MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

O. M. Beketov National University of Urban Economy in Kharkiv (O.M. Beketov NUUEKh)

ADDITION

to the educational and professional program

"ARCHITECTURE AND URBAN PLANNING"

The level of higher education is the first (bachelor's) level Branch of knowledge 19 Architecture and construction Specialty 191 Architecture and urban planning

APPROVED BY THE SCIENTIFIC AND METHODOLOGICAL COUNCIL

Head of the scientific and methodical council

Hryhoriy STADNYK

(protocol No. 1 from "29" August _ 2023)

The appendix to the educational program enters into force for the period of validity of the relevant educational program and is an integral part of the educational program.

The educational program has been implemented since «1» September 2023.

(order No. 241-01 of " 31" August 2023_)

Kharkiy - 2023.

Погоджено:

Григорій

LETTER OF AGREEMENT supplement to the educational-professional/scientific program

Department of Architecture of Buildings and Structures Protocol No. 1 from"28" August 2023

Department of Innovative Technologies in the Design of Architectural Environment Protocol No. 1 from 27" August 2023

Department of Urbanism and city planning Protocol No. 1 from "28" August 2023

Department of the basics of architectural design Protocol No. 1 from "27" August 2023

Department of reconstruction, restoration of architectural objects Protocol No. 1 from "28" August 2023

Academic Council of the National Institute of Architecture, Design and Fine Arts Protocol No. 1 from "28" August 2023

Name, surname of the guarantor of the educational program and other developers	Degree, academic title, position	Signature
Olga VYGDOROVYCH guarantor of the educational program	candidate of architecture, associate professor, associate professor of the Department of Urbanism and city planning	
Olena HELLA	candidate of architecture, associate professor, associate professor of the Department of the basics of architectural design	* The state of the
Olga SMIRNOVA	candidate of architecture, associate professor, associate professor of the Department of the basics of architectural design	Cunt

Competencies and learning outcomes provided by optional educational components

General competences (SGC)

- SGC 1. Ability to communicate in a foreign language in a business environment.
- SGC 2. The ability to analyze the main stages and regularities of the social-historical, cultural-artistic, ethno-national, educational development of the Slobid region for the formation of a civic position
- SGC 3. The ability to analyze the main regularities of the functioning of culture in Ukrainian society, its connection with other components of the social life of the Ukrainian people, for the formation of the civic position of modern Ukrainian youth
- SGC 4. Independently determine the selection of the necessary lexical and grammatical structure in accordance with the conditions of scientific and professional communication
- SGC 5. The ability to realize one's rights and responsibilities as a member of society, to be aware of the values of civil society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen; the ability to work in an international context.
- SGC 6. The ability to analyze the main regularities of the functioning of culture in society, its connection with other components of social life, for the formation of a modern multicultural worldview
- SGC 7. Ability to act on the basis of ethical considerations; respect for diversity and multiculturalism.
- SGC 8. Communicative (fluency in the Ukrainian language in a professional direction), namely: practical mastery of effective rhetorical techniques, the art of argumentation and eloquence, the ability to communicate in various genres of oratory for successful future professional activity.

Professional competences (SPC)

- SPC 1. The ability to apply language, speech, linguistic, sociocultural and communicative skills for effective communication in a foreign language.
- SPC 2. Knowledge of modern architectural styles and trends in architecture, the ability to theoretically understand the prerequisites, methods, results of designing buildings and structures, understand the basics of barrier-free architecture, the ability to design a barrier-free environment for buildings and structures.
- SPC 3. Knowledge of the history of design and the factors of the formation of the design of the architectural environment, the ability to theoretically understand the prerequisites, methods, results and consequences of the formation of the architectural environment as a field of design activity, to know the basics of the formation of an inclusive environment of interior and exterior spaces.
- SPC 4. The ability to possess the skills of analyzing natural conditions, functional-planning, compositional and historical-architectural analysis of the projected site, to know the peculiarities of building a typology of urban planning objects according to the hierarchical principle, to have knowledge of modern trends in the formation of a barrier-free architectural and urban planning environment.
- SPC 5. The ability to master the methods of researching architectural monuments.
- SPC 6. The ability to apply compositional thinking, to understand modern concepts of architectural design and form-building.
- SPC 7. The ability to fluently master the linguistic means used in texts of scientific and professional content
- SPC 8. The ability to use computer programs, designing various types of architectural objects for the purpose of sketching, performing calculations, variable composite modeling, performing working drawings and presenting the project to the customer.
- SPC 9. The ability to master the methodology of architectural design of buildings and threedimensional structures, creative methods of broadcasting the author's architectural and artistic idea, stimulation of innovations, methods and means of compositional modeling, methods and

