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| Name of course: **Crop production I.** | **Credit value: 4** |
| **Course** **classification**: obligatory | |
| **The proportion of the practical nature of the course, „educational character”: 50-50%** | |
| **Type of course:** theoretical / practical, and the **total number: 28+28 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): 3 | |
| 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:**  Dr. Rajendra Prasad (ed.) Textbook of Field crop production I (New Delhi, 2018, Fourth Edition)  II (New Delhi, 2018, Fourth Edition)  **Recommended reading:**  J.H. Martin–R.P. Waldren–D.L. Stamp: Principles of Field crop production (2006, Fourth Edition, Pearson-Prentice Hall) |
| **Competencies to be acquired, related to the course:** |
| **a) Knowledge:**  **-** Understands the reasons for connecting crop production to related disciplines, understands and systematizes the connections  - She/he knows in detail the connections between crop production and food chain safety.  **b) Ability:**  **-** Able to orientate and form a professionally grounded opinion in domestic and international economic policy and social events and phenomena related to crop production and agriculture.  - Ability to use state-of-the-art information technology tools to implement professional, effective oral and written communication.  **c) Attitude:**  - Her/his professional interest has deepened and solidified.  - It is important for her/him to adhere to the ethical rules and norms of scientific research.  **d) Autonomy and responsibility:**  - Has autonomy as to the way in which crop production activities are carried out.  - Able to manage independently, with an environmental approach, to apply and develop modern agricultural technologies related to crop production. |

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| **Course leader** (name, post, academic degree): **Dr. Peter Pepó, professor DSc** |
| **Other lecturer(s) involved in teaching the course, if any** (name, post, academic degree): **-** |