



**MINISTRY OF EDUCATION AND SCIENCE
OF UKRAINE**

STATE BIOTECHNOLOGICAL UNIVERSITY

EDUCATIONAL AND PROFESSIONAL PROGRAMME

«LAND MANAGEMENT AND CADASTRE»

HIGHER EDUCATION LEVEL – Second

HIGHER EDUCATION DEGREE – Master's degree

SPECIALITY – 193 Geodesy and land management

FIELD OF KNOWLEDGE – 19 Architecture and construction

**EDUCATIONAL QUALIFICATIONS – Master's degree in geodesy and land
management**

**APPROVED BY THE ACADEMIC
COUNCIL**

**of the State Biotechnological University
(protocol No. 11 dated 26 April 2024) and
shall come into force on 1 September 2024.**

Acting rector

_____ / **Andriy Kudryashov** /

Kharkiv – 2024

FOREWORD

Developed by a project (working) group consisting of:

1. Head of the Department of Land Resources Management, Geodesy and Cadastre, Professor, Doctor of Economics ***Iryna Vitaliivna Koshkalda***;
2. Associate Professor of the Department of Land Resources Management, Geodesy and Cadastre, Candidate of Economic Sciences, ***Olena Anatoliivna Dombrovska***;
3. Associate Professor of the Department of Land Resources Management, Geodesy and Cadastre, Candidate of Economic Sciences, ***Serhii Oleksandrovych Vynohradenko***;
4. Associate Professor of the Department of Land Resources Management, Geodesy and Cadastre, Candidate of Economic Sciences ***Tetiana Volodymyrivna Anopriyenko***;
5. Stakeholder, Individual Entrepreneur Artur Bondarenko, Certified Land Surveyor ***Artur Viktorovych Bondarenko***;
6. Graduate of the second (master's) level of higher education OP 'Land Management and Cadastre', V. V. Dokuchaev Kharkiv National Agrarian University and OP 'Geoinformation Technologies' O. M. Beketov Kharkiv National University of Municipal Economy, Chief Specialist of the Department of Spatial Planning, Architecture and Urban Cadastre of the Department of Urban Development and Architecture of the Kharkiv Regional State Administration, ***Anna Yuriivna Fedorova***.
7. First-year full-time student of the second (master's) level of higher education in the educational programme 'Land Management and Cadastre' in the specialty 193 'Geodesy and Land Management' ***Kirill Romanovych Shatiyov***.

Reviews and Feedback from External Stakeholders:

Levkovska L. V. – Doctor of Economics, Professor, Head of the Department of Natural Resources and Environmental Security, Institute for Demography and Quality of Life Problems, National Academy of Sciences of Ukraine, Kyiv.

Pryimak S. M. – Individual Entrepreneur, Certified Land Surveyor and Appraiser, Dnipro.

Maiboroda O. O. – Individual Entrepreneur, Certified Land Surveyor and Appraiser, Kharkiv.

The reviews and feedback from external stakeholders are attached.

**Profile of the Educational Program “Land Management and Cadastre”
within the Specialty 193 “Geodesy and Land Management”**

1– General information	
Full name of the higher education institution and structural unit	State Biotechnological University Faculty of Forestry, Wood Processing Technologies, and Land Management
Level of higher education and title of qualification in the original language	Master's degree. Master of Science in Geodesy and Land Management
Official name of the educational programme	Educational and Professional Program “Land Management and Cadastre” of the second (master’s) level of higher education in the field of knowledge 19 “Architecture and Construction”, specialty 193 “Geodesy and Land Management”
Type of diploma and scope of the educational programme	Master’s Degree Diploma, single cycle; 90 ECTS credits; 1 year 4 months
Accreditation status	Accreditation Commission of the Ministry of Education and Science of Ukraine. Certificate – UD No. 21005729. Accredited until July 1, 2025.
Cycle/level	Second (master's) level of higher education; NQF of Ukraine – level 7, FQ-EHEA – second cycle, EQF-LLL – level 7
Prerequisites	An individual is entitled to pursue a master’s degree provided they hold a bachelor’s degree (or an educational qualification level of specialist).
Language(s) of instruction	Ukrainian language, English language
Duration of the educational programme	Until the end of the training period or the next programme update
Internet address of the permanent location of the description of the educational programme	https://biotechuniv.edu.ua/pro-universitet/osvitnya-diyalnist/osvitni-programi/

