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**Federal State Autonomous Educational Institution of Higher Education
Peoples' Friendship University of Russia named after Patrice Lumumba"
Agrarian and Technological Institute**

STATE FINAL CERTIFICATION PROGRAM

Recommended by ISSC for the direction of training/specialization:

36.05.01 Veterinary Medicine

The state final attestation is carried out within the framework of the implementation of the main professional educational program of higher education (EP HE):

Veterinary medicine

1. PURPOSE AND OBJECTIVES OF THE STATE FINAL ATTESTATION (SFA)

The purpose of conducting the SFA within the implementation of the Higher Education Program (HEP) "36.05.01 Veterinary Medicine" is to determine the compliance of students' learning outcomes with the requirements of the Federal State Educational Standards of Higher Education (FSSES HE) and/or the Educational Standards of RUDN University (ES RUDN).

The objectives of the State Final Attestation are:

- to assess the quality of the student's education in fundamental humanitarian knowledge, natural scientific laws and phenomena necessary for professional activity;
- to determine the level of theoretical and practical preparedness of graduates for performing professional tasks in accordance with the acquired qualification;
- to establish the degree of a graduate's commitment to self-development and the enhancement of professional skills and mastery;
- to verify the formation of stable motivation in graduates for professional activities in accordance with the types of professional tasks provided for by the ES RUDN/FSSES HE;
- to evaluate the level of graduates' ability to find organizational and managerial solutions in non-standard situations and their readiness to take responsibility for these decisions;
- to ensure the integration of education and scientific-technical activities, enhance the effectiveness of scientific and technical achievements, reform the scientific sphere, and stimulate innovation activities;
- to ensure the quality of specialist training in accordance with the requirements of the ES RUDN/FSSES HE.

2. REQUIREMENTS FOR THE LEARNING OUTCOMES OF THE HIGHER EDUCATION PROGRAM

A student is admitted to the State Final Attestation (SFA) if they have no academic arrears and have fully completed the curriculum or individual curriculum of the Higher Education Program (HEP).

Upon completion of the HEP, the graduate must possess the following **universal competencies (GC)**:

Code and Name of GC	Code and Name of Competency Achievement Indicator
GC-1 Ability to carry out critical analysis of problem situations based on a systematic approach and to develop a strategy of actions.	GC-1.1. Analyzes the task, identifying its core components; GC-1.2. Identifies and ranks the information required to solve the task; GC-1.3. Searches for information to solve the task using various types of queries; GC-1.4. Proposes solutions to the problem, analyzing the potential consequences of their use; GC-1.5. Analyzes ways of solving worldview, moral, and personal problems based on the main philosophical ideas and categories in their historical development and socio-cultural context.
GC-2 Ability to manage a project at all stages of its life cycle.	GC-2.1. Formulates a problem whose solution is directly related to achieving the project's objective; GC-2.2. Identifies connections between the set tasks and the expected results; GC-2.3. Determines the available resources and constraints, including legal regulations, within the task scope; GC-2.4. Analyzes the project schedule and chooses the optimal method for solving the set tasks, based on existing laws and available resources; GC-2.5. Monitors the progress of the project and adjusts the schedule according to monitoring results.
GC-3 Ability to organize and lead a team, developing a team strategy to achieve a set goal.	GC-3.1. Determines one's role in the team based on a cooperative strategy; GC-3.2. Takes into account group behavioral features based on goals; GC-3.3. Analyzes consequences of personal actions and plans accordingly; GC-3.4. Shares information, knowledge, and experience with team members; GC-3.5. Justifies own views on using team members' ideas; GC-3.6. Participates in team activities to carry out assignments.
GC-4 Ability to communicate in interpersonal and intercultural interaction in Russian as a foreign language and in foreign language(s), based on mastery of interrelated and interdependent types of reproductive and productive foreign language speech activities: listening, speaking, reading, writing, and translation in everyday, sociocultural, educational-professional, official-business,	GC-4.1. Chooses the style of business communication based on language, purpose, and partnership conditions; GC-4.2. Adapts speech, communication style, and gestures to interaction contexts; GC-4.3. Searches for necessary information to solve standard communication tasks in Russian and foreign languages; GC-4.4. Translates professional texts from foreign language to Russian and vice versa; GC-4.5. Conducts business correspondence in Russian and foreign languages, considering stylistic features and sociocultural differences; GC-4.6. Uses dialogue for academic communication, taking into account interlocutors' personalities and strategies; GC-4.7. Forms and justifies own assessment of key ideas of dialogue participants in collaborative activities.

