Документ подписан простой электронной подписью Информация о владельце: ФИО: Ястребов Олег Алектандовии State Auton Должность: Ректор Дата подписания: 21.05.2025 12:26:32 Уникальный программный ключ: са953a0120d891083f939673078ef1a989dae18a

Agrarian and Technological Institute

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

INTERNSHIP SYLLABUS

Clinical Internship

Industrial Practice

Recommended by the Didactic Council for the Education Field of:

36.05.01. Veterinary

field of studies / speciality code and title

The student's internship is implemented within the professional education programme of higher education:

Veterinary

higher education programme profile/specialisation title

1. INTERNSHIP GOAL(s)

The goal of the Internship "General professional practice" is to acquire the skills of mastering the natural sciences useful and useful, taste in professional activities and deepening the level of theoretical and practical qualifications to perform professional tasks in accordance with the existing qualifications.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The internship implementation is aimed at developing students' competencies (parts of competencies):

Competence	Competence descriptor	Competence formation indicators
code		(within this course)
GPC-1	The ability to determine the	GPC-1.1 Knows the structure and functions
	biological status and normative	of the main systems of the animal body,
	clinical indicators of organs and	considering species characteristics
	systems of the animal body.	GPC-1.2 Capable of predicting the
		expected violations of the biological status
		in case of suspected development of
		diseases
		GPC-1.3 Is able to determine the main
		indicators of the activity of individual body
		systems and draw conclusions about the presence of deviations from the normative
		values
		GPC-1.4 Skilled in taking samples of
		biological fluids and tissues for research,
		performing laboratory tests, interpreting
		research results.
GPC-2	The ability to interpret and	GPC-2.1 Has knowledge of the impact of
	evaluate in professional	natural, socio-economic, genetic and
	activities the impact on the	economic factors on the animal body
	physiological state of the animal	GPC-2.2 Able to establish the presence and
	organism of natural, socio-	reliability of causal relationships between
	economic, genetic and economic	the impact of individual etiological factors
	factors.	on the animal's body and the development
		of diseases
		GPC-2.3 Owns methods of preventive and
		therapeutic correction of the impact of adverse environmental factors that can
		cause a deterioration in animal health
GPC-3	The ability to carry out and	GPC-3.1 Knows modern legal norms, both
	improve professional activities in	
	accordance with regulatory legal	in the field of veterinary medicine,
	acts in the field of agro-industrial	veterinary and sanitary examination and
	complex	agro-industrial complex
		GPC-3.2 Skilled in update legal
		information, including in the field of agro-
		industrial complex

Table 2.1. List of competences that students acquire during the internship

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		GPC-3.3 Carries out activities in accordance with the regulatory legal acts in the field of agro-industrial complex, as well as in the field of veterinary medicine and veterinary and sanitary examination.
GPC-4	The ability to use in professional activities methods of solving problems using modern equipment in the development of new technologies and use modern professional methodology to conduct experimental studies and interpret their results.	GPC-4.1 Owns the conceptual and methodological apparatus of the basic natural sciences at a level sufficient for full-fledged professional activity at the modern level GPC-4.2 Owns methods for solving problems using modern equipment GPC-4.3 Ready to use modern methodology in the development and conduct of experimental studies GPC-4.4 Uses modern professional methodology when interpreting research results
GPC-5	The ability to draw up special documentation, analyze the results of professional activities and submit reporting documents using specialized databases.	GPC-5.1 Has the skills to search for the necessary forms of documentation on official websites and specialized databases GPC-5.2 Proficient in professional terminology and skills in filling out analytical and reporting documents of a professional nature GPC-5.3 Able to use specialized software for analyzing the results of professional activities and compiling reporting documentation
GPC-6	The ability to analyze, identify and carry out risk assessment of the risk of occurrence and spread of diseases.	GPC-6.1 Has knowledge in the field of etiology and pathogenesis of animal diseases of different species GPC-6.2 Has the skills to diagnose non- contagious, infectious and parasitic diseases, identify pathogens of infectious and parasitic diseases in animals GPC-6.3 Knows the patterns of occurrence and spread of diseases in animal populations, factors predisposing to diseases and causes of possible complications
GPC-7	The ability to understand the principles of operation of modern information technologies and use them to solve problems of professional activity.	 GPC-7.1 Understands the principles of operation of modern computer equipment and telecommunications and knows how to use them to solve professional problems GPC-7.2 Uses modern special software and specialized databases to solve professional problems and perform job duties GPC-7.3 Has the skills to work on modern medical diagnostic and treatment equipment with software GPC-7.4 Uses specialized databases to

