



**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE**  
**KYIV NATIONAL UNIVERSITY OF**  
**CONSTRUCTION AND ARCHITECTURE**

**EDUCATIONAL AND PROFESSIONAL PROGRAM**

**(ARCHITECTURE AND URBAN PLANNING)**

the name of the educational program

**first (bachelor) level of higher education**

**in specialty 191 "Architecture and urban planning"**

**fields of knowledge 19 "Architecture and construction"**

**Qualification: Bachelor of Architecture and Urban Planning**

**APPROVED**

*Scientific council*

*Kyiv National University of Construction and Architecture  
with changes*

*Protocol No. \_\_\_\_ of \_\_\_\_\_*

*The educational program will be implemented*

*from September 1, 2024.*

**Chairman of the Academic Council**

\_\_\_\_\_ **Petro Kulikov**

« \_\_\_\_ » \_\_\_\_\_ 2023.

**LETTER OF AGREEMENT**  
**educational and professional training program for higher education applicants**  
**ARCHITECTURE AND URBAN PLANNING**  
the name of the educational program  
**at the first (bachelor) educational level**  
**in specialty 191 "Architecture and urban planning"**

1. It was agreed at the meeting of the scientific and methodical commission (SMC)  
for the specialty  
(Protocol No. \_\_\_ of "\_\_\_" \_\_\_\_\_ 20\_\_)

**Guarantor of the educational program** \_\_\_\_\_ Larysa Bridnia

«\_\_\_» \_\_\_\_\_ 20\_\_.

2. Checked by the educational and methodical department:

**Head of the educational and methodical department** \_\_\_\_\_ Ihor Sklyarov

«\_\_\_» \_\_\_\_\_ 20\_\_.

3. It was agreed at the meeting of the Methodological Council of the University  
(Protocol No. \_\_ of "\_\_\_" \_\_\_\_\_ 20\_\_)

**Vice-rector for educational and methodological**

**works of KNUBA** \_\_\_\_\_ Andrii Shpakov

«\_\_\_» \_\_\_\_\_ 20\_\_.

## PREFACE

DEVELOPED by the project group consisting of:

1. Oleksandr KASHCHENKO - doctor of technical sciences, professor, dean of the Faculty of Architecture of the Kyiv National University of Civil Engineering and Architecture.
2. Larisa BRIDNIA - guarantor of the educational program, Ph.D., associate professor, associate professor of the department of architectural design of civil buildings and structures of the Kyiv National University of Civil Engineering and Architecture.
3. Lyudmila BACHYNSKA - Ph.D., associate professor, professor of the Department of Fundamentals of Architecture and Architectural Design of the Kyiv National University of Civil Engineering and Architecture.
4. Yuliya KHARABORSKA - Ph.D., associate professor, associate professor of the Department of Architectural Theory of the Kyiv National University of Civil Engineering and Architecture.
5. Yuliya RYABETS - Ph.D., associate professor of the Department of Architectural Environment Design.
6. Tetiana LADAN - Ph.D., associate professor of the Department of Fundamentals of Architecture and Architectural Design.
7. Hanna SULYMENKO - Ph.D., Associate Professor of the Department of Information Technologies in Architecture.

The guarantor - Larysa BRIDNIA.

### **Stakeholders:**

#### **1. Academic community:**

«COUNTED»

Volodymyr CHERNYAVSKYI - Doctor of Architecture, Associate Professor, Head of the Department of Theory, History of Architecture and Synthesis of Arts at the National Academy of Fine Arts and Architecture

#### **2. Employers and/or representatives of the professional community:**

«COUNTED»

Vadym ZHEZHERIN - full member of the Academy of Architecture of Ukraine, the head of the Kyiv organization of the National Union of Architects of Ukraine, a member of the committee for the State Awards of Ukraine in the field of architecture, the president of the Architectural Council of Central and Eastern Europe (1998–2000). The head of the personal architectural workshop of Zhezherin JSC.

#### **3. Acquirers:**

«COUNTED»

Sofia Vinnichuk is a 4th-year student of the ARCH-41 group of the Faculty of Architecture of KNUBA.

