SULAWE LLL course description

Code	Title of the course
Code	Proper calf rearing - the key element to a sustainable dairy production

1. Learning Objectives of the course

Qualification objectives
overall objectives of the course

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

general objectives of the course

- ✓ deepening knowledge about the optimal conditions for keeping calves;
- ✓ familiarization with effective calf feeding strategies;
- ✓ mastering modern technologies in the field of raising calves;
- ✓ study of preventive measures to avoid diseases, vaccination, strategies of treatment, and care of sick calves;
- ✓ mastering the practical aspects of farm planning and management;
- ✓ familiarization with the principles of sustainable development in raising calves.

Summary of the Content
Which professional, methodological, practical and interdisciplinary contents will be delivered?

- **knowledge of** physiology, feeding, breeding, and selection of animals, veterinary medicine, fodder production, economics, and farm management.
- **skills, abilities, competencies** - skills of feeding and caring for calves; being able to recognize and solve calf health problems; being able to use various equipment for feeding, health monitoring, and control of calf keeping conditions; being able to keep the necessary documentation; be able to collect and analyze data on health, feeding, growth and other parameters of calves.

Target group
Who is the intended target group of the course?

The content of the course includes a set of theoretical and practical material on the basics of raising young cattle, namely::

- ✓ growth, development, and physiological characteristics of calves in the first year of life;
- ✓ maintenance and feeding requirements to ensure optimal health of calves;
- ✓ selection of suitable breeds for dairy production;
- ✓ the importance of genetics in raising calves for the dairy business;
- ✓ familiarization with the main components of the ration for calves;
- ✓ modern feeding systems and their impact on the health and development of calves;
- ✓ modern technologies in raising calves and their effect on the efficiency of the dairy business;
- ✓ the most common diseases of calves and their prevention, planning of vaccinations, and parasite control programs;
- ✓ maintenance hygiene and well-being of calves, and its impact on health and future productivity.

Target group Who is the intended target group of the course? Managers of small and medium-sized farms, scientific and pedagogical workers, and higher education students.
Teaching/learning forms (summary) e.g., online, hybrid, problem lecture, lecture-dialogue, binary lecture, lecture-consultation, seminar (- with exercise), lab work, workshop etc. The hybrid form of teaching, problem-based lecture, lecture-dialogue, lecture-consultation, online tour, consideration of specific cases, practical tasks

2. Preconditions for participation

Knowledge, skills, competences	Which knowledge, skills, competences are required for successful participation? To successfully master the course, participants must have basic knowledge of animal husbandry and veterinary medicine, understand the physiological processes of growth and development of calves in different periods of rearing, know technologies in the field of calf rearing, and have minimal dairy farm management skills.

3. Recognition of participation

e.g., Certificate of participation issued by XX university or other recognition possibilities e.g Recognized as a training course for Veterinarians Participants will be issued certificates of completion of the 30-hour course "Proper calf rearing - the key to a successful dairy business" (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.

4. Organisation of the course

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

5. Structure of the course content

Title of training section	Duration and % of the entire program	Methods/Formats used	Responsible person
Ethology and well-being of calves	10 %	Problem lecture, consideration of specific cases, practical tasks	**Ihor Dvylyuk,** candidate of veterinary sciences, associate professor,

			associate professor of the department of hygiene, sanitation and general veterinary prevention named after M. I. Demchuk
Physiological features of growth and development of calves in the first year of life	10 %	Problem lecture, lecture-dialogue	**Petro Bodnar,** candidate of agricultural sciences, associate professor, associate professor of the department of genetics and animal breeding
Selectional aspects of proper breeding of calves	10 %	Problem lecture, lecture-dialogue, practical tasks	**Nataliia Mazur,** doctor of agricultural sciences, senior lecturer of the department of production and processing technology of animal husbandry products
Technology of feeding calves during their growing period	20 %	Problem lecture, lecture-dialogue, consideration of specific cases, practical tasks	**Yuriy Kropyvka,** candidate of agricultural sciences, associate professor, associate professor of the department of genetics and animal breeding
Importance of genetics in calf breeding for the dairy business	10 %	Problem lecture	**Andriy Zhmur,** assistant professor of the department of genetics and animal breeding
Modern calf rearing technologies and their impact on dairy business efficiency	20 %	Problem lecture, lecture-dialogue, practical tasks	**Andriy Boyko,** candidate of agricultural sciences, associate professor, dean of the biological and technological faculty
The most common diseases of calves and their prevention	10 %	Lecture-consultation, consideration of specific cases, practical tasks	**Bohdan Gutiy**, doctor of veterinary sciences, professor, head of the department of hygiene, sanitation and general veterinary

			prevention named after M. I. Demchuk
Hygiene of keeping calves	10 %	Problem lecture, lecture-dialogue, practical tasks	**Nadiia Magrelo,** candidate of veterinary sciences, associate professor, assistant professor of the department of hygiene, sanitation and general veterinary prevention named after M. I. Demchuk