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| **Title and Code** of the subject: **Animal Husbandry , MTMAL7009A** | **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 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: The aim of the subject is to teach the genetics and applied technologies of animal production. The large-scale production systems with livestock species is in the focus. Cattle, sheep, swine and poultry housing, feeding, breeding will be discussed during the lectures. Animal performance, factors influencing product quantity an quality are included in the studies of each species.1. Importance of livestock production
2. Characteristics of animal products, animal growth
3. Factors influencing meat production
4. Factors influencing milk production
5. Dairy cattle: breeds, nutrition
6. Dairy cattle: housing, reproduction, milking
7. Beef cattle: breeds
8. Beef cattle: housing, nutrition, production
9. Sheep: breeds
10. Sheep: grazing, feeding, reproductioin
11. Swine: housing, feeding, breeds
12. Swine: reproduction, fattening and product
13. Poultry: egg production with layers
14. Poultry: meat production with broilers
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| **Summary of content - practice**: |
| Skills to be learnt: Students will see animal feeding, housing, breed selection and management of different livestock farms. Several breeds will be shown to students at livestock exhibition. 1. Beef cattle farm – housing, nutrition, selection for breeding
2. Beef cattle farm – housing, nutrition, selection for breeding
3. Beef cattle farm – housing, nutrition, selection for breeding
4. Beef cattle farm – housing, nutrition, selection for breeding
5. Dairy farm – housing, feeding, milking parlour
6. Dairy farm – housing, feeding, milking parlour
7. Dairy farm – housing, feeding, milking parlour
8. Livestock exhibition
9. Livestock exhibition
10. Livestock exhibition
11. Livestock exhibition
12. Livestock exhibition
13. Livestock exhibition
14. Livestock exhibition
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| **Literature, handbooks in English**  |
| 1. R. E. Taylor eds. (2014): Scientific Farm Animal Production. 10th Edition. Pearson Education Limited, England. 1-647.
2. A. Aland, T. Banhazi eds. (2013): Livestock housing. Modern management to ensure optimal health and welfare of farm animals. Wageningen academic Publishers. 1-491.
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| **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 modern technologies of breeding, keeping and feeding
1. **Skills:**
* Able to conduct animal production system and research in animal breeding
* Able to develop new technological varieties in animal sector
1. **Attitude:**
* Keen on professional self improvement as taking part in postgradual education
1. **Autonomy and responsibility:**
* Makes decisions independently on breeding, improvement strategy of a certain population
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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
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| **Form of examination:** |
| written |
| **Requirement(s) to get signature:** |
| Attendance at lectures is recommended, but not compulsory. Participation at 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. Importance of livestock production
2. Animal products and their importance, nutritive value
3. Growth and performance of animal species
4. Factors influencing meat production
5. Factors influencing milk production
6. Dairy cattle breeds
7. Dairy cattle nutrition
8. Dairy cattlehousing
9. Cattle reproduction
10. Dairy cow milk production and milking systems
11. Beef cattle breeds
12. Beef cattle housing
13. Beef cattle nutrition
14. Beef cattle rasing, weaning, finishing
15. Sheep breeds
16. Sheep grazing, feeding, reproduction
17. Swine housing, feeding
18. Swine breeds
19. Swine: reproduction, fattening and product
20. Poultry: egg production with layers
21. Poultry: meat production with broilers
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