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| **Title and code** of the subject: **Planning of animal farms, MTMAL 7015A** | **ECTS Credit Points: 3** |
| **Type** of the subject: compulsory | |
| **Ratio of theory and practice: 100/00** (credit%) | |
| **Type and number of classes per semester**: 28hour(s) lecture and 0 hour(s) practice per **semester,** 2 lectures and 0 practices per week | |
| **Type of exam**: exam | |
| **Subject in the curriculum:** 1 semester | |
| Preliminary requirements:- | |

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| **Summary of content - theory**: The aim of the course is to learn the construction and structural elements of the building used in animal husbandry, to describe the equipment’s of animal husbandry. At the end of the course students will be able to control the operation of the machines and control workflow in animal husbandry. |
| Course objectives:   1. Types of agricultural buildings 2. Building constructions. 3. Building materials. 4. Building Services. Water supply system. 5. Equipment for preparation of feed 6. Buildings and equipment’s for cattle keeping. 7. Feeding and drinking equipment for cattle keeping 8. Milking machines and their equipment’s. 9. The milking unit and milk handling unit. 10. Buildings and equipment’s of pig keeping. 11. Feeding and drinking equipment for pig keeping. 12. Building and equipment’s of poultry farming. 13. Feeding and drinking equipment’s of poultry farming. 14. Building and equipment’s of sheep keeping. |
| **Literature, handbooks in English** |
| 1. Brian Bell: Farm Machinery ISBN 1903366682 2. S Böttinger: Grundlagen der Landtechnik 3. John Carrol: Tractors and Farm Machinery ISBN-13: 978-0754826583 |
| **Competencies gained** *(acc. to the Regulation on training and outcome requirements)* |
| 1. **Knowledge:**  * Students will learn the general and specific characteristics of their expertise. * Students learn about the connection between the field and related disciplines.  1. **Skills:**  * Students identify special professional problems with a versatile, interdisciplinary approach. * Students explore theoretical and practical background of the skill.  1. **Attitude:**  * Students bring the latest expertise to their own development.  1. **Autonomy and responsibility:**  * Students plan and perform their activities independently. |

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| **Responsible lecturer: Dr. Hagymássy Zoltán** |

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| **Terms of course completion:** |
| 1. Completing assignments / exercises 2. Submitting essay 3. Giving presentation |
| **Form of examination:** |
| 1. Completing exercise |
| **Requirement(s) to get signature:** |
| 1. Giving presentation |

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| **Exam questions:** |
| 1. Introduce the types of agricultural buildings 2. Introduce the building constructions. 3. Introduce the building materials. 4. Introduce the building Services. Water supply system. 5. Introduce the equipment for the preparation of feed 6. Introduce the building and equipment for cattle keeping. 7. Introduce the feeding and drinking equipment for cattle keeping 8. Introduce the milking machines and their equipment’s. 9. Introduce the milking unit and milk handling unit. 10. Introduce the buildings and equipment’s of pig keeping. 11. Introduce the feeding and drinking equipment for pig keeping. 12. Introduce the building and equipment’s of poultry farming. 13. Introduce the feeding and drinking equipment’s of poultry farming. 14. Introduce the building and equipment’s of sheep keeping. |