**1. Profile of the educational and professional program "Architecture and urban planning" in specialty 191 "ARCHITECTURE AND URBAN PLANNING"**

<b>1 – General information</b>	
<b>Full name of the higher educational institution and structural division</b>	Kyiv National University of Construction and Architecture, Faculty of architecture
<b>Degree of higher education and the title of the qualification</b>	Bachelor. Bachelor of Architecture and Urban Planning
<b>The official name of the educational program</b>	Architecture and urban planning
<b>Diploma type and scope educational and professional program</b>	Bachelor's degree, single, study period 3 years 10 months. - Scope of the educational program: - on the basis of complete general secondary education is 240 ECTS credits; - on the basis of the "junior bachelor" degree (educational and qualification level "junior specialist"), the higher education institution has the right to recognize and re-enroll no more than 60 ECTS credits obtained within the framework of the previous educational program of training of the junior bachelor (junior specialist); - at least 50% of the volume of the educational program should be aimed at ensuring general and special (professional) competences in the specialty, defined by the standard of higher education; - the scope of practices should be at least 10 ECTS credits
<b>Availability of accreditation</b>	Ministry of Education and Science of Ukraine. Accreditation certificate NDN <sup>o</sup> 1193580 of the Kyiv National University of Civil Engineering and Architecture in accordance with the decision of the Accreditation Commission dated March 29, 2013, protocol No. 102 (Monument Ministry of Education and Culture Order No. 927-1 dated April 5, 2013 from the field of knowledge 19 "Architecture and Construction" 191 "Architecture and Urban Planning" recognized as accredited at the bachelor's level. The validity period of the certificate is until July 1, 2023 (on the basis of the order of the Ministry of Education and Culture of Ukraine dated December 19, 2016 No. 1565)
<b>Cycle/level</b>	NRC of Ukraine - level 6, FQ-EHEA – the first cycle, EQF - level 6

<b>Prerequisites</b>	Атестат про повну середню освіту або диплом молодшого бакалавра за спеціальністю (молодшого спеціаліста за напрямом). Умови вступу визначаються «Правилами прийому до Київського національного університету будівництва і архітектури», затвердженими вченою радою
<b>Language(s) of instruction</b>	Ukrainian, English
<b>The term of validity of the educational and professional program</b>	5 years (from the day of accreditation until the next update of the educational program (EP))
<b>Internet address of the permanent placement of the description of the educational and professional program</b>	<a href="http://www.knuba.edu.ua">www.knuba.edu.ua</a>
<b>2 – The purpose of the educational program</b>	
To provide education in the field of knowledge 19 "Architecture and construction" specialty 191 "Architecture and urban planning", to provide theoretical and practical training of highly qualified personnel who would acquire basic professional knowledge to perform professional tasks and duties of an applied nature in the field. To ensure the conditions for the formation and development of program competencies, which will allow mastering the basic knowledge, skills, and abilities necessary for further education and further professional and professional-scientific activities	
<b>3 – Characteristics of the educational program</b>	
<b>Subject area (field of knowledge, specialty)</b>	Branch of knowledge 19 "Architecture and construction"; specialty 191 "Architecture and urban planning"; OPP is interdisciplinary. Mandatory components: Cycle of humanitarian and socio-economic disciplines; Cycle of disciplines of mathematical and natural science training; Cycle of professional and practical training by specialty. Selective components by specialization. Cycle of professional and practical training in special activities
<b>Orientation of the educational and professional program</b>	Educational and professional. The main orientation of the program is applied. The program is based on well-known scientific results, taking into account the current state of the construction industry, and focuses on current issues of architecture and urban planning.

