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

Work program (syllabus) of the educational component

(required)

Specialty	211 " Veterinary Medicine
Educational program	**Veterinary ophthalmology**
Level of education	second (master's) level of higher education

Sumy - 2023

Author: _____ **Chekan O.N., Associate Professor**

Module syllabus agreed at the Obstetrics and Surgery Department meeting	Minutes No _14___ dated June_30__ 2023
	Head of Obstetrics and Surgery Department _____ **(Shkromada O.I.)**

Approved by:

Guarantor of the educational program _____ Ulko L.G.
(signature) (full name)

Dean of the faculty _____ Nechiporenko O.L.

Syllabus review (attached) is provided by : _____ (Sklyar O.I.)
_____ (Pluta L.V.)

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

Registered in electronic data base 19.07. 2023

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	General and special surgery			
2.	Faculty/Department	Faculty of Veterinary Medicine, Department of Obstetrics and Surgery			
3.	Type (compulsory or optional)	Obligatory			
4.	Program(s) to which module is attached (to be filled in for compulsory types)	211- Veterinary medicine			
5.	Module can be suggested for (to be filled in for optional types)				
6.	Level of the National Qualifications Framework	(2 master's) 7			
7.	Semester and duration of module	VI semester 1-18			
8.	ECTS credits number	VI semester: 3 credits total : 90 hours, aud . 10, incl. 8 hours lectures, 8 hours labs, Self-directed : 74 hours , credit			
9.	Total workload and time allotment	Directed study			Self-directed study
		Lectures	Practicals	Labs	
	VI semester	**8**		**8**	**74**
10.	Language of instruction	English			
11.	Module leader	Chekan Alexander Nikolaevich			
12.	Module leader contact information	oleksandr.chekan@snau.edu.ua			
13.	Module description	OP General and special surgery is part of the educational process related and with common goals to train highly qualified veterinarians . Provides mastery of methods of surgical intervention in various emergencies of the animal , prepares students to master the OP of clinical disciplines by studying the pathological processes of all body systems and the existence of the body as a whole. Assimilation of material from this OP forms the basis of surgical knowledge of the student and the future veterinarian, contributes to the professional development of the student.			
14.	Module aim	The purpose of the educational component OK at General and special surgery has the purpose of students' special competences on theoretical foundations, rules, methods and application techniques of anesthesia and perform surgical procedures in animals . It is a component of the learning process that ensures the achievement of goals, competencies and			

		significant results in the learning process.
15.	Module Dependencies (prerequisites, co-requisites, incompatible modules)	1. Normative discipline "General and special surgery" is based on knowledge of such disciplines as "Animal Anatomy", "Cytology, Histology, Embryology", "Chemistry", "Animal Physiology", "Pathological Physiology", "Veterinary Microbiology", "Clinical diagnosis and diagnostic imaging", "Pharmacology and pharmacotherapy", studied in previous semesters . 2. writing a master's thesis
16.	The policy of academic integrity	Assimilation of OK in compliance with academic integrity, plagiarism is prohibited. In case of systematic violation of these requirements, it is recommended to re-study the OK. In case of plagiarism in the performance of tasks - they are performed repeatedly
17	Link in Moodle	https://cdn.snau.edu.ua/moodle/course/view.php?id=4001

4. The structure of the discipline

Names of content modules and topics	Number of hours					
	Everything	including				
		l	n	lab	ind	Wed
1	2	3	4	5	6	7
Module 1. Structure and physiology of the organ of vision. Diseases of the body's protective devices.						
Content module 1. The structure and physiology of the organ of vision . Diseases of the protective devices of the organ of vision *(diseases of the eyelids, diseases of the lacrimal apparatus)* .						
Theme 1: The structure and physiology of the organ of vision.	6	-	-	2	-	4
Topic 2: Diseases of the body's protective devices (eyelid diseases, part 1.).	10	-	-	4	-	6
Topic 3: Diseases of the body's protective devices (eyelid diseases, part 2.).	6	-	-	2	-	4
Topic 4: Diseases of the body's protective devices (lacrimal apparatus diseases, part 1.).	10	-	-	4	-	6
Topic 5: Diseases of the visually impaired protective devices (diseases of the lacrimal apparatus, part 2.).	6	-	-	2	-	4
Topic 6: Diseases of the body's protective devices (conjunctival disease).	6	-	-	2	-	4
Theme 7: Diseases of the body's protective devices (diseases of retrobulbar fiber, periorbitis and sclera).	8	-	-	2	-	6

