WORKING COURSE SYLLABUS

Feeding animals with the basics of forage production

Recommended by the Methodological Council for the Education Field:

36.05.01 Veterinary medicine

1. GOALS AND OBJECTIVES OF THE DISCIPLINE

The aim of mastering the discipline "Feeding animals with the basics of forage **production**" is to study the basics of animal nutrition, the organization of feeding different types of animals to obtain genetically determined productivity with high quality, preservation of health and reproduction.

2. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The development of the discipline "Feeding animals with the basics of forage production" 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 -6	The ability to analyze, identify and assess the risk of the risk of the 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-infectious, infectious and invasive diseases, identify pathogens of infectious and invasive diseases in animals.
		GPC-6.3 He knows the patterns of the occurrence and spread of diseases in animal populations, factors predisposing to diseases and the causes of possible complications.
PC -1	The ability to collect anamnesis of life and disease of animals to identify the causes of diseases	PC -1.1 He is able to collect an anamnesis of the animal's life and reflect this in the relevant service documentation.
	and their nature.	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 -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
PC -13	Ability to develop recommendations for special feeding of sick animals for therapeutic purposes.	chosen method to another one. PC-13.1 He is able to justify the appointment of special feeding to an animal for therapeutic purposes in various diseases;
		PC-13.2 He is 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-13.3 He is able to use special programs and databases for the selection of industrial therapeutic diets and dietary supplements, as well as for the compilation of individual therapeutic diets for animals of various species.
PC -16	Ability to organize organizational, technical, zootechnical and veterinary measures aimed at the prevention of non-	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
	communicable diseases in accordance with the plan for the prevention of non- communicable 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	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
	conduct medical examinations, to develop recommendations for carrying out preventive and curative measures based on the	PC-18.2 He is able to organize and conduct medical examination according to the drawn up plan
	results of the examination of animals conducted as part of the medical examination	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 -20	Ability to develop an annual plan of antiepizootic measures, a plan for the prevention of	PC-20.1 Able to conduct epizootological examination of the organization, territory.
	non-infectious animal diseases, a plan of veterinary and sanitary measures.	PC-20.2 He is able to develop an annual plan of antiepizootic and antiparasitic measures, a plan for the prevention of non-infectious animal diseases, a plan of veterinary and sanitary measures.
		PC-20.3 He is able to analyze the effectiveness of measures for the prevention of animal diseases in order to improve them.
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 "Feeding animals with the basics of forage production" 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 "Feeding animals with the basics of forage production".

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

Competence	Competence	Previous	Subsequent Disciplines
code		Disciplines (Modules)	(Modules)
GPC -6	The ability to analyze, identify and assess the risk of the risk of the occurrence and spread of diseases.	Biology with the basics of ecology Life safety Veterinary microbiology and mycology Virology and biotechnology Animal health and welfare	Veterinary Radiobiology 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 Veterinary and sanitary examination Organization of veterinary business Forensic veterinary examination and

			autopsy of animals
			Introduction to the
			specialty
			General and veterinary
			ecology
			Veterinary sanitation
			Technology of
			processing livestock
			products
			Medicinal and
			poisonous plants
			Forage plants
			Animal Health
			Clinical laboratory
			diagnostics
			Laboratory diagnostics
			of infectious and
			invasive diseases
			Organization of state
			veterinary supervision
			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
			Veterinary
			Ophthalmology
			Animal Dentistry
PC -1	The ability to collect	Veterinary genetics	Clinical diagnosis
	anamnesis of life and	Physiology and	Toxicology
	disease of animals to	ethology of animals	Obstetrics, gynecology
	identify the causes of		and andrology
	diseases and their	basics of private	Internal non-infectious
	nature.	animal husbandry	diseases
		Animal health and	General surgery
		welfare	Private Veterinary
			surgery
			Parasitology and
			invasive diseases