<b>The main focus of the educational and professional program</b>	<p>Special education in field 19 "Architecture and construction", specialty 191 "Architecture and urban planning".</p> <p>The main focus is on the ability to creative project organizational and management activities in project, research organizations and educational institutions.</p> <p>The educational program is based on mastering the methods of project objects of architecture and urban planning.</p> <p>Keywords: architecture, urban planning, design, composition, construction of buildings</p>
<b>Features of the educational and professional program</b>	<p>Mandatory availability of geodetic, measuring, drawing, familiarization, construction technology and design practices, which provide basic knowledge for mastering professional disciplines and are the basis for further training with a high level of autonomy. The cycle of professional and practical training ensures the possibility of successful work in the field of "Architecture and construction"</p>
<b>4 – Suitability of graduates for employment and further education</b>	
<b>Suitability for employment</b>	<p>EPP is focused on the following activities of graduates:  Professions and professional job titles according to the current edition of the National Classifier of Ukraine:  Classifier of professions 2141.2 Architect  Professions and professional job titles according to International  Standard Classification of Occupations 2008 (ISCO-08):  Architect</p>
<b>Further education</b>	<p>At the first (bachelor's) level of higher education, students can continue their studies in specialties, the foundations of which are laid down in the curricula of bachelor's programs, starting from the second to third years of study.</p> <p>Graduates can continue their studies in the given and related specialties at the training programs of the second (master's) level of higher education of the FQ-EHEA cycle, EQF level 7</p>
<b>5 – Teaching and assessment</b>	
<b>Teaching and learning</b>	<p>Student-centered learning, problem-based and differentiated learning technology, learning intensification and individualization technology, programmed learning technology, information technology, developmental learning technology, credit-transfer system of learning organization, self-learning, research-based learning.</p> <p>Teaching is conducted in the form of: lecture, multimedia lecture, interactive lecture, seminars, practical classes, laboratory works, independent study based on textbooks and</p>

	notes, consultations with teachers, preparation of a bachelor's qualification work (project)
<b>Assessment</b>	Evaluation methods and criteria are coordinated with learning outcomes and types of educational activities. Assessment methods - exams, tests, credit, reports on practice and laboratory work, tests, term papers, essays, presentations, ongoing control, project work, qualifying exam, qualifying diploma project
<b>6 – Software competencies</b>	
<b>Integral competence</b>	<b>IC.</b> The ability to solve complex specialized tasks and practical problems in the field of urban planning and architecture, characterized by the complexity and uncertainty of conditions, based on the application of modern architectural theories and methods, tools of related sciences
<b>General competences (GC)</b>	<p><b>GC 01.</b> Knowledge and understanding of the subject area and understanding of professional activity.</p> <p><b>GC 02.</b> Ability to identify, pose and solve problems.</p> <p><b>GC 03.</b> Ability to adapt and act in a new situation.</p> <p><b>GC 04.</b> Ability to communicate in the national language both orally and in writing.</p> <p><b>GC 05.</b> Ability to communicate with representatives of other professional groups at different levels (experts from other fields of knowledge/types of economic activity).</p> <p><b>GC 06.</b> The ability to act on the basis of ethical considerations (motives).</p> <p><b>GC 07.</b> Ability to make informed decisions.</p> <p><b>GC 08.</b> Interpersonal skills.</p> <p><b>GC 09.</b> The ability to realize one's rights and responsibilities as a member of society, to realize the values of a civil (free democratic) society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine.</p> <p><b>GC 10.</b> The ability to preserve and multiply moral, cultural, scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, their place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for active recreation and leading a healthy lifestyle</p>

