

Degree Programme Profile

General Information	
Official Title of the Degree Programme	Urban Ecology
Speciality	101 Environmental Studies
Field of Knowledge	10 Natural Sciences
Degree Title in Original Language	Master, Master in Environmental Studies Магістр, магістр з екології
Degree Type, Scope and Terms of Study of the Degree Programme	Masters' Degree, singular, 90 ECTS credits, terms of study – 1 years and 4 months
Accreditation Agency	Ministry of Education and Science of Ukraine, Accreditation Certificate УД № 21002008, valid till 01.07.2023
Cycle / Level	The second (Masters') degree NQF of Ukraine – the 8 th level FQ-EHEA – the 2 nd cycle EQF-LLL – the 7 th level
Entrance Requirements	First university degree (bachelors' degree)
Language(s) of Instruction	Ukrainian
Термін дії освітньої програми	5 years
The Aim of the Degree Programme	
	Ability to solve complex specialized tasks and solve practical problems in the field of ecology, environmental protection and sustainable nature resource management, or in the process of education, which involves the application of basic theories and methods of environmental sciences, and characterized by complexity and uncertainty of conditions
Features of the Degree Programme	
Subject	<i>Object:</i> structure and functional components of ecosystems of different levels and origin; anthropogenic environmental impact and optimization of nature management. <i>Theoretical content of the subject area.</i> Terms, concepts and principles of modern natural sciences, environmental science, and their use for environmental protection and sustainable use of natural resources <i>Methods, techniques and technologies.</i> The acquirer must master the methods of collecting, processing and interpreting the results of environmental studies. <i>Tools and equipment:</i> Equipment and software required for field, laboratory and remote sensing of the structure and properties of ecosystems of different levels and origin.
Orientation of the Degree Programme	Applied Professional Education
Main Focus of the Degree Programme	Advanced higher education and professional training in the field of environmental science and sustainable nature resource management Key words: the environment, ecosystems, environmental systems, nature resource management, sustainable development, environmental risks and hazards, industrial impacts, environmental expertise
Specific Features	The degree programme aims at development of integrated solutions for a wider spectrum of theoretical and practical problems and tasks related to

	functional components of urban ecosystems at different levels and of different origin, as well as implementing innovations to optimise nature resource use in urban areas.
Employment Opportunities and Further Education of Alumni	
Employment Opportunities	Alumni graduated as Masters in Environmental Protection Technology are able to perform the following jobs according to the State Job Classifier (JK 003:2010): 2149.2 Environmental Protection Engineer 2442.2 Nature Resource Management Officer 2213.2 Ecosystem Restoration Engineer 2211.2 Environmental Expert; 2411.2 Environmental Auditor; 2211.2 Environmental Specialist
Further Education	Earning the Doctoral (Third Cycle) Degree; further professional post-graduate training
Teaching and Evaluation	
Teaching and Learning	Student-centred learning, problem-based learning, lectures, practical classes, laboratory training, independent learning, consultancies, project-based learning, preparation of Master's thesis
Evaluation	Credit transfer system accounting for all kinds of curricular and extracurricular activities of students aiming at acquiring the knowledge and skills specified by the degree programme. Written exams, reports from practical training, presentations on individual assignments. Interim control during learning semesters, final examinations and credit sessions on specific disciplines, control assignments of calculation and drawing character, course papers and projects. Public defence of Master's thesis.
Programme learning outcomes	
Learning outcomes specified by the degree programme	PR01. To know and understand fundamental and applied aspects of environmental studies. PR02. To be able to apply environmental science concepts to professional activity. PR03. To comprehend advanced concepts and achievements of nature resource management, sustainable development and research methodology. PR04. To apply legislative and ethical norms for evaluating professional activities, development and implementation of socially significant environmental projects under contradictory requirements. PR05. To demonstrate ability to organize teamwork on implementation of integrated environmental projects taking into account the available resources and time restrictions. PR06. To comprehend novel techniques and instrumental means of environmental research, including methods of mathematical and GIS modelling. PR07. To be able to communicate in foreign language(s) in scientific, industrial and public spheres of activity. PR08. To be able to communicate professional knowledge, personal experience and conclusions to other professionals and broader public in comprehensive and unambiguous manner. PR09. To comprehend principles of human, material resources and time management, basic approaches to decision making under conditions of uncertainty and contradictions. PR10. To demonstrate awareness towards novel principles and methods

