

Profile of Educational Programme on Landscaping (Master's degree)

1 – General Information	
Legal name of the University	O. M. Beketov National University of Urban Economy in Kharkiv
Academic degree and original title of qualification	Master in Landscaping
Legal name of the educational programme	Landscaping
Type of Certificate and scope of the educational programme	Certificate of master's degree, individual, 90 ECTS credits, training time is one years and four months
Certification	Decision on accreditation №2 (19) .2.152 dated 28.01.2020. Certificate – 191, valid until 28/01/2025.
Cycle/Level	Ukrainian National Qualifications Framework – 7 level; FQ-EHEA – Two Cycle; EQF – 7 level
Requirements for educational level of the undergraduate applicants	Complete of a bachelor's degree, specialist
Language(s) of education	Ukrainian
Duration of the educational programme	5 years
Web address of access to the educational program description	https://lspg.kname.edu.ua/index.php/uk/home/osvitni-prohramy
2 – Aim of the Educational Programme	
	The aim of the educational program is the ability to solve complex problems in the field of landscaping and in the learning process, which involves research and innovation under uncertain conditions and requirements.
3 – Specification of the Educational Programme	
Subject area	<p><i>Objects of study and activity:</i> organisation of enterprises for the production of ornamental plants; functional planning of urban and public areas, and objects of urban environment; sites of cultural heritage, gardening monuments, protected natural zones; man-made territories and devastated landscapes and ways for their rehabilitation; scientific based methods and technological processes of establishment and maintenance of landscape objects; landscape-recreational systems and objects of landscape architecture, information support and control of activity of enterprises and organizations, legal framework of professional activity, application of research programs, tasks for designing, establishment and maintenance of landscape objects.</p> <p><i>Learning Objectives:</i> training of specialists as decision makers dealing with complex theoretical and practical problems of landscaping in uncertain conditions and requirements; implementation of training programmes involving scientific and design research and / or innovation</p>

	<p>in uncertain conditions and requirements. All objectives depend on the activity and requirements for the development of a specialty educational program and focused on research and pedagogical activities;</p> <p><i>Theoretical content of the subject area:</i></p> <ul style="list-style-type: none"> - development of methods and conducting of scientific researches, organization to make decision about practical issues in landscaping; - design and establishment of greenery, their maintenance, impact on the microclimate and the environment. <p><i>Methods, techniques and technologies:</i></p> <ul style="list-style-type: none"> - the applicant must have professional knowledge, be able to compile scientific reports, literature reviews and scientific publications about growing of ornamental plants, designing, establishment and maintenance landscaping facilities. <p><i>Tools and equipment (objects/subjects, devices and tools that higher education students learn to apply):</i></p> <ul style="list-style-type: none"> - computer programs, machines, mechanisms and tools for the technological processes of growing ornamental plants, designing, establishing and maintaining gardens
The educational programme orientation	Educational and professional
Focal point of the educational programme and specialization	<p>General education and training in landscaping.</p> <p>Keywords: objects of landscape architecture, adaptation and reconstruction of parks, innovative technologies for growing planting material, revitalization of disturbed landscapes.</p>
Specificities of the programme	The educational program is based on the principles of interdisciplinary approaches for the formation of complex competencies of landscape specialists with a focus on organizational and project component, as well as the principles of sustainable development of urban ecosystems and nature management using innovative approaches in training program.
4 – Suitability of graduates to Employment and Further Education	
Suitability to employment	<p>Profession, professional titles of work (according to the current edition of the National Classifier of Ukraine: Classifier of professions (DK 003: 2010):</p> <p>Professions, professional titles of works (according to the current edition of the National Classifier of Ukraine: Classifier of professions (DK 003: 2010):</p> <ul style="list-style-type: none"> - engineer of landscape (2149.2); - environmental management engineer (2213.2); - environmental engineer (22149.2); - design engineer (urban planning) (2141.2). <p>Place of employment: enterprises of housing and communal services, in the field of environmental protection, higher educational institutions, botanical gardens, dendrological and national nature parks.</p> <p>Place of employment: housing and communal services, environmental protection field, higher educational institutions, research institutions, botanical gardens, national parks.</p>
Further education	The Master in Landscaping can continue his studies at the university and other scientific institution of the appropriate level of accreditation under the program of the third (educational-scientific) higher education level.
5 – Teaching and Grading	
Teaching and	Lectures, lab sessions, practical classes, self-studying, consultations with

