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Agrarian and Technological Institute

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

COURSE SYLLABUS

Breeding with the basics of private animal husbandry

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:

36.05.01 Veterinary

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The goal of the course "**Breeding with the basics of private animal husbandry**" is the formation of theoretical and practical knowledge on the breeding of farm animals (the basics of breeding work) and the study of technology for obtaining products from various types of farm animals.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course "**Breeding with the basics of private animal husbandry**" is aimed at creating the following competencies (parts of competencies) for students:

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

Competence	Competence descriptor	Competence formation indicators			
code		(within this course)			
GPC-2	in professional activity the	GPC-2.1 Have knowledge of the influence of natural, socio-economic, genetic and economic factors on the animal body.			

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course "**Breeding with the basics of private animal husbandry**" refers to the core part of block B1 of the Educational Program of Higher Education.

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, internships*	Subsequent courses/modules, internships*
GPC-2	Is able to interpret and evaluate in professional activity the influence of natural, socio-economic, genetic and economic	Biology with the basics of ecology Veterinary genetics	Animal health and welfare Feeding animals with the basics of forage production

factors on the	General and
physiological state of the	Veterinary Ecology
animal organism	Base component
	Study practice
	Clinical internship
	Industrial practice
	Academic research
	practice with the
	preparation of a
	scientific qualification
	project
	Preparation for and
	passing the state exam

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course **«Breeding with the basics of private animal husbandry**» is 7 credits.

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

Type of academic activities		Total	Semesters/training modules			
		academic hours	3	4	-	-
Contact academic hours		105	51	54	-	-
including						
Lectures		35	17	18	-	-
Lab work		70	34	36	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		117	109	8	-	-
Evaluation and assessment (exam/pass/fail		30	20	10	-	-
grading)						
Course workload academic hours_		252	180	72	-	-
Course workload redits		7	5	2	-	-

5. COURSE CONTENTS

Course module title	Course module contents (topics)	Academic activities types
Module 1. Introduction	Topic 1.1. The origin of animals, breeds and their breeding.	Lectures, Lab work.
Module 2. The origin of animal species.	Topic 2.1. The concept of wild, domestic, agricultural and domesticated animals.	Lectures, Lab work.

Module 3. Animal breeds.	Topic 3.1. Properties, structure and	Lasturas Lab
Module 5. Allillai bleeds.	· ·	Lectures, Lab work.
	composition of rocks.	
	Topic 3.2. Factors causing the	Lectures, Lab
	formation and variability in animals.	work.
	Topic 3.3. Acclimatization.	Lectures, Lab
		work.
Module 4. Constitution,	Topic 4.1. Basic principles of	Lectures, Lab
exterior, interior.	classification of types of constitution.	work.
	The connection of the constitution with	WOIR.
	various manifestations of the vital	
	activity of the organism.	
	Topic 4.2. Methods of studying the	Lectures, Lab
	exterior, interior. The use of interior	work.
		WOIK.
Module 5. Individual	indicators in breeding.	Lectures, Lab
	Topic 5.1. Concepts of growth and	work.
development of animals.	development. Patterns of ontogenesis.	
	Topic 5.2. Embryonic and	Lectures, Lab
	postembryonic development. Factors	work.
	affecting growth and development.	
	Control of the growth and development	
	of animals.	
Module 6. Productivity of	Topic 6.1. Evaluation of animals by	Lectures, Lab
animals.	productivity. Factors affecting	work.
	productivity (heredity, environment,	
	reproductive abilities, suitability for	
	industrial technology).	
	Topic 6.2. Principles of assessing the	Lectures, Lab
	productivity of different animal species.	work.
	Assessment of own productivity.	
Module 7. Selection,	Topic 7.1. The essence and signs of	Lectures, Lab
forms and methods of	selection. Conditions affecting the	work.
selection.	effectiveness of selection.	
	Topic 7.2. Genetic basis of selection.	Lectures, Lab
	Forms of selection. Selection by origin.	work.
	Topic 7.3. Pedigrees. Selection by the	Lectures, Lab
	quality of offspring.	work.
Module 8. Selection of	Topic 8.1. The concept, forms and	Lectures, Lab
farm animals.	methods of selection. Selection and	work.
	selection is the basis of selection.	
	Selection according to the compatibility	
	of genotypes.	
	Topic 8.2. Heterosis: concept, theories,	Lectures, Lab
	selection for heterosis. Importance in	work.
	animal husbandry.	
Module 9. Methods of	Topic 9.1. Purebred breeding. Breeding	Lectures, Lab
breeding farm animals.	by lines and families	work.
stooding furth utilitius.	of most and rammos	

