Preparation of documents for internship and briefing on occupational safety and health (internship diary)	The diary is missing and the presence of other control objects is not taken into account. An overall negative assessment is given for completing the internship.	The diary was drawn up in violation of the established requirements and does not contain the information provided for in it (in particular, regarding the content of the tasks performed).	The diary generally contains appropriate information, but is designed in violation of established requirements.	The diary is properly formatted and contains complete information about the intern's activities.
	0 points	1-15 points	16-26 points	27-30 points
Program execution practices.	higher education student systematically violated the established deadlines for completing assignments. The requirements for the internship program have not been met.	The higher education applicant did not adhere to the internship schedule. Most of the requirements were met, but some points of the internship content were missing or not sufficiently disclosed.	The higher education applicant generally adhered to the internship schedule, but allowed deviations from the recommendations, while fulfilling all the requirements of the internship program.	education applicant strictly adhered to the internship schedule. He conscientiously and on time fulfilled all the requirements of the internship program. He proposed his own solution to the assigned tasks, demonstrated activity, purposefulness, and creativity.
	0 points	1-15 points	16-29 points	30-35 points
Writing and preparing an internship report	The report does not meet the established requirements for content, does not contain proper information about the content, form, and organization of activities carried out during the internship, and contains gross errors in content.	The internship program was completed satisfactorily, its results are reflected in the report, which contains certain inaccuracies or does not contain important information, or there are other significant comments regarding the content of the report.	The report generally covers the necessary information provided by the requirements, contains a high positive assessment of the manager, but there are minor comments. From the content, it can be concluded that the internship program was completed in full and properly. in a way.	The report contains all the necessary information regarding the organization process and the results of the internship. The internship program was completed fully and properly.
	0 points	1-9 points	10-20 points	21-25 points
Report - presentation of the practice report	If there is a negative characteristic of the supervisor from the practice base or the supervisor from the department, a positive assessment of the practice is impossible. If the higher education applicant has not completed the practice program at least at one of the stages of the practice and received 0 points for the corresponding report, then the points received for other reports are not taken into account, and an overall negative assessment is given based on the results of the practice.	The higher education applicant does not provide satisfactory answers to the questions posed, is not familiar with the internship program or its individual parts, or makes gross errors that allow us to conclude that the internship program was not completed or was not properly completed, indicating the lack of real results of the internship and the acquired practical skills and abilities.	The higher education applicant demonstrates appropriate knowledge, is mostly oriented towards the content of the submitted report and the internship program, however, there are some inaccuracies in the answers to the questions.	The higher education applicant demonstrates appropriate knowledge, is fluent in the content of the submitted report and the internship program as a whole, thereby confirming its completion; provides correct and reasoned answers to all questions from the internship program.

EVALUATION BY THE EDUCATIONAL COMPONENT (FORMATIVE ASSESSMENT)

No.	Elements of normative assessment	Date
1	Verbal feedback from practice managers and education seekers.	During internship .
2	Review and discussion of the production report by the supervisor and the student practices.	After the production deadline.
3	Oral feedback on the internship report.	After defending the internship report.

EVALUATION BY EDUCATIONAL COMPONENT (ECTS RATING SCALE)

On a scale ECTS	On a 100- point scale	On a national scale	Definition*
AND	90-100	perfectly	<i>excellent</i> – excellent performance with a small number of inaccuracies
B	82-89	good	<i>very good</i> – above average with a few minor errors
C	75-81		<i>good</i> – overall, the work was done correctly with a small number of errors
D	69-74	satisfactorily	<i>satisfactory</i> – not bad, but with a significant number of shortcomings
E	60-68		<i>sufficient</i> – performance meets minimum criteria
FX	35-59	unsatisfactory with the possibility of reassembly	<i>unsatisfactory</i> – needs work before getting a positive rating
F	0-34	unsatisfactory with mandatory retake	<i>unsatisfactory</i> – serious further work with re-study of the course is necessary

EDUCATIONAL RESOURCES (LITERATURE)

1. Manuals and textbooks

1. Shkromada O.I., Chekan O.M., Fotina T.I. Grebenyk N.P. Musienko Yu.V., Stotsky O.G., Lazorenko A.B., Plyuta.L.V . Gynecological propaedeutics of female farm animals. Textbook. Sumy: SNAU, 2024. 185 p.
2. Anti-epizootic measures in animal husbandry : textbook / V.Yu. Kassich , O.I. Kasyanenko – Sumy: FOP Tsoma S.P., 2024. – 258 p. (Approved by the Academic Council of the SNAU, Protocol No. 6 dated “04” November 2022).
3. Veterinary public health care : textbook / O.I. Kasyanenko , – Odessa, Oldi +, 2024. – 144 p. bibliography 10. (Approved by the Academic Council of the Ukrainian National Academy of Sciences, Protocol No. 18 of “29” May 2023).
4. Veterinary technologies for the prevention of infectious animal diseases : textbook / V.Yu. Kassich , O.I. Kasyanenko , G.I. Rebenko , S.M. Kasyanenko – Sumy: FOP Tsoma S.P., 2024. – 280 p. bib. 10. (Approved by the Academic Council of the SNAU, Protocol No. 10 of “27” February 2024).
5. Kasyanenko I. O., Negreba Yu. V., Kasyanenko S. M. Helminthiasis of productive animals. Textbook. Sumy: SNAU 2025. –245 p. Approved by the Academic Council of Sumy National Agrarian University (Minutes No. 20 of May 26, 2025).
6. Rysovany V.I., Nagorna L.V., Negreba Y.V., Panasenko O.S. Veterinary technologies for the prevention of parasitic diseases in animals. Textbook . Sumy. 2025. – 262p. Approved by the Academic Council of Sumy National Agrarian University (Minutes No. 20 of May 26, 2025).

