

Annotation of elective courses

Subject	Design and construction of the livestock production and processing enterprises
Professor	Hrishko Vitaliy Anatoliyovich candidate of sciences, associate professor Department of Animal Hygiene and Basics of Sanitation
Course and semester	2 courses, 4 semester
Accepted faculties	Faculty of Biotechnological
A list of competences and relevant learning outcomes provided by the discipline	<p>According to the requirements of the educational and professional program "Technology production and processing of animal husbandry products" applicants must acquire the ability to acquire the following competencies:</p> <p>ZK 3. Ability to apply knowledge in practical situations.</p> <p>ZK 7. Ability to evaluate and ensure the quality of performed works.</p> <p>FC 7. Ability to control technological processes during the production and processing of livestock products.</p> <p>FC 8. Ability to control technological processes during the production and processing of pig products.</p> <p>FC 9. Ability to control technological processes during the production and processing of poultry products.</p> <p>The result of studying the discipline is the acquisition by students of the following knowledge and skills:</p> <p>Ensure compliance with biological safety at enterprises for the production and processing of animal husbandry products.</p> <p>Organize and manage the technological process of production and processing of livestock products.</p> <p>To design and calculate the operating parameters of the ventilation and heating systems of livestock premises.</p> <p>Evaluate systems and methods of keeping farm animals and control and optimize the microclimate of technological premises.</p>

	Calculate the area norms for placing technological equipment. Calculate lighting systems.
The discipline description	
Prerequisites necessary of the discipline study	The selective educational component "Design and construction of enterprises for the production and processing of animal husbandry products" as a component of the OPP training for bachelors is based on the knowledge of students obtained in higher mathematics, applied ecology, physics, computer technology and programming, occupational health and safety.
The biggest amount of students	55
Classroom subjects	<p style="text-align: center;">The subject of the lectures:</p> <ol style="list-style-type: none"> 1. Introduction to the discipline. The concept of technological design of livestock enterprises. Observance of academic integrity by scientific and pedagogical workers and students of higher education in the BNAU. 2. Designing livestock enterprises depending on the system and method of keeping animals. 3. Planning and construction of pig enterprises. 4. Ensuring the microclimate of the production premises of pig farms. 5. Design of removal and processing systems. preparation and use of manure, water supply and drainage. 6. Premises and equipment of enterprises in the poultry industry. 7. Design of sheep breeding enterprises. 8. Design of horse breeding enterprises. <p>Subject of practical training.</p> <ol style="list-style-type: none"> 1. Composition of a typical project. General plan. Consideration of a typical project of a livestock premises - facade, plan, section. 2. Calculation of the number of cattle places

	<p>in premises for keeping cattle of different sex and age groups.</p> <ol style="list-style-type: none">3. Acquaintance with the main and typical projects of livestock complexes and zoohygienic standards for housing animals.4. Design and calculation of the power of ventilation systems.5. Calculation of the heat balance of livestock premises.6. Calculation of natural and artificial lighting of livestock premises.7. Calculation of the size of the feed yard.8. Calculation of the need and supply of bedding materials.9. Calculation of the dairy farm's need for water.10. Calculation of parameters of the sewage system.
The teaching language	The Ukrainian and English languages