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Дата подписания: 22.05.2024 16:42:41 PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA **RUDN University**

Agrarian and Technological Institute

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

COURSE SYLLABUS

Parasitology and Invasive Diseases

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. GOALS AND OBJECTIVES OF THE COURSE

The aim of studying the course "Parasitology and invasive diseases" is to provide students with theoretical and practical knowledge on issues related to parasitic diseases of animals (helminthiasis, protozoa, arachnoses and entomoses) necessary for the formation of comprehensively trained veterinarians.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The implementation of the course "**Parasitology and invasive diseases**" 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 measures for differential diagnosis of diseases in a patient.	PC-3.1 Systematizes information about a patient's symptoms/syndromes, forms a set of preliminary diagnoses for further confirmation or refutation.
PC-3		PC-3.2 Uses a ready-made or creates a unique algorithm for differential diagnosis, taking into account the capabilities of the treatment facility.
		PC-3.3 Uses the information obtained as a result of diagnostic measures to make a final diagnosis(s) and to correct the diagnoses if necessary.
	Ability to diagnose and predict the course and spread of disease based on clinical, laboratory, and instrumental diagnostic data, as well as	PC-6.1 Knows the peculiarities of the manifestation of infectious, parasitic, internal non-contagious, surgical, gynecological and other diseases of animals of different species.
PC-6	additional diagnostic methods.	PC-6.2 Knows how to make a complex diagnosis, taking into account the results of anamnesis, clinical, laboratory and instrumental studies.
		PC-6.3 Knows how to predict the course and result of treatment of the main disease based on the complex of concomitant diagnoses and factors that complicate the patient's condition.

		PC-6.4 Has knowledge of methodologies for assessing the risks of spread of an identified disease.
PC-12	Ability to organize and conduct dispensaries in animals, both general and specialized.	dispensary of animals, general or
		PC-12.3 Able, on the basis of the results of the dispensary, to make recommendations for therapeutic and preventive measures aimed at improving the health of the animal group

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course "**Parasitology and invasive diseases**" refers to the mandatory part of 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 "Parasitology and invasive diseases".

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*
PC-3	Ability to plan measures for differential diagnosis of diseases in a patient.	Obstetrics, gynecology and andrology Internal diseases General surgery Private Veterinary Surgery	intensive care Dermatology Cardiology

			practice with the
			preparation of a
			1 1
			scientific qualification
			project
			Preparation for and
			passing the state exam
	Ability to diagnose and	Pathological	Epizootology and
	predict the course and	anatomy	infectious diseases
	spread of disease based	Obstetrics,	Clinical internship
	on clinical, laboratory,	gynecology and	Industrial practice
	and instrumental	andrology	Academic research
PC-6	diagnostic data, as well	Internal diseases	practice with the
	as additional diagnostic	General surgery	preparation of a
	methods.	Private Veterinary	scientific qualification
	memous.	Surgery	project
		Buigery	Preparation for and
			passing the state exam
	Ability to organize and	Obstatrics	
	Ability to organize and	Obstetrics,	Clinical internship
	conduct dispensaries in	gynecology and	-
	animals, both general	andrology	Academic research
	and specialized.	Internal diseases	practice with the
		General surgery	preparation of a
PC-12		Private Veterinary	scientific qualification
		Surgery	project
			Preparation for and
			passing the state exam

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the course "Parasitology and invasive diseases" is 8 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		Semesters		
			7	8	-	-
Contact academic hours		119	68	51	-	-
including						
Lectures		51	34	17	-	-
Lab work		68	34	34	-	-
Seminars (workshops/tutorials)		_	_	_	-	-
Self-study		131	56	75	-	-
Evaluation and assessment (exam/pass/fail		38	20	18	-	-
grading)						
	Academic	288	144	144	-	-
Course workload hour						
Course workload	Credit	8	4	4	-	-
	unit					

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	Topic 1.1. The course is a system	Lectures, Lab
veterinary parasitology.	of knowledge about veterinary	work.
	parasitology.	
	Topic 1.2. A brief history of the	Lectures, Lab
	development of parasitology. The	work.
	role of Russian scientists in the	
	development of parasitology.	Tasturas Tal
	Topic 1.3. Safety precautions when	Lectures, Lab work.
	working with animals suspected of being infected with invasive	WOIK.
	diseases.	
	Topic 1.4. Economic damage	Lectures, Lab
	caused by invasive diseases.	work.
Module 2. Veterinary	Topic 2.1. Pathogenesis and	Lectures, Lab
protozoology.	clinical signs of piroplasmidoses of	work.
	animals.	
	Topic 2.2. Methods of diagnosis of	Lectures, Lab
	protozoa.	work.
	Topic 2.3. Toxoplasmosis of	Lectures, Lab
	animals and humans. Features of	work.
	the course, diagnosis, treatment	
Madula 2 Vatarinamy	and prevention.	Lectures, Lab
Module 3. Veterinary entomology.	Topic 3.1. Diagnosis and treatment of entomoses.	work.
entomology.	Topic 3.2. Insecticides and	Lectures, Lab
	repellents.	work.
	Topic 3.3. Measures to combat	Lectures, Lab
	entomoses.	work.
Module 4. Veterinary acarology.	Topic 4.1. Parasitiform mites –	Lectures, Lab
	ectoparasites and carriers of	work.
	pathogens.	
	Topic 4.2. Measures to combat	Lectures, Lab
	ixodic ticks.	work.
	Topic 4.3. Diagnosis and treatment	Lectures, Lab
	of acaroses.	work.
	Topic 4.4. Acaricides and	Lectures, Lab work.
Module 5. Veterinary	repellents. Topic 5.1. Basic methods of	Lectures, Lab
helminthology.	diagnosis of helminthiasis.	work.
memmenogy.	Helmintholarvoscopy,	,, 011.
	helminthoscopy, helminthoscopy.	