	Topic 9.2. Related mating (inbreeding). Interbreeding. Hybridization.	Lectures, Lab work.
Module 10. Selection and breeding work in animal husbandry.	Topic 10.1. Production of products in the conditions of specialization, concentration of production. Selection of breeds, acquisition of the herd.	Lectures, Lab work.
	Topic 10.2. The relationship of breeding and commercial animal husbandry. Planning of breeding work.	Lectures, Lab work.
	Topic 10.3. Large-scale breeding.	Lectures, Lab work.
Module 11. Cattle breeding.	Topic 11.1. Systems and methods of keeping cattle at different times of the year.	Lectures, Lab work.
	Topic 11.2. Reproduction of cattle. Reproductive and sexual cycles of a cow. The choice of animals in the state of hunting. Breeding and calving techniques.	Lectures, Lab work.
	Topic 11.3. Rearing of young animals. Cultivation of repair young animals.	Lectures, Lab work.
Module 12. Pig breeding.	Topic 12.1. Specialization and types of pig farms. Methods of keeping in relation to sex, age and technological groups of pigs.	Lectures, Lab work.
	Topic 12.2. Reproduction of pigs. Reproductive and sexual cycle of queens. Selection of animals that are in a state of hunting. Planning of farrowing. Preparation of animals for farrowing and its implementation.	Lectures, Lab work.
	Topic 12.3. Raising suckling pigs, piglets from weaning to fattening. Selection and introduction of repair young animals into the herd.	Lectures, Lab work.
Module 13. Sheep breeding.	Topic 13.1. Features of reproduction. Lambing season.	Lectures, Lab work.
	Topic 13.2. Reproduction of sheep. Methods of rearing young animals. Organization of weaning.	Lectures, Lab work.

	Topic 13.3. Formation of otar. Keeping sheep in summer and winter. Fattening, feeding sheep, organization of shearing.	Lectures, Lab work.
Module 14. Horse breeding.	Topic 14.1. Working qualities and their use.	Lectures, Lab work.
	Topic 14.2. Productive horse breeding. Reproduction, cultivation, maintenance of horses.	Lectures, Lab work.
Module 15. Poultry farming.	Topic 15.1. Cultivation systems and methods of maintenance.	Lectures, Lab work.
	Topic 15.2. Acquisition, maintenance, maintenance of the parent herd in egg production.	Lectures, Lab work.
	Topic 15.3. Egg incubation. Cultivation of repair young animals. Production of broiler meat.	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)
Lecture	An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations.	- Information stands. - Zoological models.
Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	- Information stands. - Zoological models.

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:

- Tunikov G.M. Animal breeding with the basics of private zootechny [Electronic resource] : Textbook / G.M. Tunikov, A.A. Korovushkin. 3rd ed., erased. St. Petersburg : Publishing House "Lan", 2017. 744 p. (Textbooks for universities. Special literature).- ISBN 978-5-8114-1850-3. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn FindDoc&id=465012&idb=0
- 2. Usmanova E.N., Buzmakova E.D., Kovrov A.V. Breeding of animals with the basics of private animal science: A textbook for laboratory and practical classes and independent work of students in the specialty 36.05.01 "Veterinary Medicine" 2018.-177p. https://e.lanbook.com/book/129597

Additional Readings:

 Polyantsev N.I. Technology of reproduction of breeding cattle [Electronic resource] : Textbook / N.I. Polyantsev. - 2nd ed., ispr. - St. Petersburg : Publishing House "Lan", 2014. - 288 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-1703-2.

http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465156&idb=0

- Animal breeding [Electronic resource] : Textbook / V.G. Kakhikalo [et al.]. 2nd ed., ispr. and add. - St. Petersburg : Publishing House "Lan", 2014. - 448 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-1583-0. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465184&idb=0
- 3. Animal breeding with the basics of private zootechny [Text/electronic resource] : Textbook. Part 1: Animal breeding / A.A. Nikishov [et al.]. Electronic text data. Moscow : Publishing House of RUDN, 2017. 116 p. : ill. ISBN 978-5-209-07451-9 : 64.13.

http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=460026&idb=0

 Tsarenko P.P. Introduction to animal science [Electronic resource] : Textbook / P.P. Tsarenko, A.F. Shevkhuzhev. - St. Petersburg : Publishing House "Lan", 2017. - 300 p. -(Textbooks for universities. Special literature). - ISBN 978-5-8114-2546-4. <u>http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464948&idb=0</u>

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) <u>http://lib.rudn.ru/MegaPro/Web</u>

- 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. 1. The set of lectures on the course "Breeding with the basics of private animal husbandry".
- 2. Laboratory workshop on the course "Breeding with the basics of private animal husbandry".

* - 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 GRADING FOR AND SYSTEM* 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 Nikishov A.A. Position, Basic curriculum Signature Full name **HEAD OF EDUCATIONAL DEPARTMENT:** Department of Veterinary Medicine Vatnikov Yu.A. Name Basic Curriculum Signature Full name. **HEAD OF HIGHER EDUCATION PROGRAMME:** Vatnikov Yu.A. Director of the Department of Veterinary Medicine

Position, Basic curriculum

Signature

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