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**Federal State Autonomous Educational Institution for Higher Education**  
**PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA**  
**Agrarian and Technological Institute**

## **WORKING COURSE SYLLABUS**

### **Zoopsychology**

**Recommended by the Methodological Council for the Education Field:**

**36.05.01 Veterinary medicine**

## 1. GOALS AND OBJECTIVES OF THE DISCIPLINE

The aim of the mastering the discipline "**Zoopsychology**" is to study the biological foundations and patterns of animal behavior, including both innate (instinctive) and behavioral elements acquired in the learning process. Formation of practical skills to assess the functional state of the animal body.

## 2. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The development of the discipline "**Zoopsychology**" 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)*

<b>Code</b>	<b>Competence</b>	<b>Indicators of competence accomplishment (within the discipline)</b>
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-9	Ability to use basic defectological knowledge in social and professional spheres	UK-9.1 Has an understanding of the principles of non-discriminatory interaction in communication in various spheres of life activities, taking into account the socio-psychological characteristics of persons with disabilities;
		UK-9.2 Plans and implements professional activities with persons with disabilities or disabilities.
		UK-9.3 Interacts with people with disabilities or disabilities in social and professional spheres.
GPC-2	The ability to interpret and evaluate in professional activity the influence of natural, socio-	GPC-2.1 Knows the influence of natural, socio-economic, genetic and economic factors on the animal body

	economic, genetic and economic factors on the physiological state of the animal organism.	GPC-2.2 Can establish the presence and validity of cause-effect relationships between the impact of certain etiological factors on the animal body and the development of diseases
		GPC-2.3 Knows the methods of preventive and therapeutic correction of the impact of unfavorable environmental factors that can cause deterioration of animal health
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 Able to compile an animal's life history and record it in appropriate service records
		PC-1.2 Able to collect an animal's medical history and reflect it in the patient's medical history
		PC-1.3 Is able to identify possible causes of disease in an animal, factors predisposing to the disease and concomitant conditions affecting the course of the disease and use this information in 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 Is able to diagnose different types of patients based on analysis of anamnesis, general, special (instrumental) and laboratory examination data
		PC-5.2 Is able to predict the risks of disease on the basis of anamnestic data, the results of general, special (instrumental) and laboratory tests
PC -6	The ability to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals.	PC-6.1 He is able to develop a treatment plan for animals based on the established diagnosis and individual characteristics of the 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-16	The ability to organize organizational, technical, zootechnical and veterinary activities aimed at the prevention of non-communicable diseases in accordance with the plan for the prevention of non-communicable animal diseases	PC-16.1 Capable of assessing the impact of animal housing and feeding conditions on animal health as part of the implementation of animal disease prevention plans
		PC-16.2 Is able to carry out veterinary control of the quality and procurement of animal feed to ensure their veterinary and sanitary safety as part of the implementation of plans for the prevention of animal diseases
		PC-16.3 Able to identify deviations from the plan of timing, types, quality of measures to prevent the occurrence of non-communicable animals
		PC-16.4 Take corrective measures to implement measures to prevent the occurrence of non-communicable diseases of animals based on the results of control
		PC-16.5 Conduct talks, lectures, seminars for employees of the organization to explain the principles of work on the prevention of animal diseases
PC-24	Ability and readiness to promote veterinary knowledge, including in the field of animal disease prevention	PC-24.1 Able to set goals to promote veterinary knowledge, plan strategy and tactics for upcoming events
		PC-24.2 Able to use computer and telecommunication tools to prepare and display materials used in the process of promoting veterinary knowledge
		PC-24.3 Able to hold talks, lectures, seminars for employees to explain the principles of animal disease prevention

### 3. COURSE IN HIGHER EDUCATION

The discipline "**Zoopsychology**" 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 "**Zoopsychology**".

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 Fundamentals of Economics and Management Life safety Internal non-communicable diseases Obstetrics, gynecology and andrology General and private surgery Parasitology and invasive diseases Epizootology and infectious diseases Veterinary and sanitary examination Organization of veterinary affairs Mathematics Veterinary deontology Space technologies at the service of the agro-industrial complex The basics of intellectual work	Organization of state veterinary supervision Career management Reconstructive surgery
UK-9	Ability to use basic defectological knowledge in social and professional spheres	Veterinary deontology	-
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.	Biology with the basics of ecology Veterinary genetics Veterinary Microbiology and Mycology Virology and biotechnology Physiology and ethology of animals Breeding with the basics of private animal husbandry Hygiene of animals	Horse diseases Diseases of Productive Animals Diseases of small pets Diseases of small pets Ophthalmology Dentistry Anesthesiology, resuscitation and intensive care

