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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**

**Obstetrics, gynecology and andrology**

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course title

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

**36.05.01 Veterinary**

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field of studies / speciality code and title

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

**36.05.01 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 measures for differential diagnosis of diseases in a patient.	PC-3.1 Systematizes information about a patient's symptoms/syndromes, forms a set of preliminary diagnoses for further confirmation or refutation.
		PC-3.2 Uses a ready-made or creates a unique algorithm for differential diagnosis, taking into account the capabilities of the treatment facility.
		PC-3.3 Uses the information obtained as a result of diagnostic measures to make a final diagnosis(s) and to correct the diagnoses if necessary.
PC-6	Ability to diagnose and predict the course and spread of disease based on clinical, laboratory, and instrumental diagnostic data, as well as additional diagnostic methods.	PC-6.1 Knows the peculiarities of the manifestation of infectious, parasitic, internal non-contagious, surgical, gynecological and other diseases of animals of different species.
		PC-6.2 Knows how to make a complex diagnosis, taking into account the results of anamnesis, clinical, laboratory and instrumental studies.
		PC-6.3 Knows how to predict the course and result of treatment of the main disease based on the complex of concomitant diagnoses and factors that complicate the patient's condition.

		PC-6.4 Has knowledge of methodologies for assessing the risks of spread of an identified disease.
PC-12	Ability to organize and conduct dispensaries in animals, both general and specialized.	PC-12.1 Able to make a plan for the dispensary of animals, general or specialized, taking into account their species and purpose
		PC-12.2 Able to organize and conduct medical examinations according to the plan
		PC-12.3 Able, on the basis of the results of the dispensary, to make recommendations for therapeutic and preventive measures aimed at improving the health of the animal group

### 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 measures for differential diagnosis of diseases in a patient.		Internal diseases General surgery Private Veterinary Surgery Parasitology and invasive diseases Anesthesiology, resuscitation and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive surgery

			<p>Veterinary ophthalmology  Animal Dentistry  Clinical internship  Industrial practice  Academic research practice with the preparation of a scientific qualification project  Preparation for and passing the state exam</p>
PC-6	<p>Ability to diagnose and predict the course and spread of disease based on clinical, laboratory, and instrumental diagnostic data, as well as additional diagnostic methods.</p>	<p>Pathological anatomy</p>	<p>Internal diseases  General surgery  Private Veterinary Surgery  Parasitology and invasive diseases  Epizootology and infectious diseases  Clinical internship  Industrial practice  Academic research practice with the preparation of a scientific qualification project  Preparation for and passing the state exam</p>
PC-12	<p>Ability to organize and conduct dispensaries in animals, both general and specialized.</p>		<p>Internal diseases  General surgery  Private Veterinary Surgery  Parasitology and invasive diseases  Variable component  Clinical internship  Industrial practice  Academic research practice with the preparation of a scientific qualification project  Preparation for and passing the state exam</p>

#### 4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the course "Obstetrics, gynecology and andrology" is 8 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		140	68	72	-	-	
including							
Lectures		70	34	36	-	-	
Lab work		70	34	36	-	-	
Seminars (workshops/tutorials)		-	-	-	-	-	
Self-study		114	56	58	-	-	
Evaluation and assessment (exam/pass/fail grading)		34	20	14	-	-	
Course workload		Academic hour	<b>288</b>	<b>144</b>	<b>144</b>	-	-
		Credit unit	<b>8</b>	<b>4</b>	<b>4</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
Module 1. Gynecology and Andrology.	Topic 1.1 Introduction. Reproduction physiology. Ovogenesis. Spermogenesis.	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>
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

Dinchenko O.I.

Full name.

Associate Professor, Department of Veterinary Medicine

Position, Basic curriculum

Signature

Troshina N.I.

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