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**Federal State Autonomous Educational Institution of Higher Education
Peoples' Friendship University of Russia named after Patrice Lumumba
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. COURSE GOAL(s)

The goal of 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

1) Mastering the course (module) «**Parasitology and Invasive Diseases**» is aimed at the development of the following competences /competences in part:

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-3	Ability to plan differential diagnostic procedures for diseases in a patient.	PC-3.1. Systematizes information on symptoms/syndromes of the disease and forms a list of preliminary diagnoses for confirmation or exclusion.
		PC-3.2. Uses ready-made or develops a specific differential diagnostic algorithm considering the capabilities of the medical institution.
		PC-3.3. Uses diagnostic results to establish a final diagnosis and adjust previously established diagnoses if necessary.
PC-6	Ability to establish a diagnosis and prognosis of disease development and spread based on clinical, laboratory and instrumental diagnostic data.	PC-6.1. Possesses knowledge of manifestations of infectious, parasitic, internal non-infectious, surgical, gynecological and other animal diseases.
		PC-6.2. Uses methods for establishing a comprehensive diagnosis based on medical history, clinical examination and diagnostic studies.
		PC-6.3. Applies methods for predicting the course and outcome of treatment considering accompanying diagnoses and complicating factors.
		PC-6.4. Assesses risks of disease spread.
PC-12	Ability to organize and conduct veterinary health monitoring (dispensary observation) of animals.	PC-12.1. Develops a veterinary health monitoring plan.
		PC-12.2. Organizes and conducts veterinary health monitoring procedures.
		PC-12.3. Provides recommendations for preventive and therapeutic measures.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
PC-3	Ability to plan differential diagnostic procedures for diseases in a patient.	Obstetrics, Gynecology and Andrology Internal Diseases General Surgery Private Surgery	Diseases Dermatology Cardiology Endocrinology Oncology Neurology Nephrology Anesthesiology, Resuscitation And Intensive Therapy Reconstructive Surgery Veterinary Ophthalmology Behavioral Medicine Animal Dentistry Clinical Internship Industrial Research Practice
PC-6	Ability to establish a diagnosis and prognosis of disease development and spread based on clinical, laboratory and instrumental diagnostic data.	Obstetrics, Gynecology and Andrology Internal Diseases General Surgery Private Surgery	Diseases Epidemiology and Infectious Diseases Clinical Internship Industrial Research Practice
PC-12	Ability to organize and conduct veterinary health monitoring (dispensary observation) of animals.	Obstetrics, Gynecology and Andrology Internal Diseases Private Surgery	Diseases Clinical Industrial Practice Clinical Internship Industrial Research Practice

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 8 credits (288 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)

Type of academic activities	Total academic hours	Semesters/training modules			
		7	8	-	-
<i>Contact academic hours</i>	119	68	51	-	-
including:					
Lectures (LC)	51	34	17	-	-
Lab work (LW)	68	34	34	-	-

Type of academic activities		Total academic hours	Semesters/training modules			
			7	8	-	-
Seminars (workshops/tutorials) (S)		-	-	-	-	-
<i>Self-studies</i>		131	56	75	-	-
<i>Evaluation and assessment (exam/passing/failing grade)</i>		38	20	18	-	-
Course workload	academic hours	288	144	144	-	-
	credits	8	4	4	-	-

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types	
Module 1. Introduction to veterinary parasitology.	Topic 1.1. The course is a system of knowledge about veterinary parasitology.	Lectures,	Lab work.
	Topic 1.2. A brief history of the development of parasitology. The role of Russian scientists in the development of parasitology.	Lectures,	Lab work.
	Topic 1.3. Safety precautions when working with animals suspected of being infected with invasive diseases.	Lectures,	Lab work.
	Topic 1.4. Economic damage caused by invasive diseases.	Lectures,	Lab work.
Module 2. Veterinary protozoology.	Topic 2.1. Pathogenesis and clinical signs of piroplasmidoses of animals.	Lectures,	Lab work.
	Topic 2.2. Methods of diagnosis of protozoa.	Lectures,	Lab work.
	Topic 2.3. Toxoplasmosis of animals and humans. Features of the course, diagnosis, treatment and prevention.	Lectures,	Lab work.
Module 3. Veterinary entomology.	Topic 3.1. Diagnosis and treatment of entomoses.	Lectures,	Lab work.
	Topic 3.2. Insecticides and repellents.	Lectures,	Lab work.
	Topic 3.3. Measures to combat entomoses.	Lectures,	Lab work.
Module 4. Veterinary acarology.	Topic 4.1. Parasitiform mites – ectoparasites and carriers of pathogens.	Lectures,	Lab work.
	Topic 4.2. Measures to combat ixodic ticks.	Lectures,	Lab work.
	Topic 4.3. Diagnosis and treatment of acaroses.	Lectures,	Lab work.
	Topic 4.4. Acaricides and repellents.	Lectures,	Lab work.
Module 5. Veterinary helminthology.	Topic 5.1. Basic methods of diagnosis of helminthiasis. Helmintholaryoscopy, helminthoscopy, helminthoscopy.	Lectures,	Lab work.

Topic 5.2. Features of the morphology of suckers.	Lectures, work.	Lab
Topic 5.3. Methods of diagnosis of trematodoses.	Lectures, work.	Lab
Topic 5.4. Basics of prevention and treatment of trematodoses.	Lectures, work.	Lab
Topic 5.5. Larval stages of cestodes (cysticercus, cenurus, cysticercoid, echinococcus, alveococcus, strobilocercus tetradidium).	Lectures, work.	Lab
Topic 5.6. Larval teniidoses.	Lectures, work.	Lab
Topic 5.7. Imaginal teniidoses.	Lectures, work.	Lab
Topic 5.8. Diagnosis of imaginal cestodoses.	Lectures, work.	Lab
Topic 5.9. Basic methods of diagnosis of nematodes. Trichinelloscopy.	Lectures, work.	Lab
Topic 5.10. The study of the helminthological situation at livestock facilities.	Lectures, work.	Lab

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations.	
Lab work	A classroom for laboratory work, individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and machinery.	
Self-studies	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. 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., revised. - 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. Bepalova N.S. Cestodology for veterinarians [Electronic resource] : Textbook / N.S. Bepalova, 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. Bepalova N.S. Acarology for veterinarians [Electronic resource] : Textbook / N.S. Bepalova, 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/>

*Training toolkit for self- studies to master the course *:*

1. The set of lectures on the course «**Parasitology and invasive diseases**»

2. The laboratory workshop (if any) on the course «**Parasitology and invasive diseases**»

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

DEVELOPER:

Professor of the Department of Veterinary Medicine

Position, Basic curriculum

Signature

Shemyakova S.A.

Full name.

HEAD OF EDUCATIONAL DEPARTMENT:

Department of Veterinary Medicine

Name Basic Curriculum

Signature

Vatnikov Yu.A.

Full name.

HEAD OF

HIGHER EDUCATION PROGRAMME:

Director of the Department of Veterinary Medicine

Position, Basic curriculum

Signature

Vatnikov Yu.A.

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