PC -5 The ability to make a diagnosis based on the diagnosis based o				Epizootology and
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			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 -8	Ability to choose	Veterinary	Pathological physiology
_	methods of non-drug	microbiology and	Veterinary
	U	mycology	Radiobiology
	physiotherapy methods	Virology and	Internal non-infectious
	for the treatment of	biotechnology	diseases
	animals.	Physiology and	General surgery
		ethology of animals	Private Veterinary
			surgery
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			Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology

			Veterinary
			Ophthalmology Animal Dentistry
PC -13	Ability to develop recommendations for special feeding of sick animals for therapeutic purposes.	Physiology and ethology of animals	Pathological physiology Internal non-infectious diseases General surgery Private Veterinary surgery Medicinal and poisonous plants Forage plants Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology
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	Veterinary genetics Life safety Physiology and ethology of animals Breeding with the basics of private animal husbandry Animal health and welfare	NephtologyObstetrics, gynecologyand andrologyInternal non-infectiousdiseasesGeneral surgeryPrivate VeterinarysurgeryOrganization ofveterinary businessFundamentals ofEconomics andManagementEconomics andorganization ofagricultural productionMedicinal andpoisonous plantsForage plantsZoopsychologyAnimal HealthDiseases of horsesDiseases of small petsDiseases of small petsBee diseases andentomophagesFish pathology andaquaculture

			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 Breeding with the basics of private animal husbandry Animal health and welfare	Pathological physiologyVeterinaryPharmacologyClinical diagnosisPathological anatomyInstrumental diagnosticmethodsToxicologyObstetrics, gynecologyand andrologyInternal non-infectiousdiseasesGeneral surgeryPrivate VeterinarysurgeryAnimal HealthClinical laboratorydiagnosticsDiseases of horsesDiseases of small petsDiseases of small petsDiseases of exoticanimalsDermatologyCardiologyNephrologyVeterinaryOphthalmologyAnimal Dentistry
PC -20	Ability to develop an annual plan of antiepizootic measures, a plan for the prevention of non-infectious animal diseases, a plan of veterinary and sanitary measures.	mycology Animal health and	Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Organization of veterinary business

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			Fundamentals of
			Economics and
			Management
			Veterinary sanitation
			Economics and
			organization of
			agricultural production
			Animal Health
			Bee diseases and
			entomophages
			Fish pathology and
			aquaculture
PC -24	Ability and willingness	Physiology and	Pathological physiology
10-24	to promote veterinary	ethology of animals	Pathological anatomy
			Toxicology
	knowledge, including in the field of prevention	Breeding with the	85
	of animal diseases.	basics of private	Obstetrics, gynecology
	or annual diseases.	animal husbandry Animal health and	and andrology Internal non-infectious
		welfare	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
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			Zoopsychology Animal Health
			Diseases of horses
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			animals
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Bee diseases and
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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 "Feeding animals with the basics of forage production" is 7 credits.

Table 4.1. Types of academic activities during the period of the HE program mastering for *full-time* study

Types of anodomia activities	HOURS	Semesters			
Types of academic activities		4	5	-	-
Contact academic hours	90	36	54	-	-
including					
Lectures	36	18	18	-	-
Lab work	54	18	36	-	-
Seminars (workshops/tutorials)	-	-	-	-	-
Self-study	140	62	78	-	-

Evaluation and assessment (e grading)	exam/pass/fail	22	10	12	-	-
Commo montilo od	Academic hour	252	108	144	-	-
Course workload	Credit unit	7	3	4	-	-

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

Types of academic activities		HOURS		Seme	esters	
			4	5	-	-
Contact academic hours		36	18	18	I	-
including						
Lectures		-	-	-	I	-
Lab work		36	18	18	I	-
Seminars (workshops/tutorials)		-	-	-	I	-
Self-study		190	74	116	I	-
Evaluation and assessment (exam/pass/fail		26	16	10	-	-
grading)						
	Academic	252	108	144	-	-
Course workload hour						
Course workload	Credit	7	3	4	-	-
unit						

5. CONTENT OF THE DISCIPLINE

Table 5.1 Content of the discipline (module) by type of ac	cademic work
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Name of the discipline section	Content of the section (topics)	Types of academic activities
Section 1. Assessment of feed nutrition.	Topic 1.1 Chemical composition of feed as a primary indicator of their nutritional value. The content and concentration of nutrients in feed.	Lectures, Lab work.
	Topic 1.2 Determination of digestibility of feeds and diets. The use of nutrients in the animal's body.	Lectures, Lab work.
	Topic 1.3 Energy nutrition of feed. CE and feed units. Energy nutritional value of feed. Exchange energy.	Lectures, Lab work.
	Topic 1.4 Protein nutrition of feed.	Lectures, Lab work.

