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**Federal State Autonomous Educational Institution of Higher Education  
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA  
RUDN University**

**Agrarian and Technological Institute**

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

**COURSE SYLLABUS**

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Obstetrics, Gynecology and Andrology

course title

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**Recommended by the Didactic Council for the Education Field of:**

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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

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higher education programme profile/specialisation title

## 1. GOALS AND OBJECTIVES OF THE COURSE

The aim of the mastering 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

The implementation of the course "**Obstetrics, gynecology and andrology**" 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 course (results of the development of the course)*

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-3	Ability to plan activities for the differential diagnosis of diseases in a patient.	PC-3.1 Systematizes information on symptoms/syndromes in the patient, forms a set of preliminary diagnoses for further confirmation or exclusion.
		PC-3.2 Uses an existing or designs a unique algorithm for differential diagnosis considering the possibilities of the healthcare institution.
		PC-3.3 Uses information obtained from diagnostic activities to establish a final diagnosis (diagnoses) and to adjust the diagnosis if necessary.
PC-6	Ability to establish a diagnosis and provide a prognosis for the course and spread of a disease based on clinical, laboratory, instrumental, and additional diagnostic methods.	PC-6.1 Possesses knowledge of the characteristics of infectious, parasitic, internal non-contagious, surgical, gynecological, and other diseases in various animal species.
		PC-6.2 Possesses methods for establishing a comprehensive diagnosis based on anamnesis, clinical, laboratory, and instrumental studies.
		PC-6.3 Possesses methods for forecasting the course and outcome of treatment of the main disease based on a set of accompanying diagnoses and factors complicating the patient's condition.

		PC-6.4 Possesses methods for assessing the risks of the spread of an identified disease.
PC-12	Ability to organize and conduct general and specialized veterinary health monitoring of animals (dispensary checkups).	PC-12.1 Able to develop a plan for general or specialized animal health monitoring, considering their species and purpose.
		PC-12.2 Able to organize and conduct animal health monitoring according to the developed plan.
		PC-12.3 Able to provide recommendations for therapeutic and preventive measures aimed at improving the health of the animal group based on the results of the health monitoring.

### 3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course " **Obstetrics, gynecology and andrology**" 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 courses and /or practices that contribute to achieving the planned results of mastering the course "**Obstetrics, gynecology and andrology**".

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

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
PC-3	Ability to plan activities for the differential diagnosis of diseases in a patient.		Internal Diseases / Внутренние незаразные болезни  General Surgery / Общая хирургия  Private Surgery / Частная ветеринарная хирургия  Parasitology and Invasive Diseases /

			Паразитология и инвазионные болезни
			Dermatology / Дерматология
			Cardiology / Кардиология
			Endocrinology / Эндокринология
			Oncology / Онкология
			Neurology / Неврология
			Nephrology / Нефрология
			Anesthesiology, Resuscitation And Intensive Therapy / Анестезиология, реанимация и интенсивная терапия
			Reconstructive Surgery / Реконструктивно- восстановительная хирургия
			Veterinary Ophthalmology / Ветеринарная офтальмология
			Behavioral Medicine / Поведенческая медицина
			Animal Dentistry / Стоматология животных
			Variable component / Вариативная

			<p>компонента</p> <p>Clinical Practice / Клиническая производственная практика</p> <p>Clinical Internship</p> <p>Industrial Research Practice / Производственно- исследовательская практика</p> <p>Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена</p> <p>Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена</p> <p>Design, Preparation for Defense Procedure and Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы</p>
PC-6	Ability to establish a diagnosis and provide a prognosis for the course and spread of a disease based on clinical, laboratory, instrumental, and additional diagnostic	Pathological Anatomy / Патологическая анатомия	<p>Internal Diseases / Внутренние незаразные болезни</p> <p>General Surgery / Общая хирургия</p> <p>Private Surgery / Частная</p>

			<p>ветеринарная хирургия</p> <p>Parasitology and Invasive Diseases / Паразитология и инвазионные болезни</p> <p>Epidemiology and Infectious Diseases / Эпизоотология и инфекционные болезни</p> <p>Variable component / Вариативная компонента</p> <p>Clinical Industrial Practice / Клиническая производственная практика</p> <p>Clinical Internship</p> <p>Industrial Research Practice / Производственно-исследовательская практика</p> <p>Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена</p> <p>Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена</p> <p>Design, Preparation for Defense Procedure and Defense of the</p>
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			Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы
PC-12	Ability to organize and conduct general and specialized veterinary health monitoring of animals (dispensary checkups).		Internal Diseases / Внутренние незаразные болезни  Private Surgery / Частная ветеринарная хирургия  Parasitology and Invasive Diseases / Паразитология и инвазионные болезни  Variable component / Вариативная компонента  Clinical Industrial Practice / Клиническая производственная практика  Clinical Internship  Industrial Research Practice / Производственно- исследовательская практика  Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена  Preparing and Passing the State Exam /

			Подготовка и сдача государственного экзамена  Design, Preparation for Defense Procedure and Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы
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#### 4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the course "**Obstetrics, gynecology and andrology**" is 9 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			
			7	8	-	-
Contact academic hours		136	68	68	-	-
including						
Lectures		68	34	34	-	-
Lab work		68	34	34	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		150	56	94	-	-
Evaluation and assessment (exam/pass/fail grading)		38	20	18	-	-
Course workload	Academic hour	<b>324</b>	<b>144</b>	<b>180</b>	-	-
	Credit unit	<b>9</b>	<b>4</b>	<b>5</b>	-	-

#### 5. COURSE CONTENTS

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

Modules	Content of the modules (topics)	Types of academic activities
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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. COURSE EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

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

<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 course (if necessary)</b>
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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. RESOURCES RECOMMENDED FOR COURSE STUDIES

### *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. Mirolubov. - 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](http://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/](https://www.yandex.ru/)
- Google search engine <https://www.google.ru/>
- Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>

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

1. A course of lectures on the course "**Obstetrics, gynecology and andrology**".
2. Laboratory workshop on the course "**Obstetrics, gynecology and andrology**".

\* - The training toolkit and guidelines for the internship are placed on the internship page in the university telecommunication training and information system under the set procedure.

## **8. ASSESSMENT TOOLKIT AND GRADING SYSTEM\* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL AS COURSE RESULTS**

The assessment toolkit and the grading system\* to evaluate the level of competences (competences in part) formation as the course results are specified in the Appendix to the course syllabus.

\* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

### **DEVELOPER:**

Associate Professor of the Department of Veterinary  
Medicine

Position, Basic curriculum

Signature

Rogov R.V.

Full name.

### **HEAD OF EDUCATIONAL DEPARTMENT:**

Department of Veterinary Medicine

Name Basic Curriculum

Signature

Vatnikov Yu.A.

Full name.

### **HEAD OF HIGHER EDUCATION PROGRAMME:**

Director of the Department of Veterinary Medicine

Position, Basic curriculum

Signature

Vatnikov Yu.A.

Full name