

Annotation of compulsory educational component

Name of discipline	Methodology and organization of scientific research
Teacher	Sobolev Oleksander Ivanovych Doctor of agricultural sciences, Professor of the Department of technology in poultry and pig breeding
Course and semester, in which it is planned to study the discipline	5th year, 1st semester
Departments where students are invited to study the discipline	Faculty of Biotechnological
The list of competencies and related learning outcomes that provide discipline	<p>According to the requirements of the educational-professional program "204 Technology of production and processing of livestock products" applicants must acquire the ability to obtain the following competencies:</p> <p>GC 1. Ability for abstract thinking, analysis and synthesis. GC 2. Ability to conduct research at the level. GC 3. Ability to learn and master modern knowledge. GC 7. Ability to plan, organize and conduct scientific research, process, publish and patent their results.</p> <p>GC 1. The ability to use modern ideas about the principles of organization of the animal body based on knowledge about the course of physiological and biochemical processes.</p> <p>PC 3. The ability to use basic knowledge on the organization of technological actions in the production and processing of livestock products.</p> <p>PC 5. The ability to carry out organizational activities for the production of livestock products, solving practical problems of professional activity, the basics of business communication, working with a team.</p> <p>PC 8. The ability to use professional profile knowledge and practical skills for assessing the quality of livestock products, its standardization and implementation.</p> <p>The result of teaching the discipline is the acquisition by students of the following knowledge and skills:</p> <ul style="list-style-type: none"> - know the nature and role of research, their main types, subjects and levels of implementation of research results; - be able to find and analyze information from various sources to organize and support research and innovation; - be able to use the project approach of management in planning, organizing and conducting research; - know the main types and sources of scientific information; - be able to use information and communication technologies to obtain, process, store and disseminate professional and scientific and technical information; - know the principles of professional communication with participants in the labor process to achieve the ultimate goal of research and mutual understanding; - be able to justify the relevance of the scientific problem and determine the research topic; - be able to determine the purpose and objectives of scientific research; - be able to keep records of research results and scientific documentation; - be able to systematize and mathematically process research

	<p>results and formulate conclusions;</p> <ul style="list-style-type: none"> - be able to assess the economic efficiency of research results; - know the biological and physiological characteristics of animals in research activities; - know the features of scientific research on different species and technological groups of farm animals and poultry; - know the conceptual and categorical apparatus in the field of scientific activity; - know the basic principles of scientific methodology and stages of modern scientific research in the field of animal husbandry; - know the modern classification of experiments and types of zootechnical experiments; - be able to develop methods and justify the choice of research methods; - know the compositional structure and procedure for presenting the results of their own research in a scientific monograph, scientific article and abstracts of a scientific report.
Course description	
Prerequisites for the study of the discipline	<p>Mandatory academic discipline "Methodology and organization of scientific research" is based on the knowledge of such disciplines as "Technology of animal reproduction", "Feeding agricultural. Animals", "Hygiene and Animal Welfare", "Production Technology of Pig Breeding Products", "Production Technology of Poultry Products", "Production Technology of Sheep Breeding Products", "Production Technology of Beekeeping Products", "Production Technology of Rabbit Breeding and Fur Breeding Products", "Production Technology milk and beef", "Technology of production of aquaculture products", "Technology of processing of livestock products", "Economics and management of enterprises", which were studied at the first (bachelor's) level of higher education.</p>
Maximum number of students who can study	25 students
Topics of lessons	<p><i>Content module 1. Scientific activity. Basic principles of scientific methodology</i></p> <p>Topic 1.1. The concept, content and functions of science. Topic 1.2. Basic principles of scientific methodology. Topic 1.3. The structure of the study: substantiation of relevance, definition of the research topic, its purpose and objectives.</p> <p><i>Content module 2. Organization of scientific research and evaluation of scientific activity</i></p> <p>Topic 2.1. Classification of experiments. Topic 2.2. Carrying out measurements during experimental researches. Topic 2.3. Methodical bases of an estimation of economic efficiency of scientific researches. Topic 2.4. General provisions on intellectual property rights.</p>
Teaching language	Ukrainian