and scientific spheres.	
GC-5 Ability to analyze and take into account cultural diversity in intercultural interaction.	GC-5.1. Interprets Russian history in the context of global historical development; GC-5.2. Finds and uses information on cultural features and traditions of various social groups in professional and social communication; GC-5.3. Considers historical and sociocultural traditions of social groups, ethnicities, and confessions, including world religions and philosophical teachings; GC-5.4. Gathers information on a topic considering the ethnic and confessional context of the research location; GC-5.5. Justifies features of project and team activities with people of different ethnicities/confessions; GC-5.6. Adheres to non-discrimination principles in personal and mass communication to fulfill professional tasks and promote social integration.
GC-6 Ability to determine and implement priorities in one's activities and ways of improving them based on self-assessment and lifelong learning.	GC-6.1. Monitors time spent on specific activities; GC-6.2. Develops tools and methods for time management for tasks, projects, and goals; GC-6.3. Analyzes personal resources and limitations (e.g., time, situational, individual); GC-6.4. Finds and uses additional sources to improve general and professional knowledge; GC-6.5. Analyzes opportunities and tools for lifelong learning based on personal needs, career stages, and labor market demands; GC-6.6. Identifies self-development tasks, goals, and priorities for growth; GC-6.7. Categorizes tasks into long-, medium-, and short-term ones.
GC-7 Ability to maintain an adequate level of physical fitness for full social and professional activity.	GC-7.1. Chooses health-preserving technologies based on physiology; GC-7.2. Plans work and rest time to balance physical and mental workload; GC-7.3. Adheres to and promotes healthy lifestyle practices.
GC-8 Ability to create and maintain safe living and professional environments to preserve the natural environment and ensure sustainable development, including during emergencies and military conflicts.	GC-8.1. Analyzes harmful environmental factors (e.g., equipment, processes, materials, buildings, natural and social phenomena); GC-8.2. Identifies harmful and dangerous factors in the task scope; GC-8.3. Detects and resolves workplace safety violations; GC-8.4. Explains emergency prevention measures; GC-8.5. Explains behavior rules during emergencies and military conflicts; GC-8.6. Provides first aid and participates in recovery activities.
GC-9 Ability to apply basic defectological knowledge in social and professional contexts.	GC-9.1. Understands principles of non-discriminatory interaction with persons with disabilities; GC-9.2. Plans and carries out professional activities with people who have disabilities; GC-9.3. Interacts with persons with disabilities in social and professional contexts
GC-10 Ability to make informed economic decisions in various areas of life.	GC-10.1. Understands the basics of economics, economic development, and the role of the state; GC-10.2. Applies personal financial and economic planning methods to meet short- and long-term goals;

	GC-10.3. Uses financial tools to manage personal budget and risks.
GC-11 Ability to form an intolerant attitude toward corrupt behavior.	GC-11.1. Analyzes current laws combating corruption and related preventive measures; GC-11.2. Plans and conducts activities that foster civic engagement and corruption prevention; GC-11.3. Follows legal and ethical standards in public interaction.
GC-12 Ability to search for, analyze, retain, and transmit information using digital tools and algorithms to effectively solve tasks; assess information and its reliability, and draw logical conclusions.	GC-12.1. Searches for information from various sources, processes and applies it using digital tools and algorithms; GC-12.2. Evaluates the reliability of information and draws logical conclusions based on incoming data.