<p><b>Professional competences (PC)</b></p>	<p><b>PC 01.</b> Awareness of socio-economic and cultural aspects of architecture and urban planning.</p> <p><b>PC 02.</b> The ability to apply theories, methods and principles of physical and mathematical, natural sciences, computer, technologies to solve complex specialized problems of architecture and urban planning.</p> <p><b>PC 03.</b> Awareness of the peculiarities of the development of historical and modern styles in architecture, urban planning, and design of Ukraine and foreign countries.</p> <p><b>PC 04.</b> The ability to comply with the requirements of legislation, construction regulations, standards and rules, technical regulations, other normative documents in the fields of urban planning and architecture during the implementation of new construction, reconstruction, restoration and overhaul of buildings and structures.</p> <p><b>PC 05.</b> Ability to analyze and evaluate natural-climatic, ecological, engineering-technical, socio-demographic and architectural-town planning conditions of architectural design.</p> <p><b>PC 06.</b> Ability to perform technical and artistic images for use in architectural and urban planning, architectural design and landscape design.</p> <p><b>PC 07.</b> Awareness of the basic laws and principles of architectural and urban composition, the formation of an artistic image and style in the process of designing buildings and structures, urban, architectural, environmental and landscape objects.</p> <p><b>PC 08.</b> Understanding the theoretical and methodological foundations of architectural design of buildings and structures, urban planning, architectural-environmental and landscape objects.</p> <p><b>PC 09.</b> The ability to develop architectural-artistic, functional, volume-planning and constructive solutions, as well as execute drawings, prepare documentation of architectural and urban planning projects.</p> <p><b>PC 10.</b> The ability to participate in the preparation of architectural and planning tasks for design, in the organization of the development of architectural and urban planning, architectural and environmental and landscape projects.</p>
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- PC 11.** Ability to work effectively in a team, as well as to cooperate with clients, suppliers, other partners and the public in the development, coordination and public discussion of architectural projects.
- PC 12.** Awareness of the peculiarities of the use of various types of constructive and engineering systems and networks, their calculations in architectural and urban planning.
- PC 13.** Ability to develop architectural and urban planning solutions taking into account safety and sanitary-hygienic, engineering-technical and energy-saving, technical and economic requirements and calculations.
- PC14.** Awareness of the features of the use of modern building materials, products and structures, as well as technologies in the creation of urban planning, architecture and construction objects.
- PC15.** Ability to perform computer modeling, visualization, layout and preparation of visual illustrative materials for architectural and urban planning projects.
- PC16.** Awareness of the general theoretical, methodical and creative principles of architectural design.
- PC17.** Awareness of the theoretical foundations of urban planning and the ability to apply them to solve complex specialized problems.
- PC18.** Awareness of the theoretical foundations of the architecture of buildings and structures, the foundations of reconstruction, restoration of architectural objects and the ability to apply them to solve complex specialized problems.
- PC19.** Ability to apply theoretical foundations architectural environment design for solving complex specialized problems.
- PC20.** The ability to apply the theoretical foundations of landscape architecture to solve complex specialized problems.
- PC21.** Awareness of the theoretical foundations of sustainable development of society, features of its provision with architectural means.
- PC22.** Ability to ensure unobstructed architectural space.
- PC23.** The ability to create architectural and urban planning projects using modern computer modeling.

## 7 – Program learning outcomes

- PR01.** Communicate freely on professional issues in national and foreign languages orally and in writing.
- PR02.** Know the basic principles and principles of architectural and urban planning activities.
- PR03.** Apply theories and methods of physical and mathematical, natural, technical and humanitarian sciences to solve complex specialized problems of architecture and urban planning.
- PR04.** Evaluate the factors and requirements that determine the prerequisites of architectural and urban planning.
- PR05.** Apply the main theories of design, reconstruction and restoration of architectural and urban planning, architectural and environmental and landscape objects, modern methods and technologies, international and domestic experience to solve complex specialized problems of architecture and urban planning.
- PR06.** Collect, analyze and evaluate information from various sources, necessary for making informed project architectural and urban planning decisions.
- PR07.** Apply software tools, IT technologies and Internet resources to solve complex specialized problems of architecture and urban planning.
- PR08.** Knowledge of the normative base of architectural and urban planning.
- PR09.** Develop projects, carry out pre-project analysis in the process of architectural and urban planning, taking into account goals, resource limitations, social, ethical and legislative aspects.
- PR10.** Apply modern means and methods of engineering, artistic and computer graphics used in architectural and urban planning.
- PR11.** Apply artistic and compositional principles in architectural and urban planning.
- PR12.** Apply modern theoretical-methodological and typological approaches to solving the problems of formation and development of the architectural, town-planning and landscape environment.
- PR13.** Identify, analyze and evaluate the needs and requirements of clients and partners, find effective joint solutions for architectural and urban planning projects.
- PR14.** Choose rational architectural solutions based on the analysis of the effectiveness of constructive, engineering and technical systems, building materials and products, decorative and finishing materials.
- PR15.** Ensure compliance with sanitary-hygienic, engineering-technical, economic, safety regulatory requirements in architectural and urban planning.
- PR16.** Understand the socio-economic, ecological, ethical and aesthetic consequences of proposed solutions in the field of urban planning and architecture.
- PR17.** Apply energy-efficient and other innovative technologies when designing architectural objects.
- PR18.** Know the peculiarities of participation in architectural and urban planning competitive design.
- PR19.** Organize presentations and discussions of projects of architectural and urban planning and landscape environment.
- PR20.** Apply modern theoretical and methodological approaches to ensure the sustainable development of society and create a barrier-free architectural environment using the methods of architectural and urban planning.