Topic 8: Diseases of the body's protective devices (eye surgery).	8	-	-	2	-	6
Together for Content Module 1	**60**	**-**	**-**	**20**	**-**	**40**
Module 2. Diseases of the light refractory medium of the visual organ and the vascular tract.						
Content module 2 . **Diseases of the light refractory medium of the organ of vision *(corneal disease, part 1.2, lens disease, vitreous disease and intraocular fluid circulation)* .**						
Topic 9. Diseases of the light refractory medium of the organ of vision (corneal diseases, part 1.).	10	-	-	4	-	6
Topic 10. Illnesses of the Refractory Environments of the Organ of Vision (Corneal Disease, Part 2.).	10	-	-	4	-	6
Topic 11. Diseases of light refractory media of the organ of vision (lens diseases).	10	-	-	4	-	6
Topic 12. Diseases of light refractory organs of the organ of vision (diseases of the vitreous body and circulation of intraocular fluid).	8	-	-	2	-	6
Topic 13. Diseases of the vascular tract (Part 1.).	8	-	-	2	-	6
Topic 14. Diseases of the vascular tract (Part 2.).	8	-	-	2	-	6
Topic 15. Diseases of the vascular tract (Part 3.) .	6	-	-	2	-	4
Together for content module 2	**60**	**-**	**-**	**20**	**-**	**40**
Total hours	**12 0**	**-**	**-**	**4 0**	**-**	**8 0**

6. Laboratory topics

No s / n	The name of the topic	Number hours
1	**Theme 1: The structure and physiology of the organ of vision.** 1. You are the doctrine of eye structure and accessories. 2. Study of the physiology of the organ of vision. 3. Determination of accommodation and refraction and its anomalies: emetropia, hypermetropia, astigmatism, anisometry.	2
2	**Topic 2: Diseases of the body's protective devices (eyelid diseases, part 1.).** 1. The study of diseases of the eyelids. 2. Study of wounds of the eyelids and methods of treatment. 3. Study of the twists and turns of the eyelids.	4
3	**Topic 3: Diseases of the body's protective devices (eyelid diseases, part 2.).** 1. Study the classification and forms of blepharitis. 2. Study of treatment for blepharitis.	2
4	**Topic 4: Diseases of the body's protective devices (lacrimal apparatus diseases, part 1.).** 1. The study of the functional morphology of the lacrimal apparatus. 2. Determination of diseases of the lacrimal apparatus . 3. Study of the methods of study of the lacrimal apparatus.	4
5	**Topic 5: Diseases of the visually impaired protective devices (diseases of the lacrimal apparatus, part 2.).** 1. The study of clinical forms of inflammation of the lacrimal gland and methods of treatment. 2. Study of clinical forms of lacrimal laceration and methods of treatment. 3. The study of clinical forms of obstruction and narrowing of the lacrimal and canal treatment methods.	2
6	**Topic 6: Diseases of the body's protective devices (conjunctival disease).** 1. The study of clinical forms of conjunctival inflammation and diagnostic methods. 2. The study of treatment methods for conjunctivitis.	2

7	**Theme 7: Diseases of the body's protective devices (diseases of retrobulbar fiber, periorbitis and sclera).** 1. Study of clinical forms of diseases of retrobulbar fiber, peri-orbits and sclera and methods of diagnosis. 2. Study of therapies in diseases of retrobulbar fiber, peri-orbitis and sclera .	2
8	**Topic 8. Diseases of the body's protective devices (operations in the area of the eye).** 1. The study of eye evisceration. 2. Study of enucleation of the eye. 3. Study of exenteration of the ocular fossa.	2
9	**Topic 9. Diseases of the light refractory medium of the organ of vision (corneal diseases, part 1.).** 1. Study of the general classification of corneal diseases . 2. Study of traumatic corneal damage and methods of treatment . 3. Study of dystrophic diseases of the cornea and methods of treatment .	4
10	**Topic 10. Diseases of the light refractory medium of the organ of vision (corneal diseases, part 2.).** 1. The study of the inflammatory processes of the cornea - keratitis and their diagnosis . 2. The study of therapies for keratitis . 3. Study of corneal ulcers and treatments.	4
11	**Topic 11. Diseases of light refractory media of the organ of vision (lens diseases).** 1. Study of acquired and congenital lens anomalies and diagnostic methods . 2. The study of cataracts and methods of treatment . 3. The study of surgical methods of treatment in the pathology of the lens.	4
12	**Topic 12. Diseases of light refractory organs of the organ of vision (diseases of the vitreous body and circulation of intraocular fluid).** 1. Study of forms and types of turbidity of vitreous body. 2. Study of forms and types of pathology of intraocular fluid circulation . 3. Study of methods of conservative and surgical treatment in pathology of intraocular fluid circulation .	2
thirteen	**Topic 13. Diseases of the vascular tract (Part 1.).** 1. The study of the functional morphology of the vascular tract. 2. Study of the classification of inflammations of the vascular tract (uveitis). 3. Study of the causes of the development of various forms of uveitis in animals.	2
14	**Topic 14. Diseases of the vascular tract (Part 2.).** 1. Study of forms and types of anterior uveitis (irytha, cycles, iridocyclites) . 2. Study of methods of diagnosis of anterior uveitis . 3 Study of the methods of treatment of anterior uveitis .	2
15	**Topic 15. Diseases of the vascular tract (Part 3.).** 1. Study of forms and types of middle and posterior uveitis (chorioiditis, retinitis) . 2. Study of methods of diagnosis of middle and posterior uveitis . 3 Study of the treatment of middle and posterior uveitis .	2
Together:		**4 0**