	Topic 1.5 Mineral and vitamin nutrition of feed.	Lectures, Lab work.
Section 2. Feed.	Topic 2.1 Production evaluation of feed.	Lectures, Lab work.
	Topic 2.2 Analysis of feeds of various origins.	Lectures, Lab work.
	Topic 2.3 Types of feed and their purpose.	Lectures, Lab work.
Section 3. Normalized feeding of animals of	Topic 3.1 Norms of animal feeding.	Lectures, Lab work.
different species.	Topic 3.2 The technique of making rations.	Lectures, Lab work.
	Topic 3.3 Analysis of diets.	Lectures, Lab work.
	Topic 3.4 Feeding cattle.	Lectures, Lab work.
	Topic 3.5 Feeding sheep.	Lectures, Lab work.
	Topic 3.6 Feeding goats.	Lectures, Lab work.
	Topic 3.7 Feeding horses.	Lectures, Lab work.
	Topic 3.8 Feeding pigs.	Lectures, Lab work.
	Topic 3.9 Feeding birds.	Lectures, Lab work.
	Topic 3.10 Feeding dogs and cats.	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.	_
Laboratory	An auditorium for laboratory work,	-

	individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	
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:

- Khaziakhmetov F.S. Rational feeding of animals [Electronic resource]: Textbook / F.S. Khaziakhmetov. - St. Petersburg: Publishing House "Lan", 2017. - 364 p. <u>http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464959&idb=0</u>
- Khokhrin S.N. Feeding cattle, sheep, goats and horses : textbook / S.N. Khokhrin. 2nd ed., supplement and revision ; Electronic text data. - St. Petersburg : Quadro, 2019. - 488 p. <u>http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=487733&idb=0</u>
- Priestach Nikolay Vladimirovich. Feeding of farm animals with the basics of feed production / N.V. Priestach, L.N. Priestach. Electronic text data. St. Petersburg : Quadro, 2020. - 372 p. - <u>http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn FindDoc&id=487735&idb=0</u>

Additional Reading:

- 1. Faritov T.A. Feed and feed additives for animals [Electronic resource] : Textbook / T.A. Faritov. St. Petersburg : Publishing house "Lan", 2010. 304 p.http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn FindDoc&id=465289&idb=0
- Khokhrin S.N. Feeding dogs [Electronic resource] : Textbook / S.N. Khokhrin, K.A. Rozhkov, I.V. Lunegova. - St. Petersburg : Publishing house "Lan", 2015. - 288 p. <u>http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465112&idb=0</u>
- Tokarev V. S., Animal feeding with the basics of feed production. Textbook. M.: Infra-M, 2016. - 592 p. Alexandrov S., Kosova T. Rabbits. Breeding growing feeding. - St. Petersburg: AST, 2011. - 157 p.
- 4. Rakhmanov A. I., Maslova Yu. V. Feeding domestic chickens. St. Petersburg: Aquarium-Print, 2016. 48 p.
- Feeding horses. /Kalashnikov V. V., Draganov I.F., Memedeikin V. G. Ed. Svitova V. I. - M.: GEOTAR-Media, 2011. - 224 p.

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/
- Databases and search engines: 2.
- 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 "Feeding animals with the basics of forage production".
- 2. Laboratory workshop on the discipline "Feeding animals with the basics of forage production".

* - 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 "Feeding animals with the basics of forage production" 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.

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Position, Basic curriculum	Signature	Full name.
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