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| **Title and Code** of the subject: **Ecological Management of Farm Animals (MTMAL7026A)** | **ECTS Credit Points: 3** |
| **Type** of the subject: optional | |
| **Ratio of theory and practice: 70/30** (credit%) | |
| **Type and number of classes per semester**: 28 hour(s) lecture and 14 hour(s) practice per **semester**  Number of teaching hours / week: 2+1 (lecture and practice) | |
| **Type of exam**: exam | |
| **Subject in the curriculum:** semester 2 | |
| Preliminary requirements:- | |

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| **Summary of content - theory**: |
| Course objectives: During the semester students will know the specificity of ecological animal production systems, livestock farming, regulations and importance of organic production. The impact of ecological production on environment is a main issue. Production efficiency, animal breeds, housing, feeding, technologies of conventional and organic production will be compared.   1. Introduction to ecological animal production 2. Definitions and principles of ecological production. Organic livestock farming. 3. Regulations, restrictions of ecological production 4. Regulations, restrictions of ecological production 5. Importance of organic animal production in the world 6. The role and importance of grassland management and grazing in the world 7. Possibilities and methods of livestock grazing, animal production on grassland 8. Grazing and ecological footprint 9. Organic pig production 10. Organic egg production 11. Organic broiler production 12. Organic waterfowl production 13. Organic dairy production 14. Organic beef production |
| **Summary of content - practice**: |
| Skills to be learnt: Students visit livestock farms to see how an animal production systems operate. Animal feeding, housing, rearing/fattening of different ages will be studied. Grazing technologies in ecological production is an essential part of the practice.   1. Farm visit: sheep farm (meat type, grazing) 2. Farm visit: sheep farm (meat type, grazing) 3. Farm visit: sheep farm (meat type, grazing) 4. Farm visit: sheep farm (meat type, grazing) 5. Farm visit: sheep farm (meat type, grazing) 6. Farm visit: goose farm (meat type) 7. Farm visit: goose farm (meat type) 8. Farm visit: goose farm (meat type) 9. Farm visit: goose farm (meat type) 10. Farm visit: dairy or beef cattle farm 11. Farm visit: dairy or beef cattle farm 12. Farm visit: dairy or beef cattle farm 13. Farm visit: dairy or beef cattle farm 14. Farm visit: dairy or beef cattle farm |
| **Literature, handbooks in English** |
| Hodgson, J. (1998): The Ecology and Management of Grazing Systems. Oxford University Press  Bootroyd, J (2008): Animals and the Environment. Lerners Publishing Group  Chaerika, N. et al. (2003): Know to move, move to know. Ecological knowledge and herd management strategies. FAO.  Bohlen, P, J. Staff (2008): Sustainable Agroecosystem management. Integrating: ecology, Economics and Society. CRC Press LLC. . |
| **Competencies gained** *(acc. to the Regulation on training and outcome requirements)* |
| 1. **Knowledge:**   - Knows the life science and biological basics of animal breeding  - Knows the regulations concerning animal breeding and welfare   1. **Skills:**  * Able to implement new technologies and methods * Able to work in a specific section of rural development  1. **Attitude:**  * Able to apply sustainable and environmental friendly systems  1. **Autonomy and responsibility:**   - Able to choose technologies independently  - Responsible for the safety of food and feed produced with her/his contribution |

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| **Responsible lecturer: Levente Czegledi PhD, Associate Professor** |
| **Other lecturer(s): -** |

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| **Terms of course completion:** |
| 1. Completing exercises 2. Giving presentation |
| **Form of examination:** |
| written |
| **Requirement(s) to get signature:** |
| Attendance at lectures is recommended, but not compulsory.  Participation in practice is compulsory. Students must attend the practice classes and may not miss more than three times during the semester. In case a student does so, the subject will not be signed and the student must repeat the course. Attendance at practice classes will be recorded by the practice leader. |

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| **Exam questions:** |
| 1. Definitions and principles of ecological production. Organic livestock farming. 2. Regulations, restrictions of ecological production - feed 3. Regulations, restrictions of ecological production – animal breed, animal health 4. Regulations, restrictions of ecological production – housing and husbandry 5. Importance of organic animal production in the world 6. The role and importance of grassland management and grazing in the world 7. Possibilities and methods of livestock grazing, animal production on grassland 8. Grazing and ecological footprint 9. Organic vs. conventional systems (animal performance, technologies) 10. Organic pig production 11. Organic egg production 12. Organic broiler production 13. Organic waterfowl production 14. Organic dairy production 15. Organic beef production |