

Summary of compulsory discipline

Name of the discipline	Fodder technologies and animal nutrition
Teacher	Vitaliy Bomko doctor of agricultural sciences, professor, head of the department of feed technology, feed additives and animal feeding
Course and semester in which it is planned studying of discipline	1st year, 2nd semester
Faculties which students are offered to study discipline	Faculty of Biotechnological
The list of competences and corresponding results of training that is provided by discipline	<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>ZK 1. Ability to abstract thinking, analysis and synthesis. ZK 2. Ability to conduct research at the appropriate level. ZK3. Ability to learn and master modern knowledge. ZK 4. Skills in using information and communication technologies. ZK8. Ability to communicate in the national language both orally and in writing.</p> <p>FC2. Knowledge of the basic technologies, procurement and storage of fodder, application of the latest technologies of preparation for feeding. FC 7. The ability to evaluate the nutritional value of feed, feed additives, enzyme preparations and other stimulants of animal productivity and to 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> <p>Ability to abstract thinking, analysis and synthesis. Ability to conduct research at an appropriate level Ability to learn and master modern knowledge. Skills in using information and communication technologies The desire to preserve the natural environment Ability to communicate in the national language both orally and in writing. Knowledge of the basic technologies, procurement and storage of fodder, application of the latest technologies of preparation for feeding. The ability to evaluate the nutritional value of feed, feed additives, enzyme preparations and other stimulants of animal productivity and to develop science-based feeding systems.</p>

Discipline description	
Preliminary conditions necessary for studying of discipline	Mandatory study discipline "Technology of fodder and animal nutrition" is based on knowledge of such disciplines as "Feeding rural-urban animals", "Production, storage and quality control of fodder and feed additives", "Systems of standardized feeding of animals", "Technology of combined fodder production".
The maximum number of students who can study at the same time	25 students
Subjects of classroom occupations	<p>Topics of lectures</p> <ol style="list-style-type: none"> 1. Application of the latest technologies for procurement, storage and feeding of fodder. 2. Animal nutrition, as a science and function of the animal body. 3. Structure and nutritional properties of feed mono- and disaccharides 4. Structure and properties of feed polysaccharides and carbohydrate metabolism 5. Structure and properties of feed lipids and fat metabolism 6. Structure and properties of feed proteins and protein metabolism 7. Feed consumption and its regulation 8. Peculiarities of feed consumption in ruminants <p>Peculiarities of feed consumption in monogastrics animals</p> <ol style="list-style-type: none"> 10. Peculiarities of feed consumption in farm poultry. 11. Nutritional value and quality of animal products General provisions. 12. Nutritional value and quality of cattle products livestock 13. Nutritional value and quality of sheep products. 14. Complete nutrition and quality of pig products. 15. Nutritional value of laying hens and egg quality. 16. Nutritional value and meat quality of broilers. <p>Topics of practical classes</p> <ol style="list-style-type: none"> 1. Peculiarities of feeding rationing of highly productive cows. 2. A feed mixture recipe for feeding a lean dry cow in the first phase of the dry period. 3. A feed mixture recipe for feeding a lean dry cow in the second phase of the dry period. 4. Recipe for feed mixture for feeding a dairy cow during early lactation (0-100 days). 5. A recipe for feeding a dairy cow in the second period of lactation (101-200 days). 6. Recipe for feed mixture for feeding a dairy cow in the final period of lactation (201-305 days after calving). 7. Recipe for feed mixture for feeding single and farrowing sows.

8. A recipe for feed mixture for feeding a lactating sow.
9. A recipe for feed mixture for feeding repair young pigs.
10. A recipe for feed mixture for feeding young pigs for fattening.
11. A recipe for a complete ration compound feed for feeding laying hens.
12. A recipe for a complete ration compound feed for feeding broiler chickens.
13. A recipe for a complete ration compound feed for feeding broiler turkeys.
14. A recipe for a complete ration compound feed for feeding broiler ducks.
15. A recipe for a complete ration compound feed for feeding broiler geese.
16. A recipe for a complete ration compound feed for feeding quails.

Teaching language

The Ukrainian