- technologies of energy- and resource-saving architectural design, methods and technologies of computer and mock-up design.
- SPC 10. Have the knowledge and skills of pre-project analysis of the planned site.
- SPC 11. The ability to use techniques of style creation, means of composition in design projects with the aim of harmonizing the image of buildings.
- SPC 12. The ability to use architectural and design methods, tools and design methods in accordance with a certain type of environment.
- SPC 13. The ability to organize architectural environment design activities, develop a design concept and execute a design project.
- SPC 14. The ability to possess graphic types of professional image, revealing the figurative, large-scale and spatial properties of an architectural object.
- SPC 15. Possess the knowledge and skills of developing a functional and planning, compositional solution of the designed object.
- SPC 16. Possess the knowledge and skills of developing a landscape solution for the designed object.
- SPC 17. The ability to master the methods of designing the restoration and rehabilitation of architectural monuments.
- SPC 18. The ability to determine and analyze the conditions of the historical architectural environment.
- SPC 19. The ability to use architectural and project techniques for the rehabilitation of historical objects of architecture and urban planning.
- SPC 20. The ability to create a volumetric and compositional solution of the design object, graphic and three-dimensional design of the project solution
- SPC 21. The ability to apply modern architectural and design techniques for the construction of the interior space of architectural objects.
- SPC 22. Awareness of the peculiarities of the modern idea of architectural compositional thinking and the stages of its evolution, knowledge of the latest trends in architectural formmaking

Learning outcomes (SLO)

- SLO 1. To carry out effective written communication in a foreign language in a business environment
- SLO 2. To determine the historical and ethnographic features of the region, the cause-and-effect relationships of the main events in the history of Slobozhanshchyna
- SLO 3. To analyze cultural processes in modern Ukrainian society, to understand the influence of all factors of social life (political, economic, others) on the culture and spirituality of modern Ukrainians.
- SLO 4. Know the main lexical and grammatical constructions that are used in a scientific text by specialization to reproduce the relevant topic
- SLO 5. Use normative and legal acts regulating professional activity. Make informed decisions and bear responsibility for the results of your professional activity.
- SLO 6. To carry out effective oral communication in a foreign language in a business environment.
- SLO 7. Analyze the peculiarities of cultural processes in the modern world; to make a comparative description of the main cultural centers of the modern world.
- SLO 8. To navigate in the socio-cultural space of ethical and aesthetic values.
- SLO 9. Carry out professional communication: create communicative products, analyze communicative activity; respond adequately to criticism, generate and argue for new ideas; exert a communicative influence on people, encouraging them to act; to prove one's own opinions; identify and apply information and communication technologies; to develop skills of interpersonal interaction in a team.
- SLO 10. Apply language, speech, linguistic, sociocultural and communicative skills for effective communication in a foreign language.

- SLO 11. Know the modern concepts of architectural design, the course of evolutionary compositional thinking in architecture and the latest forms of architectural design
- SLO 12. Apply a variety of innovative means of architectural visualization, the latest methods of creating an inclusive architectural environment and a visual and informational environment of a modern city
- SLO 13. Apply various concepts of urban planning analysis of territories, apply modern typology of urban planning objects and be able to create a barrier-free architectural and urban planning environment
- SLO 14. To have modern methods of researching architectural monuments, to know the basics of historical monuments and chemical means of preservation of architectural objects
- SLO 15. To know modern concepts of architectural design, to be aware of the evolutionary movement of compositional thinking in architecture and to master parametric architectural design
- SLO 16. Know the main lexical and grammatical constructions that are used in scientific text by specialization to reproduce the corresponding topic
- SLO 17. Know modern software tools for designing architectural objects
- SLO 18. Apply the acquired knowledge regarding the design of residential and public buildings and structures of various purposes
- SLO 19. Design complex multifunctional buildings at a modern level, taking into account the principles of barrier-free architecture, energy-efficient and other modern technologies (development of sketch proposals and participation in the development of project documentation)
- SLO 20. Use the latest software tools of architectural and design planning
- SLO 21. To know the basics and methods of architectural design of architectural objects
- SLO 22. Apply the acquired knowledge to the complex design of an aesthetically expressive, harmonious, comfortable, inclusive and safe architectural environment, subject-spatial environmental situations, systems and objects (development of design concepts and participation in the development of project documentation)
- SLO 23. Know the basics of information modeling of objects in the urban environment and software tools in urban planning
- SLO 24. Be able to perform design works of various objects in the urban and natural landscape according to their functional purpose
- SLO 25. Develop project and urban planning documentation, applying knowledge about the general urban development of territories
- SLO 26. Apply modern software tools for designing and reconstructing architectural objects
- SLO 27. Apply modern techniques of architectural and urban planning in the conditions of the historical environment
- SLO 28. Apply modern knowledge to design the rehabilitation of historical architectural objects
- SLO 29. Apply modern means and methods of engineering, artistic and computer graphics in the process of designing multifunctional housing. Implement IT technologies, innovative 3D modeling tools.
- SLO 30. Use modern methods of information search and systematization in the design and layout of general education and specialized educational institutions, using software tools of architectural design.
- SLO 31. Apply knowledge and use the results of creative communication in complex architectural and urban planning projects; act innovatively and technically competently