Topic 5.2. Features of the morphology of suckers.	Lectures, Lab work.
Topic 5.3. Methods of diagnosis of trematodoses.	Lectures, Lab work.
Topic 5.4. Basics of prevention and treatment of trematodoses.	Lectures, Lab work.
Topic 5.5. Larval stages of cestodes (cysticercus, cenurus, cysticercoid, echinococcus, alveococcus, strobilocercus tetratidium).	Lectures, Lab work.
Topic 5.6. Larval teniidoses.	Lectures, Lab work.
Topic 5.7. Imaginal teniidoses.	Lectures, Lab work.
Topic 5.8. Diagnosis of imaginal cestodoses.	Lectures, Lab work.
Topic 5.9. Basic methods of diagnosis of nematodes. Trichinelloscopy.	Lectures, Lab work.
Topic 5.10. The study of the helminthological situation at livestock facilities.	Lectures, Lab 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.	1
Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	- Micro-preparations.

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:

- Karpenko L.P. Veterinary parasitology [Text/electronic resource]: Educational and methodical manual / L.P. Karpenko, N.V. Yashina. - Electronic text data. - M.: RUDN Publishing House, 2013. - 81 p. - ISBN 978-5-209-05276-0: 71.62. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=409610&idb=0
- 2. Parasitology and invasive diseases of animals: textbook for universities: in 2 volumes / D. G. Latypov, A. H. Volkov, R. R. Timerbaeva, E. G. Kirillov. St. Petersburg: Lan, [B. G.]. Volume 1 2021. 548 p. ISBN 978-5-8114-5786-1. Text: electronic // Lan: electronic library system. URL: https://e.lanbook.com/book/159484
- 3. Parasitology and invasive diseases of animals: textbook for universities: in 2 volumes / D. G. Latypov, A. H. Volkov, R. R. Timerbaeva, E. G. Kirillov. Saint Petersburg: Lan, 2021 Volume 2 2021. 444 p. ISBN 978-5-8114-5787-8. Text: electronic // Lan: electronic library system.— URL: https://e.lanbook.com/book/162360

Additional Readings:

- 1. Invasive diseases transmitted to humans through meat and fish, veterinary and sanitary assessment of slaughter products [Electronic resource]: Textbook / L.V. Reznichenko [et al.]. St. Petersburg: Publishing House "Lan", 2016. 80 p. (Textbooks for universities. Special literature). ISBN 978-5-8114-2258-6. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465053&idb=0
- **2.** Lutfullin M.H. Veterinary helminthology [Electronic resource]: Textbook / M.H. Lutfullin, D.G. Latypov, M.D. Kornishina. 2nd ed., erased. St. Petersburg: Publishing House "Lan", 2018. 304 p. (Textbooks for universities. Special literature). ISBN 978-5-8114-1092-7.
 - http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464873&idb=0
- 3. Bespalova N.S. Cestodology for veterinarians [Electronic resource]: Textbook / N.S. Bespalova, S.N. Koroleva. St. Petersburg: Publishing House "Lan", 2017. 216 p. (Textbooks for universities. Special literature). ISBN 978-5-8114-2662-1. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464914&idb=0
- 4. Latypov D.G. Protozoal diseases of animals dangerous to humans (protozoal zoonoses) [Electronic resource]: Textbook / D.G. Latypov, R.R. Timerbaeva, E.G. Kirillov. St. Petersburg: Publishing House "Lan", 2017. 208 p. (Textbooks for universities. Special literature). ISBN 978-5-8114-2631-7. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464930&idb=0
- 5. Latypov D.G. Helminthiasis of animals dangerous to humans [Electronic resource]: Textbook / D.G. Latypov. 3rd ed., reprint. St. Petersburg: Publishing House "Lan", 2017. 440 p. (Textbooks for universities. Special literature). ISBN 978-5-8114-2626-3. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464941&idb=0
- 6. Lieberman E.L. Anaplasmosis of farm animals [Electronic resource] : Textbook / E.L. Lieberman, S.A. Kozlov. St. Petersburg : Publishing House "Lan", 2017. 84 p. -

- (Textbooks for universities. Special literature). ISBN 978-5-8114-2472-6. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465003&idb=0
- 7. Bespalova N.S. Acarology for veterinarians [Electronic resource]: Textbook / N.S. Bespalova, E.O. Vozgorkova. St. Petersburg: Publishing House "Lan", 2017. 208 p. (Textbooks for universities. Special literature). ISBN 978-5-8114-2397-2. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464998&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 "Parasitology and invasive diseases".
- 2. Laboratory workshop on the course "Parasitology and invasive diseases".
- * 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).

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