learning	teachers, preparation of master's thesis.
Grading	Current control: graphic and written works, oral examination, tests, presentations of individual tasks. Final control: written exams and differential tests, defense of term papers and projects, defense of reports on practices. Certification: public defense of qualifying work (master's thesis).
6 – Programme Competences	
Integral competence	Ability to solve complex problems in the field of landscaping and in the learning process, which involves research and innovation under uncertain conditions and requirements.
General competences (GC) defined by the standard of higher education in the specialty	GC 1. The ability to abstract thinking, analysis and synthesis. GC 2. The ability to apply knowledge in practical situations. GC 3. The ability to communicate in the state language both orally and in writing. GC 4. The ability to motivate people and move towards a common goal. GC 5. The ability to adapt and act in a new situation. GC 6. The ability to develop and manage projects.
Professional competencies of the specialty (PC) , defined by the standard of higher education specialty	PC 1. The ability to develop technologies for growing of ornamental plants in open nursery and greenhouses. PC 2. The ability to assess economic efficiency, innovation and technological risks in the using of new technologies in planting material growing. PC 3. The ability to design and implement works for engineering preparation of the territory, construction, landscaping and maintenance of objects of landscape architecture, cultural heritage and devastated landscapes. PC 4. The ability to manage objects of landscape architecture, their functional use, protection and organization of works on urban monitoring and inventory of parks, gardens and cultural heritage objects. PC 5. The ability to compile inventories of greenery. PC 6. The ability to organize and implement state control and supervision over the implementation of the rules of maintenance of objects of landscape architecture and cultural heritage objects. PC 7. The ability to assess the amount of damage caused to objects of landscape architecture and cultural heritage as a result of violation of environmental or urban planning laws. PC 8. The ability to assess production and non-production costs for quality assurance, technical control, author's supervision of production and design activities in the field of landscaping. PC 9. The ability to control production and design activities in the field of landscaping. PC 10. The ability to make technical calculations in projects, feasibility study and functional-cost analysis of the effectiveness of the designed solutions. PC 11. The ability to predict the consequences, find effective solutions in the planning and implementation of projects, taking into account the existing constraints. PC 12. The ability to organize the work of a team of specialists, which is related to the planning (or reconstruction) of urban areas, open spaces, objects of landscape architecture, etc. PC 13. The ability to plan and collect, process, analyze and systematize scientific and technical information on the research topic, choose methods and tools for solving complex problems of professional activity. FC 14. The ability to acquire new knowledge and conduct applied

research in the field of horticulture, generalization and systematization of information.

FC 15. The ability to teach special disciplines in institutions of higher and professional initial level of higher education, to train employees in innovative activities and to conduct environmental education among the population.

7 – Programme Learning Outcomes

Programme learning outcomes (PLO)
defined by the standard

PLO 1. Design of technological processes for the engineering preparation of the territory, construction and maintenance of objects of landscape architecture.

PLO 2. Development and implementation of measures for the rational use of natural landscapes and landscapes management.

PLO 3. Development and introduction of technical tasks and implementation of modern technologies for improvement planting material: ornamental trees, shrubs, flower crops, lawn grasses.

PLO 4. Evaluate the economic efficiency of the proposed solutions.

PLO 5. Development of ecological-biological and technological measures for garden and park economy, natural and cultural landscapes.

PLO 6. Development and implementation of engineering preparation of the territory, construction and maintenance of objects of garden and park economy of natural and cultural landscapes.

PLO 7. Implementation of effective management of garden and park economy, natural and cultural landscapes taking into account technological, legal, economic, ecological and other aspects.

PLO 8. Development of work team strategies.

PLO 9. Provide presentation the results of research in the field to specialists and non-specialists.

PLO 10. To develop projects of objects of gardening, garden and park economy and landscape architecture, restoration and reconstruction of objects of landscape architecture, cultural heritage; design winter gardens in the interiors of office and residential buildings, roof landscaping, greenhouses and hothouses.

PLO 11. Development of design territories of squares, highways and streets, pedestrian zones, lanes of linear objects, rest and tourism zones, forest parks, territories of hospital complexes and resorts, sanitary protection zones, reclamation tree plantations, rehabilitation of disturbed landscapes.

PLO 12. Creation of landscape and to provide plant care.

PLO 13. Organize educational and cognitive activities of students.

PLO 14. Obtaining of new knowledge and development advanced training and coaching of employees in innovation.

PLO 15. Development of educational environmental activities and workshops to raise awareness at the national level.

8 – Resources for Programme Implementation

Staffing

The scientific and pedagogical staff have qualification according to educational components, experience of practical, scientific and pedagogical activity and regularly improve their scientific and pedagogical skills through participation in scientific conferences and workshops, research, internships at research institutes in Ukraine and other countries.

Logistical support

Logistical support of educational programme meets the requirements and provides an opportunity for effective training of applicants.
In the educational process are used: laboratory for monitoring of forests and objects of landscape architecture, laboratory classes, modern

	laboratories, specialized audience, computer class, architectural and artistic studio at ARHOUSE (to conduct classes in landscape design, modeling and search for the latest formations in landscape design). The laboratory is equipped with modern specialized facilities for research in landscape architecture.
Information-technology and methodological resources	All educational components are provided with the following educational and methodological materials which are available on the relevant courses on the Moodle distance learning platform: https://dl.kname.edu.ua/course/index.php?categoryid=36 Modern professional literature and periodicals for students are available on the Scopus and Web of Science scientific databases.
9 – Academic Mobility	
National credit mobility	Participation in national credit mobility programs in other universities, which provide training for masters students within educational program 206 Landscaping (trainings, workshops, summer and winter schools, etc.) provided by universities and contribute to the acquisition of professional competencies, with the possibility of crediting academic achievements in internship programs.
International credit mobility	Participation in international credit mobility programs within the framework of agreements on international academic mobility (Erasmus + K1) with the University of Nova Gorica (Republic of Slovenia), Middle East Technical University (Ankara, Turkey).
Training of foreign higher education applicants	In accordance with the Rules of admission of foreign citizens to O.M. Beketov National University of Urban Economy in Kharkiv