2 – The aim of the educational programme	
Training of qualified specialists (masters) in geodesy and land management, providing them with theoretical knowledge and competencies, as well as mastering the fundamentals of the methodology of professional and scientific activity, sufficient for the effective performance of tasks at the appropriate level of professional expertise.	
3 – Characteristics of the educational programme	
Subject area (field of knowledge, specialisation, specialisation (if applicable))	Field of Knowledge – 19 <i>Architecture and Construction</i> Specialty – 193 <i>Geodesy and Land Management</i> <i>Objects of study:</i> theoretical foundations, methods, and technologies in land management, the state land cadastre, and land resources management. <i>Methods, tools, and technologies:</i> methods, approaches, and technologies for the collection, processing, and analysis of geospatial data within the state land cadastre. <i>Instruments and equipment:</i> scientific research methods, materials and equipment for the development of various types of land management and cadastral documentation, as well as computer software packages.
Orientation of the educational programme	Educational and professional programme, applied.
Main focus of the educational programme and specialisation	Special education and professional training in the field of geodesy and land management. Training of specialists capable of implementing modern principles and approaches in conducting topographic and geodetic surveys, as well as land management and cadastre activities. Keywords: geodesy, land management, state land cadastre, land resources management.
Programme features	A distinctive feature of the program is its focus on training specialists for organizing work in geodesy, land management, and the state land cadastre within the context of ongoing land and administrative reforms. In accordance with this, pre-certification practical training is provided in the structural divisions of the State Service of Ukraine for Geodesy, Cartography and Cadastre (Derzhheokadastr), as well as in enterprises and organizations engaged in the development of land management and cadastral documentation.

4 – Employability of graduates	
Employability	The specialist is trained to perform professional activities in accordance with the Classifier of Professions (DK 003:2010). They are qualified to carry out the following professional functions: Research Fellow in territorial-spatial land-use planning; Design Engineer specializing in the development of land management and urban planning projects; Research Fellow in cartography and topography; Land Management and Cadastral Engineer; Research Engineer in the field of cadastre; Engineer responsible for the management and maintenance of automated cadastral information systems; Professional in other engineering disciplines; Lecturer at a higher education institution. Specialists may occupy initial or entry-level positions, including: Research Fellow; Engineer; Head of a Production Unit; Head of a Functional Department; Lecturer or Assistant at a higher education institution. Furthermore, specialists are eligible to obtain professional qualification certificates as a Land Management Engineer or Geodesist Engineer, as well as qualification certificates in land appraisal, including Expert Monetary Valuation of Land Plots, and appraisals in the following domains: “Valuation of Tangible Assets” and “Valuation of Integrated Property Complexes, Shares, Securities, Property Rights, and Intangible Assets, including Intellectual Property Rights.”
Further education	Continuation of education for higher education seekers to obtain their first academic degree of Doctor of Philosophy.
5 – Teaching and assessment	
Teaching and learning	The program is delivered through a combination of lectures, seminars, practical classes, consultations, and internships, with a strong emphasis on personal development, collaborative and independent learning, as well as project-based work. Students are trained to critically evaluate their own work, provide constructive feedback on the work of others, and effectively incorporate feedback from peers and instructors. Students select their research focus during the first year of study. In the final year, the curriculum places greater emphasis on conducting the practical component of the