- general professional competencies (GPC):

Code and Name of GPC	Code and Name of Competency Achievement Indicator
GPC-1 Ability to determine the biological status and standard clinical indicators of the organs and systems of animals.	GPC-1.1. Knows the structure and functions of the main systems of animals, taking into account species characteristics. GPC-1.2. Is able to predict expected disturbances in biological status when disease is suspected. GPC-1.3. Is able to determine key functional indicators of individual systems and assess deviations from normal values. GPC-1.4. Possesses the skills to collect biological fluid and tissue samples for research, conduct laboratory tests, and interpret test results.
GPC-2 Ability to interpret and evaluate in professional activities the influence of natural, socio-economic, genetic, and economic factors on the physiological state of animals.	GPC-2.1. Possesses knowledge about the influence of natural, socio-economic, genetic, and economic factors on animal organisms. GPC-2.2. Is able to establish the existence and reliability of cause-and-effect relationships between etiological factors and disease development. GPC-2.3. Possesses methods of preventive and therapeutic correction of adverse environmental influences that can harm animal health.
GPC-3 Ability to carry out and improve professional activities in accordance with regulatory legal acts in the agro-industrial sector.	GPC-3.1. Knows modern national and international legal regulations in veterinary medicine, veterinary-sanitary expertise, and the agro-industrial complex. GPC-3.2. Possesses skills to update legal information, including in the agro-industrial sector. GPC-3.3. Carries out activities in accordance with legal regulations in the agro-industrial sector, veterinary medicine, and veterinary-sanitary expertise.
GPC-4 Ability to use methods for solving tasks with modern equipment in the development of new technologies and to use modern professional methodology in experimental research and interpretation.	GPC-4.1. Possesses conceptual and methodological tools in basic sciences sufficient for modern professional activity. GPC-4.2. Possesses methods for solving problems using modern equipment. GPC-4.3. Is ready to use modern methodology in designing and conducting experimental research. GPC-4.4. Applies modern professional methodology in interpreting research results.

GPC-5 Ability to prepare special documentation, analyze professional activity results, and present reports using specialized databases.	GPC-5.1. Has skills to find required documentation forms on official websites and in specialized databases. GPC-5.2. Possesses professional terminology and skills in completing analytical and reporting documents. GPC-5.3. Is able to use specialized software to analyze professional results and compile reports.
GPC-6 Ability to analyze, identify, and assess risks related to the occurrence and spread of diseases.	GPC-6.1. Possesses knowledge in the etiology and pathogenesis of diseases in animals of various species. GPC-6.2. Understands patterns of disease emergence and spread in animal populations, predisposing factors, and causes of complications. GPC-6.3. Assesses risks from human economic activity in spreading diseases among animals and humans.
GPC-7 Ability to understand how modern information technologies work and apply them in solving professional tasks.	GPC-7.1. Understands the operation of modern computer equipment and telecommunications and uses them to solve professional tasks. GPC-7.2. Uses specialized software and databases to complete tasks and duties. GPC-7.3. Has skills to work with modern medical diagnostic and therapeutic equipment with software. GPC-7.4. Uses specialized databases in diagnostics and treatment of animals. GPC-7.5. Uses geographic information systems and software to collect and analyze information related to disease spread, epizootic situations, and planning/evaluating anti-epizootic measures.

- professional competencies (PC)*:

Code and Name of Competency Achievement Indicator		Code and Name of Professional Standard
PC-1 Ability to collect the life and health history of an animal for diagnosis and planning of therapeutic and preventive measures.	PC-1.1. Collects the life history, vaccination records, deworming, and other preventive treatments of the animal. PC-1.2. Collects information about past diseases, surgeries, ongoing chronic diseases, and current therapies. PC-1.3. Collects information about the progression of the animal's condition, diagnostic and therapeutic interventions, used medicines, and physiotherapy methods.	Professional Standard No. 141: Specialist in the Field of Veterinary Medicine <i>(Type of professional activity – Ensuring the Veterinary Well-being of Animals and Humans, Code 13.012)</i> ISCO Code – 2250: Veterinarians
PC-2 Ability to perform a full primary clinical examination	PC-2.1. Follows techniques and procedures for clinical examinations	

