Federal State Autonomous Educational Institution for Higher Education PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA

Agrarian and Technological Institute

WORKING COURSE SYLLABUS

Reconstructive surgery

Recommended by the Methodological Council for the Education Field:

36.05.01 Veterinary medicine

2022

1. GOALS AND OBJECTIVES OF THE DISCIPLINE

The aim of mastering the discipline "**Reconstructive surgery**" is to provide students with theoretical knowledge, practical skills and skills in the diagnosis and surgical treatment of complex defects requiring reconstruction.

2. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The development of the discipline "**Reconstructive surgery**" 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 discipline (results of the development of the discipline)

Code	**Competence**	**Indicators of competence accomplishment** (within the discipline)
UK-1	The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of action.	UK-1.1 Analyzes the task, highlighting its basic components;
		UK-1.2 Defines and ranks the information required to solve the task;
		UK -1.3 Searches for information to solve the task by various types of queries;
		UK-1.4 Offers solutions to the problem, analyzes the possible consequences of their use;
		UK -1.5 Analyzes the ways of solving problems of a philosophical, moral and personal nature based on the use of basic philosophical ideas and categories in their historical development and socio-cultural context.
UK -6	The ability to determine and implement the priorities of one's own activity and ways to improve it based on self-assessment and lifelong education.	UK-6.1 Controls the amount of time spent on specific activities;
		UK-6.2 Develops tools and methods of time management when performing specific tasks, projects, goals;
		UK -6.3 Analyzes its resources and their limits (personal, situational, temporary, etc.), for the successful completion of the task;
		UK -6.4 Finds and uses sources of additional information to increase the level of general and professional knowledge;
		UK -6.5 Analyzes the main opportunities and tools of continuing education in relation to their own interests and needs,

		taking into account the conditions, means, personal capabilities, stages of career growth, time prospects for the development of activities and the requirements of the labor market;
		UK -6.6 Defines the tasks of self-development, goals and priorities of professional growth;
		UK -6.7 Distributes tasks into long-, medium- and short-term ones with justification of relevance and analysis of resources for their implementation.
GPC -4	The ability to use methods of solving problems using modern equipment in the development of new technologies in professional activity and to use modern professional methodology for conducting experimental research and interpreting their results.	GPC-4.1 Possesses the conceptual and methodological apparatus of basic natural sciences at a level sufficient for full-fledged professional activity at the modern level.
		GPC-4.2 He knows the methods of solving problems using modern equipment.
		GPC-4.3 He is ready to use modern methodology in the development and conduct of experimental research.
		GPC-4.4 Uses modern professional methodology in interpreting research results.
GPC -7	He is able to understand the principles of modern information technologies and use them to solve the tasks of professional activity.	GPC-7.1 Understands the principles of modern computer technology and telecommunications and is able to use them to solve professional problems;
		GPC-7.2 Uses modern special software and specialized databases to solve professional tasks and perform official duties;
		GPC-7.3 Has the skills to work on modern medical diagnostic and therapeutic equipment with software;
		GPC-7.4 Uses specialized databases to solve professional problems in the field of diagnostics and treatment of animals of various species;
		GPC-7.5 Uses geoinformation systems and software complexes when collecting and analyzing 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 anamnesis of life and disease of animals to identify the causes of diseases and their nature.	PC -1.1 He is able to collect an anamnesis of the animal's life and reflect this in the relevant service documentation.
		PC-1.2 He is able to collect the anamnesis of the animal's disease and reflect it in the patient's medical history.
		PC-1.3 He is able to identify possible causes of the disease in an animal, factors predisposing to the disease and concomitant conditions affecting the nature of the course of the disease and use this information when making a diagnosis.
PC -3	Ability to develop animal research programs using special (instrumental) and laboratory methods.	PC-3.1 He is able to develop individual animal research programs, including the use of special (instrumental) and laboratory methods to detect deviations from the physiological norm of the state of a living organism, conduct differential diagnosis of the detected pathology or control the course of the disease and the effectiveness of the prescribed treatment.
		PC-3.2 Capable of developing mass comprehensive animal research programs (medical examination programs) of animals, taking into account their type and purpose, both general and special.
PC -5	The ability to make a diagnosis based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods.	PC-5.1 He is able to diagnose patients of various types based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods.
		PC -5.2 He is able to predict the risks of diseases based on anamnestic data, the results of general, special (instrumental) and laboratory studies.
PC -6	The ability to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals.	PC-6.1 Able to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals.
		PC-6.2 He is able to develop recommendations on therapeutic and preventive manipulations to prevent diseases, the high probability of which was revealed during the study of the patient.

