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

Agrarian and Technological Institute

WORKING COURSE SYLLABUS

Breeding with the basics of private animal husbandry

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 "**Breeding with the basics of private animal husbandry**" is the formation of theoretical and practical knowledge on the breeding of farm animals (the basics of breeding work) and the study of technology for obtaining products from various types of farm animals.

2. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The development of the discipline "**Breeding with the basics of private animal husbandry**" 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)
GPC-2	The ability to interpret and evaluate in professional activity the influence of natural, socio-economic, genetic and economic factors on the physiological state of the animal organism.	GPC-2.1 Has knowledge of the influence of natural, socio-economic, genetic and economic factors on the animal body.
		GPC-2.2 He is able to establish the presence and reliability of cause-and-effect relationships between the effects of certain etiological factors on the animal's body and the development of diseases.
		GPC-2.3 Possesses methods of preventive and curative correction of the effects of adverse environmental factors that can cause deterioration of animal health.
GPC-3	The ability to carry out and improve professional activities in accordance with regulatory legal acts in the field of agro-industrial complex.	GPC-3.1 He knows modern legal norms, both state and international, regulating activities in the field of veterinary medicine, veterinary and sanitary expertise and agro-industrial complex.
		GPC-3.2 Has the skills of updating legal information, including in the field of agro-industrial complex of professional orientation.
		GPC-3.3 Carries out activities in accordance with regulatory legal acts in the field of agriculture, as well as in the field of veterinary medicine and veterinary and sanitary expertise.

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 -5	The ability to draw up special documentation, analyze the results of professional activity and submit accounting documents using specialized databases.	GPC-5.1 Has the skills to search for the necessary forms of documentation on official websites and in specialized databases.
		GPC-5.2 Possesses professional terminology and skills in filling out analytical and reporting documents of a professional orientation.
		GPC-5.3 He is able to use specialized software to analyze the results of professional activity and compile accounting documentation.
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 -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 -16	Ability to organize organizational, technical, zootechnical and veterinary measures aimed at the prevention of non-communicable diseases in accordance with the plan for the prevention of non-communicable animal diseases	PC-16.1 He is able to assess the impact of animal housing and feeding conditions on their health as part of the implementation of action plans for the prevention of animal diseases
		PC-16.2 He is able to carry out veterinary quality control and procurement of animal feed in order to ensure their veterinary and sanitary safety as part of the implementation of action plans for the prevention of animal diseases
		PC-16.3 He is able to detect deviations from the plan of timing, types, quality of measures to prevent the occurrence of non-infectious animals
		PC-16.4 Take corrective measures to implement measures to prevent the occurrence of non-infectious animal diseases based on the results of control
		PC-16.5 Conduct conversations, lectures, seminars for employees of the organization in order to explain the principles of work on the prevention of animal diseases
PC -18	The ability to draw up a plan for the medical examination of animals, taking into account their types and purpose, to conduct medical examinations, to develop recommendations for carrying out preventive and curative measures based on the results of the examination of animals conducted as part of the medical examination	PC-18.1 He is able to make a plan for the medical examination of animals, general or specialized, taking into account their types and purpose
		PC-18.2 He is able to organize and conduct medical examination according to the drawn up plan
		PC-18.3 He is able, based on the results of medical examination, to give recommendations on the implementation of therapeutic and preventive and curative measures aimed at improving the health of a group of animals
PC -23	The ability to analyze the effectiveness of measures for the prevention of animal diseases in order to improve	PC-23.1 He is capable of collecting and analyzing information, including veterinary statistics data, necessary to assess the effectiveness of preventive

	them.	antiepizootic measures, prevention of non-infectious animal diseases, veterinary and sanitary measures.
		PC-23.2 Able to evaluate the effectiveness of preventive measures and methods of their implementation, including using special software.
		PC -23.3 He is able to make suggestions on the correction of measures for the prevention of animal diseases on the basis of the analysis carried out.
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 "**Breeding with the basics of private animal husbandry**" refers to the mandatory part of block B1 of the Educational Program of Higher Education.

As part of the Educational Program of Higher Education, students also master other disciplines and /or practices that contribute to achieving the planned results of mastering the discipline "**Breeding with the basics of private animal husbandry**".

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)**
GPC -2	The ability to interpret and evaluate in professional activity the influence of natural, socio-economic, genetic	Biology with the basics of ecology Veterinary genetics Veterinary microbiology and	Animal health and welfare Pathological physiology Veterinary

	and economic factors on the physiological state of the animal organism.	mycology Virology and biotechnology Physiology and ethology of animals	Radiobiology 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 Forensic veterinary examination and autopsy of animals Immunology General and veterinary ecology Veterinary sanitation 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 Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Veterinary Ophthalmology Animal Dentistry
GPC -3	The ability to carry out	Jurisprudence	Veterinary

	and improve professional activities in accordance with regulatory legal acts in the field of agro-industrial complex.	Life safety	Pharmacology Toxicology Parasitology and invasive diseases Epizootology and infectious diseases Organization of veterinary business General and veterinary ecology Veterinary sanitation Technology of processing livestock products Veterinary deontology Economics and organization of agricultural production Laboratory diagnostics of infectious and invasive diseases Organization of state veterinary supervision Veterinary and industrial laboratories with the basics of design 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	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 Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry
GPC -5	The ability to draw up	Veterinary genetics	Clinical diagnosis

	special documentation, analyze the results of professional activity and submit accounting documents using specialized databases.	Computer science	Pathological anatomy Operative surgery with topographic anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Internal non-infectious diseases Parasitology and invasive diseases Epizootology and infectious diseases Veterinary and sanitary examination Organization of veterinary business Forensic veterinary examination and autopsy of animals Veterinary deontology Economics and organization of agricultural production Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Organization of state veterinary supervision 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	Animal health and welfare Feeding animals with the basics of feed production Clinical diagnosis