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		solve professional problems in the field of diagnostics and treatment of animals of various species GPC-7.5 Uses geographic information
		systems and software systems in the
		collection and analysis of information
		related to the assessment of the spread of
		infectious diseases, epizootic situations,
		planning and evaluating the effectiveness
		of anti-epizootic measures
PC-1	The ability to collect an	PC-1.1 Collects anamnesis of the animal's
	anamnesis of the life and illness	life, information about routine
	of animals to identify the causes	vaccinations, deworming and other
	of diseases and their nature	preventive treatments.
		PC-1.2 Collects information about previous
		diseases, surgical interventions, current
		chronic diseases and ongoing therapy for
		these diseases.
		PC-1.3 Collects information about the
		change in the state of the animal during the
		course of the disease, the diagnostic and
		therapeutic measures taken, the medicines
		used and the methods of physiotherapy.
PC-2	The ability to conduct a general	PC-2.1 Complies with the technique and
	clinical study of animals in order	procedure for conducting a clinical
	to establish a preliminary	examination, taking into account the type
	diagnosis and determine a	of animal and its condition.
	further research program, as well	PC-2.2 Highlights signs (symptoms) of
	as in accordance with the plan of	deviations from normal function,
	anti-epizootic measures, the plan	recognizes standard combinations of signs
	for the prevention of non- communicable animal diseases	(syndromes). PC-2.3 Records the results of the
	communicable animai diseases	examination in the patient's record / other
		medical documents
		PC-2.4 Able to assess the primary degree
		of manifestation of clinical symptoms and
		their change during the patient's curation
PC-3	The ability to plan measures for	PC-3.1 Systematizes information about the
	the differential diagnosis of	symptoms / syndromes of the disease in a
	diseases in a patient.	patient, forms a set of preliminary
	1	diagnoses for their further confirmation or
		refutation.
		PC-3.2 Uses a ready-made or compiles a
		unique algorithm for differential diagnosis,
		taking into account the capabilities of a
		medical institution.
		PC-3.3 Uses the information obtained as a
		result of diagnostic measures to make the
		final diagnosis (diagnoses) and correct the
		diagnoses, if necessary.
PC-4	The ability to carry out the	PC-4.1 Knows modern methods of
i i i i i i i i i i i i i i i i i i i	necessary laboratory diagnostics	laboratory diagnostics, their purpose,

	as part of preventive or diagnostic measures.	features of preanalytics and interpretation of results.
		PC-4.2 Selects the necessary type of
		laboratory diagnostics to solve the task,
		taking into account the knowledge of basic
		biological disciplines.
		PC-4.3 Able to conduct laboratory tests
		using modern diagnostic equipment.
		PC-4.4 Interprets the diagnostic results and uses them to solve the task.
PC-5	The ability and willingness to	PC-5.1 Has knowledge of modern methods
	plan and conduct the necessary	of instrumental diagnostics, features of
	types of instrumental diagnostics	their use, indications, possible
	of the patient's condition	complications and contraindications to their
	of the putent's condition	use.
		PC-5.2 Selects the necessary and sufficient
		set of instrumental diagnostic methods to
		solve the problem.
		PC-5.3 Able to carry out instrumental
		diagnostics of diseases in animals.
		PC-5.4 Interprets the diagnostic results and
		uses them to solve the task.
PC-6	The ability, based on data	PC-6.1 Has knowledge about the features
	from clinical, laboratory and	of the manifestation of infectious, parasitic,
	instrumental diagnostics, as well	internal non-contagious, surgical,
	as additional diagnostic	gynecological and other diseases of
	methods, to make a diagnosis	animals of various species.
	and predict the course and	PC-6.2 Owns methods of making a
	spread of the disease.	complex diagnosis, taking into account the
		results of anamnesis, clinical, laboratory
		and instrumental studies.
		PC-6.3 Owns methods for predicting the
		course and outcome of treatment of the
		underlying disease based on a complex of
		concomitant diagnoses and factors
		complicating the patient's condition.
		PC-6.4 Owns methods for assessing the
		risks of the spread of a detected disease.
PC-7	The ability to choose or develop	PC-7.1 Able to select drugs necessary for
	a treatment plan for the patient	the treatment of animals, guided by the
	based on the diagnosis	principles of evidence-based medicine,
		taking into account the cumulative
		pharmacological effect of all prescribed
		drugs on the body.
		PC-7.2 Able to choose the best way to
		administer the drug, calculate the dose and
		frequency of administration, the duration of
		the course of each drug
		PC-7.3 Able to choose non-drug, including
		physiotherapeutic, methods of influencing
		the body of a sick animal that contribute to
		its recovery and apply them to treat a