		PC-6.3 He is able to develop recommendations for carrying out preventive and curative measures based on the results of the examination of animals carried out as part of the medical examination.
PC -8	Ability to choose methods of non-drug therapy, including physiotherapy methods for the treatment of animals.	PC-8.1 He is able to choose and justify his choice of methods of non-drug therapy, including physiotherapy methods, for the treatment of animals;
		PC-8.2 He is able to evaluate the effectiveness of the chosen method in the treatment of the patient and, if necessary, adjust the treatment method or change the chosen method to another one.
PC -9	The ability to carry out therapeutic, including physiotherapy procedures using special equipment in compliance with safety rules.	PC-9.1 Able to carry out therapeutic, including physiotherapy, procedures using special equipment in compliance with safety rules;
		PC -9.2 He is able to take into account the species, age and individual characteristics of animals undergoing treatment using special equipment, choose acceptable methods of fixing the patient during the procedure, the conditions of the procedures and their duration.
PC -10	The ability to determine the need for the use of surgical methods in the treatment of animals.	PC-10.1 Able to determine the need for the use of surgical methods in the treatment of animals;
		PC-10.2 Able to choose the optimal surgical method for the patient, taking into account the external conditions and the status of the patient's body, and if necessary, several manipulations - their order and time distribution;
		PC-10.3 He is able to take into account the risks and possible complications accompanying surgical interventions and take measures to prevent them.
PC -11	Ability to develop a surgical operation plan, including the choice of analgesia method	PC-11.1 Able to develop a surgical operation plan;
		PC-11.2 He is able to choose and justify the optimal variant of anesthesia of the patient during surgery and in the postoperative period.
PC -12	The ability to perform surgical intervention in the body of	PC-12.1 He is able to prepare the premises, equipment and consumables

	animals in the treatment of various diseases, castration, sterilization, for cosmetic purposes.	necessary for surgical intervention, taking into account the requirements of asepsis and antiseptics.
		PC-12.2 He is able to prepare the operating team for surgical intervention, taking into account the requirements of asepsis and antiseptics.
		PC-12.3 He is able to prepare the patient for surgical intervention, taking into account the requirements of asepsis and antiseptics.
		PC-12.4 He is able to assist the operating surgeon during surgical interventions.
		PC-12.5 He is capable of carrying out preventive and economic operations (including castration, dehydration, etc.) in farm animals and companion animals.
		PC-12.6 He is capable of independently performing diagnostic and therapeutic operations in animals of different species, taking into account the species, age and individual characteristics of patients.
PC -14	The ability to conduct repeated examinations and studies of animals to assess the effectiveness and safety of the prescribed treatment and adjust the treatment plan of animals (if necessary) based on the results of the evaluation of the effectiveness of treatment.	PC-14.1 He is able to develop a plan of repeated studies necessary and sufficient to assess the predicted changes in the patient's health.
		PC-14.2 Able to conduct a repeated clinical examination, taking into account the specifics of diseases previously diagnosed in the patient.
		PC-14.3 Able to carry out the necessary repeated instrumental and laboratory tests.
		PC-14.4 He is able to analyze the identified changes, evaluate the effectiveness of the treatment and, if necessary, correct the prescribed course of treatment.
PC -24	Ability and willingness to promote veterinary knowledge, including in the field of prevention of animal diseases.	PC-24.1 He is able to set goals in the field of veterinary knowledge promotion, plan the strategy and tactics of upcoming events.
		PC-24.2 He is able to use computer and telecommunication facilities for the preparation and demonstration of materials used in the process of promoting veterinary knowledge.

		PC-24.3 He is 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. COURSE IN HIGHER EDUCATION

The discipline "**Reconstructive surgery**" belongs to the part formed by the participants of educational relations of the block B1 of the Educational Program of Higher Education.

As part of the Educational Program of Higher Education, students also master other disciplines and /or practices that contribute to achieving the planned results of mastering the discipline "**Reconstructive surgery**".