2. List of optional educational components and their logical sequence

2.1. List of optional educational components (OEC)

Code s/d 1 (disciple		of credits 3 Inumanitary chooses t	4 Block B ian component	Content modules 5 of training and general competences; from the block)
OEC 1	Dusiness femion	4	differential	CM 1 Types of business wwitten
OEC 1.	Business foreign language: written communication (Ukrainian language / English language)	4	credit	CM 1. Types of business written communication. CM 2. Grammatical and lexical features of business written communication. CM 3. Peculiarities of intercultural business written communication and business etiquette.
OEC 2.	Local history (Ukrainian language / English language)	4	differential credit	 Historical and geographical features of the Slobid region Spiritual wealth of the Slobid region in historical retrospect Material monuments of the cultural and historical heritage of the region
OEC 3.	History of Ukrainian Culture (Ukrainian language / English language)	4	differential credit	 Culture of ancient and medieval Ukraine Culture of modern Ukraine The culture of Ukraine of the latest era and modernity.
OEC 4.	Language training (for foreign citizens) (Ukrainian language)	4	differential credit	 Characteristics and conditions of the process Identification and change of properties Description of human activity
OEC 5.	Legal principles of personal data protection and cyber security	4	differential credit	 Legal regulation of relations in the field of cyber security and handling of personal data. Peculiarities of personal data collection and processing. Legal regulation of handling of personal data with the participation of artificial intelligence
OEC 6	Business foreign language: oral communication (English language)		differential credit	CM 1. Types of business oral communication.

				features of business oral communication. CM 3. Peculiarities of intercultural business oral communication and business etiquette.
	Culturology (Ukrainian language / English language)	4	differential credit	CM 1. Culture as a social phenomenon. CM 2. Comparative analysis of cultures. CM 3. Cultural dynamics and evolution.
020 0.	Ethics and aesthetics (Ukrainian language / English language)	4	differential credit	CM 1 Ethics. CM 2 Aesthetics. CM 3 Ethical and aesthetic in professional activity.
1	Language training (for foreign citizens) (Ukrainian language)	4	differential credit	 Problems of modern science Annotating texts of a general scientific nature Referencing texts of a general scientific nature
OEC 10	Professional rhetoric	4	differential credit Block CP	 Rhetoric in professional communication. Scientific rhetoric. The art of effective professional communication.

1th Block CP

(certificate programs in three disciplines that provide general and professional competences; the applicant chooses one certificate program from the block)

CP1	Foreign	language	(snecial	course)
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			,			
OEC	Foreign	language	(special	4	differential	1. Man and society
C1.1	course)				credit	2. Student life
						3. Leisure and travel
OEC	Foreign	language	(special	4	differential	1. The modern world of fashion,
C1.2	course)				credit	leisure and television
						2. Climate and weather conditions
						3. Man and success
OEC	Foreign	language	(special	4	differential	1. Health and sports
C1.3	course)				credit	2. Restaurants and national cuisines
						3. Man and nature. Environmental
						Protection
			CP 2.	Modern t	trends in arch	itecture

OEC C2.1.	Architecture of the latest era (Ukrainian language / English language)	4	differential credit	1. Sources and directions of modern architecture (modernism) of the early 20th century. 2. Architectural styles of the post-war era (50s - 70s of the 20th century) 3. Variety of architectural styles and trends of the late 20th - early 21st centuries.		
OEC C2.2.	Basics of interior design (Ukrainian language / English language)	4	differential credit	 The main functions of a modern interior. Features of interior design of residential premises. Features of interior design of public premises 		
OEC C2.3.	Barrier-free architecture (Ukrainian language / English language)	4	differential credit	 Basics of barrier-free architecture Modern trends in the design of objects of a barrier-free environment Universal design 		
	CP 3. Inn	ovative te	echnologies in	architecture		
OEC C3.1.	Inclusive architectural environment (Ukrainian language / English language)	4	differential credit	 Basics of inclusive architecture design Design features of inclusive residential buildings Features and requirements of designing inclusive public buildings 		
OEC C3.2.	Visual and informational environment of the modern city	4	differential credit	 Visual communications in an architectural environment. Problems of coexistence of advertising and architecture. Visual brand of the city. 		
OEC C3.3.	Light and color in architecture and design	4	differential credit	 Lighting design of public buildings and advertising Light-colored organization of the urban environment Lighting in the interior (light design in the interior) 		
CP4. Development of urban areas						
OEC C4.1.	Urban planning analysis of territories (Ukrainian language / English language)	4	differential credit	 Multifactor urban planning analysis Urban planning analysis in the territorial planning system SWOT analysis as a tool for strategic planning of territories 		
OEC C4.2.	Typology of urban planning objects (Ukrainian language / English language)	4	differential credit	 Hierarchical typology of urban planning objects Typological features of the building elements of the city Typological features of the elements of the city's open spaces 		