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		patient. PC-7.4 Able to draw up a treatment plan for the patient, select criteria for monitoring its effectiveness and options for changing the treatment plan in the absence of the effectiveness of the selected treatment methods
PC-8	Coordinates the treatment plan with the owner of the animal and other participants in the treatment process, if necessary, corrects it during the treatment process and coordinates the changes with the owner of the animal.	 PC-8.1 Able to explain the selected treatment plan to the owner of the animal, obtain his consent and readiness to invest his resources in the treatment of the pet. PC-8.2 Ready to communicate with the owner of the patient about changes in his condition that occurred during treatment, about compliance with the prescribed therapy and the correspondence between the forecasts and the actual results of the patient's treatment. PC-8.3 Ready to explain to the owner and medical staff the fact of correcting the prescribed treatment in case of changes in the patient's condition.
PC-9	The ability to use methods of operative surgery in the course of prevention, diagnosis and treatment of animal diseases.	 PC-9.1 Selects the necessary method of surgical intervention, if necessary - including methods of anesthesia. PC-9.2 Plans preoperative preparation, course of surgical intervention, management of the early postoperative period, prevention of complications. PC-9.3 Able to independently perform basic preventive, diagnostic and therapeutic surgical interventions (including punctures, soft tissue necrectomy, tail amputation, castration of males and females, dehornization, diagnostic laparotomy, etc.) PC-9.4 Controls the result of surgery.
PC-10	The ability to analyze and adjust the feeding of animals to improve the effectiveness of the treatment process, prescribe therapeutic diets.	 PC-10.1 Able to analyze the patient's diet in order to identify factors predisposing to the development of diseases. PC-10.2 Able to justify the appointment of special feeding to an animal for therapeutic purposes in various diseases PC-10.3 Able to recommend the approximate composition of therapeutic diets, the desired ratio of nutrients, the presence of special additives and components that enhance the therapeutic effect of the diet PC-10.4 Able to use special programs and databases for the selection of industrial therapeutic diets and dietary supplements, as well as for the preparation of individual