of an animal to establish preliminary clinical diagnosis(es) and repeated examinations for patient monitoring.	considering animal species and condition. PC-2.2. Identifies signs of deviations from normal function and recognizes standard symptom combinations (syndromes). PC-2.3. Records examination results in the patient's chart or other medical documents. PC-2.4. Assesses the initial severity of clinical symptoms and monitors their changes during patient management.	
PC-3 Ability to plan differential diagnosis activities for the patient.	PC-3.1. Systematizes information about symptoms/syndromes and compiles preliminary diagnoses for confirmation or rejection. PC-3.2. Uses standard or custom differential diagnosis algorithms considering clinical facility capabilities. PC-3.3. Applies diagnostic results to establish or adjust the final diagnosis(es).	
PC-4 Ability to conduct necessary laboratory diagnostics as part of preventive or diagnostic activities.	PC-4.1. Knows modern laboratory diagnostic methods, their purposes, pre-analytical features, and interpretation. PC-4.2. Selects the necessary type of laboratory diagnosis based on biological sciences knowledge. PC-4.3. Conducts laboratory tests using modern diagnostic equipment. PC-4.4. Interprets diagnostic results and uses them to solve tasks.	
PC-5 Ability and readiness to plan and conduct necessary types of instrumental diagnostics.	PC-5.1. Possesses knowledge about modern instrumental diagnostic methods, indications, complications, and contraindications. PC-5.2. Selects an appropriate and sufficient set of diagnostic methods. PC-5.3. Conducts instrumental diagnostics of animal diseases. PC-5.4. Interprets diagnostic results and applies them to solve tasks.	
PC-6 Ability to make a diagnosis and forecast disease progression based on clinical, laboratory, instrumental, and additional diagnostic data.	PC-6.1. Knows manifestations of infectious, parasitic, non-infectious internal, surgical, gynecological, and other animal diseases. PC-6.2. Masters methods of complex diagnosis considering anamnesis, clinical, laboratory, and instrumental findings. PC-6.3. Applies methods of forecasting treatment outcomes based on concurrent diagnoses and complicating factors. PC-6.4. Assesses disease spread risks.	

PC-7 Ability to select or develop a treatment plan based on diagnosis.	PC-7.1. Selects necessary medicinal products considering principles of evidence-based medicine and pharmacological interactions. PC-7.2. Selects optimal administration routes, calculates doses, frequency, and course durations. PC-7.3. Selects and applies non-drug, including physiotherapy, treatment methods. PC-7.4. Develops a treatment plan, defines control criteria, and modifies it if necessary.	
PC-8 Coordinates treatment plans with the animal owner and other healthcare participants, adjusting them if needed.	PC-8.1. Explains the treatment plan to the owner, obtains consent, and discusses resource commitment. PC-8.2. Communicates with the owner about treatment progress, compliance, and actual versus expected results. PC-8.3. Explains to the owner and medical staff any necessary corrections to treatment plans based on changes in the patient's condition.	
PC-9 Ability to use surgical methods in prevention, diagnosis, and treatment.	PC-9.1. Selects appropriate surgical interventions, including anesthesia methods. PC-9.2. Plans preoperative preparation, the surgery procedure, postoperative management, and complication prevention. PC-9.3. Independently performs basic surgical interventions (e.g., punctures, soft tissue necrotomy, tail amputation, male/female castration, dehorning, exploratory laparotomy, etc.). PC-9.4. Monitors surgical outcomes.	
PC-10 Ability to analyze and adjust animal feeding to enhance treatment effectiveness and prescribe therapeutic diets.	PC-10.1. Analyzes patient diets for disease predisposition factors. PC-10.2. Justifies special therapeutic feeding prescriptions for various diseases. PC-10.3. Recommends therapeutic diet compositions, nutrient balances, and additives to enhance treatment. PC-10.4. Uses software and databases to select commercial therapeutic diets and supplements, and to create individualized therapeutic diets.	
PC-11 Ability to develop annual anti-epizootic, non-infectious disease prevention, veterinary-sanitary, and immunization plans.	PC-11.1. Conducts epizootiological surveys of facilities and areas. PC-11.2. Develops annual anti-epizootic and antiparasitic plans, non-infectious	

