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| **Title and Code** of the subject: **Feeds and feed processing MTMAL7029A** | **ECTS Credit Points: 3** |
| **Type** of the subject: compulsory / **optional** | |
| **Ratio of theory and practice: 66/33** (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 / **practical course mark** | |
| **Subject in the curriculum:** semester 4 | |
| Preliminary requirements:- | |

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| **Summary of content - theory**: |
| Course objectives: The production potential of the farm animals increased significantly during the past decades. This had been followed by the development of compound feed production technology. The production of the compound feeds needed by high genetic potential animals not only means the mixing of the components. The aim of the subject is to review the most common feedstuffs, present the modern compound feed production technology, the machines and innovative techniques used as opposed to the effect on animal productivity.   1. Green forages 2. Silages and hays 3. Cereals 4. Legume seeds 5. Industrial co-products 6. Feed supplements 7. Feed storage and handling 8. Grinding 9. Feed mixing 10. Pelleting 11. Post pellet treatments 12. Companion feed production technology 13. Regulation of feed production 14. Consultation |
| **Summary of content - practice**: |
| Skills to be learnt: To introduce the diet formulation methodology.  Protein evaluation systems   1. Energy evaluation systems 2. Diet formulation for fattening pigs 3. Diet formulation for piglets 4. Diet formulation for sows 5. Diet formulation for laying hens 6. Diet formulation for broiler chicken 7. Diet formulation for turkey 8. Diet formulation for dairy cattle 9. Diet formulation for beef cattle 10. Diet formulation for sheeps 11. Diet formulation for horses 12. Diet formulation for rabbits 13. Consultation |
| **Literature, handbooks in English** |
| 1. Moughan and Hendriks (2018) Feed evaluation science. Wageningen Academic Publishers |
| **Competencies gained** *(acc. to the Regulation on training and outcome requirements)* |
| 1. **Knowledge:**  * xx  1. **Skills:**  * xx  1. **Attitude:**  * xx  1. **Autonomy and responsibility:**  * xx |

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| **Responsible lecturer: Csaba Szabo PhD, associate professor.** |
| **Terms of course completion:** |
| 1. Completing assignments / exercises 2. Submitting essay 3. Giving presentation |
| **Form of examination:** |
| Diet formulation. |
| **Requirement(s) to get signature:** |
| Not more than 3 absence from class. |
| **Exam questions:** |
| 1. Formulate diet for fattening pigs 2. Formulate diet for piglets 3. Formulate diet for sows 4. Formulate diet for laying hens 5. Formulate diet for broiler chicken 6. Formulate diet for turkey 7. Formulate diet for dairy cattle 8. Formulate diet for beef cattle 9. Formulate diet for sheep 10. Formulate diet for horses 11. Formulate diet for rabbits |