

Summary of compulsory discipline

Name of the discipline	Technology of fodder 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	1 course (master degree), 1 semester
Faculties which students are offered to study discipline	Biological-technological faculty
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 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>PC 1 (professional competence). Ability to analyze and control the safety and quality of feed and feed products and animal nutrition.</p> <p>PC 5. Ability to organize business and financial activities and evaluate the economic efficiency of production and processing of products of animal origin.</p> <p>PC 6. The ability to practically manage working or educational processes in the field of production and processing of products of animal origin, which are complex, unpredictable and require new strategic approaches.</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 acquisition by students of the following knowledge and skills:</p> <ul style="list-style-type: none"> - to assess and ensure the quality and safety of technologies for the production of livestock products, fodder and feed, levels of animal nutrition and products of animal origin (to know the latest technologies for harvesting fodder and control their quality); - to search for the necessary data in scientific literature,

	<p>databases and other sources, analyze and evaluate these data (to monitor current data on the rationing of nutrients in the feeding of animals of various species and groups; analyze the results of studies on the nutrition of feed and rations);</p> <p>- to make effective decisions on issues of production and processing of livestock 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 (to compile complete ration mixtures for feeding cattle; to make complete ration mixes for feeding sheep and goats; to make complete ration mixes for feeding pigs; to make complete ration compound feeds for feeding poultry of various species).</p>
Discipline description	
Preliminary conditions necessary for studying of discipline	The compulsory educational discipline "Technology of fodder and animal nutrition" is based on the knowledge of such disciplines as "Animal feeding", "Production, storage and quality control of fodder and feed additives".
The maximum number of students who can study at the same time	75 students
Lesson plans	<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 carbohydrates and carbohydrate metabolism 4. Structure and properties of feed lipids and fat metabolism 5. Structure and properties of feed proteins and protein metabolism 6. Feed consumption and its regulation 7. Peculiarities of feed consumption in ruminants 8. Peculiarities of feed consumption in monogastrics animals 9. Peculiarities of feed consumption in agricultural birds 10. Nutritional value and quality of cattle products

	<p>livestock</p> <ol style="list-style-type: none"> 11. Nutritional value and quality of sheep products. 12. Nutritional value and quality of pig products. 13. Complete nutrition of laying hens and egg quality. 14. Nutritional value and meat quality of broilers. <p>Topics of practical classes</p> <ol style="list-style-type: none"> 1. A feed mixture recipe for feeding a fat dry cow in the first phase of the dry period. 2. A feed mixture recipe for feeding a lean dry cow in the second phase of the dry period. 3. Recipe for feed mixture for feeding a dairy cow during early lactation (0-100 days). 4. A recipe for feeding a dairy cow in the second period of lactation (101-200 days). 5. Recipe for fodder mixture for feeding a dairy cow in the final period of lactation (201-305 days after calving). 6. A recipe for feed mixture for feeding single and farrowing sows. 7. Recipe for feed mixture for feeding a lactating sows. 8. Recipe for feed mixture for feeding replacement young pigs. 9. Recipe for feed mixture for feeding young pigs for fattening. 10. A recipe for a complete ration compound feed for feeding laying hens. 11. A recipe for a complete ration compound feed for feeding broiler chickens. 12. A recipe for a complete ration compound feed for feeding broiler turkeys. 13. A recipe for a complete ration compound feed for feeding broiler ducks. 14. A recipe for a complete ration compound feed for feeding broiler geese.
Language	Ukrainian