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| **Title** of the subject: **Weed ecology, weed competition** | **Credit: 3** |
| **Type** of the subject: **optional** | |
| **Ratio of theory and practice: 100 / 0**(credit%) | |
| **Type and number of classes per semester**: **14 hours per semester** (1 h lecture / 0 h practice per week**)** | |
| **Type of exam**: exam / practical course mark | |
| **Subject in the curriculum:** semester 2 | |
| Preliminary requirements: *-* | |

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| **Summary of content - theory**: The knowledge to be acquired is concise, as well as a 14 week breakdown of lectures. |
| Definition of harms of weeds. Life types of weeds. Reproduction of weeds. Competition among weeds and crops (allelopathy).  Students can know biological founds of weed control, able to pretend spread of weeds.  Course objectives:   1. Definition of Weed 2. Weed ecology and biology 3. Plant life forms 4. Plant life forms 5. Weed reproduction (sexual and asexual propagation) 6. Weed competition 7. Allelopathy 8. Allelopathy 9. Allelochemicals as bioherbicides 10. Invasive weed species 11. Economic impacts of invasive weeds 12. Managing invasive species 13. Common invasive plants in Hungary 14. Common invasive plants in Hungary |
| **Literature, handbooks in English** |
| 1. Alden S. Crafts (1975): Modern Weed Control. University of California Press. ISBN 0-520-02733-7 2. Cobb, A., Reade, J. (2010): Herbicides and Plant Physiology. Wiley Ltd. USA ISBN-13: 978-1-4051-2935-0 3. Steven R. R., Jodie S. H. (1984): Weed Ecology Implications for Vegetation Management. A Wiley-Interscience Publication. USA ISBN 0-471-87674-7 |
| **Competencies gained** *(acc. to the Regulation on training and outcome requirements)* |
| 1. **Knowledge:**  * Knows, integrates, synthesizes and broader cultivation and management, development also places the disciplinary knowledge of plant protection in systems * Knows plant protection strategies.  1. **Skills:**  * They will be able of integrated weed management against that pose a threat to plants planning and implementation.  1. **Attitude:**  * Has the necessary knowledge to perform engineering and managerial duties. * Susceptible and suitable for cooperation.  1. **Autonomy and responsibility:**  * They can recognize the risks and boundaries of their decisions. * They have an independent sense of professional responsibility. |

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| **Responsible lecturer: Arnold Szilágyi, assistant lecturer** |
| **Other lecturer(s): -** |

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| **Terms of course completion:** |
| Successful completion of invasive weeds identification |
| **Form of examination:** |
| Written or oral examination |
| **Requirement(s) to get signature:** |
| Attendance at the lecture is recommended. |

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| **Exam questions:** |
| 1. Describe of Life cycle groups? 2. What is allelopathy and what is its significance in plant protection? 3. What is the economic impact of invasive weeds? 4. What weed reproduction strategies do you know? |