<b>PR21.</b> To be able to carry out architectural and urban planning by means of modern computer modeling.	
<b>8 – Resource support for program implementation</b>	
<b>Scientific and pedagogical support</b>	Quantitative and qualitative indicators of the level of scientific and professional activity of scientific and pedagogical workers who ensure the educational process according to the educational program fully correspond to the Licensing conditions for the implementation of educational activities of educational institutions
<b>Material and technical support</b>	Quantitative indicators of material and technical support fully correspond to the Licensing conditions for the implementation of educational activities of educational institutions
<b>Informational and educational and methodological support</b>	The volume, composition and quality of informational and educational and methodological support fully comply with the Licensing conditions for the implementation of educational activities of educational institutions
<b>9 – Academic mobility</b>	
<b>National credit mobility</b>	The regulations of the university provide for the possibility of national credit mobility.  Re-enrollment of credits received in other educational institutions of Ukraine is allowed
<b>International credit mobility</b>	The university regulations provide for the possibility of international credit mobility
<b>Education of foreign higher education graduates</b>	Education of foreign students of higher education is conducted on general terms with additional language training

**2. List of components of the educational and professional program  
"Architecture and urban planning"**

Code	Components of the educational program (educational disciplines, course projects (works), practices, qualification work)	Number of credits	Final control form
1	2	3	4
Mandatory components of the educational program (OK)			
Mandatory common components			
OK.01	Physical Education	6	test
OK.02	History of Ukrainian statehood and culture	3	test
OK.03	Basics of academic writing	3	test
OK.03.1	Ukrainian language (as a foreign language) (for foreigners)	3	test
OK.04.1	Business Foreign Language	3	test
OK.04.2	Professional foreign language	3	test
OK.04.3	Professional Ukrainian language (as a foreign language)	6	test

	(for foreigners)		
OK.05	History of philosophy and philosophical thought	3	exam
OK.06	Ecology and life safety	3	test
OK.07	Politology	3	exam
	Total:	27	
Mandatory professional components			
OK.08	Architectural design	21	course projects / tests
OK.09	Descriptive geometry	7	exam
OK.10	Higher mathematics	6	exam
OK.11	Composition	3	test
OK.12	Art	9	tests
OK.13	History of architecture and urban planning	18,5	exams
OK.14	Theory of architecture	16,5	tests / exams
OK.15	Informatics and computer design	3	test
OK.16	Materials science	3	exams
OK.17	Basics of geodesy	3	test
OK.18	Basics of the theory of structures	7	tests / exams
OK.19	Architectural and construction physics	7	tests / exams
OK.20	Structures of buildings and structures	15	tests / exams / course projects
OK.21	Construction production technology	3	test / course works
OK.22	Engineering equipment of buildings and structures	4,5	test и/ course works
OK.23	Basics of economics of architecture and construction	4,5	test/exam
OK.24	Educational practice (measurement and geodesic)	3	test
OK.25	Educational practice (drawing and familiarization)	3	test
OK.26	Educational practice (construction)	3	test
OK.27	Production practice (project)	6	test
OK.28	Bachelor's attestation work	7	thesis defense
	Total:	153	
	The total volume of mandatory components:	<b>180</b>	
Elective components of the educational and professional program			
BK.01	Selective component	3	test
BK.02	Selective component	6	tests
BK.03	Selective component	3	test
BK.04	Selective component	3	test
BK.05	Selective component	3	test
BK.06	Selective component	3	test
BK.07	Selective component	6	tests

BK.08	Selective component	3	test
BK.09	Selective component	3	test
BK.10	Selective component	3	test
BK.11	Selective component	3	test
BK.12	Selective component	6	tests
BK.13	Selective component	3	test
BK.14	Selective component	3	test
BK.15	Selective component	3	test
BK.16	Selective component	3	test
BK.17	Selective component	3	test
	The total amount of sample components:	<b>60</b>	
	<b>The total scope of the educational program</b>	<b>240</b>	

