

Profile of the educational programme «Architecture of Buildings and Constructions» inspecialty191 Architecture and Town Planning

1 – General information	
Full name of higher educational institution	O. M. Beketov National University of Urban Economy in Kharkiv
Higher education degree and the title of qualification in the original language	Master of Architecture and Town Planning
Official title of the educational programme	Architecture of buildings and structures
Type of diploma and the scope of the educational programme	Master's degree, unitary, 90 credits ECTS, term of study 1 year 4 months
Accreditation certificate	Certificate of accreditation by the educational program УД21002747 Period up to – 01.07.2023
Cycle/level	Second (master's degree) level NQF Ukraine – 7 level EQF-LLL– 7 FQ-EHEA – second cycle
Admission requirements	First (bachelor's) level, educational and qualification level specialist
Language (s) of teaching	Ukrainian
Duration of the educational programme	5 years
Internet address of permanent placement of the educational programme description	http://.....kname.edu.ua/
2 – Object of the educational programme	
Acquisition by applicants of higher education by the ability to solve problems with a professional/innovative nature in the sphere of architecture, design, and urban planning. Formation of a creative personality and training of highly qualified specialists who are able to work in the sphere of architecture, design and urban planning, spatially represent and visually reflect creative solutions to typical, original and promising tasks and/or implement innovations in the field of professional activity in the design, reconstruction and restoration of buildings and structures.	
3 – Description of the educational programme	
Subject area	Objects of study and activity: objects of architecture and urban planning include houses and structures for housing, civil, communal,

	<p>industrial, and other purposes; interiors and equipment in the buildings; architectural and town-planning complexes; objects of landscaping, gardening architecture; monumental and arts and crafts; territories (parts of territories) of administrative-territorial units and settlements; reconstruction and restoration of objects by architecture and urban planning; theory of architectural and urban planning activities.</p> <p>Purposes of studying: giving the ability to solve research and innovative problems in the field of architecture and urban planning.</p> <p>Theoretical content of the subject area: the idea, concepts and principles of architectural and urban planning activities; architectural design.</p> <p>Methods, techniques, and technologies for collecting, systematizing information, performing field measurements, formulating and testing the hypothesis of substantiating concepts; modeling, methods of research and design of objects in the architecture and urban planning, technologies for the implementation of architectural supervision, modern digital technologies.</p> <p>Tools and equipment: cartographic materials, technical facilities for researching objects, architectural design drawing equipment, information processing systems, software for modeling objects of architecture and urban planning, materials and tools for layout.</p>
Orientation of the educational programme	Educational and professional
The key focus of the educational programme and specialization	<p>General education in the specialty Architecture and urban planning, specialization Architecture of buildings and structures.</p> <p><i>Key words:</i> architecture, urban planning, environment, innovations, reconstruction, restoration, buildings and structures.</p>
Features of the programme	<p>Cooperation in the field of education with the DOMpublishers publishing house and the MeuserArchitektenBDA bureau (Germany) within the framework of academic mobility. A modern approach to teaching the discipline "Integrated architectural design" using VIM technologies, using modern technologies for 3D printing of building models (workshop "Engineering and computer graphics")</p>
4 – Graduate employability and further academic education	
Employability	<p>Institutions and organizations working in the field of architecture, urban planning, landscape architecture, reconstruction and restoration of architectural objects, design of the architectural environment and construction, public administration and local government, higher education.</p> <p>Professional opportunities of graduates (according to the Classification of Professions DK 003:2010):</p> <p>1229.1 Chief architect (public authorities)</p> <p>1229.3 Chief Architect Specialist</p> <p>1237.1 Chief architect (architecture and construction)</p> <p>2141.2 Architects and city planners</p>
Further academic education	Giving education at the third (educational and scientific) level of higher education, additional qualifications in the adult education system.
5 – Instruction and assessment	
Instruction and	Student-centered studying, problem-based studying, self-studying,

