

## STUDY PROGRAMS

### Bachelor study programs

- Horticulture
- Landscape Engineering
- Landscape and Garden Architecture

### Master study programs

- Horticulture
- International Master of Horticulture Science
- Landscape Engineering
- Garden and Landscape Architecture
- Biotechnics of Park and Landscape Arrangements

### Doctoral study programs

- Horticulture
- Landscape Engineering
- Garden and Landscape Architecture

## FACULTY PARTICIPATION IN EU STRUCTURAL FUND

Operation programme Education

Name of the project:

Support for improving the quality of education at the Horticulture and Landscape Engineering Faculty (FZKI) of SUA in Nitra

ITMS: 26110230094

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Európska únia

VÝSKUMNÁ  
AGENTÚRA



Faculty of Horticulture and Landscape Engineering  
Tulipánová 7, 949 76 Nitra  
[www.fzki.uniag.sk](http://www.fzki.uniag.sk), [dekfzki@uniag.sk](mailto:dekfzki@uniag.sk)

Contact:  
+421 (37) 641 5414

[www.facebook.com/studentiFZKI](https://www.facebook.com/studentiFZKI)



## DOCTORAL STUDY PROGRAMS



Faculty of Horticulture and Landscape Engineering  
Slovak University of Agriculture in Nitra



## STUDY PROGRAM: HORTICULTURE

### Profile of graduates

Graduates of the Horticulture study program at the third (doctoral) level of education are able to solve research questions and tasks using relevant scientific methods in horticulture and its individual sectors, such as fruit production, viticulture, winery, vegetable production, floriculture and nursery production. They participate in the compilation of scientific projects and can manage them on a professional scientific level. During the doctoral studies, they learn the principles of individual work and teamwork; they have a knowledge of scientific methods, basic experimental research, scientific analysis and synthesis of results with application in contemporary technologies. They are capable of creative work; can apply for national or international project calls. They can present their research at international conferences, in scientific papers. They can do scientific literature reviews and formulate scientific conclusions. They are ready to process and submit projects, grants focused on the basic horticulture production in the field of fundamental and applied research.

Graduates of the doctoral level of the study program Horticulture acquire knowledge of different fields and subjects on the level of individual manager in the field of horticulture. They are able to prepare source materials for design implementation of orchards, vineyards and cellar technology.

### Assertion and employment of graduates

Graduates of the doctoral study degree can find employment at universities with the possibility of involvement in the research and educational process. They find wide realisation in science and research at the level of research institutes, Slovak Academy of Sciences, in public administration and institutions, where the PhD. degree is required.



## STUDY PROGRAM: LANDSCAPE ENGINEERING

### Graduate profile

The Landscape Engineering study program offers the opportunity to acquire knowledge of organisational, biological, agronomical, technological, and constructional measures for landscape projects. It includes the creation of economically efficient and highly productive land use, aesthetic, cultural and bio-economically balanced residential environment of settlements and landscape. It includes the issue of harmonisation of production activities, their diversification with the creation of healthy living conditions focused on sustainable living. Specifically, the organisation and the use of land resources is addressed in the context of land consolidation aiming at improvement of production and operational conditions, living conditions of rural population, location of centres and the ancillary facilities of agricultural production in accordance with the interests of aquaculture, forestry, transport infrastructure, rural build-up area, etc. This issue is closely related to soil protection and its improvement, nature and landscape conservation, protection of water resources quantity and quality, protection of rare plant and animal species and their habitats. Part of the issue is the area of waste management and disposal of environmental burdens. Another important issue is the environmental impact assessment and the introduction of environmental management systems. Equally important is the question of assessment of cultural and historical potential of the landscape, landscape creation by application of vegetation elements and nature-based solutions.

### Assertion and employment of graduates

Graduates of the third degree of the study program „Landscape Engineering“ find their realisation in science and research at universities, in institutes of the Slovak Academy of Sciences, in scientific research base, in practice, solving national tasks on comprehensive planning activities, with an emphasis on territorial and regional planning. They use acquired scientific approaches to optimise the land use (for the purposes of agricultural and industrial production, housing, recreation, ecological stability improvement and creation of cultural and aesthetic environment).



## STUDY PROGRAM: GARDEN AND LANDSCAPE ARCHITECTURE

### Profile of graduates

Graduates of the study program Garden and Landscape Architecture at the third level of Landscape and Garden Architecture studies have knowledge of methodology and means of the scientific research. They are able to apply scientific methods of evaluation, planning and creation of landscape. They are able to analyse and creatively influence land use in accordance with social and environmental priorities of the society. They can solve tasks of horticulture and landscape creation in the context of urbanism and urban planning. For the purposes of analysis and modelling in the landscape, they are able to use the tools of GIS and CAD systems in their work. They propose new approaches, methods and technologies useful for the planning, design, establishment and management of spaces and areas of garden, park and landscape creation. As PhD. graduates, they are able to work at academic institutions as lecturers and research fellows.

### Assertion and employment of graduates

Graduates of this study program can be employed as university teachers, researchers and professionals. They will use their experience and knowledge in the area of landscape architecture and planning, as well as in the protection and management of national cultural heritage. They find positions in design studios and businesses where they can expertly evaluate and interpret the environmental principles of greenery creation and reflect the current social challenges in the field of Garden and landscape architecture. Graduates are qualified for professional and managerial work in relevant governmental departments from the municipal, up to the state level.

