

Abstract of compulsory educational component

Name of the discipline	INNOVATIVE TECHNOLOGIES OF PRODUCTION OF LIVESTOCK PRODUCTS
Lecturer	Lutsenko Maria Mykhailivna doctor of agricultural sciences, professor Heard of the Department of Milk and Meat Production Technology
Course and semester in which it is planned to study the discipline	Master's level of higher education, 2nd semester
Faculties whose students are invited to study the discipline	Biological-technological faculty
A list of competences and relevant learning results provided by the discipline	<p>According to the requirements of the educational and professional program "Technology of production and processing of livestock products", applicants must acquire the ability to acquire the following competencies:</p> <p>GC 1. Ability to abstract thinking, analysis and synthesis. GC 2. Ability to conduct research at the appropriate level. PC 2. Knowledge of the main technologies of production, procurement and storage of fodder, application of the latest technologies of preparation for feeding. PC 5. The ability to carry out organizational measures for the production of livestock products, solving practical tasks of professional activity, the basics of business communication, working with a team. PC 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. PC 9. Ability to apply modern methods and tools for researching production and processing technologies of animal husbandry products, as well as product quality assurance. 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"> - to evaluate and ensure the quality and safety of production technologies of animal husbandry products, fodder and fodder products, levels of animal nutrition and products of animal origin (possession of skills in evaluating the production technology of animal husbandry products. Analyze fodder); - to develop, implement and modernize effective technologies and processes in the field of production and processing of livestock products (to develop, modernize and implement more effective technological processes in the production and processing of livestock products); - to develop, modernize and implement more effective technological processes in the production and processing of animal husbandry products (to have a methodology for evaluating new resource-saving technologies for the production of animal husbandry products); - to apply modern mathematical methods, information technologies and specialized software for research and development in the field of technologies for the production and processing of livestock products

	<p>(to apply modern mathematical methods and software for evaluating researched technologies for the production and processing of livestock products);</p> <ul style="list-style-type: none"> - to search for necessary data in scientific literature, databases and other sources, analyze and evaluate data (use scientific and metric databases to search, evaluate and analyze literary sources); - to make effective decisions on production and processing of livestock products, including in difficult and unpredictable conditions, forecast their development, determine factors affecting the achievement of set goals, analyze and compare alternatives, assess risks and likely consequences of decisions (to make effective decisions to improve production technologies, forecast their development, analyze and compare the results of own research with those achieved, assess risks and likely consequences of decisions); - 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 apply the skills of independent work, show initiative and entrepreneurship, show the ability for continuous self-development and self-improvement).
Description of the discipline	
Previous conditions which are necessary for the study of the discipline	The compulsory educational component "Innovative technologies of production of livestock product" is based on the knowledge of such disciplines as "Technology of milk and beef production", "Technology of production of pig products", "Technology of production of poultry products", "Technology of production of small cattle products", "Biology of farm animals", "Modeling of technological processes in animal husbandry", "Software management of processes in the industry", studied in previous courses.
The maximum number of students who can study at the same time	75 students
Classroom topics	<p>Topics of lectures</p> <ol style="list-style-type: none"> 1. Introduction. Innovative directions of development of the livestock industry in Ukraine and abroad. 2. General concepts and basic initial criteria of modern farms of the new generation. 3. Volume-planning and technological solutions of new generation livestock farms with resource-saving production technologies. 4. Reconstruction of livestock premises as a way of introducing innovative technologies. 5. Modern machines and equipment for procurement, storage, preparation and distribution of fodder. 6. Ways to solve the efficiency of livestock production. 7. Innovative technologies in dairy farming 8. Innovative technologies in meat cattle breeding. 9. Innovative technologies in the field of pig breeding. 10. Innovative technologies in the poultry industry. 11. Innovative technologies in the field of sheep and goat breeding. <p>Topics of practical classes</p> <ol style="list-style-type: none"> 1. Study and generalization of systems of keeping cows on farms of different sizes. 2. Basic requirements for the intensive production technology of animal husbandry products. 3. The main initial criteria for the creation of modern farms of a new generation.

	<p>4. Development of design and technological solutions for the reconstruction of existing livestock premises for resource-saving technologies for the production of livestock products.</p> <p>5. Modern farm management systems of a new generation.</p> <p>6. Physiological aspects of the milking process. Organization of obtaining high-quality milk.</p> <p>7. Studying the technology of milking cows in milking parlors on installations such as "Parallel", "Carousel", "Herringbone" and using robotic milking systems.</p> <p>8. Development of new volume-planning and technological solutions for farms with resource-saving beef production technologies. Creation of fattening farms in peasant farms.</p> <p>9. Organizational forms and principles of work of pig farms.</p> <p>10. Technological equipment of pig farms and complexes.</p> <p>11. Technical and material support of poultry farms and poultry farms.</p>
Language of teaching	Ukrainian