		therapeutic diets for animals of various species.
PC-11	The ability to develop an annual plan for anti-epizootic measures,	PC-11.1 Able to conduct an epizootological survey of an organization, territory
	a plan for the prevention of non- communicable animal diseases, a plan for veterinary and sanitary measures, incl. a plan for preventive immunizations (vaccinations) and therapeutic and prophylactic treatments.	 PC-11.2 Able to develop an annual plan for anti-epizootic and anti-parasitic measures, a plan for the prevention of non-communicable animal diseases, a plan for veterinary and sanitary measures PC-11.3 Able to draw up individual and group plans for preventive immunizations (vaccinations) taking into account the epizootic situation in the territory where the animals are staying, the plan of anti-epizootic measures, as well as state and regional veterinary and sanitary rules and requirements PC-11.4 Able to organize therapeutic and prophylactic treatment of animals in accordance with the plan of anti-epizootic measures, and also, if necessary, taking into account the real epizootic situation in the places where animals are located, incl. in the conditions of agricultural production PC-11.5 Able to analyze the completeness and effectiveness of measures for the prevention of animal diseases in order to in the places where animal diseases in order to in the places where animal and animal diseases in order to in the places where animal and and animal diseases in order to in the places where animal and and animal diseases in order to in the places where animal and animal and and animal diseases in order to in the places where animal animal diseases in order to in the places where animal animal and animal animal and animal diseases in order to in the places where animal diseases in order to in the places where animal diseases in order to in the places where animal diseases in order to in the places where animal diseases in order to in the places where animal diseases in order to in the places where animal animal diseases in order to in the places and effectivenes and animal diseases in order to in the places and place
PC-12	The ability to organize and conduct medical examinations in animals, both general and specialized.	 improve them PC-12.1 Able to draw up a plan for the medical examination of animals, general or specialized, taking into account their types and purpose PC-12.2 Able to organize and conduct medical examinations according to the plan PC-12.3 Able, based on the results of medical examination, to give recommendations on the implementation of preventive and therapeutic and therapeutic measures aimed at improving the health of a group of animals
PC-13	The ability to perform a post- mortem diagnostic study of animals in order to establish pathological processes, diseases, causes of death.	 PC-13.1 Able to conduct a general examination of animal corpses before autopsy PC-13.2 Capable of performing an autopsy of animal corpses using special tools and observing safety requirements PC-13.3 Able to establish the cause of death and pathoanatomical diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases PC-13.4 Able to document the results of

		the post-mortem diagnostic examination of the animal in the autopsy protocol
PC-14	Willingness to promote veterinary knowledge, including in the field of animal disease prevention.	 PC-14.1 Is able to analyze problems leading to a violation of the health and welfare of animals, on the basis of this, set goals in the field of promotion of veterinary knowledge, plan a strategy and tactics for upcoming events PC-14.2 Able to use computer and telecommunication facilities for the preparation and demonstration of materials used in the process of promotion of veterinary knowledge PC-14.3 Able to conduct conversations, lectures, seminars for employees of the organization in order to explain the principles of work on the prevention of animal diseases

3. INTERNSHIP IN HIGHER EDUCATION PROGRAMME STRUCTURE

The internship refers to the corecomponent of (B2) block of the higher educational programme curriculum.

The core component includes all introductory field internships, the variable component includes all advanced field internships, except for research and pre-graduate types of the internship. The elective module includes all research and pre-graduation types of the internship (if any).

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

Competence code	Competence descriptor	Previous disciplines/modules, practices	Subsequent courses/modules, internships*
GPC-1	The ability to determine the biological status and normative clinical indicators of organs and systems of the animal body.	Animal anatomy Animal physiology pathological physiology Clinical diagnostics Clinical laboratory diagnostics Laboratory diagnostics of infectious and parasitic diseases	
		Operative surgery with topographic anatomy	

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

GPC-2	The ability to interpret and evaluate in professional activities the impact on the physiological state of the animal organism of natural, socio-economic, genetic and economic factors.	Biology with the basics of ecology General and veterinary ecology Veterinary genetics Animal health and welfare Course work Animal health and welfare Breeding with the basics of private zootechnics Feeding animals with the basics of feed production animal health Space technologies in the service of the agro- industrial complex	
GPC-3	Able to carry out and improve professional activities in accordance with regulatory legal acts in the field of agro-industrial complex	Law science Organization of veterinary business	
GPC-4	The ability to use in professional activities methods of solving problems using modern equipment in the development of new technologies and use modern professional methodology to conduct experimental studies and interpret their results.	MathematicsInorganicandAnalytical ChemistryOrganic chemistryPhysical and colloidalchemistrybiological chemistrybiological chemistrybiological physicsImmunologyVeterinaryandmanufacturinglaboratorieswithdesign basics	
GPC-5	The ability to draw up special documentation, analyze the results of professional activities and submit reporting documents using specialized databases.	Organization of veterinary business in Biometrics in veterinary medicine In Latin language In	

