



Lecturer of the course
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SYLLABUS OF THE DISCIPLINE

Nutrition of monogastric animals

Degree of higher education - Master's degree

Speciality 204 - Technology of production and processing of animal husbandry products

Academic year 2023-2024, semester 3

Form of study: full-time (full-time, part-time)

Number of ECTS credits: 4

The language of instruction is Ukrainian

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<https://elearn.nubip.edu.ua/course/view.php?id=1194>

DISCIPLINE DESCRIPTION

(up to 1000 additional characters)

The discipline aims to form students' knowledge and skills in feeding monogastric animals by the qualification characteristics of the speciality "Technology of production and processing of animal husbandry products".

The task of the discipline is to provide future specialists with knowledge of the biology of nutrition of monogastric animals, organisation of scientifically based feeding and monitoring of its completeness.

Since for future professional activity, the student needs knowledge of the main course of the discipline and special issues of complete feeding of animals of various species and groups, an important task is the development of the student's ability to acquire knowledge (independent educational work) independently, fostering a creative approach to solving current health care problems and productivity of animals (technique and mode of feeding, prevention of diseases, environmental safety, rational consumption of feed and reduction of energy consumption for production of livestock products).

By the goals of the educational discipline, requirements for the technologist's knowledge and skills in feeding monogastric animals have been developed.

Competencies of the educational program:

Integral competence (IC):

The ability to solve complex tasks and problems of professional activity in producing and processing animal husbandry products in the learning process involves conducting research and implementing innovations characterised by the uncertainty of conditions and requirements.

General competences (GC):

GC 1. Ability to abstract thinking, analysis and synthesis.

GC 4. Ability to search, process and analyse information obtained from various sources.

Professional (particular) competencies (PC):

Program learning outcomes (PLO) EP:

PLO 5. Search for necessary data in scientific literature, databases and other sources, and analyse and evaluate these data.

PLO 8. Communicate freely orally and in writing in Ukrainian and one of the foreign languages (English, German, Italian, French, Spanish, etc.) when discussing professional issues, research and innovations in the production and processing of livestock products and related problems.

COURSE STRUCTURE

Topic	Hours (lectures/laboratory, practical, seminar)	Learning outcomes	Task	Assessment
Module 1				
Topic 1. Introduction to the course. Peculiarities of digestion and absorption of feed nutrients in monogastric animals	6/6	Know the peculiarities of digestion and absorption of feed nutrients in pigs, horses, poultry, and fur animals.	Submission of laboratory and independent work (including in learn)	8
Topic 2. Structural and energetic transformations of the main nutrients in monogastric animals	4/4	Know the metabolism of proteins, fats and carbohydrates. Know the relationship between energy and structural transformations in the main, supporting and productive exchange	Submission of laboratory and independent work (including in learn)	8
Total for module 1			Writing the test	7
Module 2				
Topic 3. Pig feeding	2/2	Determine the feeding rate depending on the nature of sexual use for breeding boars and single, farrowing and suckling sows. Know the types of pig feeding. Be able to prepare rations for them. Be able to organise the mode and technique of feeding properly. Be able to control the completeness of feeding	Submission of laboratory and independent work (including in learn)	8
Topic 4. Horse feeding	2/2	Know the biological features of horses. Be able to prepare rations for breeding stallions mares during their preparation for insemination, during foaling, lactation,	Submission of laboratory and independent work (including in learn)	8

		working and sports horses		
Topic 5. Feeding rabbits	2/2	Know the peculiarities of rationing energy and protein nutrition of rabbits. Know the need of rabbits for nutrients and biologically active substances. Be able to prepare rations for different sex and age groups of rabbits	Submission of laboratory and independent work (including in learn)	8
Topic 6. Nutria feeding	2/2	Know the peculiarities of rationing energy and protein nutrition of nutria. Know the nutria's need for nutrients and biologically active substances. Be able to make rations for different sex and age groups of nutria	Submission of laboratory and independent work (including in learn)	8
Topic 7. Feeding fur animals	2/2	Know the peculiarities of rationing energy and protein nutrition of rabbits. Know the need of rabbits for nutrients and biologically active substances. Be able to prepare rations for different sex and age groups of rabbits. To know the biological features of fur animals, their need for nutrients and features of food rationing. Be able to prepare rations for different sex-age groups of fur animals. Know feed, mode and technique of feeding.	Submission of laboratory and independent work (including in learn)	8
Total for module 2			Writing the test	7
Just for semester				70
Exam				30
Total for the course				100

ASSESSMENT POLICY

<i>Deadlines and Rescheduling Policy:</i>	Works submitted late without good reason will be assigned a lower grade. Modules can be rearranged with the lecturer's permission if there are good reasons (for example, sick leave).
<i>Academic Integrity Policy:</i>	Copying during tests and exams is prohibited (including using mobile devices). Abstracts must have correct text references to the used literature.
<i>Attendance Policy:</i>	Attending classes is mandatory. For objective reasons (for example, illness, international internship), training can take place individually (in online form with the agreement of the dean of the faculty)

STUDENT ASSESSMENT SCALE

Rating of a higher education applicant points	The assessment is national for the results of exams and assessments	
	exams	credits
90-100	perfectly	counted
74-89	fine	
60-73	satisfactorily	
0-59	unsatisfactorily	not counted

RECOMMENDED SOURCES OF INFORMATION

1. Годівля сільськогосподарських тварин / І.І. Ібатуллін, Д.О. Мельничук, Г.О. Богданов та ін. – Вінниця: Нова Книга, 2007. – 616 с.
2. Дурст Л., Віттман М. Годівля сільськогосподарських тварин: Навч. посібник. Пер. з нім. / За ред. І.І. Ібатулліна та Г. Штрюбеля. – К.: Фенікс, 2006. – 384 с.
3. Практикум з годівлі сільськогосподарських тварин / І.І.Ібатуллін, Ю.О. Панасенко, В.К. Кононенко та ін. – К.: Вища освіта, 2015. – 432 с.
4. Богданов Г.А. Кормление сельскохозяйственных животных. – М.: Агропромиздат, 1990. – 620 с.
5. Деталізовані норми годівлі сільськогосподарських тварин: Довідник / М.Т. Ноздрін, М.М. Карпусь, В.Ф. Каравашенко та ін. – К.: Урожай, 1991. – 344 с.