ELECTIVE COMPONENTS OF THE EDUCATIONAL AND PROFESSIONAL PROGRAM										
	Components of the educational program	Total number of credits								Final control form
		I sem	II sem	III sem.	IV sem	V sem.	VI sem	VII sem.	VIII sem.	
1	Selective components*	0								test
2	Selective components*		0							test
3	Selective components*			9						test
4	Selective components*				12					test
5	Selective components*					9				test
6	Selective components*						9			test
7	Selective components*							12		test
8	Selective components*								9	test

\* The applicant independently chooses a discipline from the website <http://org2.knuba.edu.ua> within the framework of credits allocated for the semester

### 3. Structural and logical scheme of the educational and professional program "Architecture and urban planning"

	I YEAR	II YEAR	III YEAR	IV YEAR	
<b>180,0</b>					<b>7,0</b>
<b>MANDATORY COMPONENTS</b>	OK.01 Physical Education 3,0	OK.01 Physical Education 3,0			
	OK.02. History of Ukrainian statehood and culture 3,0	OK.05. History of philosophy and philosophical thought (OK.02) 3,0	OK.07. Politology (OK.02; OK.05) 3,0	OK.23. Основи економіки архітектури і будівництва (OK08; OK38) 4,5	
		OK.06. Ecology and life safety (OK.03) 3,0			
	OK.03. Basics of academic writing 3,0	OK.04.1. Business Foreign Language (OK.03) 3,0	OK.04.2 Professional foreign language (OK.03; OK.04.1) 3,0		
	OK.13. History of architecture and urban planning 5,0	OK.13. History of architecture and urban planning (OK.02; OK.13.1; OK.13.2) 5,0	OK.13. History of architecture and urban planning (OK.02; OK.13.1; OK.13.2; OK.13.3; OK.13.4) 4,5	OK.13. History of architecture and urban planning (OK.02; OK.13.1; OK.13.2; OK.13.3; OK.13.4; OK.13.5; OK.13.6) 4,0	
	OK.14. Theory of architecture 3,0	OK.14. Theory of architecture (OK.02; OK.13; OK.14.1; OK.14.2) 4,5	OK.14. Theory of architecture (OK.02; OK.13; OK.14.1; OK.14.2; OK.14.3; OK.14.4) 4,5	OK.14. Theory of architecture (OK.02; OK.13; OK.14.1; OK.14.2; OK.14.3; OK.14.4; OK.14.5; OK.14.6) 4,5	
	OK.12. Art 3,0	OK.12. Art (OK.12.1; OK.11; OK.13.1; OK.13.2) 3,0	OK.12. Art (OK.12.1; OK.12.2; OK.11; OK.13.1; OK.13.2; OK.13.3; OK.13.4) 3,0		
	OK.11. Composition 3,0				
	OK.15. Informatics and computer design 3,0				
	OK.09. Descriptive geometry 7,0			OK.19. Architectural and construction physics (OK.08.1; OK.08.2; OK.09; OK.10; OK.18.1; OK.18.2; OK.20.1; OK.20.2) 4,5	OK.19. Architectural and construction physics (OK.19.1; OK.08.1; OK.08.2; OK.09; OK.10; OK.18.1; OK.18.2; OK.20.1; OK.20.2) 2,5
	OK.10. Higher mathematics 6,0	OK.18. Basics of the theory of structures (OK.09; OK.10; OK.08.1) 4,0	OK.18. Basics of the theory of structures (OK.18.1; OK.09; OK.10; OK.08.1) 3,0	OK.22. Engineering equipment of buildings and structures (OK.18; OK.08.1; OK.08.2; OK.08.3; OK.20; OK.21) 4,5	