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GPC-6	The ability to analyze,	Veterinary genetics	
	identify and carry out risk	Breeding with the	
	assessment of the risk of	basics of private	
	occurrence and spread of	zootechnics	
	diseases.	Animal health and	
		welfare	
		pathological	
		physiology	
		Epizootology and	
		infectious diseases	
		animal health	
		Veterinary and	
		sanitary examination	
		Technology of	
		processing livestock	
		products	
GPC-7	Able to understand the	Computer science	
	principles of operation of	Instrumental	
	modern information	diagnostics	
	technologies and use them	Biometrics in	
	to solve problems of	veterinary medicine	
	professional activity.	Organization of state	
		veterinary supervision	
PC-1	The ability to collect an	Clinical diagnostics	
	anamnesis of the life and	Equine diseases	
	illness of animals to	Diseases of productive	
	identify the causes of	animals	
	diseases and their nature	Diseases of small	
		animals	
		Diseases of small pets	
		Diseases of bees and	
		entomophages	
		Fish pathology and	
		aquaculture	
		Diseases of exotic	
		animals	
PC-2	Ability to conduct a	Clinical diagnostics	
	general clinical study of	Equine diseases	
	animals in order to	Diseases of productive	
	establish a preliminary	animals	
	diagnosis and determine a	Diseases of small	
	further research program,	animals	
	as well as in accordance	Diseases of small pets	
	with the plan of anti-	Diseases of bees and	
	epizootic measures, the	entomophages	
	plan for the prevention of	Fish pathology and	
	non-communicable animal	aquaculture	
	diseases	Diseases of exotic	
		animals	
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PC-3	The ability to plan	Obstetrics, gynecology	
	measures for the	and andrology	
	differential diagnosis of	Internal non-	
	diseases in a patient.	communicable	
		diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
PC-4	The ability to carry out the	Biology with the	
	necessary laboratory	basics of ecology	
	diagnostics as part of	Cytology, histology	
	preventive or diagnostic	and embryology	
	measures.	Clinical laboratory	
		diagnostics	
		Laboratory diagnostics of infectious and	
PC-5	Ability and willingness to	parasitic diseases Animal anatomy	
10-5	plan and conduct the	Instrumental	
	-	diagnostic methods	
	necessary types of instrumental diagnostics of	Anesthesiology,	
	the patient's condition	resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
		Annual Denusu y	

PC-6	The ability, based on	Epizootology and	
	data from clinical,	infectious diseases	
	laboratory and	Obstetrics, gynecology	
	instrumental diagnostics,	and andrology	
	as well as additional	Internal non-	
	diagnostic methods, to	communicable	
	make a diagnosis and	diseases	
	predict the course and	general surgery	
	spread of the disease.	Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		pathological anatomy	
PC-7	Ability to choose or	Pharmacology	
	develop a treatment plan	Toxicology	
	for the patient based on the	Diseases	
	diagnosis	Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
PC-8	Coordinates the treatment	Veterinary deontology	
	plan with the owner of the		
	animal and other		
	participants in the		
	treatment process, if		
	necessary, corrects it		
	during the treatment		
	process and coordinates the		
	changes with the owner of		
	the animal.		
PC-9	Ability to use methods of	Operative surgery	
	operative surgery in the	Private surgery	
	course of prevention,	Reconstructive surgery	
	diagnosis and treatment of	Veterinary	
	animal diseases.	ophthalmology	
		Veterinary dentistry	
		Veterinary	
		anesthesiology	
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PC-10	The ability to analyze and adjust the feeding of animals to improve the effectiveness of the treatment process, prescribe therapeutic diets.	Medicinalandpoisonous plantsfodder plantsfodder plantsFeeding animals withthe basics of feedproductionEquine diseasesDiseases of productiveanimalsDiseases of productiveDiseases of smallanimalsDiseases of small petsDiseases of bees andentomophagesFish pathology andaquacultureDiseases of exoticanimalsDiseases of exotic	
PC-11	Ability to develop an annual plan for anti- epizootic measures, a plan for the prevention of non- communicable animal diseases, a plan for veterinary and sanitary measures, incl. a plan for preventive immunizations (vaccinations) and therapeutic and prophylactic treatments.	Epizootology and infectious diseases Veterinary sanitation Organization of veterinary business Organization of state veterinary supervision	
PC-12	The ability to organize and conduct medical examinations in animals, both general and specialized.	Obstetrics, gynecology and andrology Internal non- communicable diseases general surgery Private Veterinary Surgery Parasitology and invasive diseases	
PC-13	The ability to perform a post-mortem diagnostic study of animals in order to establish pathological processes, diseases, causes of death.	pathological anatomy Forensic veterinary and autopsy	