			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 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 Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry
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	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 Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry
PC -16	Ability to organize organizational, technical, zootechnical and veterinary measures aimed at the prevention of non-communicable diseases in accordance with the plan for the prevention of non-	Veterinary genetics Life safety Physiology and ethology of animals	Animal health and welfare Feeding animals with the basics of feed production Obstetrics, gynecology and andrology Internal non-infectious diseases

	communicable animal diseases		General surgery Private Veterinary surgery Organization of veterinary business Fundamentals of Economics and Management 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 Veterinary Ophthalmology Animal Dentistry
PC -18	The ability to draw up a plan for the medical examination of animals, taking into account their types and purpose, to conduct medical examinations, to develop recommendations for carrying out preventive and curative measures based on the results of the examination of animals conducted as part of the medical examination	Veterinary genetics Physiology and ethology of animals	Animal health and welfare Feeding animals with the basics of feed production 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 Animal Health Clinical laboratory diagnostics Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Dermatology Cardiology Endocrinology Nephrology Veterinary Ophthalmology Animal Dentistry
PC -23	Ability to analyze the effectiveness of measures for the prevention of animal diseases in order to improve them	-	Animal health and welfare Toxicology 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 Forensic veterinary examination and autopsy of animals Fundamentals of Economics and Management Veterinary sanitation Economics and organization of agricultural production Animal Health Organization of state

			veterinary supervision Bee diseases and entomophages Fish pathology and aquaculture
PC -24	Ability and willingness to promote veterinary knowledge, including in the field of prevention of animal diseases	Physiology and ethology of animals	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 Dermatology Cardiology Endocrinology Nephrology Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry Foreign language for 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

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the discipline "**Breeding with the basics of private animal husbandry**" is 7 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			
		3	**4**	**-**	**-**
Contact academic hours	108	54	54	-	-
including					
Lectures	36	18	18	-	-
Lab work	72	36	36	-	-
Seminars (workshops/tutorials)	-	-	-	-	-
Self-study	124	116	8	-	-
Evaluation and assessment (exam/pass/fail	20	10	10	-	-

grading)						
Course workload	Academic hour	**252**	**180**	**72**	**-**	-
	Credit unit	**7**	**5**	**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**			
			4	**5**	**-**	**-**
Contact academic hours		72	36	36	-	-
including						
Lectures		36	18	18	-	-
Lab work		36	18	18	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		146	58	88	-	-
Evaluation and assessment (exam/pass/fail grading)		34	14	20	-	-
Course workload	Academic hour	**252**	**108**	**144**	**-**	-
	Credit unit	**7**	**3**	**4**	**-**	-

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. Introduction	Topic 1.1. The origin of animals, breeds and their breeding.	Lectures, Lab work.
Section 2. The origin of animal species.	Topic 2.1. The concept of wild, domestic, agricultural and domesticated animals.	Lectures, Lab work.
Section 3. Animal breeds.	Topic 3.1. Properties, structure and composition of rocks.	Lectures, Lab work.
	Topic 3.2. Factors causing the formation and variability in animals.	Lectures, Lab work.
	Topic 3.3. Acclimatization.	Lectures, Lab work.
Section 4. Constitution, exterior, interior.	Topic 4.1. Basic principles of classification of types of constitution. The connection of the constitution with various manifestations of the vital activity of the organism.	Lectures, Lab work.

	Topic 4.2. Methods of studying the exterior, interior. The use of interior indicators in breeding.	Lectures, Lab work.
Section 5. Individual development of animals.	Topic 5.1. Concepts of growth and development. Patterns of ontogenesis.	Lectures, Lab work.
	Topic 5.2. Embryonic and postembryonic development. Factors affecting growth and development. Control of the growth and development of animals.	Lectures, Lab work.
Section 6. Productivity of animals.	Topic 6.1. Evaluation of animals by productivity. Factors affecting productivity (heredity, environment, reproductive abilities, suitability for industrial technology).	Lectures, Lab work.
	Topic 6.2. Principles of assessing the productivity of different animal species. Assessment of own productivity.	Lectures, Lab work.
Section 7. Selection, forms and methods of selection.	Topic 7.1. The essence and signs of selection. Conditions affecting the effectiveness of selection.	Lectures, Lab work.
	Topic 7.2. Genetic basis of selection. Forms of selection. Selection by origin.	Lectures, Lab work.
	Topic 7.3. Pedigrees. Selection by the quality of offspring.	Lectures, Lab work.
Section 8. Selection of farm animals.	Topic 8.1. The concept, forms and methods of selection. Selection and selection is the basis of selection. Selection according to the compatibility of genotypes.	Lectures, Lab work.
	Topic 8.2. Heterosis: concept, theories, selection for heterosis. Importance in animal husbandry.	Lectures, Lab work.
Section 9. Methods of breeding farm animals.	Topic 9.1. Purebred breeding. Breeding by lines and families	Lectures, Lab work.
	Topic 9.2. Related mating (inbreeding). Interbreeding. Hybridization.	Lectures, Lab work.
Section 10. Selection and breeding work in animal husbandry.	Topic 10.1. Production of products in the conditions of specialization, concentration of production. Selection of breeds, acquisition of the herd.	Lectures, Lab work.
	Topic 10.2. The relationship of breeding and commercial animal husbandry. Planning of breeding work.	Lectures, Lab work.