		<p>Feeding with the basics of forage production  Pathological physiology  Pathological anatomy and forensic veterinary examination  Veterinary radiobiology  Instrumental diagnostic methods  Toxicology  Obstetrics, gynecology and andrology  Internal non-communicable diseases  General and private surgery  Parasitology and invasive diseases  Epizootology and infectious diseases  Forensic veterinary medicine and animal necropsy  Immunology  General and Veterinary Ecology  Veterinary sanitation  Diseases of bees and fish  Fodder plants</p>	
PC-1	The ability to collect anamnesis of life and disease of animals to identify the causes of diseases and their nature	<p>Veterinary genetics  Physiology and ethology of animals  Breeding with the basics of private animal husbandry  Hygiene of animals  Feeding animals with the basics of forage production  Clinical diagnostics  Toxicology  Obstetrics, gynecology and andrology  Internal non-communicable diseases  General and private surgery</p>	<p>Personality psychology and professional self-determination  Horse diseases  Diseases of Productive Animals  Diseases of small pets  Diseases of small pets  Ophthalmology  Dentistry  Anesthesiology, resuscitation and intensive care  Reconstructive surgery</p>

		Parasitology and invasive diseases Epizootology and infectious diseases Fundamentals of Rhetoric and Communication Veterinary deontology	
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 husbandry Feeding animals with the basics of forage production Pathological physiology Pathological anatomy and forensic veterinary examination Clinical diagnostics Toxicology Obstetrics, gynecology and andrology Internal non-communicable diseases General and private surgery Parasitology and invasive diseases Epizootology and infectious diseases Forensic veterinary medicine and animal necropsy Diseases of bees and fish	Horse diseases Diseases of Productive Animals Diseases of small pets Diseases of small pets Ophthalmology Dentistry Anesthesiology, resuscitation and intensive care Reconstructive surgery
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	Horse diseases Diseases of Productive Animals Diseases of small pets Diseases of small pets Ophthalmology

		pharmacology Toxicology Obstetrics, gynecology and andrology Internal non-communicable diseases General and private surgery Parasitology and invasive diseases Epizootology and infectious diseases Mathematics Immunology Diseases of bees and fish	Dentistry Animal disease therapy Anesthesiology, resuscitation and intensive care Reconstructive surgery
PC-16	The ability to organize organizational, technical, zootechnical and veterinary activities aimed at the prevention of non-communicable diseases in accordance with the plan for the prevention of non-communicable animal diseases	Veterinary genetics Fundamentals of Economics and Management Economics and organization of agricultural production Life safety Physiology and ethology of animals Breeding with the basics of private animal husbandry Hygiene of animals Feeding animals with the basics of forage production Obstetrics, gynecology and andrology Internal non-communicable diseases General and private surgery Organization of veterinary affairs Diseases of bees and fish Medicinal and poisonous plants Fodder plants	Horse diseases Diseases of Productive Animals Diseases of small pets Diseases of small pets Ophthalmology Dentistry
PC-24	Ability and readiness to promote veterinary	Economics and organization of	Horse diseases Diseases of



	<p>knowledge, including in the field of animal disease prevention</p>	<p>agricultural production  Physiology and ethology of animals  Breeding with the basics of private animal husbandry  Hygiene of animals  Feeding animals with the basics of forage production  Pathological physiology  Pathological anatomy and forensic veterinary examination  Toxicology  Obstetrics, gynecology and andrology  Internal non-communicable diseases  General and private 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  Diseases of bees and fish  Medicinal and poisonous plants  Fodder plants</p>	<p>Productive Animals  Diseases of small pets  Diseases of small pets  Ophthalmology  Dentistry  Foreign language for special purposes  Russian language for special purposes  Communicative workshop  Reconstructive surgery</p>
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#### 4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the discipline "**Zoopsychology**" is 10 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				
			5	-	-	-	
Contact academic hours		36	36	-	-	-	
including							
Lectures		-	-	-	-	-	
Lab work		-	-	-	-	-	
Seminars (workshops/tutorials)		36	36	-	-	-	
Self-study		56	56	-	-	-	
Evaluation and assessment (exam/pass/fail grading)		16	16	-	-	-	
Course workload		Academic hour	<b>108</b>	<b>108</b>	-	-	-
		Credit unit	<b>3</b>	<b>3</b>	-	-	-

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				
			5	-	-	-	
Contact academic hours		18	18	-	-	-	
including							
Lectures		-	-	-	-	-	
Lab work		-	-	-	-	-	
Seminars (workshops/tutorials)		18	18	-	-	-	
Self-study		84	84	-	-	-	
Evaluation and assessment (exam/pass/fail grading)		6	6	-	-	-	
Course workload		Academic hour	<b>108</b>	<b>108</b>	-	-	-
		Credit unit	<b>3</b>	<b>3</b>	-	-	-

## 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 to Zoopsychology.	Topic 1.1. Discipline is a system of knowledge about the laws of functioning of the psyche of animals.	Seminars
Section 2. General characteristics of the learning process.	Topic 2.1. Characteristics of mental reflection at the lowest level of the elementary sensory psyche.	Seminars

