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| **Title and Code of the subject**:Organisation of Breeding MTMAL7010A | **ECTS Credit Points: 3** |
| **Type** of the subject: compulsory |
| **Ratio of theory and practice: 100/0** (credit%) |
| **Type and number of classes per semester**: 28 hours lecture per **semester**  |
| **Type of exam**: written exam |
| **Subject in the curriculum:** semester 2 |
| Preliminary requirements:Animal genetics |

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| **Summary of content - theory**: The students will acquire the application skills in dealing with breeding organisations, setting up breeding programs for different species, calculating economic weights, organising shows, exhibitions, communicating with farmers and government officials. |
| Course objectives: Having fulfilled the course, students will be able to apply the breeding program in different situations and participate in the work of breeding organisations. 1. Breeding objectives in ruminant animals, economic and management circumstances
2. Breeding objectives in monogastric animals, economic and management circumstances
3. Calculation of economic values
4. Breeding pyramid
5. Rules, Laws and Registrations related to animal breeding
6. Animal breeding organisations
7. Conformation assessement
8. Databases of breeding organisations
9. Communication of animal breeding organisations (webpages, newsletters, exhibitions, open days)
10. Breeding Programs of horse associations
11. Breeding programs of companion animal associations
12. Breeding programs of ruminant animal associations
13. Breeding programs of monogastric animal associations
14. Project presentation
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| **Literature, handbooks in English**  |
| 1. FAO: Breeding Strategies for Sustainable Management of Animal Genetic  Resources. ISBN10-92510639152. FAO: Developing Sustainable Value Chains for Small-Scale Livestock Producers:  FAO Animal Production and Health Guidelines No. 21. ISBN-10: 9251317186 3. V. Porter, L. Anderson (2016): Mason’s World Encyclopedia of Livestock Breeds and  Breeding. CABI Publishing. ISBN-10: 1845934660 4. B. Kinghorn, J. van der Werf, M. Ryan (2014): Animal breeding. Use of New Technologies.  The Post-Graduate Foundation in Veterinarian Science of the University of Sydney.  ISBN 0 646 387138 |
| **Competencies gained** *(acc. to the Regulation on training and outcome requirements)* |
| 1. **Knowledge:**

The Student knows the modern genetic background that are necessary to design an up-to date breeding program.1. **Skills:**

The Student will be able to perform research and innovation tasks furthermore to coordinate and organise advisory service for animal breeding organisations. The Student will be able to participate in agricultural research connected to livestock breeding. The Student will be able to design and analyse breeding programs. **c)** **Attitude:**The Student is responsive for the application of methods in sustainable programs. The Student considers the different requirements of species, breeds a breeders. **d) Autonomy and responsibility:**The Student independently select the suitable breed improvement programs. The Student is aware of the responsibility for the safety of the animals bred 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 examination. |
| **Requirement(s) to get signature:** |
| Completing the independent tasks and present the project |

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| **Exam questions:** |
| 1. What are the breeding objectives in ruminant animals and how the economic and geographic circumstances changes these objectives?
2. What are the breeding objectives in monogastric animals how the economic and geographic circumstances changes these objectives?
3. What type of calculation methods is known for economic values?
4. What is the role of the participants in a breeding pyramid?
5. What are the principles of rules, laws and registrations related to animal breeding?
6. What are the roles of animal breeding organisations?
7. What are the principles of conformation assessment in different species?
8. What is the structure of databases in breeding organisations?
9. What are the means of communication of animal breeding organisations?
10. How a breeding programs of horse associations are structured?
11. How the breeding programs of companion animal associations are structured? What are the specialities?
12. How the breeding programs of ruminant animal associations are built up and what are the specialities?
13. How the breeding programs of monogastric animal associations are built up and what are the specialities?
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