	OK.16. Materials science 3,0	OK.20. Structures of buildings and structures (OK.16; OK.13; OK.14; OK.17; OK.08.1) 4,5	OK.20. Structures of buildings and structures (OK.20.1; OK.20.2; OK.09; OK.16; OK.13; OK.14; OK.08.1; OK.08.2; OK.06) 4,5	OK.20. Structures of buildings and structures (OK.20.1; OK.20.2; OK.20.3; OK.20.4; OK.09; OK.16; OK.13; OK.14; OK.08; OK.06) 6,0	
	OK.17. Basics of geodesy 3,0		OK.21. Construction production technology (OK.20.1; OK.20.2; OK.09; OK.16; OK.13; OK.14; OK.08.1; OK.08.2; OK.06; OK.17) 3,0		
	OK.08. Architectural design 12,0 (OK.09; OK.11.1; OK.12.1; OK.13.1; OK.14.1; OK.16; OK.17)	OK.08. Architectural design 3,0 (OK.09; OK.11; OK.12.1; OK.12.2; OK.13.1; OK.13.2; OK.14.1; OK.16; OK.17; OK.20.1)	OK.08. Architectural design 6,0 (OK.08.1; OK.09; OK.11; OK.12.1; OK.12.2; OK.13.1; OK.13.2; OK.14.1; OK.14.2; OK.16; OK.17; OK.20.1)		
	OK.24. Educational practice (measurement and geodesic) 3,0 (OK.08.1; OK.09; OK.17; OK.12.1)	OK.25. Educational practice (drawing and familiarization) 3,0 (OK.11; OK.12; OK.13.1; OK.13.2; OK.13.3; OK.14.1; OK.14.2)	OK.26. Educational practice (construction) 3,0 (OK.21; OK.20.1; OK.20.2; OK.20.3; OK.06; OK.08; OK.14)	OK.27. Production practice (project) 6,0 (OK.08; OK.11; OK.12; OK.13; OK.14; OK.15; OK.16; OK.17; OK.18; OK.19; OK.20; OK.21)	
<b>60,0</b>		BK. Art. Selective component (OK.12.1) 3,0	BK. Art. Selective component (OK.12.1; OK.12.2) 3,0	BK. Art. Selective component (OK.12.1; OK.12.2; OK.12.3; OK.11; OK.13.1; OK.13.2; OK.13.3; OK.13.4) 3,0	
		BK. Architectural design (selective component) (OK.09; OK.11; OK.12.1; OK.12.2; OK.13.1; OK.13.2; OK.14.1; OK.16; OK.17; OK.20.1) 9,0	BK. Architectural design (selective component) (OK.08.1; OK.11; OK.12.1; OK.12.2; OK.13.1; OK.14.1; OK.14.2; OK.16; OK.17; OK.20.1) 6,0	BK. Architectural design (selective component) (OK.08.1; OK.08.2; OK.08.3; OK.09; OK.11; OK.12; OK.12.1; OK.13; OK.14; OK.16; OK.17; OK.20) 6,0	
		BK. Computer design. Selective component (OK.11; OK.08; OK.12; OK.13; OK.14) 3,0	BK. Computer design. Selective component (OK.11; OK.08; OK.12; OK.13; OK.14) 3,0	BK. Selective component 3,0	
		BK. Selective component 3,0	BK. Selective component 3,0	BK. Selective component 3,0	
		BK. Selective component 3,0	BK. Selective component 3,0	BK. Selective component 3,0	
				BK. Selective component 3,0	
				BK. Selective component 3,0	
<b>SOFTWARE COMPETENCES:</b> Integral competence (IC), General competences (GC01, GC02, GC03, GC04, GC05, GC06, GC07, GC08, GC09), Professional competences (PC01, PC02, PC03, PC04, PC05, PC06, PC07, PC08, PC09, PC10, PC11, PC12, PC13, PC14, PC15, PC16, PC17, PC18, PC19, PC20, PC21, PC22, PC23)					
<b>PROGRAM LEARNING OUTCOMES:</b> PR01, PR02, PR03, PR04, PR05, PR06, PR07, PR08, PR09, PR10, PR11, PR12, PR13, PR14, PR15, PR16, PR17, PR18, PR19, PR20, PR21					

