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| Name of course: **Crop production II** | **Credit value: 3** |
| **Course** **classification**: compulsory | |
| **The proportion of the practical nature of the course, „educational character”:** | |
| **Type of course:** 28theoretical / 28 practical, and the **total number: 56 hours** in the given **semester.**  Further (unique) means and properties of knowledge transfer: | |
| **Exam** type (colloquium / practical grade / **other** ):  **colloquium**  Further (unique) means of knowledge verification**:** | |
| The curricular **place of the course** (which semester): 4 | |
| Prerequisites (if any): **-** | |

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| **Course description: a brief, but informative description of the knowledge to be acquired (14 weeks).** |
| Our main tasks and aims to give theoretical and practical knowledge of crop production to MSc students. The students get wide information about the conventional and integrated crop production focusing on cereal management. This course gives a lot of quantitative and qualitative informations and innovative-scientific knowledge to students. The students are able to use and develop their scientific and practical knowledge in the farm management.  Week 1. Theoretical knowledge of conventional and integrated crop production.  Week 2. Elements of conventional and integrated crop production  Week 3. Practical knowledge of conventional and integrated crop production  Week 4. General aspects of conventional and integrated cereal production I.  Week 5. General aspects of conventional and integrated cereal production II.  Week 6. Special aspects of conventional and integrated cereal production I.  Week 7. Special aspects of conventional and integrated cereal production II.  Week 8. Agrotechnical management models in the conventional and integrated cereal crops  Week 9. Conventional and integrated wheat production I.  Week 10. Conventional and integrated wheat production II.  Week 11. Conventional and integrated wheat production III.  Week 12. Conventional and integrated maize production I.  Week 13. Conventional and integrated maize production II.  Week 14. Conventional and integrated maize production III. |
| **Required and recommended reading:** |
| **Required reading:**  Pepó, P. Csajbók, J. (2013) Integrated crop production I. Debrecen, Debreceni Egyetem, 161 p. ISBN: 9789634736509  Pepó, P. Csajbók, J. (2013) Integrated crop production II. Debrecen, Debreceni Egyetem, 208 p. ISBN: 9789634736516  Pepó, P. Csajbók, J. (2013) Integrated crop production III. Debrecen, Debreceni Egyetem, 178 p. ISBN: 9789634736523  **Recommended reading:**  McMahon, M., Kofranek, A. M., Rubatzky, V.E.: 2010. Plant Science: Growth, Development, and Utilization of Cultivated Plants. Prentice Hall, ISBN: 9780135014073 674. p.  Bradshaw J.E.: 2012. Root and Tuber Crops. 7/Handbook of Plant Breeding Springer New York, ISBN: 9781461426691, 298 p |
| **Competencies to be acquired, related to the course:** |
| 1. **Knowledge:**  * Acquired basic knowledge of natural, technical, economic sciences, technologies, food-chain security giving the basis for crop production * Acquired knowledge to up-to date technologies used in crop production and their practical application * Students will be able to proactively learn new skills and develop self for present and future progression in crop production * Students are capable to do adequate professional communication; can participate in the crop production process directly or support it; * Students actively and operatively attend to implementation of R&D projects connecting to crop production  1. **Skills:**  * Ability in recognizing and solving the routine like problems occurring in the crop production processes * Students can understand and observe the law, protocols and regulations connecting to crop production  1. **Attitude:**  * Main feature is the constructive approach to the professional questions of crop production * Students look for ways to change work methods to improve performance in crop production * Health of the individual and society beside of environmental protection plays an important part in the professional decisions  1. **Autonomy and responsibility:**  * Students are able to bear the responsibility of the decisions and responsible for own and the attached workforce’s work * Students are decisive at the right time * Based on the professional knowledge students can set up the implementation plan of R&D projects independently, and bear the responsibility of direct managing of the development activity in crop producion |

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| **Course leader** (name, post, academic degree): **Dr. habil József Csajbók, associate professor, Ph.D.** |
| **Other lecturer(s) involved in teaching the course, if any** (name, post, academic degree): **-** |