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ФИО: Ястребов Олег Александрови 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
Endocrinology
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

1. GOALS AND OBJECTIVES OF THE COURSE

The aim of the mastering the course "**Endocrinology**" is to study the main endocrine diseases of animals, methods of their modern prevention, diagnosis and therapy.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The implementation of the course "**Endocrinology**" 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 discipline)

Competence code	Competence descriptor	Indicators of competence accomplishment (within the discipline)
PC-3	Ability to plan differential diagnosis activities for a patient.	PC-3.1 Systematizes information on symptoms/syndromes of the disease in the patient, forming a set of preliminary diagnoses for their further confirmation or refutation. PC-3.2 Uses an existing or develops a unique algorithm for differential diagnosis, taking into account the capabilities of the medical institution. PC-3.3 Uses the information obtained
		from diagnostic procedures to establish a final diagnosis (or diagnoses) and to adjust the established diagnoses if necessary.
PC-5	Ability and readiness to plan and conduct necessary types of instrumental diagnostics of the patient's condition.	PC-5.2 Selects the necessary and sufficient set of instrumental diagnostic methods to solve the assigned task. PC-5.3 Is able to perform instrumental diagnostics of animal diseases. PC-5.4 Interprets diagnostic results and uses them to solve the assigned task.
PC-7	Ability to choose or develop a treatment plan for a patient based on the established diagnosis.	PC-7.1 Is able to select medications necessary for treating animals, guided by evidence-based medicine principles and considering the combined pharmacological effects of all prescribed drugs on the organism. PC-7.2 Is able to choose the optimal method of drug administration, calculate the dose and frequency of administration, and determine the duration of each drug course.

PC-7.3 Is able to select non-drug,
including physiotherapeutic, methods of
influence on the organism of the sick
animal, which contribute to its recovery,
and apply them in treatment.
PC-7.4 Is able to develop a patient
treatment plan, select criteria for
monitoring its effectiveness, and
determine alternative treatment plans if
the initially chosen treatment methods are
ineffective.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course "**Endocrinology**" 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 disciplines and /or practices that contribute to achieving the planned results of mastering the course "**Endocrinology**".

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

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
PC-3	Ability to plan	Obstetrics, Gynecology	Oncology /
	differential diagnosis	and Andrology /	Онкология
	activities for a patient.	Акушерство,	
		гинекология и	Neurology /
		андрология	Неврология
		Internal Diseases /	Nephrology /
		Внутренние	Нефрология
		незаразные болезни	
		General Surgery /	Anesthesiology, Resuscitation And
		Общая хирургия	Intensive Therapy / Анестезиология,
		Private Surgery /	реанимация и
		Частная ветеринарная	интенсивная
		хирургия	терапия
		101	•
		Parasitology and	Reconstructive
		Invasive Diseases /	Surgery /
		Паразитология и	Реконструктивно-
			восстановительная

инвазионные болезни	хирургия
Dermatology / Дерматология Сardiology / Кардиология	Veterinary Ophthalmology / Ветеринарная офтальмология Веhavioral Medicine / Поведенческая медицина
	Animal Dentistry / Стоматология животных
	Variable component / Вариативная компонента
	Clinical Industrial Practice / Клиническая производственная практика
	Clinical Internship
	Industrial Research Practice / Производственно-исследовательская практика
	Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена
	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
			работы
PC-5	Ability and readiness	Instrumental Diagnostic	Oncology /
	to plan and conduct	Methods with Elements	Онкология
	necessary types of	of Artificial Inteligence	
	instrumental	Technology /	Neurology /
	diagnostics of the	Инструментальные	Неврология
	_	* *	певрология
	patient's condition.	методы диагностики с	Nephrology /
		элементами	Нефрология
		технологии	пефрология
		искусственного	Reconstructive
		интеллекта	
			Surgery /
		Dermatology /	Реконструктивно-
		Дерматология	восстановительная
			хирургия
		Cardiology /	**
		Кардиология	Veterinary
			Ophthalmology /
			Ветеринарная
			офтальмология
			Animal Dentistry /
			Стоматология
			животных
			Variable component /
			Вариативная
			компонента
			Clinical Industrial
			Practice /
			Клиническая
			производственная
			практика
			Clinical Internship
			Industrial Daggarah
			Industrial Research
			Practice /
			Производственно-
			исследовательская