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

Competence code	**Competence**	**Previous Disciplines (Modules)**	**Subsequent Disciplines (Modules)**
UK-1	The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of action.	History Philosophy Life safety Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Veterinary and sanitary examination Organization of veterinary business Mathematics Fundamentals of Economics and Management Veterinary deontology Fundamentals of intellectual work	-

		Zoopsychology Organization of state veterinary supervision Career Management Space technologies in the service of the agro-industrial complex	
UK -6	The ability to determine and implement the priorities of one's own activity and ways to improve it based on self-assessment and lifelong education.	Philosophy Internal non-infectious diseases General surgery Private Veterinary surgery Epizootology and infectious diseases Organization of veterinary business Mathematics Introduction to the specialty Veterinary deontology Fundamentals of intellectual work Personality psychology and professional self-determination Career Management Fundamentals of social and legal knowledge	-
GPC -4	The ability to use methods of solving problems using modern equipment in the development of new technologies in professional activity and to use modern professional methodology for conducting experimental research and interpreting their results.	Inorganic and analytical chemistry Organic Chemistry Biological physics Computer science Physical and colloidal chemistry Cytology, histology and embryology Biological chemistry Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Breeding with the basics of private animal husbandry	Veterinary Ophthalmology Animal Dentistry

		Pathological physiology Veterinary Radiobiology Clinical diagnosis Pathological anatomy Operative surgery with topographic anatomy Instrumental diagnostic methods Toxicology Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Mathematics Immunology Veterinary sanitation Technology of processing livestock products Medicinal and poisonous plants Forage plants Fundamentals of intellectual work Personality psychology and professional self-determination Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Bee diseases and entomophages Fish pathology and	

		aquaculture Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology	
GPC -7	He is able to understand the principles of modern information technologies and use them to solve the tasks of professional activity.	Computer science Instrumental diagnostic methods Organization of veterinary business Mathematics Fundamentals of intellectual work Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Veterinary and industrial laboratories with the basics of design Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology	-
PC -1	The ability to collect anamnesis of life and disease of animals to identify the causes of diseases and their nature.	Veterinary genetics Physiology and ethology of animals Breeding with the basics of private animal husbandry Animal health and welfare Feeding animals with the basics of feed production Clinical diagnosis Toxicology Obstetrics, gynecology and andrology	Veterinary Ophthalmology Animal Dentistry

		Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Fundamentals of rhetoric and communication Veterinary deontology Zoopsychology Animal Health Personality psychology and professional self-determination Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology	
PC -3	Ability to develop animal research programs using special (instrumental) and laboratory methods.	Animal anatomy Organic Chemistry Biological physics Physical and colloidal chemistry Biological chemistry Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Pathological physiology Clinical diagnosis Pathological anatomy Instrumental diagnostic	Veterinary Ophthalmology Animal Dentistry

		methods Toxicology Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Immunology Veterinary deontology Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Veterinary and industrial laboratories with the basics of design Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology	
PC -5	The ability to make a diagnosis based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods.	Veterinary genetics Cytology, histology and embryology Physiology and ethology of animals Breeding with the basics of private animal	Veterinary Ophthalmology Animal Dentistry

		husbandry Feeding animals with the basics of feed production Pathological physiology Clinical diagnosis Pathological anatomy Toxicology Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Forensic veterinary examination and autopsy of animals Zoopsychology Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology	
PC -6	The ability to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals.	Veterinary genetics Veterinary microbiology and mycology Virology and biotechnology Pathological physiology Veterinary	Veterinary Ophthalmology Animal Dentistry

		Pharmacology Toxicology Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Mathematics Immunology Zoopsychology Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology	
PC -8	Ability to choose methods of non-drug therapy, including physiotherapy methods for the treatment of animals.	Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Feeding animals with the basics of feed production Pathological physiology Veterinary Radiobiology Internal non-infectious diseases	Veterinary Ophthalmology Animal Dentistry

