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| **Title and Code of the subject**:Management of Livestock Farms MTMAL7023A | **ECTS Credit Points: 4** |
| **Type** of the subject: compulsory |
| **Ratio of theory and practice: 70/30** (credit%) |
| **Type and number of classes per semester**: 28 hours lecture and 28 hour practice per **semester**  |
| **Type of exam**: written exam |
| **Subject in the curriculum:** semester 4 |
| Preliminary requirements:Planning of animal farms |

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| **Summary of content - theory**: The course is built on the best practices applied on livestock in different species covering the traditional, ecological and modern farm environment. During this course the student synthetises their breeding, physiological, nutritional, animal welfare, human resource knowledge into a coherent management practice. The learn how to combine these elements in a farm to be socially, economically and environmentally viable.  |
| Course objectives: Having fulfilled the course, students will be able to apply good farm management practices and critically choose between available technologies, management practices.1. Preparation of cows for calving, transition phase: feeding, health, equipment, building, human resources. Best practices
2. Calving management (beef and dairy)
3. Calf management. Best practices
4. Management of heifers after weaning till calving
5. Management of cows during the lactation
6. Principles of lean farming
7. Management of sows and boars
8. Management of piglets and fattening pigs
9. Management of ewes and rams (meat and dairy)
10. Management of lambs before and after weaning
11. Hatching management
12. Management of egg production
13. Management of broiler production
14. Management of water birds
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| **Summary of content - practice**: The students will acquire the practical application skills in dealing with large and small livestock farms. They can apply best practices in designing and operating a farm.  |
| Skills to be learnt: Understand the different aspects and problems arising from farm management in the dominant species. They will understand the difference arising from the management of a traditional farm and modern farm. The students will be able to choose the relevant management strategies and also they will be able to find literature in the topic and critically analyse it.1-2. Visit dairy farms3-4. Visit beef farms5-6. Visit pig farms7. Visit broiler farms 8. Visit sheep farms9-10. Visit egg layer farms 11-12. Visit turkey farms13-14. Visit duck and geese farms |
| **Literature, handbooks in English**  |
| 1. J. Hocken, M. Hocken (2019): The Lean Dairy Farm: Eliminate Waste, Save Time, Cut Costs  - Creating a More Productive, Profitable and Higher Quality Farm. John Wiley and Sons  Australia LtD. ISBN-10: 0730368416.2. B. Hartman (2015): The Lean Farm. Chelsea Green Publishing. ISBN 978-1-60358-592-7 3. G. Caldwell (2014): The Small-Scale Dairy: The Complete Guide to Milk Production for the  Home and Market. Chelsea Green Publishing. ISBN-10: 16035850014. T. G. Field, R. W. Taylor: (2020) Beef Production Management and Decisions. Pearson.  ISBN-13: 978-0131198388 5. J. Court, S. Hides, J. Webb-Ware (2010): Sheep farming meat and wool. CSIRO Publishing.  ISBN: 9780643092945 6. Honnapagol, Suresh, H (2014): Broiler farming and management. JAYPEE. ISBN-13: 978- 9351521686 |
| **Competencies gained** *(acc. to the Regulation on training and outcome requirements)* |
| 1. **Knowledge:**

The Student knows the modern farming background that are necessary to operate both traditional and modern livestock farms.1. **Skills:**

The Student will be able to perform research and innovation tasks, furthermore, to coordinate and organise farm advisory service for animal farms. The Student will be able to participate in agricultural and natural science research connected to livestock farming. The Student will be able to design and analyse different farming practices. **c)** **Attitude:**The Student is responsive for the application of methods in sustainable farming. The Student considers the different requirements of species, breeds and workers. **d) Autonomy and responsibility:**The Student can independently select the suitable farm improvement technology. The Student is aware of the responsibility for the safety of the animals kept by her/his contribution.  |

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| **Responsible lecturer: Dr. Komlósi István, university professor DSc** |
| **Other lecturer(s): Dr. Posta János, senior lecturer, PhD** |

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| **Terms of course completion:** |
| 1. Completing assignments / exercises
2. The presence on 2/3-rd of the classes.
3. Active participation in group discussion.
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| **Form of examination:** |
| Monitoring the progress, mid-term paper, final exam mark. |
| **Requirement(s) to get signature:** |
| Completing the independent tasks |

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| **Exam questions:** |
| 1. What are the main problems in the preparation of cows for calving?
2. Please describe the calving from the animal and human resource point of view.
3. What methods are existing in heifers management after weaning till calving
4. What are the main issues during the lactation?
5. What are the principles of lean farming?
6. What is the difference between sow and boar management?
7. Please describe piglets and fattening pigs practices.
8. What is the difference in ewe and ram management practices?
9. What methods are known in lamb management?
10. Please describe the good hatching management and problems.
11. What are the key points in egg production?
12. Please describe different broiler management practices.
13. What is the difference between different water bird species in management?
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