

Annotation

Name of the discipline	Livestock wastes and their processing
Lecturer	Halyna Merzlova Candidate of Agricultural Sciences, Associate Professor of the Department of Safety and Quality of Food, Raw Materials and technological processes
Year of study, semester	2d,3 semester
Faculties, where the students are offered to study the discipline	Biologo-technological
List of competencies and learning outcomes provided by the discipline	<p>According to the requirements of the educational-professional program "Technology of production and processing of livestock products" applicants must acquire the ability to obtain the following competencies:</p> <p>Ability to conduct research at the appropriate level. Ability to learn and master modern knowledge. The desire to preserve the environment. The ability to plan, organize and conduct research, process, publish and patent their results</p> <p>The ability to apply basic knowledge of the organization of technological processes in the production and processing of livestock products.</p> <p>The result of teaching the discipline is the acquisition by students of the following knowledge and skills:</p> <p>Be able to combine abstract thinking with analysis and synthesis of technological processes in the processing of livestock waste.</p> <p>Know the methods and measures for conducting research on the disposal or processing of livestock waste.</p> <p>Be able to combine information and communication technologies</p> <p>Know the technology for processing livestock waste using vermiculture, synanthropic flies etc. - to calculate the parameters of separation systems and the efficiency of their work;</p> <p>Know the methods of animal waste processing and influence compliance with environmental requirements using non-waste or low-waste technologies of animal waste processing.</p> <p>Know the main directions and prospects for the development of animal waste disposal.</p> <p>Be able to apply foreign experience in animal waste processing.</p>
Discipline description	
Prerequisites needed for studying the discipline	The compulsory discipline "Livestock waste and their processing" is based on knowledge of such disciplines as "Feeding of agricultural products. animals ", " Technology of poultry production ", " Technology of milk and beef production ", " Technology of pig production ", " Technology of processing of livestock products "studied in previous courses.
Students' limit in a group	25

<p>Topics of in-class activity</p>	<p><i>Content module 1. Content of the subject, characteristics of livestock waste</i></p> <p>Topic 1.1. Regulations on academic integrity. The essence, content and meaning of the subject.</p> <p>Topic 1.2. Maturity, balances of processing enterprises.</p> <p>Topic 1.3. Manure biomass, urine.</p> <p><i>Content module 2. Methods of animal waste processing</i></p> <p>Topic 2.1. Disposal methods.</p> <p>Topic 2.2. Chemical and physical methods of utilization.</p> <p>Topic 2.3. Methanogenesis, vermiculture.</p> <p><i>Content module 3. Use of processed and fermented livestock waste</i></p> <p>Topic 3.1. Use of manure biomass.</p> <p>Topic 3.2. Use of meat, meat and bone, bone, feather, blood and fish meal.</p> <p>Topic 3.3. Application of humus, biomass of unicellular algae, biogas.</p>
<p>Language of teaching</p>	<p>Ukrainian, English</p>