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| **Title and Code** of the subject:  **Food safety assesment of agrochemicals MTMEL7033A** | **ECTS Credit Points: 3** |
| **Type** of the subject: optional | |
| **Ratio of theory and practice** (credit%) 100 % theoretical, 0 % practical | |
| **Type and number of classes per semester**: 28 hour(s) lecture and 0 hour(s) practice per **semester**  Number of teaching hours / week : 2 lectures per week and 0 seminar per week | |
| **Type of exam**: **colloquium** | |
| **Subject in the curriculum:** 2nd semester | |
| Preliminary requirements:**none** | |

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| **Summary of content - theory**: |
| Course objectives: Impact of pesticide residues on human body, possibilities of avoiding them. Analyzes of pesticides.  1. week: Chemistry of crop enhancers, grouped by their food safety hazard  2-4. weeks: Plant protection products used in modern plant protection, biological plant protection, food safety aspects of different plant protection methods  5-6. weeks: Investigation of the change of the pesticide concentration and its degradation under controlled experimental conditions  7-8 weeks: Effects of plant protection products on the human body  9-10 weeks: Use of fertilizers, hazards of use, impact on the environment and human body  11-12 weeks: Detection of plant protection products and fertilizers using modern bioanalytical methods  13. week: Sampling procedures  14. week: Methods for evaluating test results,  15. week: Plants, fertilizers, biological plant protection benefits, disadvantages, evaluation in the light of food safety |
| **Literature, handbooks in English** |
| Árpád Ambrus and Denis Hamilton: Protein Structure: Food Safety Assessment of Pesticide Residues (2017) |

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| **Competencies gained** *(acc. to the Regulation on training and outcome requirements)* |
| 1. **Knowledge**   Students learn about the nature of agrochemicals and these determination.   1. **Ability**   Theoretical aspects of agrochemicals.   1. **Attitude:**   Student has a strong professional identity and professionalism that she/he can take for professional and wider social community.   1. **Autonomy and responsibility:**   Student sees the importance of agrochemicals determination and special knowledge so that he/she can formally incorporate into their further university studies and at the end of their studies. Students will be able to autonomously and responsibly use the knowledge acquired in the course of their work in a deliberate manner. |
| **Responsible .lecturer: Gálné Dr. Remenyik Judit, senior research** |
| **Other lecturer:-** |
| **Terms of course completion:** |
| 1. Completing assignments / exercises 2. Giving presentation |
| **Form of examination:** |
| **written** (only if the subject is signed) |
| **Requirement(s) to get signature:** |
| Attendance at lectures is recommended, but not compulsory. . Students must give presentation once during the semester. |
| **Requirement(s) to get a grade:** |
| During the semester students have to write 2 theoratical tests. The minimum requirement for both mid-term and end-term tests is 50%. Based on the score of the tests separately, the grade for the tests is given according to the following table:  Score (%) Grade  0-49 fail (1)  50-65 pass (2)  66-74 satisfactory (3)  75-89 good (4)  90-100 excellent (5)  The student has to reach minimum 50% in every test. The sudent can take a retake test of the whole semester material twice. |