OEC C4.3.	Barrier-free architectural and urban planning environment (Ukrainian language / English language)	4	differential credit	 Modern trends in creating a barrier-free urban environment. Urban planning elements of the formation of a barrier-free environment in cities. Methods of urban development of a
	CD 5 Avabitan	tural mai	umonts and t	barrier-free environment in cities.
	CI 3. Architect	iui ai iiivi		1. General chemistry.
OEC C5.1	Chemistry in restoration	4	differential credit	 Chemical technologies of traditional building materials. Polymers in restoration
OEC C5.2	The basics of monument studies	4	differential credit	 Historical theories of restoration of architectural monuments Architectural culture of the region. Source studies and archival work.
OEC C5.3	Methods of researching architectural monuments	4	differential credit	 Architectural archaeology Architectural photogrammetry Theoretical and methodological foundations of architectural and restoration design
	CP 6. Forma	ation of n	nodern archite	ectural objects
OEC C6.1	Modern concepts of architectural design	4	differential credit	 The main features of the modern architectural process. Main concepts of modern architecture. Modern architecture as a regional cultural project
OEC C6.2	Evolution of compositional thinking in architecture	4	differential credit	 The modern idea of architectural compositional thinking and the stages of its evolution. Change in types of compositional thinking from antiquity to the end of the 19th century. Varieties of modern techniques and methods of compositional thinking in the 20 – 21st centuries
OEC C6.3	Biomorphic and parametric architectural formation	4	differential credit	 The use of bionics in shaping the architectural environment. Parametricism as a component of the latest paradigm of architectural design. Virtual reality of architecture. The latest trends in architectural design
		CP 7. La	nguage trainii	ng
OEC C7.1	Language training (for foreign citizens) (Ukrainian language / English language)	4	differential credit	 Annotation of socio-political texts Referencing texts of a socio-political nature Science and society

	Language training	4		1. Annotating sociocultural texts
OEC	(for foreign citizens)		differential	2. Referencing texts of a socio-cultural
C7.2	(Ukrainian language /		credit	nature
	English language)			3. Scientific and technical process and
				future specialty
OEC	Language training	4	differential	1. Scientific and professional branch
C7.3	(for foreign citizens)		credit	of communication
	(Ukrainian language /			2. Annotating texts by specialty
	English language)			3. Referencing texts by specialty
		2-	. J Dll-	

2nd Block

(disciplines that provide professional competences; the applicant chooses one block or a certain number of disciplines from the list)

P1 Block. Architecture of buildings and structures

OEC	Software tools for	4	differential	1. Work with digital images and
P1.1.	designing architectural		credit	vector graphics.
	objects			2. Two-dimensional modeling 2D
	(Ukrainian language /			3. 3D modeling. 2D drawing of floor
	English language)			plans, sections and dimensioning
OEC	Architectural design of	6	differential	1. Pre-project analysis and concept of
P1.2.	buildings and structures:		credit	a residential settlement.
	Residential settlement for			2. Development of a general plan for a
	6-8 thousand inhabitants			residential settlement
	(Ukrainian language /			3. Architectural and planning decision
	English language)			of the public residential center
				settlement.
OEC	Architectural design of	5	differential	1. Pre-project analysis of the territory
P1.3.	buildings and structures:		credit	for design
	Residential group of			2. Development of the general plan of
	medium storey			the residential group.
	(Ukrainian language /			3. Spatial and planning solution of a
	English language)			residential group with medium-storey
				buildings.
OEC	Architectural design of	5	differential	1. Modern design trends and the
P1.4.	buildings and structures:		credit	concept of cultural and entertainment
	A cultural and			facilities.
	entertainment building			2. Development of the general plan of
	with a 300-seat			the cultural and entertainment facility.
	auditorium			3. Architectural and planning solution
	(Ukrainian language /			of a cultural and entertainment
	English language)			building with an auditorium.
OEC	Architectural design of	4	differential	1. Pre-project analysis and options for
P1.5.	buildings and structures:		credit	the functional planning solution of the
	Multifunctional park of			park territory.
	regional significance			2. Composite solution and
	(Ukrainian language /			development of the general plan of the
	English language)			multifunctional park
				3. Detailing of the center of the park
				with the development of a
				monofunctional building
OEC	Architectural design of	5	differential	1. Pre-project analysis of the design
P1.6.	buildings and structures:		credit	area and options for the hotel's volumetric and spatial solution

