

Abstract of the optional educational component

Name of discipline	Biosafety in the poultry industry
Teacher	Karkach Petro Mykhailovych Associate Professor, Candidate of Biological Sciences, Ph, Head of the Department of Technology of Poultry and Pig Production
Course and semester, in which it is planned to study the discipline	Masters 6 year of study, 2 semester
Departments whose students are invited to study discipline	Biological-technological faculty
List of competencies and related learning outcomes that provide discipline	<p>According to the requirements of the educational-professional program "Technology of production and processing of livestock products" applicants must acquire the ability to obtain the following competencies:</p> <p>GC 2. Ability to conduct research at the appropriate level.</p> <p>GC 6. The desire to preserve the environment</p> <p>GC 7. Ability to plan, organize and conduct scientific research, process, publish and patent their results.</p> <p>GC 8. Ability to communicate in the state language both orally and in writing.</p> <p>PC 3. Ability to apply basic knowledge of the organization of technological processes in the production and processing of livestock products.</p> <p>PC 8. Ability to use professional-profile knowledge and practical skills in assessing the quality of livestock products, its standardization and implementation.</p> <p>The result of studying the discipline is the students' acquisition of such knowledge and skills:</p> <ul style="list-style-type: none"> • use the basic legal acts of international and national biosafety systems. • to know the legal regulation of food quality in Ukraine and legal measures of compliance with biological safety in agricultural animal husbandry and food safety. • to know the problems of food quality and safety in the chain "soil - plant - feed - animal organism". • to control food raw materials and food products in terms of safety, standardization, quality management and certification of products. • to use knowledge on the organization of state control over the quality and safety of special food products, biologically active and food additives. • to observe environmental safety in the production of livestock products, non-waste production technologies.
Description of the discipline	
Preconditions necessary for the study of discipline	Selective academic discipline "Biosafety in the poultry industry" is based on the knowledge of such disciplines as

	"Chemistry", "Physiology of agricultural animals", "Cultivation of agricultural animals", "Feeding agricultural animals", "Ecology in animal husbandry" and "Safety of life and civil protection", studied in previous courses.
Maximum number of students who can simultaneously study	18 students
Topics of classroom lessons	<p>Topics of lectures</p> <ol style="list-style-type: none"> 1. Legal regulation of food quality in Ukraine and legal measures of compliance with biosafety in poultry farming and food safety 2. Basic legal acts of international and national biosafety systems 3. Organization of state control over the quality and safety of special food products, biologically active and food additives 4. Problems of food quality and safety in the chain "soil - plant - feed - animal organism". 5. General hygienic measures of biological safety of breeding, parental and industrial poultry flocks at the state and regional levels. 6. Control of food raw materials and food products by safety indicators Standardization, quality management and certification of products. 7. Food biosafety: definition of the concept 8. GMO - as a scientific and political problem 9. Technical regulation of the customs union on food safety 10. Ecological safety in the production of livestock products. Waste-free technologies. 11. Veterinary and sanitary control and general biosafety at the poultry enterprise 12. Ensuring biological safety of the hatchery environment. 13. Gas and dust emissions and methods of air purification of production facilities of poultry enterprises. <p>Topics of practical classes</p> <ol style="list-style-type: none"> 1. Assessment of the state of legal regulation of food quality in Ukraine and legal measures of compliance with biological safety and food safety. 2. Analysis of the main legal acts of international and national biosafety systems 3. Organization of state control over the quality and safety of special food products, biologically active and food additives 4. Problems of food quality and safety in the chain "soil - plant - feed - animal organism". 5. Factors of negative impact typical for the poultry industry and their control 6. Standardization, quality management and certification of products. 7. Food biosafety: definition of the concept 8. GMO - as a scientific and political problem 9. Technical regulation of the customs union on food safety 10. Use of ozone in poultry farming

	<p>11. Biogas plant - as an element of biological safety and energy saving in poultry farming</p> <p>12. Ways of ingestion of lead and cadmium in the body of poultry.</p> <p>13. Gas and dust emissions and methods of air purification of production facilities of poultry enterprises.</p>
Language of teaching	Ukrainian