	Topic 10.3. Large-scale breeding.	Lectures, Lab work.
Section 11. Cattle breeding.	Topic 11.1. Systems and methods of keeping cattle at different times of the year.	Lectures, Lab work.
	Topic 11.2. Reproduction of cattle. Reproductive and sexual cycles of a cow. The choice of animals in the state of hunting. Breeding and calving techniques.	Lectures, Lab work.
	Topic 11.3. Rearing of young animals. Cultivation of repair young animals.	Lectures, Lab work.
Section 12. Pig breeding.	Topic 12.1. Specialization and types of pig farms. Methods of keeping in relation to sex, age and technological groups of pigs.	Lectures, Lab work.
	Topic 12.2. Reproduction of pigs. Reproductive and sexual cycle of queens. Selection of animals that are in a state of hunting. Planning of farrowing. Preparation of animals for farrowing and its implementation.	Lectures, Lab work.
	Topic 12.3. Raising suckling pigs, piglets from weaning to fattening. Selection and introduction of repair young animals into the herd.	Lectures, Lab work.
Section 13. Sheep breeding.	Topic 13.1. Features of reproduction. Lambing season.	Lectures, Lab work.
	Topic 13.2. Reproduction of sheep. Methods of rearing young animals. Organization of weaning.	Lectures, Lab work.
	Topic 13.3. Formation of otar. Keeping sheep in summer and winter. Fattening, feeding sheep, organization of shearing.	Lectures, Lab work.
Section 14. Horse breeding.	Topic 14.1. Working qualities and their use.	Lectures, Lab work.
	Topic 14.2. Productive horse breeding. Reproduction, cultivation, maintenance of horses.	Lectures, Lab work.
Section 15. Poultry farming.	Topic 15.1. Cultivation systems and methods of maintenance.	Lectures, Lab work.

	Topic 15.2. Acquisition, maintenance, maintenance of the parent herd in egg production.	Lectures, Lab work.
	Topic 15.3. Egg incubation. Cultivation of repair young animals. Production of broiler meat.	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.* - *Zoological models.*
Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	- *Information stands.* - *Zoological models.*
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. Tunikov G.M. Animal breeding with the basics of private zootechny [Electronic resource] : Textbook / G.M. Tunikov, A.A. Korovushkin. - 3rd ed., erased. - St. Petersburg : Publishing House "Lan", 2017. - 744 p. - (Textbooks for universities. Special literature).- ISBN 978-5-8114-1850-3. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465012&idb=0
2. Usmanova E.N., Buzmakova E.D., Kovrov A.V. Breeding of animals with the basics of private animal science: A textbook for laboratory and practical classes and independent work of students in the specialty 36.05.01 "Veterinary Medicine" 2018.-177p. https://e.lanbook.com/book/129597

Additional Reading:

1. Polyantsev N.I. Technology of reproduction of breeding cattle [Electronic resource] : Textbook / N.I. Polyantsev. - 2nd ed., ispr. - St. Petersburg : Publishing House "Lan", 2014. - 288 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-1703-2. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465156&idb=0
2. Animal breeding [Electronic resource] : Textbook / V.G. Kakhikalo [et al.]. - 2nd ed., ispr. and add. - St. Petersburg : Publishing House "Lan", 2014. - 448 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-1583-0. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465184&idb=0
3. Animal breeding with the basics of private zootechny [Text/electronic resource] : Textbook. Part 1: Animal breeding / A.A. Nikishov [et al.]. - Electronic text data. - Moscow : Publishing House of RUDN, 2017. - 116 p. : ill. - ISBN 978-5-209-07451-9 : 64.13. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=460026&idb=0
4. Tsarenko P.P. Introduction to animal science [Electronic resource] : Textbook / P.P. Tsarenko, A.F. Shevkhuzhev. - St. Petersburg : Publishing House "Lan", 2017. - 300 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-2546-4. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464948&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 "**Breeding with the basics of private animal husbandry**".

2. Laboratory workshop on the discipline "**Breeding with the basics of private animal husbandry**".

* - 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 "**Breeding with the basics of private animal husbandry**" 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:

Associate Professor of the Department of Veterinary Medicine		Nikishov A.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