



SULAWE LLL course description

Code Code	Title of the course The role of zootechnical counting in sustainable dairy cattle
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1. Learning Objectives of the course

Qualification objectives

overall objectives of the course

general objectives of the course

- ✓ understanding of the basic principles and methods of zootechnical accounting used in dairy farming;
- ✓ requirements of legislation and standards related to zootechnical accounting in dairy farming;
- ✓ to teach participants specific methods of zootechnical accounting that can be applied in natural conditions of dairy farming;
- ✓ to use accounting information to make informed management decisions aimed at improving the efficiency and profitability of the dairy business;
- ✓ increasing production efficiency by keeping zootechnical records;
- ✓ familiarization with modern digital methods of zootechnical accounting in dairy farming.

Which knowledge, skills, competences should be acquired disciplinary and interdisciplinary?

Disciplinary:

- Knowledge of fundamental aspects of dairy cow physiology and genetics, including development, reproduction, and breed characteristics.
- Understanding dairy cows' feeding and maintenance requirements to ensure their health, performance, and welfare.
- Knowledge of reproductive management techniques in dairy cattle, including artificial insemination, cycle, and pregnancy control.
- Understanding of significant diseases and health problems in dairy cattle and diagnostic and treatment skills.
- Knowledge of modern methods and technologies for breeding dairy cattle.

Interdisciplinary:

- Ability to analyze animal performance and health data to make informed decisions about dairy farming management.
- Ability to effectively manage financial, human, and material resources to achieve strategic goals of the dairy business.
- Use modern information technologies for accounting and data analysis in dairy farming.

Summary of the Content

Which professional, methodological, practical and interdisciplinary contents will be delivered?

The content of the course includes a set of theoretical and practical material on keeping zootechnical records in dairy farming, namely:

- ✓ zootechnical accounting and its role in dairy farming, basic concepts, and terms, requirements for the accuracy and objectivity of zootechnical accounting;
- ✓ reproduction management in dairy farming;



<ul style="list-style-type: none"> ✓ value of pedigree data in zootechnical accounting and management decision-making; ✓ methods of evaluating the productivity of dairy cows; ✓ identification of animals its meaning; ✓ use of information technologies for zootechnical accounting and data analysis.
<p>Target group Who is the intended target group of the course?</p> <p>Managers of small and medium-sized farms, scientific and pedagogical workers, and higher education students.</p>
<p>Teaching/learning forms (summary) e.g., online, hybrid, problem lecture, lecture-dialogue, binary lecture, lecture-consultation, seminar (- with exercise), lab work, workshop etc.</p> <p>hybrid form of teaching, problem lecture, lecture-dialogue, practical classes</p>

2. Preconditions for participation

Knowledge, skills, competences	<p>Which knowledge, skills, competences are required for successful participation?</p> <p>To successfully master the course, participants must have basic knowledge of keeping zootechnical and breeding records in dairy farming, as well as know modern automated systems for managing dairy farming and understand the principles of their operation.</p>
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3. Recognition of participation

<p>e.g., Certificate of participation issued by XX university or other recognition possibilities e.g Recognized as a training course for Veterinarians</p> <p>Participants will be issued certificates of completion of the course "Zootechnical accounting in dairy farming" with a volume of 30 hours (1 ECTS credit). The certificate will be recognized as a professional development course for economic specialists and scientific and pedagogical workers or as a result of non-formal/informal education for students of higher educational institutions.</p>

4. Organisation of the course

<p>Responsible for the course Prof. Nataliia Mazur</p>		
<p>Duration e.g., 1 or 2 days or 6-12 hours</p>	<p>Max. number of participants</p>	<p>Preparation/ follow up/ self-study</p>
<p>30 hours</p>	<p>20 participants</p>	<p>Self-study</p>



5. Structure of the course content

Title of training section	Duration and % of the entire program	Methods/Formats used	Responsible person
The importance of zootechnical accounting in dairy farming	10 %	Lecture	Svitlana Popadiuk , candidate of agricultural sciences, associate professor, associate professor of the department of technology of production and processing of animal husbandry products
Regulatory and legal basis for keeping zootechnical and breeding records in Ukraine	10 %	Lecture	Yuriy Kropyvka , candidate of agricultural sciences, associate professor, associate professor of the department of genetics and animal breeding
Modern automated dairy management systems (overview)	20 %	Lecture	Nataliia Mazur , doctor of agricultural sciences, senior lecturer of the department of production and processing technology of animal husbandry products
Assessment of productive traits in dairy cattle for accurate accounting	10 %	Lecture-dialogue, Practical lesson	Nataliia Mazur , doctor of agricultural sciences, senior lecturer of the department of production and processing technology of animal husbandry products
Practical skills of using System of the dairy cattle management (SDCM) "Orsek"	20 %	Practical lesson	Petro Bodnar , candidate of agricultural sciences, associate professor, associate professor of the department of genetics and animal breeding



UniformAgri dairy management system	20 %	Practical lesson	Petro Bodnar , candidate of agricultural sciences, associate professor, associate professor of the department of genetics and animal breeding
Modern digital technologies in keeping zootechnical and breeding records in dairy farming	10 %	Lecture	Andriy Boyko , candidate of agricultural sciences, associate professor, dean of the biological and technological faculty