Degree Programme Profile

General Information	
Official Title of the Degree Programme	Environmental Protection Technology
Speciality	183 Environmental Protection Technology
Field of Knowledge	18 Manufacturing and technology
Degree Title in Original Language	Master, Master in Environmental Protection Technology Магістр, магістр з технологій захисту навколишнього середовища
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 № 21006913, valid till 01.07.2024
Cycle / Level	The second (Masters') degree NQF of Ukraine – the 8th level FQ-EHEA – the 2nd cycle EQF-LLL – the 7th level
Entrance Requirements	University (bachelors') degree
Language(s) of Instruction	Ukrainian
Term of Validity of the Degree Programme	5 years
The Aim of the Degree Programme	
	Training of specialists capable of solving complex problems of environmental protection, characterized by uncertainty of terms and requirements
Features of the Degree Programme	
Subject	*Object of study* Modern environmental technologies for environmental protection and ensuring environmental safety *Theoretical content of the subject area* Scientific concepts, categories, principles, technologies of environmental protection at the national, regional and local levels *Methods, techniques and technologies* Methods of modeling systems and processes of technogenic and environmental safety, qualitative and quantitative chemical, physical, physicochemical, medical and biological methods and techniques. Methods of designing environmental protection systems and technologies
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 protection technology Key words: the environment, environmental protection, environmental technologies, technogenous and environmental safety, resource- and energy-saving technologies, environmental risks, designing environmental protection technologies, renewable energy sources, the urban environment
Specific Features	
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 (ДК 003:2010): 2149.2 Environmental Protection Engineer; 2149.2 Environmental Safety Engineer; 2442.2 Nature Resource Management Officer; 2213.2 Water Resource Engineer; 2213.2 Ecosystem Restoration Engineer
Further Education	Earning the Doctoral (Third Cycle) Degree; further professional post-graduate training
Teaching and Evaluation	
Teaching and Learning	Student-centred learning, lectures, practical classes, independent learning, consultations, project work, preparation of Master's thesis
Evaluation	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. Public defense of Master's thesis.
Programme learning outcomes	
Learning outcomes specified by the degree programme	PR01. To be able to analyse complex systems, to understand their interrelations and organizational structure. PR02. To be able to communicate fluently in state and foreign languages orally and in writing on professional issues, in particular, to present research and innovation results. PR03. To be able to use modern communication and information technologies in the field of environmental protection, to collect, store, process and analyse information on the state of the environment and production field for solving professional tasks. PR04. To be able to substantiate decisions aimed at minimizing environmental risks of economic activity at the national, regional and local levels. PR05. To be able to effectively work in a team and an international team, have leadership skills. PR06. To be able to perform an analysis of the socio-economical and environmental state of enterprises, settlements, districts, regions and develop strategies for their sustainable development. PR07. To be able to develop Environmental Management and Auditing Systems adherent to ISO 14004, to define procedures and plan and realize environmental protection measures during whole Life Cycle of production. PR08. To be able to design systems for integrated waste management and environmental-economic aspects of their utilisation, basics of landfill designing for waste disposal, assessing their impact on the environment and human health. PR09. To be able to assess the threats of physical, chemical and biological pollution of the Biosphere and its consequences to humans and the environment, to be able to analyse changes that occur in the environment under impacts of natural and technogenous factors. PR10. To be able to perform the assessment of impacts from industries on the environment and related responsibility for decisions made, to plan and carry out research on the industrial impacts on the environment. PR11. To be able to organize the utilisation and sanitation of industrial and hazardous waste, to assess impact of industrial and hazardous waste

	on the environment. PR12. To be able to implement and operate the renewable energy sources and resource-efficient technologies in industrial and social contexts. PR13. To be able to use national and international environmental legislation norms in professional activity. PR14. To be able to design systems and technologies for environmental protection.
Learning outcomes, specified by the higher education institution	BPR01. Based on the strategic goals of sustainable urban development to identify and assess the factors of environmental threats and risks, to develop methods of managing them, ways to reduce and methods of regulation. BPR02. To be able to substantiate and implement measures for ecologization of the energy sector, the use of low-waste and non-waste technologies, environmental and energy diagnostics and improving the resource and energy efficiency of the technosphere.
Teaching and learning resources	
Teaching Staff	The Department responsible for the Degree Programme is the Department of Urban Environmental Engineering & Management. The Programme Director is Associate Professor, Dr. Tetyana V. Dmytrenko. Scientific and pedagogical specialities (qualifications) of teachers correspond to the disciplines they teach according to the Curriculum Programme. Teaching of lecture disciplines is provided by teachers with scientific degrees and academic titles. Teachers have a confirmed level of scientific and professional activity. 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.
Material support	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. All university premises satisfy the norms of sanitary and state construction regulations.
Information and curricula resources	• Official university web-site (https://www.kname.edu.ua/) • Official department web-site (https://ecology.kname.edu.ua) • University Library • Electronic data-bases (https://eprints.kname.edu.ua/) • Distance-learning portal MOODLE (http://cdo.kname.edu.ua) • 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 Protection Technology (183) 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	-