2. Methodological support

7. Musienko Y.V., Shkromada O.I., Grebenyk N.P., Chekan O.M., Lazorenko A.B., Stotsky O.G. (2021) Methodological instructions "Situational tasks" for conducting independent work for students of the 3rd-4th year of full-time study in the specialty 211 - veterinary medicine. Presented on 40 pages.
8. Kasyanenko O.I., Negreba Yu.V., Rysovany V.I., Mazur I.Ya. Laboratory diagnostics of animal parasitosis . Methodological guidelines for independent, individual work for students of 3,4,5 years of educational program 26 "Parasitology and invasive diseases of animals", full-time study, educational degree "master" 24p. Protocol No. 2 dated 11.11.2024.
9. Kasyanenko O.I. Animal health protection. Methodological guidelines for independent work for students of the Faculty of Veterinary Medicine, specialty 211 "Veterinary Medicine" with a master's degree / Sumy, 2022, 24 p.
10. Kasyanenko O.I., Negreba Yu.V., Rysovany V.I. Laboratory diagnostics of zoonotic diseases of productive animals. Methodological guidelines for independent, individual work for students of 3,4,5 courses of the educational program 211 "Veterinary Medicine" of the OPN "Veterinary Hygiene, Sanitation and Expertise", full-time study, educational degree "Master". 29 p. Protocol No. 2 dated 11.11.2024.
11. Internal diseases of animals. Methods of fixation and restraint of animals and basic methods of research of animals in internal diseases . Methodological instructions for laboratory and practical classes for 3rd year students in the direction of training 6.110101 - "veterinary medicine" / L.G.

Ulko, V.M. Musienko, O.I. Sklyar, O.V. Musienko, O.I. Shkromada , R.V. Dolbanosova , O.S. Kysterna . - Sumy, SNAU. - 2015. - 31 p.

3. Basic

12. Berezovsky A.V., Kharenko M.I. Physiology and pathology of the mammary gland in animals / textbook . K .: DIA, 2018. 476 p.
13. Hryshchuk G. P. Pathomorphological changes in the genital organs of cattle in symptomatic forms of infertility / monograph. Zhytomyr: ZhNAEU, 2018. 77 p.
14. Galat V.F., Berezovsky A.V., Prus M.P., Soroka N.M. Parasitology and invasive animal diseases. Practical course: Textbook . Kyiv: Higher Education, 2004. – 238 p.
15. Prykhodko Yu.O., Ponomar S.L., Mazannyi O.V., Nikiforova O.V., Antipov A.A., Goncharenko V.P. Parasitology and Invasive Animal Diseases Workshop (for independent work). Bila Tserkva.: OOO " Bila Tserkivdruk ". 2011. 312p.

4. Additional sources

16. Verbytskyi P.I., Dostoevsky. P.I. Handbook of veterinary medicine. Kyiv.: Urozhay, 2004. 1280 p.
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6. Software

- Computers with software for practical work
- Microsoft PowerPoint – Data Visualization MicrosoftPower BI – Data Analytics and Visualization
- Multimedia projector, flipchart and screen;
- Moodle distance learning and monitoring system

Review of the work program (syllabus) of industrial practice
OP 211 VETERINARY MEDICINE

Developed by the teachers of the department _____

Parameter by which the work program (syllabus) of the educational component is evaluated by the guarantor or a member of the project team	Yes	No	Comment
Learning outcomes by educational component (LE) is responsible .			
Learning outcomes by educational component (LE) They comply with the prescribed PRN (for mandatory OK).			
The learning outcomes for the educational component are: The ability to measure and evaluate their level of achievement.			

Member of the OP project team _____

(title)

(First name LAST name) (signature)

Parameter by which the work program (syllabus) of the educational component is evaluated by the teacher of the relevant department	Yes	No	Comment
General information about the educational component is sufficient.			
Learning outcomes by educational component (LE) is responsible .			
Learning outcomes by educational component (LE) make it possible to measure and assess the level of their achievement.			
Learning outcomes (LOs) relate to competencies students, not the content of the discipline (contain knowledge, skills, abilities, and not the topics of the discipline's curriculum).			
The content of the OC is formed in accordance with the structural and logical scheme.			
Learning activities (teaching and learning methods) enable students to achieve expected learning outcomes (ELOs).			
The educational component involves learning through research that is appropriate and sufficient for the appropriate level of higher education.			
The assessment strategy for the interdisciplinary component is in line with the University/Faculty policy .			
The provided assessment methods allow assessing the degree of achievement of learning outcomes by educational component.			
The student workload is adequate to the volume of the educational component.			
The recommended learning resources are sufficient to achieve the learning outcomes (LOEs).			
The literature is relevant.			
The list of learning resources contains the software products necessary to achieve the DRL .			

Reviewer (department lecturer) _____