	research, composing the qualification thesis, and preparing its formal presentation.
Assessment	Current and interim assessment: oral questioning, testing of knowledge and skills, consultations to discuss the results of current and interim assessment. Final assessment in disciplines: defence of pre-test practice reports, tests, written examinations, seminars to discuss examination results. The certification of higher education applicants is carried out in the form of the defence of the final qualification work.
6 – Programme competences	
Integral competence	Ability to solve applied, research and innovative problems in the field of geodesy and land management.
General competencies (GC)	GC01. Ability to identify, pose and solve problems. GC02. Ability to communicate in a foreign language. GC03. Ability to develop and manage projects. GC04. Ability to generate new ideas (creativity). GC05. Ability to adapt and act in new situations. GC06. Commitment to preserving the environment.
Special (professional) competencies of the speciality (SC)	SC01. Ability to plan and carry out theoretical and applied research, create new knowledge and technologies in the field of geodesy and land management. SC02. Ability to critically reflect on current issues and promising areas of development in geodesy and land management and related fields of knowledge. SC03. Ability to effectively apply theories, principles and technologies of mathematics, natural, technical, social and economic sciences in solving complex problems of geodesy and land management. SC04. Ability to search for necessary information, select and apply modern methods of processing, analysing, evaluating and publishing data, in particular geospatial data and metadata, when solving complex problems in geodesy and land management. SC05. Ability to justify and evaluate methods of survey, exploration, testing, diagnostics, and monitoring of geodesy and land management objects. SC06. Ability to develop and implement projects in the field of geodesy and land management, as well as related interdisciplinary areas, taking into account technical, economic, social, legal and environmental aspects.

	SC07. Ability to organise activities and effectively manage complex and/or unpredictable work processes in the field of geodesy and land management. SC08. Ability to protect intellectual property and commercialise the results of research, invention and project activities. SC09. Ability to develop and apply new strategic approaches to solving problems in the field of geodesy and land management. SC10. Ability to identify and assess the impact of real estate objects on the natural environment, as well as the impact of environmental factors on the monetary valuation of land plots. SC11. Mastery of modern approaches, methods and models, analytical tools and information technologies for the assessment and analysis of property objects and rights to them for civil law objects of all forms of ownership for specific purposes provided for by civil and other legislation of Ukraine. SC12. Ability to make practical recommendations on the use of scientific research results.
7	– Programme learning outcomes
	PLO01. Have specialised conceptual knowledge, including modern scientific achievements in the field of geodesy and land management, sufficient to conduct research and implement innovations. PLO02. Communicate fluently, both orally and in writing, in the national and foreign languages on issues related to professional activities, research and innovation in the field of geodesy and land management. PLO03. Make effective decisions to solve applied, research and/or innovative problems in the field of geodesy and land management, analyse alternatives, make forecasts, assess risks, particularly in conditions of incomplete or contradictory information and ambiguous requirements. PLO04. Build and explore conceptual, mathematical and computer models of objects and processes, apply them to create innovations in the field of geodesy and land management. PLO05. Create and develop geospatial data infrastructures, process and publish geospatial data and metadata related to geodesy and land management. PLO06. Cooperate with customers and contractors,

	prepare tender proposals in the field of geodesy and land management, and conclude relevant contracts. PLO07. Justify the choice of equipment, technologies and processes for production management and research in the field of geodesy and land management and related fields. PLO08. Develop and manage projects taking into account technological conditions and requirements for production management in the field of geodesy and land management and related interdisciplinary areas, taking into account economic, social, environmental and legal aspects; prepare technical specifications, project funding applications, carry out work planning, plan resources and manage them. PLO09. Develop and implement measures for operational and long-term management, forecasting and planning of geodesy, cartography and land management production, taking into account available resources and time constraints. PLO10. Protect intellectual property, commercialise the results of research, invention and design activities. PLO11. Perform comprehensive analysis and assessment of the state of geodesy and land management objects and evaluate the consequences of the implementation of practical measures. PLO12. Clearly and unambiguously communicate one's knowledge, conclusions and arguments in the field of geodesy and land management to specialists and non-specialists, in particular to students. PLO13. Conduct surveys, tests, diagnostics, and monitoring of geodesy and land management objects, develop land protection measures, and assess their consequences. PLO14. Critically reflect on current problems and promising areas of development in geodesy and land management, as well as related interdisciplinary issues. PLO15. Be able to develop a planning and cartographic basis for land management and cadastral surveys using telecommunications systems, geoinformation systems and aerospace survey materials. PLO16. Be prepared for professional scientific and pedagogical activity.
8 – Resource support for programme implementation	

