

## Annotation of selective discipline

<b>Academic discipline</b>	<b>Management of the breeding process in animal husbandry</b>
<b>Tutor</b>	<b>Stavetska Ruslana Volodymyrivna</b> Doctor of agricultural sciences, professor, Head of the Department of Animal Genetics, Breeding and Selection
<b>Courses and semesters, when the discipline is planning to study</b>	1 course (master degree), 2 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 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 received from various sources.</p> <p>PC 3. (professional competence). The ability to organize and monitor the implementation of measures aimed at improving the selection and breeding work in animal husbandry.</p> <p>PC 8. The ability to develop and implement scientific and applied projects in the field of technologies for the production and processing of livestock products and related interdisciplinary areas, taking into account technical, economic, social, legal and environmental aspects.</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 students.</p> <p>The result of studying the discipline is the students' acquisition of such knowledge and skills:</p> <ul style="list-style-type: none"> <li>- 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 (be able to use information systems and software tools, in particular the Statistica program, in livestock breeding to manage the breeding process);</li> <li>- to search for necessary data in scientific literature, databases and other sources, to analyze and evaluate these data (be able to create and effectively use databases of herd management programs; be able to create and work with MS Excel and Statistica databases);</li> <li>- to create measures to improve selection and breeding work in animal husbandry (to conduct selection and genetic techniques for increasing the genetic potential of farm animals; to be able to develop selection programs, to improve the breeding and productive characteristics of farm animals);</li> <li>- to manage the complex activities of production and processing of livestock products, determine goals and objectives, plan and distribute work, manage resources (planning and management of activities related to the creation of groups / herds of farm animals, poultry with a high level of development of desired breeding traits );</li> <li>- to make effective decisions on production and processing of livestock</li> </ul>

	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 (make effective decisions regarding the choice of a model of management of breeding processes in a breed or herd and implementing them in practice, forecasting their development and likely consequences of such decisions; reasonably choose and use information systems for managing the breeding process in animal husbandry).
<b>Description of the discipline</b>	
<b>Preconditions necessary for the study of discipline</b>	Selective discipline "Management of the breeding process in animal husbandry" 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 "Genetics with biometrics", "Animal breeding", "Technology of meat and beef production", "Technology of production of pig products", "Technology of production of sheep and goats products" "Technology of production of poultry products", "Horse breeding", "Economics and management of enterprises", "Information systems and technologies", studied in previous semesters.
<b>Maximum number of students who can study simultaneously</b>	20-25 students
	<p><b>Lectures</b></p> <ol style="list-style-type: none"> <li>1. Management of breeding processes in dairy and beef cattle breeding.</li> <li>2. Management of breeding processes in pig breeding.</li> <li>3. Management of breeding processes in poultry farming.</li> <li>4. Software tools for statistical analysis in animal husbandry.</li> <li>5. Using the Statistica program to manage the breeding process with livestock.</li> </ol> <p><b>Practical classes</b></p> <ol style="list-style-type: none"> <li>1. Dairy cattle management system"ORSEK".</li> <li>2. "Intsel" - the program of operational management of production and selection processes in pig farming.</li> <li>3. Automated information system in poultry farming.</li> <li>4. Basic biometric parameters in animal husbandry, their meaning and application.</li> <li>5. Use of the MS Excel application program package to manage the selection process.</li> <li>6. Creation of histograms and diagrams to control the selection process.</li> <li>7. Biometric data processing using Statistica statistical analysis package.</li> </ol>
<b>Language of teaching</b>	Ukrainian