

Annotation of compulsory educational component «**Ecology in animal husbandry**»

Academic discipline	Ecology in animal husbandry
Tutor	Melnychenko Yuliia Oleksandrivna, candidate of agricultural sciences, associate professor of the department of ecology and biotechnology
Courses and semesters, when the discipline is planning to study	2 courses 4 semesters
Faculties whose students are invited to study discipline	Biological-technological faculty
List of competencies and learning-related outcomes that discipline provides	<p>According to the requirements of the educational and professional program "Technology of production and processing of animal husbandry products", applicants must acquire the ability to acquire the following competencies:</p> <p>ZK 2. The ability to preserve and multiply moral, cultural, scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, techniques and technologies, use different types and forms motor activity for active recreation and leading a healthy lifestyle.</p> <p>ZK 8. Efforts to preserve the environment.</p> <p>The result of studying in the discipline is the acquisition by students of the following knowledge and skills:</p> <ul style="list-style-type: none"> - to influence compliance with the requirements for environmental protection (to be able to solve problems of protection of the external natural environment, to fight environmental pollution, to take care of the protection of plants, animals and people from the harmful effects of anthropogenic factors, to be able to evaluate the structure and possible consequences of intervention in natural ecosystems, to be able to predict the ecological impact of the chemicalization of agricultural production on agroecosystems); - to ensure compliance with biological safety at enterprises for the production and processing of livestock products (to know how to ensure compliance with biological safety at enterprises for the production and processing of livestock products, to be able to organize measures for keeping and feeding animals, as well as to obtain relatively clean livestock products in case of environmental pollution with chemicals or radioactive substances); - apply international and national standards and practices in

	<p>professional activity (be able to apply international and national standards and practices in professional activity)</p> <p>- to know the main historical stages of the development of the subject area (to know the scientific and theoretical foundations of ecology in animal husbandry, the structure and main methods of modern ecology; to know the tasks and achievements of ecology in solving practical issues of animal husbandry).</p>
Description of the discipline	
Preconditions necessary for the study of discipline	<p>The mandatory educational component "Ecology in animal husbandry" is based on knowledge of such disciplines as "Physiology of rural and urban areas". animals", "Biotechnology", "Biochemistry in animal husbandry", "Genetics with biometrics", "Feeding rural-urban animals", "Hygiene and welfare of animals", studied in previous semesters.</p>
Maximum number of students who can study simultaneously	55 students
Lesson plans	<p>Lectures</p> <ol style="list-style-type: none"> 1. History of the development of ecology. Ecology in animal husbandry. 2. Autecology and pathology of animals. Animal body and environmental factors 3. Ecology of populations of animal organisms 4. Microorganisms in the environment 5. Obtaining animal husbandry products that meet quality and safety requirements 6. Agriculture as a source of environmental pollution environment 7. Environmental problems of waste storage and disposal. 8. Water pollution. Wastewater treatment <p>Practical classes</p> <ol style="list-style-type: none"> 1. Law of Ukraine "On Environmental Protection" 2. Basic ecological terms, concepts and laws. 3. Ecological research methods. Study of the general rules for taking, packing, sending the researched material and the general scheme and procedure for conducting ecological and toxicological studies 4. Impact of environmental factors on animal health 5. Ecological importance of water. Determination of the smell and taste of water by organoleptic methods. Determination of free residual chlorine in water by titration with methyl orange. 6. Determination of the ecological condition of soils. 7. Determination of the ecological state of the air. Determination of the relative dustiness of the air. 8. Methodology for calculating economic losses from anthropogenic impact on the environment. Calculation of damages as a result of excess emissions

Teaching language	Ukrainian, English
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