	Topic 2.2. Locomotor activity and spatial orientation in protozoa.	Seminars
	Topic 2.3. The problem of behavior plasticity.	Seminars
	Topic 2.4. The phenomenon of addiction.	Seminars
	Topic 2.5. Mental reflection at the highest level of the elementary sensory psyche.	Seminars
	Topic 2.6. The emergence of the nervous system.	Seminars
	Topic 2.7. Locomotor activity of lower invertebrates.	Seminars
	Topic 2.8. The rudiments of higher forms of behavior.	Seminars
Section 3. Levels of development of the psyche.	Topic 3.1. Characteristics of the psyche of animals at the lowest and highest levels of the perceptual psyche.	Seminars
	Topic 3.2. Motor and sensory abilities of higher invertebrates.	Seminars
	Topic 3.3. Plasticity of behavior of higher vertebrates as a result of development of complex skills.	Seminars
Section 4. Animal communication.	Topic 4.1. Biological interaction as the basis for the origin of communication in the process of evolution.	Seminars
	Topic 4.2. Types of communication in animals.	Seminars
	Topic 4.3. Demonstrative behavior and ritualization.	Seminars
	Topic 4.4. The origin of intention movements and their role.	Seminars
	Topic 4.5. "Autochthonous" and "allochthonous" movements.	Seminars
Section 5. Juvenile period of development of the psyche.	Topic 5.1. Congenital and acquired in individual development of behavior.	Seminars
	Topic 5.2. Biological conditioning of ontogenesis of animal behavior.	Seminars
	Topic 5.3. "Embryonic learning" and maturation.	Seminars
	Topic 5.4. Development of motor activity and sensory abilities.	Seminars
	Topic 5.5. Prenatal development of the elements of communication.	Seminars

	Topic 5.6. Types and characteristics of psychosomatic disorders in animals.	Seminars
Section 6. Psychosomatic disorders in animals.	Topic 6. Peculiarities of psychology characteristic of individual animal species.	Seminars
Section 7. Private zoopsychology.	Topic 7. Peculiarities of psychology characteristic of individual animal species.	Seminars

## 6. CLASSROOM INFRASTRUCTURE AND TECHNOLOGY SUPPORT REQUIREMENTS

*Table 6.1. Material and technical support of the discipline*

<i>Classroom for Academic Activity Type</i>	<i>Equipping the classroom</i>	<b>Specialized educational/laboratory equipment, software and materials for the development of the discipline (if necessary)</b>
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:*

1. Kiselev S.Y. Introduction to Zoopsychology: textbook 2020.-160s  
<https://lib.rudn.ru/MegaPro/Polyantsev> N. I. Workshop on obstetrics, gynecology and biotechnology of animal reproduction : textbook / N. I.

- Polyantsev. - SPb. Lan', 2022. - 272 c. <https://e.lanbook.com/book/71726>
2. Pershina L. A. General psychology: Textbook for students of higher educational institutions 2020.-448s <https://e.lanbook.com/book/132668>

*Additional Reading:*

1. Reznikova Zh. I. Zoopsychology. Intellect and language of animals and humans [Text] : Textbook for universities: In 2 parts. Part 2 / J.I. Reznikova. - 2nd ed. amended and supplemented - M. : Yurite, 2017. - 233 c.
2. Reznikova J. I. I. Zoopsychology. Intellect and language of animals and humans [Text] : Textbook for universities: In 2 h. Ч. 1 / J.I. Reznikova. - 2nd ed. amended and supplemented - M. : Yurite, 2017. - 252 c.
3. Karnozov V.L. Zoopsychology [Text]: Textbook of psychology: For medical students of specialties "Medical Business", "Dentistry", "Pharmacy" / V.L. Karnozov, T.Yu. Lineva. - Moscow: RUDN Publishing House, 2013. - 27 c.
4. Filippova G.G. Zoopsychology and comparative psychology [Text]: Textbook for university students / G.G. Filippova. - 2nd ed. stereotyped. - M.: Academia, 2006. - 544 c.
5. Skopichev V.G. Animal behavior - Saint-Petersburg: Lan' Publisher, 2009. - 624c.
6. Kiselev S.Y. Introduction to zoopsychology: educational-methodical manual 2020.-160s.
7. Zorina Z.A., Poletaeva I.I. Zoopsychology. Elementary thinking of animals. - Moscow: Aspect Press, 2010. - 320 c.

*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](http://www.studentlibrary.ru)
  - ELS "Lan"<http://e.lanbook.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 "**Zoopsychology**".
2. Laboratory workshop on the discipline "**Zoopsychology**".

\* - 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 " **Zoopsychology** " 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

\_\_\_\_\_  
Position, Basic curriculum

Signature

Sotnikova E.D.

\_\_\_\_\_  
Full name.

### HEAD OF THE DEPARTMENT:

Department of Veterinary Medicine

\_\_\_\_\_  
Name Basic Curriculum

Signature

Vatnikov Yu.A.

\_\_\_\_\_  
Full name.

### HEAD OF THE HIGHER EDUCATION PROGRAM:

Director of the Department of Veterinary Medicine

\_\_\_\_\_  
Position, Basic curriculum

Signature

Vatnikov Yu.A.

\_\_\_\_\_  
Full name