	T	1	Ī	
	**** category hotel for 200-400 places (Ukrainian language / English language)			 Development of the volumetric planning solution of the hotel and facades Resolution of the planning and spatial organization of the adjacent territory and implementation of the project layout
OEC P1.7.	Architectural design of buildings and structures: Public purpose interior (Ukrainian language / English language)	5	differential credit	 Modern trends in hotel interior design Sketching of the interiors of the public premises of the hotel Execution of sweeps, ceiling and floor plans, walls and room perspectives
OEC P1.8.	Architectural design of buildings and structures (Ukrainian language / English language)	6	differential credit	1. Pre-project analysis of the territory and variant solution of the volumetric planning solution of the object 2. Development of a volume-planning solution and solution of the composition of the object 3. Resolution of the master plan of the territory and implementation of the full layout of the project
	Together with block 1	40,0		, I 3
	Dlask D2	A h : 4	4	
OFC		4	tural environi differential	1. Construction of the architectural
OEC P2.1.	Architectural design software (Ukrainian/English)		credit	volume by means of modeling (primitives, basic modifiers, types of mesh and poly objects, their main properties and deformations, etc.) 2. Construction of subject-spatial filling of the interior - design elements (with the help of extended and complex objects - loft, boulin, transformations, modifiers, etc.) 3. Visualization: basic preparation - materials, light, settings, cameras
OEC P2.2	Architectural and design planning - "Townhouse" (Ukrainian language / English language)	6	differential credit	 3D diagram of the combination of internal living and external spaces. Blocking options and working layout development Functional-compositional and architectural-planning solution of the spatial composition of the townhouse System layout: residential cell residential section - residential group
OEC P2.3	Architectural and design planning: Design of a multifunctional cultural	5	differential credit	1. Pre-project analysis of the landscape territory of the park and

	object (Ukrainian language / English language)			the concept program of the functional zoning of the art space 2. Architectural-aesthetic and
				planning organization of the art space environment 3. Landscape organization of the site and architectural and design solution
				of the object in combination with the environment
OEC	Architectural design:	5	differential	1. Pre-project urban planning analysis,
P2.4	Design holiday event (Ukrainian language / English language)		credit	mastering the geometry of a large and two-dimensional urban space, presentation of the theme of the holiday 2. Volumetric-spatial and compositional solution of the forms of
				organization of a festive event by
				making a working layout 3. Design of a festive event with
				the development of a holiday poster
OEC P2.5.	Architectural and design planning: Design of a local private environment (Ukrainian language / English language)	4	differential credit	1. Analysis of prototypes, selection of the stylistic direction of the apartment design and selection of materials: development of "Letter-decor" 2. Functional analysis of the living space, re-planning of the apartment and execution of the exercise: "Kitchen equipment arrangement"
				3. Interior design and placement of furniture in the apartment
OEC P2.6	Architectural design: Design of a public facility (Ukrainian language / English language)	5	differential credit	1. Pre-project analysis of the local space of the dense perimeter building of the quarter and justification of the choice of the theme of the house-insert 2. Volumetric-spatial composition and organization of internal space in conditions of dominance of vertical communication 3. Architectural and design solution: plans, sweeps, axonometric section and perspective views. Determination
OFC	A malaita atumal dagi any	5	differential	of the reception of graphic design
OEC P2.7.	Architectural design: Office building design (Ukrainian language / English language)	5	differential credit	1. Modern trends in the design of office buildings, choosing the theme of the representation and working with the corporate style of the company. 2. Artistic and functional solution of the object. Basic

OEC P2.8.	Architectural design using innovative technologies (Ukrainian language / English language)	6	differential credit	functional and compositional positions. 3. Design of the public spaces of the object, solution of the general plan of the territory and implementation of the complete layout of the project. 1. Analysis of the urban planning situation of the design, initial data, field survey, familiarization and description of the design situation. Basic functional and compositional design positions 2. Analysis of the regulatory framework, evaluation of project proposal options, detailing of the spatial planning solution of the object 3. Development of graphic and expectition presentation of the project
	Together for block 2	40,0		exposition presentation of the project
			ism and City	Planning
OEC P3.1	Software tools in urban planning (Ukrainian language / English language)	4	differential credit	 Planar composition. Work with digital images, vector graphics in the program. Two-dimensional 2D modeling and the basics of 3D modeling of urban objects Two-dimensional modeling of master plans and 3D design of landscape objects.
OEC P3.2	Architectural design: Cottage village for 6,000 residents in a suburban area (Ukrainian language / English language)	6	differential credit	 Pre-project analysis and concept of town planning organization of the village. Development of the village master plan. Volumetric and spatial resolution of the community center of the village.
OEC P3.3	Architectural design: Building with a sports and recreation function (Ukrainian language / English language)	5	differential credit	 Pre-project analysis and concept of the object's architectural solution. Functional planning, constructive and compositional solution of the object Development of a volumetric planning solution for a building with a sports and recreation function
OEC P3.4.	Architectural design: School for 500-700 students (Ukrainian language / English language)	5	differential credit	 Pre-project analysis and concept of the object's architectural solution. Functional planning, constructive and compositional solution of the object. Development of a volume-planning solution for a school building for 500-700 students