Staffing	Specialists are trained at specialised departments of the faculty. All scientific and pedagogical staff involved in the implementation of the educational component of the educational and professional programme have scientific degrees and academic titles and are full-time employees of the State Biotechnological University. All scientific and pedagogical staff have a proven level of scientific and professional activity. Project team: 1 Doctor of Science, Professor, 3 Candidates of Science, Associate Professors. Guarantor of the educational programme (project team leader): Head of the Department of Land Resources Management, Geodesy and Cadastre, Professor, Doctor of Economics Iryna Vitaliivna Koshkalda. Project group leader: Head of the Department of Land Resources Management, Geodesy and Cadastre, Doctor of Economics, Professor Iryna Vitaliivna Koshkalda. Project group members: Olena Anatoliivna Dombrovska, Associate Professor of the Department of Land Resources Management, Geodesy and Cadastre, Candidate of Economics, Associate Professor; Serhii Oleksandrovykh Vynohradenko, Associate Professor of the Department of Land Resources Management, Geodesy and Cadastre, Candidate of Economic Sciences, Associate Professor; Tetiana Volodymyrivna Anopriienko, Associate Professor of the Department of Land Resources Management, Geodesy and Cadastre, Candidate of Economic Sciences, Associate Professor.
Material and technical support	The availability of premises for conducting training sessions and control measures (square metres per person for the actual contingent of applicants) meets the requirements. A sufficient level of multimedia equipment for simultaneous use in classrooms (minimum percentage of classrooms). Availability of social and domestic infrastructure: libraries, including a reading room, catering facilities, an assembly hall, a sports hall, a stadium and/or sports grounds, a medical centre. 100% provision of dormitory accommodation for higher education students. Provision of computer workstations, laboratories, training grounds, equipment and facilities necessary for the implementation of educational programmes.
Information and	Utilisation of the educational environment of the State

educational support	Biotechnological University and the original developments of the university's scientific and teaching staff.
9 – Academic mobility	
National credit mobility	Leading specialists from Ukrainian universities may be involved in supervising the research work of applicants on the basis of individual contracts. Credits obtained at other Ukrainian universities may be transferred, provided that the competences acquired are equivalent.
International credit mobility	Within the framework of international programmes based on bilateral agreements between the State Biotechnological University and higher education and scientific institutions of partner countries.
Education of foreign applicants for higher education	In accordance with current legislation on the training of foreign citizens.

1. List of components of the educational and professional programme and their logical sequence

2.1 List of EP components

Code z/p	Components of the educational programme (academic disciplines, course projects (assignments), internships, qualification work)	Number of credits	Form of final assessment
1. General training cycle			
1.1. Mandatory components common to all educational programmes in the speciality			
OKBP 1	Land resource management	6	Exam.
OKBP 2	Licensing and Patenting of Scientific Outputs in the Fields of Geodesy, Land Management, and Land Valuation	3	Credit
OKBP 3	Information Technologies in Scientific Research in the Fields of Geodesy, Land Management, and Land Valuation	3	Exam.
OKBP 4	Methodology and Methods of Scientific Research in the Field of Geodesy, Land Management, and Land Valuation	3	Credit
OKBP 5	Organization of Scientific and Production Activities in Geodesy, Land Management, and Land Appraisal	3	Credit
Total for item 1.1.		18	
1.2. Academic disciplines of professional and practical training (compulsory)			
OKPPP 1	Real estate appraisal methodology	3	Exam.
OKPPP 2	Property appraisal and market analysis	6	Credit
OKPPP 3	Geoinformation technologies in the field of geodesy, land management and real estate valuation	3	Exam.
OKPPP 4	Urban planning	3	Exam.
OKPPP 5	Land management analysis	3	Exam.
OKPPP 6	Rural development and land consolidation	6	Exam., coursework
OKPPP 7	Pre-examination practice	9	Credit
OKPPP 8	Qualification work	15	Defense
Total for item 1.2.		48	
Total volume of mandatory components:		66	
2. Selective components			
Total volume of selected components:		24	
TOTAL SCOPE OF THE EDUCATIONAL PROGRAMME		90	

