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ФИО: Ястребов Олег Алегена State Autonomous Educational Institution of Higher Education Дата подписания: 21.05.2025 12:31:06 PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA **RUDN** University

Agrarian and Technological Institute

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Veterinary Ophthalmology

course title

Recommended by the Didactic Council for the Education Field of:

36.05.01 Veterinary

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

Veterinary

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The aim of mastering the course "**Veterinary Ophthalmology**" is for students to master theoretical knowledge, practical skills and skills in the diagnosis, prevention and treatment of pathology of the visual analyzer, using knowledge of the basics of biomedical and clinical courses, taking into account the laws of the course of pathology of organs and body systems as a whole, to analyze the patterns of functioning of organs and systems in ophthalmic diseases and pathological processes.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The implementation of the course "**Veterinary Ophthalmology**" is aimed at creating the following competencies (parts of competencies) for students:

Table 2.1. List of competencies formed by students during the development of the course (results of the development of the course)

Competence code	Competence descriptor	Competence formation indicators (within this course)
	Ability to plan activities for the	PC-3.1 Systematizes information about
	differential diagnosis of	the symptoms/syndromes of the disease in
	diseases in a patient.	the patient, forming a set of preliminary
		diagnoses for their further confirmation or
		refutation.
		PC-3.2 Uses an existing or creates a
PC-3		unique algorithm for differential
		diagnosis, taking into account the
		capabilities of the healthcare facility.
		PC-3.3 Uses information obtained from
		diagnostic procedures to establish a final
		diagnosis (diagnoses) and to adjust
		previously established diagnoses if
	Ability and madinass to mlan	necessary.
	Ability and readiness to plan	PC-5.2 Selects the necessary and
	and conduct the necessary types of instrumental diagnostics of	sufficient set of instrumental diagnostic methods to solve the assigned task.
PC-5	the patient's condition.	PC-5.3 Is able to conduct instrumental
10-5	the patient's condition.	diagnostics of animal diseases.
		PC-5.4 Interprets the diagnostic results
		and uses them to solve the assigned task.
	Ability to use surgical methods	PC-9.1 Selects the necessary method of
PC-9	during the prevention,	surgical intervention, including, if
	diagnosis, and treatment of	necessary, methods of anesthesia.
	animal diseases.	, ,

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course "**Veterinary Ophthalmology**" belongs to the part formed by the participants of educational relations of the block B1 of the Educational Program of Higher Education.

As part of the Educational Program of Higher Education, students also master other courses and /or practices that contribute to achieving the planned results of mastering the course "Veterinary Ophthalmology".

Table 3.1. List of Higher Education Program components courses that contribute to expected learning outcomes

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
	Ability to plan activities	Obstetrics, Gynecology	Behavioral
	for the differential	and Andrology /	Medicine /
	diagnosis of diseases in a	Акушерство,	Поведенческая
	patient.	гинекология и андрология	медицина
		андрология	Animal Dentistry /
		Internal Diseases /	Стоматология
		Внутренние	животных
		незаразные болезни	
		1	Variable component
		General Surgery /	/ Вариативная
		Общая хирургия	компонента
		Private Surgery /	Clinical Industrial
		Частная ветеринарная	Practice /
		хирургия	Клиническая
			производственная
PC-3		Parasitology and	практика
		Invasive Diseases /	
		Паразитология и инвазионные болезни	Clinical Internship
			Industrial Research
		Dermatology /	Practice /
		Дерматология	Производственно-
			исследовательская
		Cardiology /	практика
		Кардиология	
			Preparation for
		Endocrinology /	Passing and Passing
		Эндокринология	the State Exam /
			Подготовка к
		Oncology / Онкология	сдаче и сдача
		Neurology /	государственного экзамена

		Hannayarva	Duamanina
		Неврология	Preparing and
		Nambuolo er	Passing the State
		Nephrology /	Ехат / Подготовка
	Нефрология		и сдача
		Anasthasialagy	государственного
		Anesthesiology, Resuscitation And	экзамена
			D : D ::
		Intensive Therapy /	Design, Preparation
		Анестезиология,	for Defense
		реанимация и	
		интенсивная терапия	Defense of the
			Graduation Thesis /
		Reconstructive Surgery	Оформление,
		/ Реконструктивно-	подготовка к
		восстановительная	процедуре защиты
		хирургия	и защита
			выпускной
			квалификационной
			работы
	Ability and readiness to	Instrumental	Animal Dentistry /
	plan and conduct the	Diagnostic Methods	Стоматология
	necessary types of	with Elements of	животных
	instrumental diagnostics	Artificial Inteligence	
	of the patient's condition.	Technology /	Variable component
		Инструментальные	/ Вариативная
		методы диагностики с	компонента
		элементами	
		технологии	Clinical Industrial
		искусственного	Practice /
		интеллекта	Клиническая
			производственная
		Dermatology /	практика
		Дерматология	
PC-5			Clinical Internship
		Cardiology /	T 1 / 1 D
		Кардиология	Industrial Research
		T 1 1 1 1	Practice /
		Endocrinology /	Производственно-
		Эндокринология	исследовательская
		0 1 /0	практика
		Oncology / Онкология	Dranaration for
		Nourology /	Preparation for
		Neurology /	Passing and Passing
		Неврология	the State Exam /
		Nanhralagy /	Подготовка к
		Nephrology /	сдаче и сдача
		Нефрология	государственного
		Reconstructive Surgery	экзамена
		Reconstructive Surgery	

		Реконструктивновосстановительная хирургия	Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена Design, Preparation for Defense Procedure and Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной
PC-9	Ability to use surgical methods during the prevention, diagnosis, and treatment of animal diseases.	_	

Prepari	ng and
_	the State
	Подготовка
И	сдача
госуда	оственного
экзаме	
Design,	Preparation
for	Defense
Proced	are and
Defense	e of the
Gradua	tion Thesis /
Оформ	ление,
подгот	овка к
процед	уре защиты
И	защита
выпуск	ной
квалиф	икационной
работы	

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the course "Veterinary Ophthalmology" is 2 credits.