	disease prevention plans, and veterinary-sanitary plans. PC-11.3. Drafts individual and group immunization plans considering the local epizootic situation and legal requirements. PC-11.4. Organizes preventive treatments of animals according to plans and epizootic conditions. PC-11.5. Analyzes completeness and effectiveness of disease prevention measures.	
PC-12 Ability to organize and conduct general and specialized animal dispensarization.	PC-12.1. Drafts general or specialized dispensarization plans considering species and purposes. PC-12.2. Organizes and carries out dispensarization according to the plan. PC-12.3. Provides recommendations for treatment and preventive actions based on dispensarization results.	
PC-13 Ability to perform postmortem diagnostic examinations to identify pathological processes, diseases, and cause of death.	PC-13.1. Conducts general external examination of animal carcasses before autopsy. PC-13.2. Performs animal autopsies using specialized tools and safety procedures. PC-13.3. Establishes cause of death and pathological diagnosis following accepted standards and classifications. PC-13.4. Documents postmortem examination results.	
PC-14 Readiness to promote veterinary knowledge, including animal disease prevention.	PC-14.1. Analyzes problems affecting animal health and welfare, sets propaganda goals, and plans related activities. PC-14.2. Uses computer and telecommunications tools to prepare and present educational materials. PC-14.3. Conducts talks, lectures, and seminars to explain principles of disease prevention to staff.	

* – The PC is formulated by the program developer taking into account the requirements of professional standards and the focus of the higher education program.

3. STRUCTURE OF THE STATE FINAL ATTESTATION (SFA)

The SFA may be conducted either in person (students and the State Examination Commission are present at RUDN University during the SFA) or using distance learning technologies (DLT) available in the RUDN Electronic Information and Educational Environment (EIEE).

The procedure for conducting the SFA in person or via DLT is regulated by the relevant local regulatory act of RUDN University.

The SFA for the higher education program “36.05.01 Veterinary Medicine” includes:

- State Exam (SE);
- Defense of the Final Qualification Work (FQW) as an elective discipline upon the student's initiative.

4. STATE EXAM PROGRAM

The State Exam is conducted in clinical disciplines and specialization disciplines, the learning outcomes of which are critical for the professional activity of graduates.

The volume of the SE within the program is 9 credit units.

The State Exam is conducted in two stages:

1. **Stage one** – evaluation of the theoretical preparation of the graduate in the form of computer-based testing using the tools available in the EIEE.
2. **Stage two** – evaluation of theoretical and practical readiness for professional activity in the form of oral responses and solving case-based production tasks.

At least one month prior to the SFA, the program head is obliged to acquaint final-year students with the present SFA program, a complete list of theoretical questions included in the SE, examples of case-based tasks, and the procedure and assessment methodology for each SE stage (including evaluation materials).

A pre-exam consultation is mandatory and is conducted to address questions and tasks included in the SE program.

Procedure for Computer-Based Testing

1. Preparation for the computer-based testing occurs during the study of clinical and specialization disciplines. Test questions may appear in ongoing and final assessments.
2. A mock test is held no later than one week before the official SE test. It helps students handle technical issues, assess their readiness, and clarify questions with a supervising instructor or proctor (for remote formats). The mock test fully replicates the official test format.