2.2. Structural and logical diagram of the educational programme

I course			II course		
I semester		II semester		III semester	
Compulsory academic disciplines					
Mandatory components common to all educational programmes in the speciality					
Land resource management		Licensing and Patenting of Scientific Outputs in the Fields of Geodesy, Land Management, and Land Valuation		Organization of Scientific and Production Activities in Geodesy, Land Management, and Land Appraisal	
Methodology and Methods of Scientific Research in the Field of Geodesy, Land Management, and Land Valuation		Information Technologies in Scientific Research in the Fields of Geodesy, Land Management, and Land Valuation			
Academic disciplines of professional and practical training					
Property appraisal and market analysis		Urban planning		Geoinformation technologies in the field of geodesy, land management and real estate valuation	
Real estate appraisal methodology		Land management analysis			
Rural development and land consolidation		Pre-examination practice		Qualification work	
Selective academic disciplines					
		Discipline 1		Discipline 2	
Discipline 3		Discipline 4		Discipline 5	

3. Attestation form for higher education applicants

Forms of attestation for higher education applicants	The attestation of graduates of the educational programme 'Land Management and Cadastre' in the speciality 193 'Geodesy and Land Management' is carried out in the form of defending a master's thesis and ends with the issuance of a standard document awarding a master's degree with the following qualification: Master of Geodesy and Land Management.
Requirements for certification	The attestation is conducted openly and publicly. The final attestation takes place publicly in accordance with the 'Regulations on the Organisation of the Educational Process at the State Biotechnological University' and the 'Regulations on the Procedure for the Creation and Organisation of the Examination Commission for the Attestation of Higher Education Applicants'.

	Checking for academic plagiarism is carried out in accordance with the 'Regulations on Academic Integrity and Ethics in Academic Relations'.
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4. Requirements for the internal quality assurance system in higher education

4.1. Defining principles and procedures for ensuring quality in higher education	Quality assurance in education is carried out in accordance with the 'Regulations on the Organisation of the Educational Process at the State Biotechnological University', 'Regulations on the Preparation and Defence of Qualification Works', 'Regulations on the Procedure for the Creation and Organisation of the Examination Commission for the Certification of Higher Education Applicants', the Regulations on the Council for Quality Assurance in Education at the State Biotechnological University, the Regulations on Academic Integrity and Ethics in Academic Relations, and the Regulations on the Centre for Quality Management in Education at the State Biotechnological University.
4.2. Monitoring and periodic review of educational programmes	Monitoring and periodic review of educational programmes are carried out in accordance with the university's local regulatory documents. The mechanism for developing, approving, monitoring and periodically reviewing educational programmes is regulated by the 'Regulations on the Organisation of the Educational Process at the State Biotechnological University', the Regulations on the Guarantor and the Educational Programme Improvement Group at the State Biotechnological University, and the Regulations on Educational Programmes at the State Biotechnological University. The Regulations on the Council for Quality Assurance in Education at the State Biotechnological University and the criteria for reviewing educational programmes are formed as a result of feedback from scientific and pedagogical staff, higher education seekers, graduates and employers, as well as taking into account the forecast development of the industry and the needs of society. The university conducts an annual survey of higher education students, employers and graduates on the quality of educational programmes, the results of which are taken into account when reviewing them.