OEC	Architectural design: City	4	differential	1. Pre-design analysis of the
OEC	Garden	4	credit	
P3.5.			crean	functional planning solution of the
	(Ukrainian language /			city garden.
	English language)			2. Composite solution and
				development of the general plan
				garden
				3. Detailing of the central city garden
OEC	Architectural design:	5	differential	1. Pre-project analysis and concept of
P3.6.	Open sports complex		credit	the urban planning solution of the
1 3.0.	(cultural and		orodit	object.
	entertainment)			2. Functional planning and
	(Ukrainian language /			compositional solution of the object
	English language)			3. Landscape organization of the
				object territory
OEC	Architectural design:	5	differential	1. Pre-project analysis and concept of
P3.7	Residential group with		credit	the architectural and urban planning
	medium-storey buildings			solution of the object.
	(Ukrainian language /			2. Functional planning and
	English language)			compositional solution of the object
				3. Landscape organization of the
				object territory
OEC	Architectural design of	6	differential	1. The pre-project stage of designing
	residential and public	U	credit	in the urban and natural landscape,
P3.8.	-		Cicuit	
	buildings in the urban and			development of the concept of the
	natural landscape			project solution
	(Ukrainian language /			2. Functional and planning solution of
	English language)			the projected object and compositional
				solution of the projected object
				3. Landscape solution of the projected
				object, graphic and text design of the
				project solution
	Together for block 3	40,0		
	Block P4. Reconst	ruction, r	estoration of	architectural objects
OEC	Software tools for	4	differential	1. Three-dimensional object-oriented
P4.1	designing and		credit	software, selection of architectural and
1 1.1	reconstructing		-	construction structures of the building,
	architectural objects.			formation of drawings for printing.
	(Ukrainian language /			2. Project visualization.
	English language)			3. Additional and special features of
	English language)			=
				three-dimensional object-oriented
		_	11.00	software.
OEC	Architectural and urban	6	differential	1. Pre-project analysis.
P4.2	planning in the conditions		credit	2. Development of functional and
	of the historical			volume-spatial solutions taking into
	environment: School of			account regulatory requirements.
	Arts			3. Art school project in the historical
	(Ukrainian language /			quarter
	English language)			-
OEC	Architectural and urban	5	differential	1. Description and analysis of the
	planning in the conditions	3	credit	design situation.
P4.3	of the historical		Cicuit	9
				2. Approval of the sketch.
	environment: Museum			

	(Ukrainian language /			3. Development and design of the
	English language)			project.
OEC	Architectural and urban	5	differential	1. Determination of the design
	planning: Reconstruction	3	credit	situation for the reconstruction of the
P4.4	= =		Credit	
	of the historical quarter			historical quarter
	(Ukrainian language /			2. Urban planning conditions for the
	English language)			design of residential buildings
				3. Development of the master plan of
			11.00	the historical quarter
OEC	Architectural and urban	4	differential	1. Normative requirements for the
P4.5	planning: Project of a		credit	design of medium-storey housing
	residential group of			2. Options for modeling living space
	medium storeys			3. Development of an architectural
	(Ukrainian language /			solution for a residential group in the
	English language)			structure of a historical quarter
OEC	Architectural and urban	5	differential	1. Natural studies and previous works.
P4.6	planning: Comprehensive		credit	2. Comprehensive studies of
	studies of architectural			architectural monuments.
	monuments.			3. Drafting and protection of the
	(Ukrainian language /			project
	English language)			
OEC	Architectural and urban	5	differential	1. Working hypothesis of the graphic
P4.7	planning:		credit	reconstruction of the architectural
	Sketch project of			monument.
	restoration of the			2. Graphic reconstruction of the
	architectural monument.			architectural monument
	(Ukrainian language /			3. Drafting and protection of the
	English language)			project
OEC	Architectural and urban	6	differential	1. Analysis of the design situation
P4.8	planning in the conditions		credit	2. Approval of sketches
	of the historical			proposals
	environment			3. Development and design of the
	(Ukrainian language /			project
	English language)			
	Together for block 4	40,0		
		rchitectu		l 3D modeling
OEC	Software tools for	4	differential	1. Planar composition. Work with
P5.1	designing and 3D layout		credit	digital images, vector graphics in the
	of architectural objects			program.
				2. Two-dimensional modeling,
				rendering of drawings of floor plans,
				facades, sections and setting
				dimensions.
				3. 3D modeling in architectural
				design.
OEC	Architectural design:	6	differential	1. Selection of a site for design and
P5.2	Residential district for		credit	pre-design analysis of a residential
	10,000 residents			area for 10,000 residents.
				2. Concept and development of a
				general plan of a residential area for
				10,000 residents.