3. The SE computer-based test is conducted in person in a computer lab or remotely via the EIEE. The test includes 100 questions with only one correct answer each. Each correct answer equals 1 point. The total possible score is 100 points. Duration: up to 60 minutes. Only one attempt is allowed.
4. Results are evaluated automatically by the EIEE. A minimum of 51 points is required to proceed to the oral stage.
5. A student scoring less than 51 points or failing to appear without valid reason is considered unqualified and is not admitted to further stages.
6. If the student is absent for a valid reason, an additional test date is scheduled within the SFA timeline.

Procedure for the Second Stage of the SE

1. Students scoring at least 51 points are admitted to the oral stage. The test score is not included in the final grade, except in disputable cases. A high test score may support a higher final grade.
2. Students enter the exam room one at a time as directed by the SEC secretary.
3. The student selects a ticket and prepares for 40 minutes. Notes made during preparation can be used during the answer and are submitted afterward for appeal purposes. Drafts are destroyed post-SFA.
4. The student must demonstrate acquired universal, general professional, and professional competencies when answering and solving case tasks.
5. SEC members may ask additional questions to further assess the student's competence.
6. Assessment considers completeness, correctness, clarity, breadth of professional outlook, and depth of knowledge.
7. The final grade is determined based on the total points earned during the oral response.

Assessment of SE results follows the methodology described in the evaluation materials provided in the Appendix to this SFA program.

5. REQUIREMENTS FOR THE FINAL QUALIFICATION WORK (FQW) AND ITS DEFENSE PROCEDURE

The FQW is a work completed by the student (or jointly by several students) demonstrating the graduate's preparedness for independent professional activity.

The FQW defense is not a mandatory component of the SFA for "36.05.01 Veterinary Medicine" and is held on a voluntary basis as an elective after the SE.

The list of proposed FQW topics is approved by the program head and communicated to final-year students no later than six months before the start of the SFA.

Students may also propose their own FQW topics for approval.

Only students who have passed the SE are eligible to defend their FQW.

Only fully completed FQWs are accepted for defense. The work must be signed by the student(s), supervisor, advisor (if applicable), department head, and undergo external review (mandatory for master's and specialist programs) and plagiarism check (via Antiplagiat). A supervisor's review of the student's work must be attached.

To identify and eliminate issues in structure, content, and formatting, a rehearsal defense is conducted at least 14 days prior to the official defense with the presence of the supervisor and faculty.

The defense is held at an open meeting of the SEC, in person or via remote format.

The examination is conducted as an oral presentation with mandatory multimedia (graphic) content reflecting the main findings of the FQW.

Following the presentation, students respond to SEC members' questions regarding the topic, structure, content, formatting, or program relevance. Presentation and answers may be delivered in a foreign language.

FQW stages, structural, content, and formatting requirements, and a list of mandatory and recommended documents are outlined in the relevant methodological guidelines.

FQW defense results are evaluated in accordance with the methodology set forth in the evaluation materials attached to this SFA program.

6. MATERIAL AND TECHNICAL SUPPORT FOR THE SFA

A computer lab is required for mock and official testing, equipped with suitable computers, access to the EIEE, and Internet access. A room for the SE and FQW defense should be equipped with multimedia tools and Internet access. Laptops must be provided for the SEC secretary and (if needed) for SEC members to enable remote participation.

Licensed corporate software such as Microsoft Office 365 is used, and if required, specialized software for X-ray imaging and other diagnostic applications.

7. EDUCATIONAL, METHODOLOGICAL, AND INFORMATIONAL SUPPORT FOR THE SFA

Core literature for preparation for the SE and/or completion and defense of the Final Qualification Work (FQW):

