

## Annotation of elective educational component

<b>Academic discipline</b>	<b>Biosafety in the field of poultry farming</b>
<b>Tutor</b>	<b>Karkach</b> Petro Mykhailovych PhD biological sciences, associate professor, Head of the Department of Technology of Poultry and Pig Production
<b>Courses and semesters, when the discipline is planning to study</b>	2 course (master degree) 3 semester
<b>Faculties whose students are invited to study discipline</b>	Biological-technological faculty
<b>List of competencies and learning-related outcomes that discipline provides</b>	<p>According to the requirements of the educational-professional program "Technology of production and processing of livestock products" applicants should acquire the ability to obtain the following competencies:</p> <p>GC 1 (general competence). Ability to abstract thinking, analysis and synthesis.</p> <p>GC 2. Skills in using information and communication technologies.</p> <p>PC 3 (professional competence). The ability to organize and control the implementation of measures aimed at improving the selection and breeding work in animal husbandry.</p> <p>FC 6. The ability to practically manage working or educational processes in the field of production and processing of products of animal origin, which are complex, unpredictable and require new strategic approaches.</p> <p>PC 7. Ability to create and apply systems and methods of processing animal products.</p> <p>PC 10. The ability to clearly and unambiguously convey one's own knowledge, conclusions and arguments to specialists and non-specialists, in particular to people who are studying.</p> <p>The result of studying the discipline is the acquisition by students of the following knowledge and skills:</p> <ul style="list-style-type: none"> <li>- to search for the necessary data in the scientific literature, databases and other sources, analyze and evaluate this data (to be able to apply the acquired knowledge to solve practical tasks regarding the creation of safe and harmless working conditions for workers engaged in the production and processing of livestock products; to evaluate the state of conditions and labor safety in the field of production and processing of livestock products, to identify problems and develop measures for making management decisions on increasing the level of occupational safety and health protection of employees);</li> <li>- to build and research models of technological processes of production and processing of livestock products, evaluate their adequacy, determine the limits of applicability (to know the systems and methods of safe maintenance of breeding, parental and industrial flocks of poultry at the state and regional level);</li> <li>- to communicate freely orally and in writing in the Ukrainian language and one of the foreign languages when discussing professional issues, research and innovations in the field of production</li> </ul>

	<p>and processing of livestock products and related problems (to be able to communicate freely orally and in writing in the Ukrainian language and one of the foreign languages when discussing professional issues, of research and innovation in the field of biosafety of the poultry industry);</p> <ul style="list-style-type: none"> <li>- to make effective decisions on the production and processing of animal husbandry products, including in difficult and unpredictable conditions, forecast their development, identify factors affecting the achievement of set goals, analyze and compare alternatives, assess risks and likely consequences of decisions (to know the legal regulation the quality of food products in Ukraine and legal measures for compliance with biological safety in agricultural animal husbandry and food safety; to know the main legal acts of international and national biosafety systems; to learn the methods of organizing state control over the quality and safety of special food products, biologically active and food additives);</li> <li>- to be responsible for the development of professional knowledge and practices, evaluation of the strategic development of the team, formation of an effective personnel policy (to be able to perform functional duties in the implementation of veterinary and sanitary control and general biosafety at the poultry enterprise; to know the technical regulations of the Customs Union on the safety of food products).</li> </ul>
<b>Description of the discipline</b>	
<b>Preconditions necessary for the study of discipline</b>	Selective academic discipline "Biosafety in the field of poultry farming" is based on the knowledge of such disciplines as "Biochemistry in animal husbandry", "Physiology of farm animals" "Animal Breeding", "Animal Feeding", "Ecology in animal husbandry", "Life safety in animal husbandry".
<b>Maximum number of students who can simultaneously study</b>	18 students
<b>Topics of classroom lessons</b>	<p><b>Topics of lectures</b></p> <ol style="list-style-type: none"> <li>1. Legal regulation of food quality in Ukraine and legal measures to observe biological safety in poultry farming and food safety.</li> <li>2. Basic legal acts of international and national biosafety systems.</li> <li>3. Organization of state control over the quality and safety of special food products, biologically active and food additives.</li> <li>4. Problems of quality and safety of food products in the chain "soil - plant - fodder - animal body".</li> <li>5. General hygienic biological safety measures of breeding, parental and industrial flocks of poultry at the state and regional level.</li> <li>6. Control of food raw materials and food products according to safety indicators Standardization, quality management and product certification.</li> <li>7. Biosafety of food products: definition of the concept</li> <li>8. GMOs as a scientific and political problem</li> <li>9. Technical regulation of the customs union on the safety of food products.</li> <li>10. Environmental safety in the production of livestock products. Waste-free technologies.</li> </ol>

	<p>11. Veterinary and sanitary control and general biosafety at the poultry enterprise.</p> <p>12. Ensuring the biological safety of the hatchery environment.</p> <p>13. Gas and dust emissions and methods of air purification in production premises of poultry enterprises.</p> <p><b>Topics of practical classes</b></p> <p>1. Assessment of the state of legal regulation of the quality of food products in Ukraine and legal measures for compliance with biological safety and food safety.</p> <p>2. Analysis of the main legal acts of the international and national biosafety systems.</p> <p>3. Organization of state control over the quality and safety of special food products, biologically active and food additives.</p> <p>4. Problems of quality and safety of food products in the chain "soil - plant - fodder - animal body".</p> <p>5. Factors of negative impact characteristic of the poultry industry and the fight against them.</p> <p>6. Standardization, quality control and product certification.</p> <p>7. Biosafety of food products: definition of the concept</p> <p>8. GMOs as a scientific and political problem.</p> <p>9. Technical regulations of the customs union on the safety of food products.</p> <p>10. Use of ozone in poultry farming.</p> <p>11. Biogas plant - as an element of biological safety and saving energy resources in poultry farming.</p> <p>12. Ways of getting lead and cadmium into the bird's body.</p> <p>13. Gas and dust emissions and methods of air purification in production premises of poultry enterprises.</p> <p>14. Modern air purifiers for poultry houses. Deodorization of poultry houses with the help of substances of various origins.</p>
<b>Language of teaching</b>	Ukrainian