4.3. Assessment of higher education applicants	The assessment of higher education applicants is carried out in accordance with the 'Regulations on the organisation of the educational process at the State Biotechnological University'.
4.4. Assessment of scientific, teaching and pedagogical staff	The assessment of the achievements of scientific and pedagogical staff takes place at the end of the calendar year in accordance with the 'Regulations on the rating system for assessing the activities of scientific and pedagogical staff of the State Biotechnological University.' The results of the assessment are published on the university's website. The rating system for evaluating the performance of scientific and pedagogical staff at the university measures their individual professional activity in accordance with the content of their scientific, educational, methodological, organisational and educational work and motivates them to increase the effectiveness of their professional activities.
4.5. Advanced training for scientific, pedagogical, and academic staff	Scientific and teaching staff involved in the educational process within the framework of the educational programme undergo professional development training at least once every five years. The procedure for professional development of teaching and scientific and teaching staff is regulated by the 'Regulations on the professional development of teaching and scientific and teaching staff of the State Biotechnological University'.
4.6. Availability of information systems for effective management of the educational process	The educational process at the university is supported by: – computer systems, multimedia equipment; – unlimited access to the Internet; – the university website; – an electronic library; – access to open educational resources; – the Moodle distance learning platform.
4.7. Publicity of information about educational programmes, higher education degrees and qualifications	Information about educational programmes, higher education degrees and qualifications is available on the university's website.
4.8. Ensuring compliance with	Ensuring compliance with academic integrity by university employees and higher education seekers is

academic integrity by employees of higher education institutions and higher education seekers, including the creation and maintenance of an effective system for preventing and detecting academic plagiarism

regulated by the Code of Academic Integrity of the State Biotechnological University, the 'Regulations on Surveys on the Quality of Educational Activities at the State Biotechnological University,' the Regulations on Internal Auditing of the Higher Education Quality Assurance System at the State Biotechnological University, the Regulations on the Academic Integrity Promotion Group at the State Biotechnological University, the Regulations on Academic Integrity and Ethics in Academic Relations, Regulations on the Centre for Education Quality Management at the State Biotechnological University. The university has a system in place to prevent and detect plagiarism in the work of employees and higher education students using specialised software.

5. Matrix of correspondence between software competencies and components of the educational programme

OPP code	Competencies																		
	Integral	General competencies						Special (professional) competencies											
		GC 01	GC 02	GC 03	GC 04	GC 05	GC 06	SC 01	SC 02	SC 03	SC 04	SC 05	SC 06	SC 07	SC 08	SC 09	SC 10	SC 11	SC 12
OKBP 1	+	+		+	+		+	+	+	+		+	+						
OKBP 2	+	+	+	+	+			+			+	+			+				+
OKBP 3	+			+	+	+		+	+	+	+		+			+	+	+	+
OKBP 4	+	+			+		+	+	+	+			+	+					+
OKBP 5	+	+		+		+		+	+	+		+	+				+	+	+
OKPPP 1	+	+		+	+		+	+	+	+	+	+				+			
OKPPP 2	+	+		+	+	+			+	+	+	+							
OKPPP 3	+	+	+	+		+		+			+		+	+		+			
OKPPP 4	+	+			+		+		+	+			+			+			
OKPPP 5	+	+	+			+	+		+	+		+				+	+	+	
OKPPP 6	+	+		+		+	+	+		+			+		+	+			
OKPPP 7	+	+	+	+	+		+	+	+	+	+			+		+		+	
OKPPP 8	+	+	+	+	+	+	+	+		+		+	+	+		+	+	+	+

6. Matrix for ensuring programme learning outcomes (PLO) with relevant components of the educational programme

[illegible]