learning	internship studying, and research-based studying. Teaching is carried out in the form of lectures, practical lessons. Independent work of students is accompanied by regular consultations with teachers. Teaching methods: problem presentation, illustrations, and demonstrations, partly search, research, practical.
Assessment	Current control: oral and written survey, tests, presentations of individual tasks. Final control: written examinations and differentiated tests, defense of practice reports. Attestation: public defense of qualifying work.
6 – Programme competences	
Integral competence	The ability to solve problems of a research and/or innovative types in the field of architecture and urban planning
General competences (GC) defined by the standard of higher education of the specialty	GK01. The ability for abstract thinking, analysis and synthesis. GK02. The ability to communicate in the state language both orally and in writing. GK03. The ability to communicate in a foreign language. GK04. The ability to use information and communication technologies. GK05. The desire to preserve the environment. GK06. The ability to act on the basis of ethical considerations (motives). GK07. The knowledge and understanding of the subject area and professional activities. GK08. The ability to communicate with representatives of other professional groups of different levels (with experts from other fields of knowledge / types of economic activity).
Professional competences of the specialty (PC) defined by the standard of higher education of the specialty	SC01. The ability to integrate knowledge and solve complex problems of architecture and urban planning in broad or multidisciplinary contexts. SC02. The ability to solve problems of architecture and urban planning in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and moral responsibility. SC03. The ability to analyse, develop and implement architectural and urban planning solutions, taking into account socio-demographic, national-ethnic, natural-climatic, engineering and technical factors and sanitary-hygienic, energy-saving, environmental, technical and economic requirements. SC04. The ability to continue learning with a high degree of autonomy. SC05. The ability to develop and implement projects in the field of architecture and urban planning. SC06. The ability to analyse international and domestic experience, collect, accumulate and use the information necessary to solve research and innovation problems in the field of architecture and urban planning. SC07. The ability to design modeling and research of conceptual, full-scale and computer models of objects of architecture and urban planning. SC08. The ability to develop tasks for architectural and urban planning, organize the design process using data from field surveys, measurement work, urban planning of the design object. SC09. The ability to manage architecture and urban planning workflows that are complex, unpredictable and require new strategic approaches. SC10. The ability to generate new ideas to develop innovative solutions in the field of architecture and urban planning. SC11. The ability to critically think about the problems of architecture and

	<p>urban planning.</p> <p>SC12. The ability to master the methods of functional zoning, architectural and planning solutions, composition and the formation of an artistic image of architectural objects.</p> <p>SC13. The ability to develop volumetric and spatial solutions for architectural objects of housing and public purposes; knowledge and understanding of the features of the use of modern architectural and structural systems in the design of buildings and structures.</p> <p>SC14. The ability to understand the principles of improving the architectural environment, mastering the methods and techniques for designing architectural objects: functional zoning and architectural and planning organization of residential and public buildings.</p>
7 – Programme learning outcomes	
<p>Programme learning Outcomes defined by the standard of higher education of the specialty</p>	<p>PR01. To have specialized conceptual knowledge that includes modern scientific achievements in the field of architecture and urban planning and is the basis for original thinking and research.</p> <p>PR02. To have the specialized/problem-solving skills required to conduct research and/or innovate in architecture and urban planning to develop new knowledge and procedures.</p> <p>PH03. To carry out a pre-project analysis of architectural and urban planning objects and territories.</p> <p>PR04. To understand and apply in practice the theoretical and practical foundations for the design of innovative urban planning objects, residential, public, industrial buildings and structures, reconstruction and restoration of architectural objects, methods for achieving a rational architectural and planning, spatial, constructive solution, ensuring socio-economic efficiency, environmental friendliness, energy efficiency</p> <p>PR05. To know, understand and evaluate the characteristics of modern building materials, products and technologies, take into account their features when developing innovative design solutions for buildings and structures, in projects for the improvement of urban and landscape areas, reconstruction and restoration of architectural monuments and urban planning.</p> <p>PR06. To ensure the harmonization of architectural objects and the objective environment, including using the principles and methods of the theory of design of the architectural environment.</p> <p>PR07. To carry out design modeling, select digital technologies and software tools for solving problems of research and innovative nature, developing and implementing projects in the field of architecture, urban planning, drawing up relevant scientific and technical documentation, making layouts, and visual illustrative materials.</p> <p>PR08. To organize work on complex architectural and urban planning projects, cooperate with customers and the public in the development, approval, and public discussion of architectural projects; clearly conveys his own conclusions and arguments to specialists and non-specialists.</p> <p>PR09. To apply energy-efficient and other innovative technologies when conducting scientific architectural and urban planning research and making integrated architectural and urban planning decisions.</p> <p>PR10. To discuss the results of professional activities, research, and</p>