		General surgery Private Veterinary surgery Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology	
PC -9	The ability to carry out therapeutic, including physiotherapy procedures using special equipment in compliance with safety rules.	Animal anatomy Life safety Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Pathological physiology Veterinary Radiobiology General surgery Private Veterinary surgery Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology	Veterinary Ophthalmology Animal Dentistry
PC -10	The ability to determine the need for the use of surgical methods in the	Veterinary genetics Cytology, histology and embryology	Veterinary Ophthalmology Animal Dentistry

	treatment of animals.	Veterinary microbiology and mycology Physiology and ethology of animals Pathological physiology Clinical diagnosis Pathological anatomy Obstetrics, gynecology and andrology General surgery Private Veterinary surgery Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Dermatology Cardiology Endocrinology Nephrology	
PC -11	Ability to develop a surgical operation plan, including the choice of analgesia method	Animal anatomy Veterinary microbiology and mycology Physiology and ethology of animals Pathological physiology Veterinary Pharmacology Pathological anatomy Operative surgery with topographic anatomy Obstetrics, gynecology and andrology General surgery Private Veterinary surgery Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology	-
PC -12	The ability to perform surgical intervention in	Pathological anatomy Operative surgery with	-

	the body of animals in the treatment of various diseases, castration, sterilization, for cosmetic purposes.	topographic anatomy Obstetrics, gynecology and andrology	
PC -14	The ability to conduct repeated examinations and studies of animals to assess the effectiveness and safety of the prescribed treatment and adjust the treatment plan of animals (if necessary) based on the results of the evaluation of the effectiveness of treatment.	Cytology, histology and embryology Physiology and ethology of animals Pathological physiology Veterinary Pharmacology Clinical diagnosis Pathological anatomy Instrumental diagnostic methods Toxicology Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Clinical laboratory diagnostics Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology	Veterinary Ophthalmology Animal Dentistry
PC -24	Ability and willingness to promote veterinary knowledge, including in the field of prevention of	Physiology and ethology of animals Breeding with the basics of private animal	Veterinary Ophthalmology Animal Dentistry Foreign language for

	animal diseases.	husbandry Animal health and welfare Feeding animals with the basics of feed production Pathological physiology Pathological anatomy Toxicology Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Fundamentals of rhetoric and communication Introduction to the specialty General and veterinary ecology Veterinary sanitation Veterinary deontology Economics and organization of agricultural production Medicinal and poisonous plants Forage plants Zoopsychology Animal Health Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals	special purposes Russian for special purposes Foreign language. Translation of special texts Russian language. Translation of special texts Foreign language. Professional communications Russian language. Professional communications

		Dermatology Cardiology Endocrinology Nephrology	

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the discipline "**Reconstructive surgery**" is 2 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**			
			9	-	-	-
Contact academic hours		54	54	-	-	-
including						
Lectures		18	18	-	-	-
Lab work		36	36	-	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		10	10	-	-	-
Evaluation and assessment (exam/pass/fail grading)		8	8	-	-	-
Course workload	Academic hour	**72**	**72**	-	-	-
	Credit unit	**2**	**2**	-	-	-

*Table 4.2. Types of academic activities during the period of the HE program mastering for **part-time** study*

Types of academic activities		**HOURS**	**Semesters**			
			A	-	-	-
Contact academic hours		36	36	-	-	-
including						
Lectures		-	-	-	-	-
Lab work		36	36	-	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		62	62	-	-	-
Evaluation and assessment (exam/pass/fail grading)		10	10	-	-	-
Course workload	Academic hour	**108**	**108**	-	-	-
	Credit unit	**3**	**3**	-	-	-

5. CONTENT OF THE DISCIPLINE

Table 5.1 Content of the discipline (module) by type of academic work

Name of the discipline section	Content of the section (topics)	Types of academic activities
Section 1. Traumatology and orthopedics.	Topic 1.1 Classification of fractures.	Lectures, Lab work.
	Topic 1.2 Osteosynthesis.	Lectures, Lab work.
	Topic 1.3 Arthrodesis. Corrective osteotomy.	Lectures, Lab work.
Section 2. Thoracic and abdominal surgery.	Topic 2.1 Thoracic reconstructive surgery.	Lectures, Lab work.
	Topic 2.2 Abdominal reconstructive surgery.	Lectures, Lab work.
Section 3. Operations in the head and neck.	Topic 3.1 Reconstructive and reconstructive surgery of the facial part of the skull.	Lectures, Lab work.
	Topic 3.2 Reconstructive and reconstructive surgery of the cerebral part of the skull.	Lectures, Lab work.
	Topic 3.3 Reconstructive and reconstructive surgery in the neck.	Lectures, Lab work.
Section 4. Neurosurgery.	Topic 4.1 Methods of surgical treatment for injuries of the central and peripheral nervous system.	Lectures, Lab work.
		Lectures, Lab work.
		Lectures, Lab work.
Section 5. Plastic surgery.	Topic 5.1 Soft tissue surgery.	Lectures, Lab work.
	Topic 5.2 Plastic surgery in oncology.	Lectures, Lab work.
	Topic 5.3 Skin plastic surgery.	Lectures, Lab work.