PC-14	Willingness to promote veterinary knowledge, including in the field of	Coursework Animal
	animal disease prevention.	Animal health and welfare Zoopsychology

4. INTERNSHIP WORKLOAD

The total workload of "General Professional Practice" is 12credits (432 academic hours).

5. INTERNSHIP CONTENTS

Modules	Contents (topics, types of practical activities)	Workload, academic hours
Module 1. General professional practice	Participation in the clinical reception and treatment of animals, surgical operations, mass research, etc.	194
	Participation in laboratory, visual, pathoanatomical diagnostics of animal diseases	194
	Filling out a practice diary	26
Writing an internship report	9	
Preparing for defence and def	9	
	TOTAL:	432

*Table 5.1. Internship contents**

* The contents of internship through modules and types of practical activities shall be <u>FULLY</u> reflected in the student's internship report.

6. INTERNSHIP EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

The infrastructure and technical support necessary for the internship implementation include: laboratories/ specially equipped classrooms/ polygons/ measuring and computing complexes/ vehicles/ industrial equipment and devices/ household premises that comply with current sanitary and fire safety standards.

The <u>SAFETY REQUIREMENTS</u> at the enterprise, workplace (including the department of RUDN University) and during the work with certain production/laboratory equipment incorporate/ include the following:

- Equipped workplaces based on practice;
- Equipment:

- Means of immobilization and fixation of animals (looms, boosters, collars, yawners, etc.)

- Clinical diagnostic tools (stethoscopes, percussion hammers and plessimeters, electric flashlights, etc.)

- Equipment for visual diagnostics (ultrasound scanners, x-ray machines, arthroscopes, endoscopes, CT and MRI machines, etc.)

- Laboratory equipment (microscopes, centrifuges, analyzers, etc.)

- Anesthesia equipment

- Surgical equipment, etc.

7. INTERNSHIP LOCATION AND TIMELINE

The internship can be carried out at the structural divisions of RUDN University (at Moscow-based organisations, as well as those located outside Moscow.

The internship at an external organisation (outside RUDN University) is legally arranged on the grounds of an appropriate agreement, which specifies the terms, place and conditions for an internship implementation at the organisation.

The period of the internship, as a rule, corresponds to the period indicated in the training calendar of the higher education programme. However, the period of the internship can be rescheduled upon the agreement with the Department of Educational Policy and the Department for the Organization of Internship and Employment of RUDN students.

8. RESOURCES RECOMMENDED FOR INTERNSHIP

Main reading:

 Obstetrics, gynecology and biotechnology of animal reproduction: textbook / A.
 P. Studentsov, V. S. Shipilov, V. Ya. Nikitin [and others]; edited by G. P. Dyulger.
 10th ed., erased. - St. Petersburg: Lan, 2020. - 548 p. 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 and practical classes and independent work: study guide 2019.-90s. https://e.lanbook.com/book/113386

3. Baymishev, Kh. B. Gynecology and andrology: guidelines / Kh. B. Baymishev. - Samara : SamGAU, 2018. - 106 p. https://e.lanbook.com/book/109422

4. Workshop on internal animal diseases: textbook / G. G. Shcherbakov, A. V. Yashin, A. P. Kurdeko [and others]; under the general editorship of G. G. Shcherbakov [and others]. - 3rd ed., erased. - St. Petersburg: Lan, 2020. - 544 p. https://e.lanbook.com/book/139263

