

## Courses in English

### PhD Study Programme HORTICULTURE

| SCIENTIFIC/RESEARCH PART |  | 120 ECTS   |
|--------------------------|--|--|
| Code                     | Course                                   | Course content   |
| PHD_Z001                 | <a href="#">Dissertation Examination</a> | Elaboration of dissertation thesis and its defense.  |
| PHD_Z071                 | <a href="#">Thesis project 1</a>         | Scientific part of PhD project is presented in conferences, study visits, publications, fellowship, workshops and seminars. A detailed list of activities is a part of the conditions of study at third level to the SUA in Nitra. The student is notified after registration in the corresponding year.   |
| PHD_Z302                 | <a href="#">Thesis project 2</a>         | Scientific part of PhD project is presented in conferences, study visits, publications, fellowship, workshops and seminars. A detailed list of activities is a part of the conditions of study at third level to the SUA in Nitra. The student is notified after registration in the corresponding year.   |
| PHD_Z303                 | <a href="#">Thesis project 3</a>         | Scientific part of PhD project is presented in conferences, study visits, publications, fellowship, workshops and seminars. A detailed list of activities is a part of the conditions of study at third level to the SUA in Nitra. The student is notified after registration in the corresponding year.   |
| PHD_Z304                 | <a href="#">Thesis project 4</a>         | Scientific part of PhD project is presented in conferences, study visits, publications, fellowship, workshops and seminars. A detailed list of activities is a part of the conditions of study at third level to the SUA in Nitra. The student is notified after registration in the corresponding year.   |
| PHD_Z070                 | <a href="#">Methodology</a>              | PhD student in cooperation with his supervisor has to elaborate the methodology of the PhD thesis up to three months since the accession to his study. Consequently this methodology (2 copies) has to be delivered to the Department of science and research of HLEF, in the date that will be specified in advance. The methodology contains: information about actual condition, existing solutions and approach in described topic, main scientific, social aims, purpose of the research and implementation of the topic, time schedule of activities (theoretical, practical, research...). Review will be elaborated by one referee. It is recommended to present the methodology during the public presentation on departmental meeting. Members of competent committee will be invited. |
| PHD_Z300                 | <a href="#">Dissertation defense</a>     | The defense of the doctoral dissertation thesis study is completed. It demonstrates the ability for independent scientific and creative activity in the field of research or development.  |

| OBLIGATORY SUBJECTS |   |  | 40 ECTS |
|---------------------|---|--|---------|
| Code                | Course  | Course content   |         |
| PHD_Z056            | <a href="#">Ecologisation in fruit production and viticulture</a> | Philosophic background and principles of environmentally sound farming. Origins and history of ecological farming in fruit production and viticulture. Present status of ecological fruit production and viticulture in the world and in Slovakia. Legislation regulating environmentally sound farming. Analysis of implementation of various environment-friendly conceptions of fruit growing and viticulture - eco-farming, biological and biodynamic farming. |         |
| PHD_Z053            | <a href="#">New trends in breeding of field vegetable</a>         | Vegetable quality in relation to Food Codex of Slovak republic and standards of European Union. New technological systems of cultivation of selected field vegetable species, including precultivation of seedlings.   |         |
| PHD_E003            | <a href="#">Scientific language PhD</a>                           | The subject is aimed at the development of the following skills: academic writing, making presentation, translation of professional.   |         |
| PHD_K001            | <a href="#">Scientific publishing</a>                             |  |         |

| COMPULSORY SUBJECTS |  |   | 20 ECTS |
|---------------------|--|---|---------|
| Code                | Course   | Course content  |         |
| PHD_Z066            | <a href="#">Quality and post-harvest technology of horticultural crops</a> | The quality of horticultural crops post-harvest physiology, post harvest technology, operations, technology, storage, post harvest centers, market adjustment of products   |         |
| PHD_A027            | <a href="#">Methods of plants nutrition control</a>                        | Diagnostic methods visual and chemical. Diagnosis of nutritional status of soil and plants. Leaf analysis of field and garden crops for macro and micronutrient content. Diagnostics of nutritional status of hydroponically grown flowers and vegetables. Chemical-analytical methods, working methods and interpretations of obtained results for the purpose of determining defects in crop nutrition.   |         |
| PHD_Z073            | <a href="#">Risks of agricultural contaminants and solution approaches</a> | The course aim is to provide post-graduate students the knowledge about possibilities of removing hazardous contaminants from soil by modern decontamination technologies, which are mostly bioremediation methods, environmentally favourable and economic and energy preferable in comparison with other methods of removing of hazardous substances. After completion of the subject the student is able to apply knowledge in agricultural practice, especially in selection of growing conditions on contaminated soils and in selection of remediation techniques for elimination of risk substances. |         |