



## SYLLABUS OF THE DISCIPLINE

### Technology of production and processing of crop and livestock products

Degree of higher education - Bachelor  
Specialty 051 "Economics"

The academic year 2023-2024, semester 1

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

Number of ECTS credits: 2

The language of instruction is Ukrainian

Lecturer of the course  
Lecturer contact  
information (e-mail)  
Back to the course in  
eLearning

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<https://elearn.nubip.edu.ua/course/view.php?id=2663>

### DISCIPLINE DESCRIPTION

(up to 1000 additional characters)

The formation of students' knowledge and skills in food technology and production of animal products is directly related to the preparation of "051 "Economics".

This discipline requires that these future specialists know the biological principles of breeding farm animals, the biology of life of domestic animals of various species and the organisation of scientifically based years. 1, technologies for preparing feed, methods for assessing livestock and nutritional content, monitoring the usefulness of yearling animals, basic parameters and principles of production technology. The main types of economic products in states with different forms of power are driven by unique production and its intensification.

It is impossible to provide the student with absolutely sufficient knowledge of the discipline for his future activity, essential tasks and development of the student's ability to independently acquire knowledge (independent initial work), fostering a creative approach to the growing problems of technology for the production of animal products with low productivity and high profitability.

#### Competence acquisition:

##### Integral competence (IC):

The ability to solve complex, specialised tasks and practical problems in the economic sphere, which are characterised by the complexity and uncertainty of conditions, involves the application of theories and methods of economic science.

##### General competences (GC):

GC 4. Ability to apply knowledge in practical situations.

GC 9. Ability to adapt and act in a new situation.

GC 11. Ability to make informed decisions.

##### Professional (particular) competencies (PC):

PC 14. The ability to deeply analyse problems and phenomena in one or more professional areas, considering economic risks and possible socio-economic consequences.

##### Program learning outcomes (PLO):

PLO 5. Apply analytical and methodical tools to substantiate proposals and make managerial decisions by various economic agents (individuals, households, enterprises and state authorities).

PLO 12. Apply the acquired theoretical knowledge to solve practical problems and interpret the results meaningfully.

### COURSE STRUCTURE

Topic	Hours	Learning outcomes	Task	Assessment
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	(lectures/laboratory, practical, seminar)			
<b>One semester</b>				
<b>Module 1</b>				
<b>Topic 1. Organisation of breeding work in animal husbandry</b>	2/2	<p>Know about reproduction methods (natural and artificial) and their advantages and disadvantages.</p> <p>Use of biotechnological methods to increase animal productivity. The concept of the breed, its structure.</p> <p>Classification of breeds. Selection and selection, methods of breeding agricultural animals.</p>	Submission of laboratory work (including in learn)	<b>23</b>
<b>Topic 2. Fodder and assessment of their nutritional value</b>	2/2	<p>Will know the classification of feeds by origin and concentration of nutrients in them—characteristics of their fodder value.</p> <p>We will have a concept of feed, chemical composition, factors affecting chemical composition, and their nutritional value.</p>	Submission of laboratory and independent work (including in learn)	<b>23</b>
<b>Topic 3. Standardised feeding of farm animals</b>	3/3	<p>We will have a concept of normalised complete feeding and the needs of animals in nutrients. Know what a maintenance and productive level of feeding is. Know what a ration is, its structure, and its type and feeding level. Will know the general principles of rations for different kinds of animals.</p>	Submission of laboratory and independent work (including in learn)	<b>24</b>
<b>Test for module 1</b>			Writing the test	<b>30</b>
<b>Total for module 1</b>				<b>100</b>

<b>Module 2</b>				
<b>Topic 4. Production technology of livestock and small animal husbandry products</b>	2/2	<p>Know the Meaning and biological features of cattle, sheep, and goats. Milk productivity of cows and factors determining it (level of feeding, breed, age of first calving, service period, dry period, live weight). Chemical composition and biological properties of milk. Lactation and its duration. The concept of milk production technology and its components. Technology of beef production in dairy and dairy-meat cattle breeding. Milk, meat, down and wool productivity of goats. Goat breeds. Reproduction of the herd, feeding and maintenance of goats</p>	Submission of laboratory and independent work (including in learn)	<b>17</b>
<b>Topic 5. Production technology of pig and rabbit breeding products</b>	2/2	<p>Know the Economic and biological features of pigs. Pork's biological and nutritional value and its importance in providing the scientifically based human need for nutrients. Classification of pig breeds according to productivity. Pork production technologies. Economic importance of rabbit breeding. Fur and meat productivity of rabbits. Breeding, feeding, maintenance and</p>	Submission of laboratory and independent work (including in learn)	<b>18</b>

		care of rabbits.		
<b>Topic 6. Production technology of poultry products</b>	2/2	Know the Importance of the industry and biological features of poultry. The technology of production of chicken eggs. Broiler meat production technology.	Submission of laboratory and independent work (including in learn)	<b>17</b>
<b>Topic 7. Production technology of beekeeping products</b>	2/2	Know the Development of beekeeping in Ukraine and the world. Breeds of bees. Breeding work with bees. Feeding and maintenance of bees. Types of products.	Submission of laboratory and independent work (including in learn))	<b>18</b>
<b>Test for module 2</b>			Writing the test	<b>30</b>
<b>Total for module 2</b>				<b>100</b>
<b>Just for one semester</b>				<b>70</b>
<b>Exam</b>				<b>30</b>
<b>Total for the course</b>				<b>100</b>

### ASSESSMENT POLICY

<b><i>Deadlines and Rescheduling Policy:</i></b>	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).
<b><i>Academic Integrity Policy:</i></b>	Copying during tests and exams is prohibited (including using mobile devices). Abstracts must have correct text references to the used literature.
<b><i>Attendance Policy:</i></b>	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

- Ібатуллін І.І., Жукорський О.М. Довідник з повноцінної годівлі сільськогосподарських тварин / за ред. І.І. Ібатулліна. Київ : Аграрна наука, 2016. 336 с.
- Іваненко Ф. В. Технологія виробництва і переробки продукції тваринництва : навч. посіб. Київ : КНЕУ, 2014. 125 с.

3. Норми, орієнтовні раціони та практичні поради з годівлі великої рогатої худоби : посібник / І.І. Ібатуллін та ін. Житомир: ПП «Рута», 2013. 516 с.
4. Патрєва Л.С., Коваль О.А. Технологія виробництва продукції тваринництва : курс лекції. Миколаїв : МНАУ, 2017. 277 с.
5. Технологія виробництва продукції тваринництва : підручник / О.Т. Бусенко та ін. Київ : Агроосвіта, 2013. 492 с.