Table 4.1. Types of academic activities during the period of the HE program mastering for **full-time** study

Types of academic activities		HOURS		Seme	esters	
			9	-	-	•
Contact academic hours		51	51	-	-	-
including						
Lectures		17	17	-	1	ı
Lab work		34	34	-	-	-
Seminars (workshops/tutorials)		-	-	-	ı	ı
Self-study		1	1	-	1	ı
Evaluation and assessment (exam/pass/fail grading)		20	20	-	ı	ı
Course workload academic hours_		72	72	-	-	-
Course workload	credits	2	2	-	-	-

5. COURSE CONTENTS

Table 5.1 Content of the course (module) by type of academic work

Modules	Content of the modules (topics)	Types of academic activities
Module 1. General	Topic 1.1 General concepts of operative	Lectures, Lab
concepts and methods of	surgery, (surgical clinic, surgical	work.

operative surgery.	manipulations, surgical operation).		
	Topic 1.2 Fixation of animals,	Lectures, Lab	
	anesthesia, local anesthesia.	work.	
	Topic 1.3 Surgical instruments.	Lectures, Lab work.	
	Topic 1.4 Methods of asepsis and	Lectures, Lab	
	antiseptics in operative surgery.	work.	
	Topic 1.5. Separation of tissues.	Lectures, Lab	
	Bleeding, types, methods of stopping.	work.	
	Topic 1.6. General principles of	Lectures, Lab	
	surgical suture application.	work.	
	Topic 1.7. Desmurgy.	Lectures, Lab work.	
Module 2. Methods and features of surgical	Topic 2.1. Operational access.	Lectures, Lab work.	
operations.	Topic 2.2. Operational techniques, types, methods, features.	Lectures, Lab work.	
	Topic 2.3. Features of oncological operations. Principles of ablasty.	Lectures, Lab work.	
	Topic 2.4. Connection of soft tissues. The final stage of the operation.	Lectures, Lab	
	Topic 2.5. The connection of dense	Lectures, Lab	
	fabrics. Osteosynthesis.	work.	

6. COURSE EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Material and technical support of the course

Classroom for Academic Activity Type	Equipping the classroom	Specialized educational/laboratory equipment, software and materials for the development of the course (if necessary)
Lecture	An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations.	- Ophthalmological instruments.
Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	- Ophthalmological instruments.

Self-studies	An auditorium for independent work	-
	of students (can be used for seminars	
	and	
	consultations), equipped with a set of	
	specialized furniture and computers	
	with access to an electronic	
	information and educational	
	environment.	

7. RESOURCES RECOMMENDED FOR COURSE STUDIES

Main readings:

- Shakurov M.Sh. Fundamentals of general veterinary surgery [Electronic resource]
 Textbook / M.Sh. Shakurov. 2nd ed., erased. St. Petersburg: Publishing House "Lan", 2016. 252 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465067&idb=0
- 2. Petrakov K.A. Salenko P.T. Paninsky S.M. Operative surgery with animal anatomy. -2nd ed. Moscow: KolosS, 2013. 453 p.
- 3. Semenov B. S., Videnin V. N., Nechaev A. Yu., Kuznetsova T. S., Guseva V. A. Operative surgery in animals 2021.-704 p. https://e.lanbook.com/book/162365

Additional Readings:

- Videnin V.N. Surgical treatment of abdominal wall defects in animals [Electronic resource]: Textbook / V.N. Videnin, B.S. Semenov. St. Petersburg: Publishing house "Lan", 2015. 224 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465109&idb=0
- 2. Local anesthesia and methods of novocaine therapy of animals [Electronic resource]: Educational and methodical manual / A.F. Sapozhnikov [et al.]. St. Petersburg: Publishing House "Lan", 2011. 176 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465268&idb=0
- 3. Semenov B.S. Practicum on operative surgery with the basics of topographic anatomy of domestic animals [Electronic resource] / B.S. Semenov, V.A. Ermolaev, S.V. Timofeev. M.: KolosS, 2013. 263 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=475874&idb=0

Internet sources

- 1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:
- RUDN Electronic Library System (RUDN ELS) http://lib.rudn.ru/MegaPro/Web
 - EL "University Library Online" http://www.biblioclub.ru
 - EL "Yurayt" http://www.biblio-online.ru
 - EL "Student Consultant" www.studentlibrary.ru
 - EL "Lan" http://e.lanbook.com/
 - EL "Trinity Bridge"

2. Databases and search engines:

- electronic foundation of legal and normative-technical documentation http://docs.cntd.ru/
 - Yandex search engine https://www.yandex.ru/
 - Google search engine https://www.google.ru/
 - Scopus abstract database http://www.elsevierscience.ru/products/scopus/

Educational and methodological materials for independent work of students during the development of the course/ module*:

- 1. A course of lectures on the course "Veterinary Ophthalmology".
- 2. Laboratory workshop on the course "Veterinary Ophthalmology".
- * The training toolkit and guidelines for the internship are placed on the internship page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL AS COURSE RESULTS

The assessment toolkit and the grading system* to evaluate the level of competences (competences in part) formation as the course results are specified in the Appendix to the course syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVELOPER:		
Professor of the Department of Veterinary Medicine		Vatnikov Yu.A.
Position, Basic curriculum	Signature	Full name.
HEAD OF EDUCATIONAL DEPARTMENT:		
Department of Veterinary Medicine		Vatnikov Yu.A.
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