1. Obstetrics, gynecology and biotechnology of animal reproduction: textbook / A. P. Studentsov, V. S. Shipilov, V. Y. Nikitin [et al]; edited by G. P. Dulger. - 10th ed., er. - St. Petersburg: Lan, 2020. - 548 c. <https://e.lanbook.com/book/129090>
2. Badluev E.B., Eshizhamsoev B.D., Tsybikzhapov A.D. Obstetrics and gynecology of farm animals. Workbook for laboratory-practical classes and independent work: textbook 2019.-90 pp. <https://e.lanbook.com/book/113386>
3. Baimishev, H. B. Gynecology and andrology: methodological guidelines / H. B. Baimishev. - Samara : SamGAU, 2018. - 106 c. <https://e.lanbook.com/book/109422>
4. Practicum on internal diseases of animals: textbook / G. G. Shcherbakov, A. V. Yashin, A. P. Kurdeko [et al.] ; under the general editorship of G. G. Shcherbakov [et al.]. - 3rd ed. - Saint-Petersburg : Lan, 2020. - 544 c. <https://e.lanbook.com/book/139263>
5. Nechaev, A. V. Internal non-communicable diseases: textbook / A. V. Nechaev, Y. A. Kurlykova. - Samara : SamGAU, 2020 - Part 1 : General prevention and therapy - 2020. - 122 c. <https://e.lanbook.com/book/158657>
6. Dulger, G. P. Fundamentals of veterinary medicine : textbook for universities / G. P. Dulger, G. P. Tabakov. - 3rd ed., er. - St. Petersburg : Lan, 2020. - 476 c. <https://e.lanbook.com/book/146658>
7. Epizootology with microbiology : textbook / A.S. Aliev, Y.Y. Danko, I.D. Yeshenko [et al]; Edited by V.A. Kuzmin. - 2nd ed. - SPb. : Lan Publishing House, 2017. - 432 c. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465028&idb=0
8. Sidorchuk, A. A. General epizootology : textbook for universities / A. A. Sidorchuk, V. A. Kuzmin, S. V. Alekseeva. - 2nd ed., er. - Saint-Petersburg : Lan, 2021. - 248 c. <https://e.lanbook.com/book/156931>

9. Epizootology with microbiology : textbook for universities / A. S. Aliev, Y. Y. Danko, I. D. Yeshenko [et al.] ; Edited by V. A. Kuzmin, A. V. Svyatkovsky. - 6th, er. - Saint-Petersburg : Lan, 2021. - 432 c. <https://e.lanbook.com/book/162384>
10. Skubko, O. R. Morphofunctional features and diseases of animal bones : textbook / O. R. Skubko, O. N. Shushakova. - Omsk : Omsk GAU, 2020. - 52 c. <https://e.lanbook.com/book/136157>
11. Operative surgery in animals : a textbook for universities / B. S. Semenov, V. N. Videnin, A. Y. Nechaev [et al.]. - Saint-Petersburg : Lan, 2020. - 704 c. <https://e.lanbook.com/book/162365>
12. Skubko, O. R. Methods of lectures of the academic discipline B1.B.23 "Operative surgery with topographical anatomy" : textbook / O. R. Skubko, G. A. Khonin, O. N. Shushakova. - Omsk : Omsk GAU, 2019. - 65 c. <https://e.lanbook.com/book/126630> [Латыпов](#)
13. Latypov D.G. Protozoal diseases of animals dangerous for humans (protozoal zoonoses) : a manual / D.G. Latypov, R.R. Timerbaeva, E.G. Kirillov. - SPb. : Publishers "Lan", 2017. - 208 c. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464930&idb=0
14. Latypov D.G. Helminthoses of animals dangerous for humans : textbook / D.G. Latypov. - 3rd ed., revision. - SPb. : Publishers "Lan", 2017. - 440 c. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464941&idb=0
15. Latypov, D. G. Parasitology and invasive diseases of animals : textbook for spo / D. G. Latypov, R. R. Timerbaeva, E. G. Kirillov. - 2nd ed., pers. - Saint-Petersburg : Lan, 2021. - 520 c. <https://e.lanbook.com/book/159517>
16. Yatusevich, A. I. Parasitology and invasive diseases of animals : textbook / A. I. Yatusevich, N. F. Karasev, S. I. Stasyukevich. - Minsk : RIPO, 2020. - 266 c. <https://e.lanbook.com/book/154220>
17. Nikitin, I. N. Practicum on the organization of veterinary business : textbook / I. N. Nikitin. - 4th ed., revised. and supplement. - St. Petersburg : Lan, 2020. - 324 c. <https://e.lanbook.com/book/131031>
18. Nikitin, I. N. Legal support of veterinary activity : textbook for spo / I. N. Nikitin. - 2nd ed., ster. - St. Petersburg : Lan, 2021. - 212 c. <https://e.lanbook.com/book/155692>
19. Zabolotnykh M. V., Ivkova I. A., Zhidik I. Yu. Fundamentals of the organization of veterinary sanitary business: a training manual 2020. - 91c
20. Nikitin, I. N. Veterinary clinic : textbook for universities / I. N. Nikitin, V. V. Ivanov, E. N. Trofimova. - 2nd, er. - St. Petersburg : Lan, 2021. - 184 c. <https://e.lanbook.com/book/162385>

