Federal State Autonomous Educational Institution of Higher Education
Peoples' Friendship University of Russia named after Patrice Lumumba
RUDN University

Agrarian and Technological Institute

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

COURSE SYLLABUS

Obstetrics, Gynecology and Andrology

course title

Recommended by the Didactic Council for the Education Field of:

36.05.01 Veterinary

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

Veterinary

higher education programme profile/specialisation title

2026

1. COURSE GOAL(s)

The goal of the course «**Obstetrics, Gynecology and Andrology**» is to acquire students of theoretical knowledge and practical skills in the field of veterinary obstetrics, gynecology, andrology and biotechnology of reproduction of agricultural and small domestic animals, providing not only a successful intensification of animal reproduction, which consists in the maximum safety of young animals, obtaining a viable offspring, as well as high quality products, but also in conducting systematic explanatory work in the circles of companion animal owners engaged in breeding.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Obstetrics, Gynecology and Andrology»** is aimed at the development of the following competences /competences in part:

Table 2.1. List of competences that students acquire through the course study

Competence code	**Competence descriptor**	**Competence formation indicators** (within this course)
PC-3	Ability to plan differential diagnostic procedures for diseases in a patient.	PC-3.1. Systematizes information on symptoms/syndromes of the disease and forms a list of preliminary diagnoses for confirmation or exclusion.
		PC-3.2. Uses ready-made or develops a specific differential diagnostic algorithm considering the capabilities of the medical institution.
		PC-3.3. Uses diagnostic results to establish a final diagnosis and adjust previously established diagnoses if necessary.
PC-6	Ability to establish a diagnosis and prognosis of disease development and spread based on clinical, laboratory and instrumental diagnostic data.	PC-6.1. Possesses knowledge of manifestations of infectious, parasitic, internal non-infectious, surgical, gynecological and other animal diseases.
		PC-6.2. Uses methods for establishing a comprehensive diagnosis based on medical history, clinical examination and diagnostic studies.
		PC-6.3. Applies methods for predicting the course and outcome of treatment considering accompanying diagnoses and complicating factors.
		PC-6.4. Assesses risks of disease spread.
PC-12	Ability to organize and conduct veterinary health monitoring (dispensary observation) of animals.	PC-12.1. Develops a veterinary health monitoring plan.
		PC-12.2. Organizes and conducts veterinary health monitoring procedures.
		PC-12.3. Provides recommendations for preventive and therapeutic measures.

3.COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

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

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

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
PC-3	Ability to plan differential diagnostic procedures for diseases in a patient.		Internal Diseases General Surgery Private Surgery Parasitology and Invasive Diseases Dermatology Cardiology Endocrinology Oncology Neurology Nephrology Anesthesiology, Resuscitation And Intensive Therapy Reconstructive Surgery Veterinary Ophthalmology Behavioral Medicine Animal Dentistry
PC-6	Ability to establish a diagnosis and prognosis of disease development and spread based on clinical, laboratory and instrumental diagnostic data.	Pathological Anatomy	Internal Diseases General Surgery Private Surgery Parasitology and Invasive Diseases Epidemiology and Infectious Diseases
PC-12	Ability to organize and conduct veterinary health monitoring (dispensary observation) of animals.		Internal Diseases Private Surgery Parasitology and Invasive Diseases

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 9 credits (324 academic hours).

*Table 4.1. Types of academic activities during the periods of higher education programme mastering (**full-time training**)*

Type of academic activities	Total academic hours	Semesters/training modules			
		7	8	-	-
Contact academic hours	*136*	68	68	-	-

Type of academic activities		Total academic hours	Semesters/training modules			
			7	**8**	-	-
including:						
Lectures (LC)		68	34	34	-	-
Lab work (LW)		68	34	34	-	-
Seminars (workshops/tutorials) (S)		-	-	-	-	-
Self-studies		150	56	94	-	-
Evaluation and assessment (exam/passing/failing grade)		38	20	18	-	-
Course workload	academic hours_	**324**	**144**	**180**	-	-
	credits	**9**	**4**	**5**	-	-

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1. Gynecology and Andrology.	Topic 1.1 Introduction. Reproduction physiology. Ovogenesis. Spermiogenesis.	Lectures, Lab work
	Topic 1.2 The sexual cycle.	Lectures, Lab work
	Topic 1.3 Neurohumoral regulation of the sexual cycle.	Lectures, Lab work
	Topic 1.4 Physiology of the breast.	Lectures, Lab work
	Topic 1.5 Fertilization.	Lectures, Lab work
	Topic 1.6 Transplantation of zygotes.	Lectures, Lab work
	Topic 1.7 Functional impairment of the ovaries.	Lectures, Lab work
Module 2. Obstetrics.	Topic 2.1 Organization of artificial insemination.	Lectures, Lab work
	Topic 2.2 Physiology of pregnancy.	Lectures, Lab work
	Topic 2.3 Physiology of childbirth.	Lectures, Lab work
	Topic 2.4 Pathology of childbirth.	Lectures, Lab work
	Topic 2.5 Delivery operations.	
	Topic 2.6 Pathology of the postpartum period.	Lectures, Lab work
	Topic 2.7 Postpartum uterine inflammation.	Lectures, Lab work
	Topic 2.8 Mammary pathology.	Lectures, Lab work

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations.	
Lab work	A classroom for laboratory work, individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and machinery.	
Self-studies	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Medicines used in veterinary obstetrics, gynecology, andrology and animal reproduction biotechnology : Textbook / G.P. Dulger [et al.] - 1st ed. - SPb. : Lan', 2021. - 272 c. https://e.lanbook.com/book/75510
2. 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
3. Practicum on Obstetrics and Gynecology : Textbook / M. A. Bagmanov [et al.]. - SPb. : Lan', 2018. - 308 p. https://e.lanbook.com/book/92627

Additional readings:

1. Gruzdev K.N. Rabies of animals: monograph / K.N. Gruzdev, A.E. Metlin. - Vladimir: FGBI "VNIIZH", 2019. - 393 p.: ill. - 978-5-900026-73-2:.
2. Nekrasov Gennady Davydovich. Obstetrics, gynecology and biotechnology of animal reproduction : textbook for universities / G.D. Nekrasov, I.A. Sumanova. - Moscow : Forum, 2009. - 176 c. - ISBN 978-5-91134-202-9
3. Obstetrics, gynecology and biotechnology of animal reproduction [text] : textbook for universities / Edited by V.Y. Nikitin, M.G. Mirolyubov. - M. : KolosS, 2005. - 718 c. : ill. - (Textbooks and tutorials for students of higher education institutions). - ISBN 5-9532-0193-1

Internet sources

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System (RUDN ELS) http://lib.rudn.ru/MegaPro/Web
- EL "University Library Online" http://www.biblioclub.ru
- EL "Yurayt" http://www.biblio-online.ru
- EL "Student Consultant" www.studentlibrary.ru

- EL "Lan" http://e.lanbook.com/
- EL "Trinity Bridge"

2.Databases and search engines:

- electronic foundation of legal and normative-technical documentation http://docs.cntd.ru/
- Yandex search engine https:// www .yandex.ru/
- Google search engine https://www.google.ru/
- Scopus abstract database http://www.elsevierscience.ru/products/scopus/

*Training toolkit for self- studies to master the course *:*

1. The set of lectures on the course «**Obstetrics, gynecology and andrology»**
2. The laboratory workshop (if any) on the course «**Obstetrics, gynecology and andrology**»

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

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