	<p>innovative projects in the field of architecture, and urban planning in state and foreign languages verbally and in writing.</p> <p>PR11. To make effective decisions in the field of architecture and urban planning, develop and compare alternatives, take into account limitations, evaluate possible side effects and risks.</p> <p>PR12. To know and apply in practice the legislation and the regulatory framework for research and development of architectural and urban planning projects.</p> <p>PR13. To substantiate safety, sanitary and hygienic, environmental, engineering and technical and economic solutions and indicators in integrated architectural and urban design.</p> <p>PR14. To carry out architectural supervision over the implementation of projects in the field of architecture and urban planning.</p> <p>PR15. To analyse international and domestic experience in designing objects of architecture and urban planning.</p> <p>PR16. To formulate and critically comprehend the principles and rules of architectural and urban planning activities, develop architectural and planning and space-spatial solutions for multifunctional objects</p> <p>PR17. To determine the main types of modern building and finishing materials, use the methodology for designing buildings and structures, and develop architectural projects in accordance with the requirements and standards.</p> <p>PR18. To apply the means of architectural composition and determine the image of an architectural object, introduce style features and aesthetic properties of the formation of the architectural environment.</p>
8 – Resource support for programme implementation	
Staffing	All scientific and teaching workers are qualified, respectively, with educational components, experience in practical and scientific and teaching activities, and regularly improve their qualifications through participation in scientific projects, conferences, and internships in institutions in Ukraine and foreign countries.
Material and technical support	The material and technical support of the educational program meets the requirements and provides the possibility of effective training of applicants. The educational process is fully provided with an auditorium fund, administrative and auxiliary premises. Specialized computer laboratories of the department have modern equipment and software (software packages (ArchiCAD, AutoCAD, REVIT, 3DMax, VIM technologies)) with access to the Internet, available cartographic materials, survey technical means. Audiences with multimedia equipment are used for lectures.
Information, educational and methodological support	<p>All educational components are provided with educational and methodological materials: textbooks; study guides; lecture notes; guidelines; individual tasks; collections of situational tasks (cases); examples of solving typical tasks or performing typical tasks; computer presentations; illustrative materials; resource directories, etc., hosted in the respective courses on the Moodle distance studying platform.</p> <p>Applicants have free access to modern professional literature and periodicals; Scopus and Web of Science databases; Springer resources; Elsevier's Science Direct databases; There are up to 39 thousand e-books and a collection of 2088 electronic monographs from 2019-2020 editions on the Science Direct platform.</p> <p>All educational and methodological materials are available to students</p>

	<p>in the reading rooms of the scientific library http://library.kname.edu.ua/index.php/ru/, including in the information service room, equipped with computers with access to the Internet and the local network of the University, in the digital repository http://eprints.kname.edu.ua, on the portal of the Distance Learning Center http://cdo.kname.edu.ua/ on the website of the Department of Architecture of Buildings and Structures and Architectural Environment Design https://abs.kname.edu.ua/</p>
9 – Academic mobility	
National credit mobility	In accordance with the Regulations on academic mobility of students, graduate students, doctoral students, scientific and teaching and scientific workers in O. M. Beketov National University of Urban Economy in Kharkiv
International credit mobility	Cooperation agreement between O. M. Beketov National University of Urban Economy in Kharkiv and Philipp Moiseris head of the DOMpublishers publishing house and head of the «MeuserArchitektenBDA» bureau (Germany) dated from 14.11.2018 Agreement No. 93 from 2017-2022 between O. M. Beketov National University of Urban Economy in Kharkiv and Krakow Polytechnic, Poland.
Training of foreign applicants for higher education	In accordance with the Rules for admission to study at O. M. Beketov National University of Urban Economy in Kharkiv