Additional literature for preparation for GE and/or performance and defense
WCR:

1. Polyantsev, N. I. Practicum on obstetrics, gynecology and biotechnology of animal reproduction: textbook / N. I. Polyantsev. - Saint-Petersburg : Lan, 2016. - 272 c. <https://e.lanbook.com/book/71726>
2. Medicines used in veterinary obstetrics, gynecology, andrology and biotechnics of animal reproduction : textbook / G. P. Dyulger, V. V. Khramtsov, Y. G. Sibileva, J. O. Kemeshev. - Saint-Petersburg : Lan, 2016. - 272 c. <https://e.lanbook.com/book/75510>
3. Biotechniques of reproduction of farm animals and birds : textbook / compilers E. I. Shurmanova [et al.]. - Ekaterinburg : UrGAU, 2020. - 212 c. <https://e.lanbook.com/book/155046>
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Information and telecommunication network “Internet” resources:

1. RUDN E-library systems and third-party electronic library systems accessible to students based on signed agreements:

- RUDN Electronic Library System – EBS RUDN:
<http://lib.rudn.ru/MegaPro/Web>
- EBS “University Library Online”: <http://www.biblioclub.ru>
- EBS Urait: <http://www.biblio-online.ru>
- EBS “Student Consultant”: www.studentlibrary.ru
- EBS “Lan ”: <http://e.lanbook.com/>
- EBS “Troitsky Most”
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2. Databases and search systems:

- Electronic database of legal and regulatory-technical documentation:
<http://docs.cntd.ru/>
- Yandex search engine: <https://www.yandex.ru/>
- Google search engine: <https://www.google.ru/>
- SCOPUS abstract and citation database:
<http://www.elsevierscience.ru/products/scopus/>

Educational and methodological materials for independent work by students in preparation for the SE and/or the completion and defense of the FQW *:

1. Methodological guidelines for performing and formatting the FQW for the HEP “36.05.01 Veterinary Medicine.”
 2. Procedure for checking the FQW for plagiarism in the “Antiplagiat” system.
 3. Procedure for conducting the SFA under the HEP “36.05.01 Veterinary Medicine” using distance learning technologies (DLT), including identity verification of the graduate.
- – All educational and methodological materials for independent student work are posted according to the current regulations on the SFA page in the Teaching and Learning Information System (TLIS)!

8. EVALUATION MATERIALS AND POINT-RATING SYSTEM FOR ASSESSING COMPETENCY FORMATION LEVELS

Evaluation materials and the point-rating system * for assessing the level of competency formation upon completion of the disciplines under the HEP “36.05.01 Veterinary Medicine” are presented in the Appendix to this SFA program.

- – Evaluation materials and the point-rating system are developed based on the requirements of the relevant local regulatory act of RUDN University (regulation/procedure).

HEAD OF THE GRADUATING DEPARTMENT (BUP):

Department of Veterinary Medicine
Name of the Department

Signature

Yu. A. Vatnikov
Full Name

HEAD OF THE HIGHER EDUCATION PROGRAM:

Director of the Department of Veterinary
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