

Courses in English

PhD Study Programme GARDEN AND LANDSCAPE ARCHITECTURE

SCIENTIFIC/RESEARCH PART		120 ECTS
Code	Course	Course content
PHD_Z001	Dissertation Examination	Elaboration of dissertation thesis and its defense.
PHD_Z071	Thesis project 1	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	Thesis project 2	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	Thesis project 3	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	Thesis project 4	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	Methodology	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	Dissertation defense	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_Z060	Evaluation, planning and creation of landscape	To get knowledge on properties, stage and potentials of the landscape from point of development plan and optimal usage of nature resources. Identification of the cultural landscape features and values and the categorisation according to different marks. To elaborate of the landscape plan for landscape design and revitalisation with regards to applying of principles for landscape structure optimisation and landscape - architecture composition.	
PHD_Z062	Development, renewal and creation of culture green	Knowledge of historic green spaces, significant gardens and parks in Slovakia and abroad, their preservation and improvement measures. Revitalisation of existing and designing new green spaces in urban and rural environments in accordance with contemporary approaches and trends in global landscape architecture.	
PHD_E003	Scientific language PhD	The subject is aimed at the development of the following skills: academic writing, making presentation, translation of professional.	
PHD_K001	Scientific publishing		

COMPULSORY SUBJECTS			20 ECTS
Code	Course	Course content	
PHD_E002	Biostatistics II	In this course, students learn the statistical methods and their applications in biological and agricultural research. The subject is focused on linear and non-linear regression, selected multivariate statistical methods, including a review of metrics and measures of similarity depending on the scale, cluster, discriminant, factor analysis. Education is performed with the support of SAS and Gretl software.	
PHD_Z061	CAD and GIS in landscape design	The course is applied discipline aimed on usage of information technologies in the field of Garden and Landscape Architecture. The course is based on application of specialized software (EaglePoint Landcadd, HDS-Cyclone, etc.). The teaching process includes: 1. Input data collection (vector and raster data) for digital landscape modelling of specified case study; 2. CAD-modelling and GIS site-analysis of the area of interest; 3. Computer-aided Conceptual Landscape Modelling a 4. Statistical and dynamical representation of digital landscape model.	
PHD_Z057	Principles of the research methodology in the landscape architecture	The principles and content of scientific research. Steps to be performed in the research process: problem formulation, compilation an overview of literature findings, setting objectives, preparing experimental or research model, collection, analysis and interpretation of data, compilation of conclusions. The current strategies of research in landscape architecture. Research design - a method of obtaining information and data. Research methods - methods that are applied in the research program. The actual research techniques - the means of data collection and analysis	

PHD_A002	<u>Taxonomical nomenclature and chronology of plants</u>	Methods for evaluation of the plant kingdom, taxonomic category, terminology and basic methods of taxonomic practice, the International Code of Botanical Nomenclature, taxa and their real nature in evolution. Taxa and their distribution in space, the sick, the basics phytogeography aspect of geomorphology. Vegetation of the earth system and phytogeographical division of Slovakia. The practical use of the knowledge taxonomy in Applied Biological Sciences and the wider social practice.
PHD_Z067	<u>Drought evaluation in agricultural land</u>	Definition of drought (meteorological, hydrological, drought of soil, ecological, hydrogeological, agricultural, socio-economical, etc.) Processing the input data for evaluation of drought. Methods of drought evaluation. Analysis of drought impacts. Processing of the case study.
PHD_Z032	<u>Reclaiming measures in landscape</u>	Reclamation of barren and devastated areas as part of landscape maintenance (in the context of a European Landscape Convention - ELC). Definitions, their legal and professional aspects. Reclamation technologies and their chronology. Basic reclamation methods according to realised adjustments (technical, biological) and according to the future use of the rehabilitated land (for agriculture, forestry, water management, and others). Technical standardization in the field of reclamation.
PHD_Z018	<u>Land use planning and renewal of settlements</u>	Relationship of urbanism and architecture in a process of settlement creating, definition of the main concept (vocabulary), definition of urbanization effects in mutual context, determinants of city structures creations, main functional components, spatial organization of urban structures principles. Compendium of urban structure evolution in our domain and analyses of its present condition in terms of settlement re-creation. Relationship of architectural and urban creation and land-use planning -- its purposes, tasks and tools, meaning and principles of land-use planning data (documents and templates) processing, its contents and practical use. Legislation.
PHD_Z074	<u>The water in the urbanized landscape</u>	Summary of knowledge the issues of resolving changes in stocks of water in the landscape hydraulic structures and non-technical measures. Modalities of the assessment surface water and groundwater in accordance the WFD 2000/60/EC and the practical application in the Slovak Republic. Biological evaluation of of waters. Quality evaluation is related with sufficient amount of water for the landscape and society. For the practical evaluation of the particular area have to be individually assessment according to the recommended methodologies. Appraised of the potential the procedures for comprehensive evaluation of water.