

**Abstract of the educational component**

<b>Name of the discipline</b>	" Animal hygiene and welfare "»
<b>Teacher</b>	Malyna Vasyl Viktorovych, Candidate of Veterinary Sciences, Associate Professor of the Department of Animal Hygiene and Fundamentals of Sanitation
<b>The course and semester in which the study of the discipline is planned</b>	2nd year, 3th semester
<b>Faculties whose students are offered to study the Faculty of</b>	Biological-technological faculty
<b>List of competencies and relevant learning outcomes provided by the discipline</b>	<p>According to the requirements of the educational and professional program "Biotechnology and Bioengineering", applicants must acquire the ability to obtain the following competencies:</p> <p>GC 01. Ability to apply knowledge in practical situations.</p> <p>GC 05. Ability to learn and master modern knowledge.</p> <p>GC 07. Efforts to preserve the environment.</p> <p>PC 13. Ability to work with biological agents used in biotechnological processes (microorganisms, fungi, plants, animals, viruses, their individual components).</p> <p>PC 18. Ability to choose and use appropriate equipment, tools and methods for implementation and control of production of biotechnological products for various purposes.</p> <p>PC 24. Ability to comply with the requirements of biosafety, biosecurity and bioethics. The result of studying in the discipline is the acquisition by students of the following knowledge and skills:</p> <p>PH 10.1. Be able to determine: the temperature of air, enclosure structures of premises, soil, water and fodder; relative air humidity and moisture content in feed; speed of movement, cooling properties and chemical composition of air (content of CO<sub>2</sub>, NH<sub>3</sub>, H<sub>2</sub>S); the content of mechanical impurities and microorganisms in the air; natural and artificial lighting of the premises.</p> <p>PH 10.2. Be able to carry out a sanitary and hygienic assessment of the soil (examine the physical, chemical and microbiological parameters of the soil).</p> <p>PH 10.3. Be able to determine the physical, chemical and microbiological indicators of water (smell, taste and aftertaste, transparency, content of nitrites, nitrates, sulfates, chlorides, water hardness, coli titer, coli index).</p> <p>PH 10.4. Be able to carry out a sanitary and hygienic assessment of feed and recognize poisonous plants.</p> <p>PH 22.1. Know and comply with the sanitary and hygienic requirements for the design of livestock facilities and the general sanitary regime at enterprises for the production and processing of livestock products.</p> <p>PH 22.2. To be able to monitor environmental pollution by harmful products and wastes that are formed during technological processes in the production and processing of animal husbandry products.</p>

Description of the discipline	
Prerequisites necessary for studying the discipline	The compulsory educational component "Hygiene and animal welfare" is based on knowledge of such disciplines as "Chemistry", "Higher mathematics", "Physiology of rural areas". animals", "Zoology", "Morphology of rural areas". animals" and "Genetics with biometrics" studied in previous courses".
The maximum number of students who can study at the same time is	55 students
Topics of classroom classes	<p>Topics of lectures</p> <ol style="list-style-type: none"> <li>1. Introduction to the discipline, the purpose of studying the discipline. Observance of academic integrity by scientific and pedagogical workers and students of higher education in the BNAU.</li> <li>2. Physical properties of the air environment.</li> <li>3. Gas composition of the air environment.</li> <li>4. Dust and microbial pollution of the air environment.</li> <li>5. Hygiene of cattle.</li> <li>6. Hygiene of pigs</li> <li>7. Hygiene of sheep</li> <li>8. Hygiene of horses.</li> <li>9. Hygiene of birds.</li> <li>10. Hygiene of rabbits.</li> <li>11. Hygiene of fur animals.</li> <li>12. Bee hygiene.</li> <li>13. Importance of animal protection in EU countries. Council Directive 98/58/EC52 on the welfare of farm animals.</li> <li>14. Ethology, stress, adaptation and acclimatization of animals.</li> </ol> <p>Topics of practical classes</p> <ol style="list-style-type: none"> <li>1. Instruction on safety techniques when working in classrooms at the Department of Animal Hygiene and Basics of Sanitation. Microclimate parameters in livestock premises.</li> <li>2. Zoohygienic control of temperature, atmospheric pressure and hygrometric indicators. in livestock premises. Rules for working with devices.</li> <li>3. Zoohygienic control of lighting, noise intensity, dust and microbial pollution in livestock premises. Rules for working with devices.</li> <li>4. Zoohygienic control of movement speed and cooling properties of air in livestock premises. Rules for working with devices.</li> <li>5. Sanitary, hygienic and ecological certification of a dairy farm of the NNDC of the BNA.</li> <li>6. Sanitary, hygienic and ecological certification of a pig farm of the NNDC of the BNAU.</li> <li>7. Sanitary, hygienic and ecological certification of the sheep farm of the NNDC of the BNA.</li> <li>8. Sanitary, hygienic and ecological certification of the horse farm of the NNDC of the BNA.</li> <li>9. Sanitary, hygienic and ecological certification of a poultry farm and a slaughterhouse of the NNDC of the BNAU.</li> <li>10. Sanitary, hygienic and environmental certification of the</li> </ol>

	<p>GREGUT LLC crawl farm.</p> <p>11. Sanitary, hygienic and ecological certification of the crawl farm "DROZDY" LLC.</p> <p>12. Sanitary, hygienic and ecological certification of the apiary of the NNDC of the BNAU.</p> <p>13. Review of Council Directive 98/58/EC52 on the welfare of farm animals. Improving the legislation of Ukraine in the light of the Association Agreement between Ukraine and the EU: humane use of productive animals is an important condition for the well-being and economic development of animal husbandry."</p> <p>14. Review of European legislation on breeding and fattening of calves, protection of animals during transportation, ensuring humane treatment of animals during slaughter and euthanasia, labeling of animals. Review of scientific informative sources on the welfare of productive animals in EU countries.</p>
Language of teaching.	Ukrainian, English