

Annotation of compulsory discipline

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| Academic discipline | Methodology and organization of scientific research |
| Tutor | Soboliev Oleksandr Ivanovych Doctor of agricultural sciences, Professor of the Poultry and Pig Production Technology Department |
| Courses and semesters, when the discipline is planning to study | 1 course (master degree), 1 semester |
| Faculties whose students are invited to study discipline | Biological-technological faculty |
| List of competencies and learning-related outcomes that discipline provides | <p>According to the requirements of the educational and professional program "Technology of production and processing of animal husbandry products", applicants must acquire 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>GC 4. Ability to search, process and analyze information obtained from various sources.</p> <p>PC 8 (professional competence). The ability to develop and implement scientific and applied projects in the field of technologies for the production and processing of animal husbandry products and related interdisciplinary areas, taking into account technical, economic, social, legal and environmental aspects;</p> <p>PC 9. Ability to apply modern methods and tools for researching production and processing technologies of animal husbandry products, as well as ensuring product quality.</p> <p>The result of studying the discipline is the students' acquisition of such knowledge and skills:</p> <ul style="list-style-type: none"> - to carry out research and/or carry out innovative activities with the aim of obtaining new knowledge and creating new technologies and products in the field of animal husbandry and in wider multidisciplinary contexts (to know the modern classification of experiments and types of zootechnical experiments; to know the main stages of scientific research; be able to determine the purpose and specific tasks scientific research, develop a methodology and justify the choice of scientific research methods; to be able to keep datas of research results and scientific documentation; to know the peculiarities of conducting scientific research on various species and technological groups of farm animals and poultry); - 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 (to be able to systematize, mathematically process the results of research and formulate conclusions; to be able to evaluate the economic effectiveness of the results of scientific research); - to search for the necessary data in scientific literature, databases and other sources, analyze and evaluate these data (to know the main types and sources of scientific information; to be able to use information and communication technologies to obtain, process, preserve and distribute professional and scientific and technical information); - 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 develop your general cultural and professional level; to know the basic forms and methods of work |

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| | organization and ways of their improvement; to know the principles of professional communication with participants in the labor process in order to achieve the final goals of scientific research and mutual understanding). |
| Description of the discipline | |
| Preconditions necessary for the study of discipline | Compulsory discipline "Methodology and organization of scientific research" is one of the disciplines in master's degree course of higher education in specialty 204 - Technology of production and processing of animal husbandry products. It is based on the knowledge of such disciplines as "Animal reproduction technology", "Animal Feeding", "Animal hygiene and welfare", "Pig farming technology", "Poultry farming technology", "Technology of production of animal husbandry products", "Technology of production of beekeeping products", "Technology of rabbit and fur animals products production", "Technology of milk and beef production", "Technology of aquaculture products production", "Technology of livestock products processing", "Economics and management of enterprises", which were studied at the first (bachelor's) level of higher education. |
| Maximum number of students who can study simultaneously | 75 students |
| Lesson plans | <p>Lectures</p> <ol style="list-style-type: none"> 1. Concept, content and functions of science. 2. Basic principles of scientific methodology. 3. Structure of the research: justification of relevance, definition of the topic of the research, its purpose and tasks. 4. Classification of experiments. 5. Conducting measurements during experimental research. 6. Methodological bases for evaluating the economic effectiveness of scientific research. 7. General provisions on intellectual property law. <p>Practical classes</p> <ol style="list-style-type: none"> 1. Zoohygienic microclimate control in livestock buildings and methods of determining its main parameters. 2. Production indicators of young cattle grown for meat and methods of their determination. 3. Productivity indicators of repair young cattle and methods of their determination. 4. Performance indicators of cows and methods of their determination. 5. Reproductive and productive qualities of sows and breeding boars and methods of their determination. 6. Productivity indicators of fattening young pigs and methods of their determination. 7. Indicators of rural-urban productivity. birds of commercial and parental flocks and methods of their determination. 8. Indicators of meat productivity of farm poultry and methods of their determination. 9. Sheep meat performance indicators and lamb quality. Methods of their determination. 10. Sheep wool productivity indicators and wool quality. Methods of their determination. 11. Honey quality indicators and methods of their determination. 12. Reproductive and productive qualities of fish breeders and methods of their determination. 13. Calculation of the economic efficiency of the results of completed scientific research. 14. Publication of the results of scientific research. |
| Language of teaching | Ukrainian |