	T		1	
				3. Spatial compositional and
				functional solution of the central part
				of the residential building district
OEC	Architectural design:	5	differential	1. Pre-project analysis of the territory
P5.3	Multifunctional	J	credit	2. Development of a functional and
P5.5			Cicuit	1
	residential complex			compositional solution of the master
				plan of a multifunctional residential
				complex.
				3. Spatial and compositional solution
				of a multifunctional residential
				complex.
OEC	Architectural design:	5	differential	1. Modern trends in the design of
P5.4	General or specialized		credit	general or specialized educational
	educational institution			institutions.
				2. Development of the master plan of
				a general or specialized educational
				institution.
				3. Architectural and planning decision
				of a general educational or specialized
				educational institution.
OFC	A nahita ataunah da si san.	4	differential	
OEC	Architectural design:	4		1. Modern and promising trends in the
P5.5	Layout of a general or		credit	creation of layouts using traditional
	specialized educational			and innovative technologies.
	institution			2. Development of the layout of a
				general or specialized educational
				institution.
				3. Layout design of a general or
				specialized educational institution.
OEC	Architectural design:	5	differential	1. Pre-project analysis and options for
P5.6	Commercial and		credit	the functional planning solution of the
	entertainment building			territory of the shopping and
				entertainment complex.
				2. Spatial and compositional solution
				of a commercial and entertainment
				building.
				3. Detailed development of drawings
				of a commercial and entertainment
				facility.
OEC	Architectural design:	5	differential	Modern architectural and design
P5.7	Interior of a shopping and	-	credit	techniques for building the interior
r J./	entertainment building		Sicuit	space of a commercial and
	Chicaminent building			entertainment facility.
				2. Variable sketch design of the
				interior space of modern shopping and
				entertainment complexes.
				3. Design concept of the interior space
				of a commercial and entertainment
			11.00	facility.
OEC	Architectural design and	6	differential	1. Pre-project analysis of the territory
P5.8	layout		credit	and variable modeling of the
				volumetric and compositional solution
				of the object.

		2. Development of the general plan of the territory and functional planning solution of the projected object.3. Development and detailing of the
		volumetric and compositional solution of the design object, graphic and three-dimensional design of the project solution.
Together for block 5	40,0	
The total amount of sample components:	60,0	

2.2. Structure of optional components by semesters

Description of the logical sequence of studying the components of the educational program by semester

1	2	3	4	5	6	7	8
		One to choose	One to choose		One block to choose from		
		Business foreign	Business foreign	Block OP 1	– Foreign language (speci	al course)	
		language: written	language: oral	Foreign language	Foreign language	Foreign language	
		communication	communication	(special course)	(special course)	(special course)	
		4 cr. ECTS/different		4 cr. ECTS/different	4 cr. ECTS/different	4 cr. ECTS/different	
		credit	ECTS/different	credit	credit	credit	
		or	credit	Block OP	2. Modern trends in arch	itecture	
		Local history	or	Architecture of the	Basics of interior design	Barrier-free	
		4 cr. ECTS/different	Culturology	latest era	4 cr. ECTS/different	architecture	
		credit	4 cr.	4 cr. ECTS/different	credit	4 cr. ECTS/different	
		or	ECTS/different	credit		credit	
		History of Ukrainian		Block OP 3. Ir	novative technologies in a	architecture	
		Culture	or Ed: 1				
		4 cr. ECTS/different	Ethics and	Inclusive architectural	Visual and	Light and color in	
		credit	aesthetics	environment	informational	architecture and	
		or	4 cr.	A ECTEL 1:CC	environment of the	design	
		Language training	ECTS/different	4 cr. ECTS/different	modern city	4 ECEC/1:00	
		(for foreign	credit	credit	4 cr. ECTS/different	4 cr. ECTS/different	
		citizens)	or	DI 1 0	credit	credit	
		4 cr. ECTS/different	Language		P 4. Development of urbar	,	
		credit	training (for	Urban planning	Typology of urban	Barrier-free	
		або	foreign citizens)	analysis of territories	planning objects	architectural and	
		Legal principles of	4 cr.			urban planning	
		personal data	ECTS/different			environment	
		protection and	credit				
		cyber security	or D C : 1	4 cr. ECTS/different	4 cr. ECTS/different	4 cr. ECTS/different	
		4 cr. ECTS/different	Professional	credit	credit	credit	
		credit	rhetoric	Block OP 5. Archi	tectural monuments and t	their restoration	

			4 cr. ECTS/different credit	Chemistry in restoration 4 cr. ECTS/different	The basics of monument studies 4 cr. ECTS/different	Methods of researching architectural monuments 4 cr. ECTS/different	
				credit	credit	credit	
1	2	3	4	5	6	7	8
				Block OP 6. Formation	of modern architectural of	objects	
				Modern concepts of architectural design	Evolution of compositional thinking in architecture	Biomorphic and parametric architectural	
				4 cr. ECTS/different credit	4 cr. ECTS/different credit	formation 4 cr. ECTS/different credit	
				Block	OP 7. Language training	g (for foreign citizens)	
				Language training (for foreign citizens) 4 cr. ECTS/different	Language training (for foreign citizens) 4 cr. ECTS/different	Language training (for foreign citizens) 4 cr. ECTS/different	
				credit	credit	credit	
					o choose from		
					of buildings and structure		
				Architectural design of buildings and structures: Residential settlement for 6-8 thousand inhabitants	Architectural design of buildings and structures: Cultural and entertainment building with an auditorium for	Architectural design of buildings and structures: **** category hotel for 200-400 places	Architectural design of buildings and structures
				6 cr. ECTS/different credit	300 seats 5 cr. ECTS/different credit	5 cr. ECTS/different credit	6 cr. ECTS/different credit
				Architectural design of buildings and structures: Residential	Architectural design of buildings and structures:	Architectural design of buildings and	