7. References to the regulatory documents on which the vocational education programme is based

1. Law of Ukraine “On Higher Education” as amended on 24 March 2024. URL: <https://zakon.rada.gov.ua/laws/show/1556-18#top>.
2. Law of Ukraine “On Education” as amended on 24 March 2024. URL: <https://zakon.rada.gov.ua/laws/show/2145-19#Text>.
3. Law of Ukraine “On Licensing of Types of Economic Activity” as amended on 27 April 2024. URL: <https://zakon.rada.gov.ua/laws/show/222-19#Text>.
4. Resolution of the Cabinet of Ministers of Ukraine dated 29 April 2015 No. 266 “On Approval of the List of Fields of Knowledge and Specialties in which Higher Education Degrees are Conferred” (as amended on 21 December 2022). URL: <https://zakon.rada.gov.ua/laws/show/266-2015-%D0%BF#Text>.
5. Order of the Ministry of Education and Science of Ukraine dated 19 February 2015 No. 166 “On Certain Issues of Disclosure of Information about the Activities of Higher Education Institutions” as amended on 23 March 2015. URL: <https://zakon.rada.gov.ua/rada/show/v0166729-15#Text>.
6. Order of the Ministry of Education and Science of Ukraine dated 6 November 2015 No. 1151 “On the Peculiarities of Implementing the List of Fields of Knowledge and Specialties in which Higher Education Degrees are Conferred, Approved by the Resolution of the Cabinet of Ministers of Ukraine dated 29 April 2015 No. 266” as amended on 3 June 2016. URL: <https://zakon.rada.gov.ua/laws/show/z1460-15#Text>.
7. Order of the Ministry of Education and Science of Ukraine dated 1 June 2017 No. 600 (as amended by Order No. 1648 of 21 December 2017) “On Approval and Implementation of Methodical Recommendations for Developing Higher Education Standards” as amended on 30 April 2020. URL: <https://zakon.rada.gov.ua/rada/show/v0600729-16#Text>.
8. National Classifier of Ukraine: “Classifier of Occupations” DK 003:2010 as amended on 16 January 2024. URL: <https://zakon.rada.gov.ua/rada/show/va327609-10#Text>.
9. Letter of the Ministry of Education and Science of Ukraine dated 28 April 2017 No. 1/9-239. URL: <https://udhtu.edu.ua/wp-content/uploads/2018/11/List-MON-1-9-239-vid-28-04-2017-zrazok-OP-bakalavr.pdf>.
10. National Classifier of Ukraine: Classification of Types of Economic Activity DK 009:2010 as amended on 4 January 2023. URL: <https://zakon.rada.gov.ua/rada/-show/vb457609-10#Text>.
11. National Educational Glossary: Higher Education / 2nd ed., revised and supplemented / compilers: V. M. Zakharchenko, S. A. Kalashnikova, V. I. Luhovyi, A. V. Stavytskyi, Yu. M. Rashkevych, Zh. V. Talanova / ed. V. H. Kremen. Kyiv: Pleiades Publishing House, 2014. 100 p.
12. Resolution of the Cabinet of Ministers of Ukraine dated 30 December 2015 No. 1187 “On Approval of the Licensing Conditions for Conducting Educational Activities” (as amended on 20 June 2021). URL: <https://zakon.rada.gov.ua/laws/show/1187-2015-%D0%BF#Text>.

13. Regulations on Accreditation of Educational Programs in which Higher Education Degrees are Conferred, approved by the Order of the Ministry of Education and Science of Ukraine dated 11 July 2019 No. 977. URL: <https://zakon.rada.gov.ua/laws/show/z0880-19#Text>.

14. Recommendations on the Application of Criteria for Assessing the Quality of Educational Programs, approved by the National Agency for Higher Education Quality Assurance on 17 November 2020. URL: <https://naqa.gov.ua/%d0%b0%d0%ba%d1%80%d0%b5%d0%-b4%d0%b8%d1%82%d0%b0%d1%86%d1%96%d1%8f/>.

15. Order of the Ministry of Education and Science of Ukraine dated 10 July 2023 No. 835 “On Approval of the Higher Education Standard in the Field of Study 193 ‘Geodesy and Land Management’ for the Second (Master’s) Level of Higher Education.” URL: <https://mon.gov.ua/storage/app/media/vishcha-osvita/zatverdzeni%20standarty/2023/-14.07.2023/Zatverd-standart-193-Heodeziya.ta.zemleustriy-mahistr-835-10.07.2023.pdf>.

16. Order of the Ministry of Education and Science of Ukraine dated 11 May 2021 No. 517 “On Approval of the Higher Education Standard in the Field of Study 193 ‘Geodesy and Land Management’ for the First (Bachelor’s) Level of Higher Education.” URL: <https://mon.gov.ua/storage/app/media/vishcha-osvita/zatverdzeni%20standarty/2021/05/12/-193.Heodeziya.zemleustriy.517-bakalvr.doc>

17. Tuning Educational Structures in Europe. URL: https://tuningacademy.org/wp-content/uploads/2014/02/TuningEUI_Final-Report_EN.pdf.