**BACHELOR'S ATTESTATION WORK**

## Correspondence matrix of learning outcomes and competencies defined by the standard

Program learning outcomes	Competences																													
	Интегрална	General competences										Professional competences																		
		GC1	GC2	GC3	GC4	GC5	GC6	GC7	GC8	GC9	GC10	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10	PC11	PC12	PC13	PC14	PC15	PC16	PC17	PC18	PC19
PR01		+		+				+												+	+									
PR02	+	+	+		+	+	+		+	+	+		+	+	+		+	+	+							+	+	+	+	+
PR03	+						+					+		+				+								+	+	+	+	+
PR04	+	+	+		+	+	+					+	+	+						+					+	+	+	+	+	+
PR05	+	+	+	+			+		+		+								+	+						+	+	+	+	+
PR06		+	+	+			+							+	+	+			+				+			+	+	+	+	+
PR07		+					+					+				+			+			+	+			+				
PR08		+											+						+	+					+	+	+	+	+	+
PR09		+	+	+		+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
PR10				+					+										+							+				
PR11				+		+	+																			+				
PR12	+	+					+		+	+									+								+	+	+	+
PR13		+		+	+		+	+											+								+	+	+	+
PR14		+																	+	+	+	+	+	+		+	+	+	+	+
PR15		+																	+			+	+	+		+	+	+	+	+
PR16	+	+	+	+			+		+		+		+						+					+		+	+	+	+	+
PR17		+					+		+				+					+	+			+	+	+		+	+	+	+	+
PR18		+	+	+		+			+	+																+	+	+	+	+
PR19		+	+	+	+	+	+	+		+									+	+		+	+			+				
PR20		+	+	+	+				+																		+	+	+	+







## **The list of normative documents on which the educational and professional program is based:**

1. Law of Ukraine "On Higher Education" dated July 1, 2014 No. 1556-VII. Verkhovna Rada information. 2014. No. 37-38. Art. 2004. URL: <https://zakon.rada.gov.ua/laws/show/1556-18> (access date: 02/01/2019).
2. Law of Ukraine "On Education" dated September 5, 2017 No. 2145-VIII. Verkhovna Rada information. 2017. No. 38-39. St. 380. URL: <https://zakon.rada.gov.ua/laws/show/2145-19> (date of application: 08.12.2019).
3. Law of Ukraine "On Scientific and Scientific-Technical Activities" dated November 26, 2015 No. 848-VIII. Verkhovna Rada information. 2016. No. 3. Art. 25. URL: <https://zakon.rada.gov.ua/laws/show/848-19> (date of application: 08.12.2019).
4. Higher education standard for specialty 191 "Architecture and urban planning" for the first (bachelor's) level of higher education. URL: <https://mon.gov.ua/storage/app/media/vyshcha/standarty/2020/06/17/191-Arkhitekt.mistobud-bakalavr-VO-zatv.stand.01.11.pd>
5. Methodological recommendations for the development of higher education standards: approved. by order of the Ministry of Education and Science dated June 1, 2017 No. 600 with changes dated December 21, 2017 No. 1648. URL: <https://mon.gov.ua/storage/app/media/vishcha-osvita/rekomendatsii-1648.pdf> (date of application: 08.12.2019).
6. National Classifier of Ukraine: "Profession Classifier" DK003:2010: approved. By order of the State Committee of Ukraine on Technical Regulation and Consumer Policy of July 28, 2010 No. 327. URL: <https://zakon.rada.gov.ua/rada/show/va327609-10> (date of application: 08.12.2019).
7. National framework of qualifications: approved. Resolution of the Cabinet of Ministers of Ukraine No. 1341 of November 23, 2011, as amended No. 519 of June 26, 2020. URL: <https://zakon.rada.gov.ua/laws/show/519-2020-%D0%BF#Text> (date of application: 11/21/2020).
8. List of fields, knowledge and specialties for which higher education applicants are trained: Resolution No. 266 of the Cabinet of Ministers of Ukraine dated April 29, 2015. URL: <http://zakon4.rada.gov.ua/laws/show/266-2015-%D0%BF#Text> (date of application: 08.12.2019).
9. The procedure for the preparation of higher education applicants for the degree of Doctor of Philosophy and Doctor of Science in institutions of higher education (scientific institutions): approved. Resolution No. 261 of the Cabinet of Ministers of Ukraine dated March 23, 2016, as amended by Resolution No. 283 of the Cabinet of Ministers of Ukraine dated April 3, 2019. URL: <https://zakon.rada.gov.ua/laws/show/261-2016-%D0%BF#Text> (date of application: 18.12.2021).
10. Decree of the Cabinet of Ministers of Ukraine No. 519 dated 25.06.2020 On Amendments to the Decree of the Cabinet of Ministers of Ukraine No. 1341 dated November 23, 2011. URL: <https://zakon.rada.gov.ua/laws/show/519-2020-%D0%BF#Text> (application date: 11/21/2020).