

## SUMMARY

<b>Name of discipline</b>	<b>Normalized animal feeding systems</b>
<b>Teacher</b>	Oksana KUZMENKO candidate of agricultural sciences (PhD) Associate Professor of the Department of technology of feed, feed additives and feeding of animals
<b>Course and semester in which it is planned studying of discipline</b>	masters, the 2nd year, the 2, 3 semester
<b>Faculties which students are offered to study discipline</b>	Faculty of Biotechnological
<b>The list of competences and corresponding results of training that is provided by discipline</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 ability to acquire the following competencies:</p> <p>GC 1 Ability to abstract thinking, analysis and synthesis. GC 3. Ability to learn and master modern knowledge. GC 8. Ability to communicate in the state language both orally and in writing.</p> <p>PC 7. The ability to evaluate the nutritional value of feed, feed additives, enzyme preparations and other stimulants of animal productivity and develop science-based feeding systems.</p> <p>The result of studying the discipline is the acquisition by students of higher education of the following knowledge and skills:</p> <ul style="list-style-type: none"> <li>- Coordinate research at the appropriate level (know the physiological features of modern breeds, types and crosses of animals; know the features of digestion and metabolism of energy, nutrients, minerals and biologically active substances in animals);</li> <li>- Combine information and communication technologies (know the technique of developing and improving systems of complete feeding of animals to ensure high genetic potential; be able to determine the need of animals in energy, nutrients, minerals and biologically active substances);</li> <li>- Organize scientific research and process their results (know the peculiarities of animal feeding depending on the technological features of the production of various types of animal husbandry products; be able to design rations and feeding systems for cattle, sheep, pigs, horses; be able to develop recipes for combined feed, premixes, feed mixtures for the organization complete animal feed);</li> <li>- Implement different levels of animal nutrition and control the quality of fodder and fodder (know the methods of monitoring the completeness of the feeding of agricultural animals; be able to control the level and completeness of animal feeding);</li> </ul> <p>Combine measures to increase the level of productivity of animals and the quality of their products (know the peculiarities of conducting experiments on feeding agricultural animals; be able to organize experiments on animal feeding; be able to apply modern</p>

	domestic and foreign animal and poultry feeding systems using various technologies for the production of animal husbandry products).
<b>Description of discipline</b>	
<b>Preliminary conditions necessary for studying of discipline</b>	The selective educational discipline "Systems of rationed animal feeding" is based on the knowledge of such disciplines as "Physiology of rural and urban areas". animals", "Feeding rural animals", "Production, storage and quality control of fodder and feed additives", "Biochemistry in animal husbandry", studied at the first level of higher education, and "Biology of agricultural productivity. animals", "Technology of fodder and animal nutrition", studied in the first semester of master's studies in specialty 204 "Technology of production and processing of animal husbandry products"
<b>The maximum number of students who can study at the same time</b>	15 students
<b>Subjects of classroom occupations</b>	<p><b>Topics of lectures:</b></p> <ol style="list-style-type: none"> <li>1. Introduction about rationed feeding of animals. Rational feeding of highly productive animals.</li> <li>2. Standardized feeding of cattle and methods of its improvement.</li> <li>3. Evaluation of energy nutrition of feeds and rations in exchangeable energy.</li> <li>4. Modern approaches to the regulation of animal protein nutrition.</li> <li>5. Rationing of carbohydrates and fats in feeding cattle. The role of mineral nutrition for animals. Vitamins and their significance for the animal body.</li> <li>6. Modern fodder in animal feeding. Preservation of feed with biologically active additives.</li> <li>7. Combined fodder in animal feeding. Additives of various origins in animal feeding. Premixes in animal feed.</li> <li>8. Methods of research on metabolism and control of the completeness of animal feeding.</li> <li>9. Standardized feeding of cattle. Organization of modern standardized feeding of dairy cows.</li> <li>10. Modern systems of standardized pig feeding. Organization of feeding of sows and young pigs for growing for meat according to modern standards.</li> <li>11. Modern systems of rationed sheep feeding.</li> <li>12. Modern systems of standardized horse feeding.</li> <li>13. Modern poultry feeding systems. Organization of standardized feeding of chickens, ducks, geese, turkeys, etc. according to modern standards.</li> </ol> <p>Modern rabbit feeding systems. Modern systems of feeding fur animals.</p> <p><b>Topics of practical classes:</b></p> <ol style="list-style-type: none"> <li>1. Modern systems of standardized animal feeding.</li> <li>2. Rational feeding of highly productive animals according to modern standards.</li> <li>3. The concept of rationing cow feeding in advanced countries of the world.</li> <li>4. The latest system for assessing the nutritional value of feed by</li> </ol>

	<p>chemical composition and the amount of digestible nutrients.</p> <p>5. Evaluation of the energy nutritional value of fodder according to modern systems.</p> <p>6. Estimation of energy nutrition of feed by net energy of lactation (NEL).</p> <p>7. Modern methods of assessing protein, carbohydrate, lipid, mineral and vitamin nutrition of feed.</p> <p>8. Content in feed of dry matter and structural and non-structural carbohydrates. The content of protein fractions in fodder. The content of mineral substances and vitamins in fodder.</p> <p>9. Modern systems of rationed cattle feeding.</p> <p>10. Modern systems of standardized pig feeding.</p> <p>11. Modern systems of rationed sheep feeding.</p> <p>12. Modern systems of standardized horse feeding.</p> <p>13. Modern poultry feeding systems.</p> <p>14. Modern rabbit feeding systems. Modern systems of feeding fur animals.</p>
<b>Teaching language</b>	The Ukrainian