	<p>of environmental protection.</p> <p>PR11. To be able to use modern information sources in environmental science, nature resources management and environmental protection.</p> <p>PR12. To be able to assess landscape and biological diversity and to analyse consequences of anthropogenic impacts on natural environments.</p> <p>PR13. To be able to assess potential impacts from industrial objects and economic activity on the environment.</p> <p>PR14. To apply novel approaches to development of decision-making strategy under complex, unforeseeable conditions.</p> <p>PR15. To evaluate environmental risks and hazards under insufficient information and contradictory conditions.</p> <p>PR16. To choose optimal strategy of economic activities and/or nature resource use depending on environmental conditions.</p> <p>PR17. To appraise critically theories, principles, methods and terms from different fields of knowledge for solving practical tasks and problems in environmental science.</p> <p>PR18. To be able to use modern methodology of information processing and interpreting at innovation activities.</p> <p>PR19. To be capable of planning innovation tasks independently and to formulate conclusions upon performance outcomes.</p> <p>PR20. To be capable of ecological engineering designing and expert evaluation of environmental impacts.</p>
Learning outcomes, specified by the higher education institution	<p>PR21. To be able to propose, develop and implement solutions towards problems of water resources protection.</p> <p>PR22. To be able to plan, develop, propose and implement managerial decisions towards land resource quality.</p> <p>PR23. To be able to forecast and evaluate influence of meteorological parameters on dispersion of emissions in the atmosphere.</p> <p>PR24. To be able to calculate parameters of dispersion of atmospheric pollutant emissions, and to assess air quality.</p>
Teaching and learning resources	
Teaching Staff	<p>The Department responsible for the Degree Programme is the Department of Urban Environmental Engineering & Management. Teaching staff involved in the Degree Programme realisation consists of 2 Full Professors, D.Sc, and 7 Associate Professors, Ph.D., 3 Senior Lecturers.</p> <p>All learning disciplines are taught by experienced, qualified and certified teachers who have been trained at leading universities and research institutions both in Ukraine and abroad.</p> <p>The Programme Director is Associate Professor, Senior Research Fellow Dr. Olena M. Drozd.</p>
Material support	<p>The curriculum is supported with multimedia-equipped classrooms, a specialised computer class, 2 specialised study laboratories – the Environmental Monitoring and Applied Ecology ones equipped with stationary and portable devices.</p> <p>All university premises satisfy the norms of sanitary and state construction regulations.</p>
Information and curricula resources	<p>The content and quality of information and curricula resources satisfy the requirements and is sufficient for quality training of specialists in modern conditions.</p> <p>The following resources are in the University:</p> <ul style="list-style-type: none"> • Official university web-site (https://www.kname.edu.ua/) • University Library • Electronic data-bases • Distance-learning portal MOODLE (http://cdo.kname.edu.ua)

	<ul style="list-style-type: none"> • Intramural Internet Wi-Fi access • Subscribed access to publications indexed by the Web of Science and Scopus.
Academic mobility	
National Credit Mobility	Students can participate in the national credit mobility programmes at universities providing for bachelors' degree programme in Environmental Studies (101) via short study courses, seminars, summer and winter schools organised by these universities, with further transfer of learning credits in the frames of practical trainings.
International Credit Mobility	Students have a possibility to participate in international academic mobility programmes up to 6 months of studies under ERASMUS+ programme at University of Nova Gorica (Republic of Slovenia) and Middle East Technical University (ODTU-METU) (Turkey Republic)
Options for International Students	According to the admission requirements