	group with medium-rise	Multifunctional park of	structures: Public	
	buildings	regional significance	purpose interior	
	5 cr. ECTS/different	4 cr. ECTS/different	5 cr. ECTS/different	
	credit	credit	credit	
		Software tools for		
		designing architectural		
		objects		
		4 cr. ECTS/different		
		credit		

1	2	3	4	5	6	7	8			
			Blo	ck P 2. Design of the	architectural environ	nent				
			F	Architectural and	Architectural and	Architectural	Architectural			
			C	design planning -	design planning:	design: Design of	design using			
			Des	sign of a residential	Design of a festive	a public facility	innovative			
			com	plex - "Townhouse"	event		technologies			
						5 cr.	6 cr.			
			6	cr. ECTS/different	5 cr. ECTS/different	ECTS/different	ECTS/different			
				credit	credit	credit	credit			
			Ar	chitectural design:	Architectural design:	Architectural				
				Design of a	Design of a local	design: Design of				
			mul	tifunctional cultural object	private environment	an office building				
				.		5 cr.				
			5	cr. ECTS/different	4 cr. ECTS/different	ECTS/different				
				credit	credit	credit				
					Architectural design					
					software tools					
					4 cr. ECTS/different					
					credit					
				Block P 3. Urbani	sm and City Planning					

	Architectural design: Cottage village for 6,000 residents in a suburban area 6 cr. ECTS/different credit Architectural design: Building with a sports and recreation function	Architectural design: School for 500-700 students 5 cr. ECTS/different credit Architectural design: City Garden 4 cr. ECTS/different	Architectural design Open sports complex (cultural and entertainment) complex 5 cr. ECTS/different credit Architectural design: Residential group with medium-rise buildings 5 cr. ECTS/different	Architectural design of residential and public buildings in the urban and natural landscape 6 kr. ECTS/different credit
	credit	credit	credit	
		Програмні засоби у містобудуванні 4кр. СКТС/диф.залік		
	Block P 4. Reconstruction, r		l objects	
	Architectural and urban planning in the conditions of the historical environment: School of Arts	Architectural and urban planning: Reconstruction of the historical quarter	Architectural and urban planning: Comprehensive studies of architectural monuments.	Architectural and urban planning in the conditions of the historical environment
	6 kr. ECTS/different credit	5 cr. ECTS/different credit	5 cr. ECTS/different credit	6 cr. ECTS/different credit

	Architectural and	Architectural and	Architectural and	
	urban planning in the	urban planning:	urban planning:	
	conditions of the	Project of a residential	Sketch project of	
	historical environment:	group of medium	restoration of the	
	Museum	storeys	architectural	
			monument.	
			5 cr.	
	5 cr. ECTS/different	4 cr. ECTS/different	ECTS/different	
	credit	credit	credit	
		Software tools for		
		designing and		
		reconstructing		
		architectural objects		
		4 cr. ECTS/different		
		credit		
	Block P 5. Architectur	al design and 3D modelin	ıg	
	Architectural design:	Architectural design:	Architectural	Architectural
	Residential district for	General or specialized	design:	design and
	10,000 residents	educational institution	Commercial and	layout
	,		entertainment	
			building	
			5 cr.	6 cr.
	6 cr. ECTS/different	5 cr. ECTS/different	ECTS/different	ECTS/different
	credit	credit	credit	credit
	Architectural design:	Architectural design:	Architectural	Cicuii
	Multifunctional	Layout of a general or	design:	
	residential complex	specialized educational	Interior of a	
	residential complex	institution	v	
	5 or ECTS/different		shopping and	
	5 cr. ECTS/different	4 cr. ECTS/different	entertainment	
	credit	credit	building	

		5 cr. ECTS/different credit	
	Software tools for designing and 3D layout of architectural objects 4 cr. ECTS/different credit		

3. Matrix of correspondence of program competencies to selective components of the educational program

	SCC 1	SCC 2	SCC 3	SCC 4	SCC 5	9 DOS	SCC 7	SCC 8	OPC 1	OPC 2	OPC 3	OPC 4	OPC 5	0PC 6	OPC 7	OPC 8	OPC 9	OPC 10	OPC 11	OPC 12	OPC 13	OPC 14	OPC 15	OPC 16	OPC 17	OPC 18	OPC 19	OPC 20	OPC 21	OPC 22
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4. Матриця забезпечення результатів навчання (SLO)

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