6. CLASSROOM INFRASTRUCTURE AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Material and technical support of the discipline

Classroom for Academic Activity Type	*Equipping the classroom*	**Specialized educational/laboratory equipment, software and materials for the development of the discipline** (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.	*-Information stands* *-Surgical instruments*
Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	*-Information stands* *-Surgical instruments*
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. RECOMMENDED SOURCES FOR COURSE STUDIES

Main reading:

1. General veterinary surgery : textbook / S.V. Pozyabin, Yu.I. Filippov, N.A. Kozlov [et al.] ; under the general editorship of S.V. Pozyabin. - Moscow : Kolos-s, 2019. - 762 p.
2. Instruments and equipment of veterinary surgery. History and modernity : a textbook / N.V. Sakhno, Yu.A. Vatnikov, S.A. Yagnikov [et al.] ; under the general editorship of N.V. Sakhno. - St. Petersburg : Lan, 2021. - 152 p.

Additional Reading:

1. Tools and equipment in veterinary surgery. History and modernity [Electronic resource] : Textbook / N.V. Sakhno [et al.]; Under the general editorship of N.V. Sakhno. - St. Petersburg : Publishing House "Lan", 2017. - 152 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465007&idb=0
2. Videnin V.N. Surgical treatment of abdominal wall defects in animals [Electronic resource] : Textbook / V.N. Videnin, B.S. Semenov. - St. Petersburg : Publishing house "Lan", 2015. - 224 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465109&idb=0
3. Shakurov M.Sh. Fundamentals of general veterinary surgery [Electronic resource] : Textbook / M.Sh. Shakurov. - 2nd ed., erased. - St. Petersburg : Publishing House "Lan",

2016. - 252 p.
http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465067&idb=0

Resources of the Internet information and telecommunication network:

1. Electronic library system of RUDN and third-party Electronic library systems to which university students have access on the basis of concluded contracts:
- Electronic library system of RUDN - ELS RUDN http://lib.rudn.ru/MegaPro/Web
- ELS "University Library online"http://www.biblioclub.ru
- ELS Yurayt http://www.biblio-online.ru
- ELS "Student Consultant"www.studentlibrary.ru
- ELS "Lan"http://eZlanbook.com/
- ELS "Trinity Bridge"http://www.trmost.com/

2. Databases and search engines:
- electronic fund of legal and regulatory and technical documentation http://docs.cntd.ru/
- search engine Yandex https://www.yandex.ru/
- search engine Google https://www.google.ru/
- abstract database SCOPUS http://www.elsevierscience.ru/products/scopus/

Educational and methodological materials for independent work of students during the development of the discipline/ module*:

1. A course of lectures on the discipline "**Reconstructive surgery**".
2. Laboratory workshop on the discipline "**Reconstructive surgery**".

* - All educational and methodological materials for independent work of students are placed in accordance with the current procedure on the discipline page in the **Telecommunication educational and Information System!**

8. MID-TERM ASSESSMENT

Evaluation materials and a point-rating system* for assessing the level of competence formation (part of competencies) based on the results of mastering the discipline "**Reconstructive surgery**" are presented in the Appendix to this Work Program of the discipline.

* - Assessment Materials and a Point Rating System are formed based on the requirements of the relevant local regulatory act of the RUDN.

DEVELOPER:

Professor of the Department of Veterinary Medicine		Vatnikov Yu.A.
Position, Basic curriculum	Signature	Full name.

HEAD OF THE DEPARTMENT:

Department of Veterinary Medicine		Vatnikov Yu.A.
Name Basic Curriculum	Signature	Full name.

HEAD OF THE HIGHER EDUCATION PROGRAM:

Director of the Department of Veterinary Medicine		Vatnikov Yu.A.
Position, Basic curriculum	Signature	Full name