			практика
			Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена
			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-7	Ability to choose or develop a treatment plan for a patient	Pharmacology /	работы Oncology Онкология
	based on the established diagnosis.	фармакология	Neurology / Неврология
		Toxicology Токсикология Dermatology	Nephrology / Нефрология
		Дерматология Cardiology / Кардиология	Anesthesiology, Resuscitation And Intensive Therapy / Анестезиология, реанимация и интенсивная терапия
			Behavioral Medicine / Поведенческая медицина
			Variable component /

Вариативная
компонента
Rommonemu
Clinical Industrial
Practice /
Клиническая
производственная
производственная
практика
Clinical Internship
Chinical internship
Industrial Research
Practice /
Производственно-
исследовательская
практика
Preparation for
Passing and Passing
the State Exam /
Подготовка к сдаче
и сдача
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защита выпускной
квалификационной
работы

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the course "**Endocrinology**" is 2 credits.

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

Type of academic activities		Total academic	Semesters/training modules			
		hours	9	-	-	-
Contact academic hours		51	51	ı	-	-
including						
Lectures		17	17	ı	-	-
Lab work	Lab work		34	-	_	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		1	1	ı	_	_
Evaluation and assessment (exam/pass/fail		20	20	-	-	-
grading)						
academic		72	72	-	-	-
Course workload hours_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. Introduction to endocrinology.	Topic 1.1. General characteristics of the endocrine glands. Hormones and their role in the body.	′
	Topic 1.2. Diagnosis of endocrine diseases. Laboratory and instrumental methods of diagnostics of endocrine diseases.	, and the second
Module 2. Private endocrinology.	Topic 2.1. Diseases of the pancreatic insular apparatus	Lectures, Lab work.
	Topic 2.2. Diseases of the hypothalamic pituitary system. Diseases of the adrenal glands.	Lectures, Lab work.
	Topic 2.3. Diseases of the parathyroid gland. Reproductive endocrinology.	Lectures, Lab work.

6. COURSE EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Material and technical support of the discipline

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

- 1. Clinical diagnostics of internal non-infectious animal diseases / B.V. Usha, I.M. Belyakov, R.P. Pushkarev. Electronic text data. St. Petersburg: Quadro, 2020. 487 p.: ill. (Textbooks and manuals for higher educational institutions). ISBN 978-5-906371-03-4
- Infectious diseases of animals: textbook / A.A. Sidorchuk, N.A. Maksimov, V.L. Kupalnik [et al.]; edited by A.A. Sidorchuk. 2nd ed. Moscow: INFRA-M, 2020. 954 p.: ill. (Higher education. Specialty). ISBN 978-5-16-010419-5

Additional Readings:

1. Infectious diseases of animals : a textbook for universities / Edited by A.A.Kudryashov, A.V.Svyatkovsky. - St. Petersburg: Lan, 2007. - 608 p. : ill. - (Veterinary medicine). - ISBN 978-5-8114-0710-1

Clinical diagnostics of internal non-infectious animal diseases / B.V. Usha, I.M. Belyakov, R.P. Pushkarev. - Electronic text data. - St. Petersburg: Quadro, 2020. - 487 p.: ill. - (Textbooks and manuals for higher educational institutions). - ISBN 978-5-906371-03-4

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 discipline/ module*:

- 1. A course of lectures on the course "Endocrinology".
- 2. Laboratory workshop on the course "**Endocrinology**".
- * 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.

 \ast 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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