7. Independent work

No s / n	The name of the topic	Number hours
1	**Theme 1: The structure and physiology of the organ of vision.**	4
2	**Topic 2: Diseases of the body's protective devices (eyelid diseases, part 1.).**	6
3	**Topic 3: Diseases of the body's protective devices (eyelid diseases, part 2.).**	4
4	**Theme 4: Diseases of the visually-impaired protective devices (lacrimal apparatus diseases, part 1.)**	6
5	**Topic 5: Diseases of the visually impaired protective devices (diseases of the lacrimal apparatus, part 2.).**	4
6	**Topic 6: Diseases of the body's protective devices (conjunctival disease).**	4
7	**Theme 7: Diseases of the body's protective devices (diseases of retrobulbar fiber, periorbitis and sclera).**	6

8	**Topic 8. Diseases of the body's protective devices (operations in the area of the eye).**	6
9	**Topic 9. Diseases of the light refractory medium of the organ of vision (corneal diseases, part 1.).**	6
10	**Topic 10. Diseases of the light refractory medium of the organ of vision (corneal diseases, part 2.).**	6
11	**Topic 11. Diseases of light refractory media of the organ of vision (lens diseases).**	6
12	**Topic 12. Diseases of light refractory organs of the organ of vision (diseases of the vitreous body and circulation of intraocular fluid).**	6
thirteen	**Topic 13. Diseases of the vascular tract (Part 1.).**	6
14	**Topic 14. Diseases of the vascular tract (Part 2.).**	6
15	**Topic 15. Diseases of the vascular tract (Part 3.).**	4
Together:		**8 0**

8. Learning methods

1. Learning methods for the source of knowledge:

1.1. ***Verbal*** : story, explanation, lecture, work with a book (reading, writing, summarizing, making supporting notes, etc.).

1.2. ***Visual*** : demonstration of training videos and performing live surgery.

1.3. ***Practical*** : practical work (preparation of tools, operating field and hands of the surgeon, performance of operative interventions, imposing of bandages), production-practical methods (field trips).

2. Methods of learning by the nature of the logic of knowledge.

2.1. ***Analytical*** : the study of surgical interventions in individual organs and areas of the body of animals.

2.2. ***Synthesis methods:*** analysis of anamnesis, clinical study of a sick animal.

2.3. ***Inductive method:*** studying the topography of organs, determining optimal operative access and performing prompt admission.

3. Methods of teaching by the nature and level of students' independent mental activity.

3.1. ***Partial search (heuristic):*** on the job of the teacher search for data on the Internet, literature sources.

3.2. ***Reproductive*** : the application of theoretical material studied in practice.

3.3. ***Explanatory:*** Explain unclear demo questions, tables, diagrams, photos, and video. Demonstration of operational methods on live animals.

4. Active teaching methods - use of technical training tools (multimedia lectures), occupation on the production, self-assessment of knowledge, imitation training methods - performance of situational tasks of use of educational and control tests, use of basic lecture notes.

5. Interactive learning technologies - use of multimedia technologies, viewing of video material by topic during lectures and practical classes, use of case-study method (analysis of specific production situations), dialog learning, cooperation of students.

9. Control methods

1. Rating control over a 100-point ECTS rating scale
2. Conducting intermediate control during the semester (intermediate certification)
3. Multicriteria assessment of students' current work:
- the level of knowledge demonstrated in practical and laboratory classes;
- activity during the discussion of the issues raised in the class;
- self-study of the topic as a whole or individual issues;
- test results;
- written tasks in the course of control work;
- production situations.

4. Direct consideration in the final assessment of the student's fulfillment of a specific individual task:
- course work (project);
- educational and research work;
- educational and practical research with presentation of results and more.

13. Distribution of points that students receive

Ongoing testing and independent work								Together for modules and CPC	Attestation	Examination	Sum
Content module 1 35 points				Content module 2 35 points			CRC				
T1	T2	T3	T4	T5	T6	T7					
10	10	10	5	10	10	15	15	85 (70 + 15)	15	-	100
10	10	5	5	10	10	15					
10	10	5	5	10	10	15					

Rating scale: national and ECTS

Sum of points for all kinds of educational activity	ECTS grade	Score on a national scale	
		for exam, course project (work), practice	to offset
90 - 100	**AND**	perfectly	counted
82-89	**IN**	fine	
74-81	**WITH**		
64-73	**D**	satisfactorily	
60-63	**IS**		
35-59	**FX**	unsatisfactory with the possibility of reassembly	not reassigned
0-34	**F**	unsatisfactory with the compulsory re-study of the discipline	not included in the compulsory re-study of the discipline