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| **Title** of the subject: **Weed biology** | **Credit: 3** |
| **Type** of the subject: | |
| **Ratio of theory and practice: 66 /33** (credit%) | |
| **Type and number of classes per semester**: **42 hours per semester** (2 h lecture / 1 h practice per week**)** | |
| **Type of exam**: exam / practical course mark | |
| **Subject in the curriculum:** semester 3 | |
| Preliminary requirements: *Herbology* | |

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| **Summary of content - theory**: The knowledge to be acquired is concise, as well as a 14 week breakdown of lectures. |
| Description of goal: Description of weeds and weed control technologies of the most important field and horticultural crops.  Course objectives:   1. Weed control of wheat 2. Weed control of wheat 3. Weed control of wheat 4. Weed control of wheat 5. Weed control of barley, oats, rice 6. Weed control of corn 7. Weed control of corn 8. Weed control of sweet corn 9. Weed control of hybrid corn 10. Weed control of sunflower 11. Weed control of express-, pulsar sunflower 12. Weed control of potato 13. Weed control of sugar beet 14. Seedling identification |
| **Summary of content - practice**: The knowledge to be acquired is concise, as well as a 14 week breakdown of practice. |
| Description of goal:  Training of plant protection, who are in possession of an appropriate economic approach, they know the cultivation of plants, knows effective ways to control weeds. They know the temporal appearance of weeds and effective and in many cases preventive protection against them.  Skills to be learnt:   1. Important weeds in cereal crops 2. Important weeds in wheat crops 3. Important weeds in barley crops 4. Important weeds in oats crops 5. Important weeds in rice crops 6. Important weeds in corn crops 7. Important weeds in sweet corn crops 8. Important weeds in sunflower crops 9. Important weeds in sunflower crops 10. Important weeds in potato crops 11. Important weeds in sugar beet crops 12. Seedling identification 13. Seedling identification in the practical garden 14. Seedling identification in Debrecen area |
| **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. * Their work is characterized by high standard.  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 seedling identification |
| **Form of examination:** |
| Written and oral examination |
| **Requirement(s) to get signature:** |
| Attendance at the lecture is recommended. |

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| **Exam questions:** |
| 1. Describe the integrated weed control of cereal crops? 2. Describe the integrated weed control of corn crops? 3. Describe the integrated weed control of sunflower crops? 4. Describe the integrated weed control of potato crops? 5. Describe the integrated weed control of sugar beet crops? |