5. Nechaev, A. V. Internal non-communicable diseases: textbook / A. V. Nechaev, Yu. A. Kurlykova. - Samara: SamGAU, 2020 - Part 1: General prevention and therapy - 2020. - 122 p. https://e.lanbook.com/book/158657

6. Dyulger, G. P. Fundamentals of veterinary science: a textbook for universities / G. P. Dyulger, G. P. Tabakov. - 3rd ed., erased. - St. Petersburg: Lan, 2020. - 476

p. https://e.lanbook.com/book/146658

7. Epizootology with microbiology: textbook / A.S. Aliev, Yu.Yu. Danko, I.D. Yeshchenko [i dr.]; Ed. V.A. Kuzmin. - 2nd ed., erased. - St. Petersburg: Publishing house "Lan", 2017. - 432 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465028&idb=0

8. Sidorchuk, A. A. General epizootology: a textbook for universities / A. A. Sidorchuk, V. A. Kuzmin, S. V. Alekseeva. - 2nd ed., erased. - St. Petersburg: Lan, 2021. - 248 p. https://e.lanbook.com/book/156931

9. Epizootology with microbiology: a textbook for universities / A. S. Aliev, Yu. Yu. Danko, I. D. Yeshchenko [and others]; Edited by V. A. Kuzmin, A. V. Svyatkovsky. - 6th, erased. - St. Petersburg: Lan, 2021. - 432 p. 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 State Agrarian University, 2020. - 52 p. https://e.lanbook.com/book/136157

11. Operative surgery in animals: a textbook for universities / B. S. Semenov, V. N. Videnin, A. Yu. Nechaev [and others]. - St. Petersburg: Lan, 2020. - 704 p. https://e.lanbook.com/book/162365

12. Skubko, O. R. Methods of lectures of the academic discipline B1.B.23 "Operative surgery with topographic anatomy": a textbook / O. R. Skubko, G. A. Khonin, O. N. Shushakova. - Omsk: Omsk State Agrarian University, 2019. - 65 p. https://e.lanbook.com/book/126630

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20. Nikitin, I. N. Veterinary clinic: textbook for universities / I. N. Nikitin, V. V. Ivanov, E. N. Trofimova. - 2nd, erased. - St. Petersburg: Lan, 2021. - 184 p. <u>https://e.lanbook.com/book/162385</u>

Additional reading:

- Obstetrics, gynecology and biotechnology of animal reproduction: textbook / A. P. Studentsov, V. S. Shipilov, V. Ya. Nikitin [and others]; edited by G. P. Dyulger. - 10th ed., erased. - St. Petersburg: Lan, 2020. -548 p. https://e.lanbook.com/book/129090
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- 5. S. Nechaev, A. V. Internal non-communicable diseases: textbook / A. V. Nechaev, Yu. A. Kurlykova. - Samara: SamGAU, 2020 - Part 1: General prevention and therapy - 2020. - 122 p. https://e.lanbook.com/book/158657
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- 7. Epizootology with microbiology: textbook / A.S. Aliev, Yu.Yu. Danko, I.D. Yeshchenko [i dr.]; Ed. V.A. Kuzmin. - 2nd ed., erased. - St. Petersburg: Publishing house "Lan", 2017. - 432 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=4650 28&idb=0
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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" <u>http://e.lanbook.com/</u>

- EL "Trinity Bridge"

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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 <u>https://www.google.ru/</u>

- Scopus abstract database http://www.elsevierscience.ru/products/scopus/

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The training toolkit and guidelines for a student to do an internship, keep an internship diary and write an internship report*:

1. Safety regulations to do the internship (safety awareness briefing).

2. Machinery and principles of operation of technological production equipment used by students during their internship; process flow charts, regulations, etc. (if necessary).

3. Guidelines for keeping an internship diary and writing an internship report.

*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 INTERNSHIP RESULTS

The assessment toolkit and the grading system^{*} to evaluate the level of competences (competences in part) formation as the internship results are specified in the Appendix to the internship 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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