

DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY

Department of Social Medicine, Economics and Organization of Health Care

## **SYLLABUS**

### **EDUCATIONAL DISCIPLINE**

**«ACADEMIC INTEGRITY IN THE EDUCATIONAL PROCESS»  
VB 1.17**

**for the training of second-level (master's) higher education professionals  
in the field of knowledge 22 "Healthcare"  
specialty 222 "Medicine"**



2023

<b>1. General information</b>	
<b>Name of the faculty</b>	<b>Foreign students</b>
<b>Educational program</b>	<b>22 Health care, 222 "Medicine", second (master's) level of higher education, full-time</b>
Academic year	<b>2023-2024</b>
<b>Name of the discipline, code</b>	<b>«Academic integrity in the educational process» VB 1.17 <a href="https://new.meduniv.lviv.ua/kafedry/kafedra-sotsialnoyi-medytsyny-ekonomiky-ta-organizatsiyi-ohorony-zdorov-ya/">https://new.meduniv.lviv.ua/kafedry/kafedra-sotsialnoyi-medytsyny-ekonomiky-ta-organizatsiyi-ohorony-zdorov-ya/</a></b>
Department	<b>Social Medicine, Economics and Organization of Health Care address: Zelena, 12 no. +38(032)276-81-67 e-mail: kaf_socmed@meduniv.lviv.ua</b>
Head of the department	<b>associate professor Gutor Taras Hryhorovych taras_gutor@ukr.net</b>
Year of study	<b>1 Year of study</b>
Semester	<b>2 Semester</b>
Type of discipline/module	<b>Selective</b>
Викладачі	<b>Associate Professor Gutor Taras Hryhorovych taras_gutor@ukr.net Associate Professor Kovalska Oksana Romanivna oksanaromkov@ukr.net Associate Professor Zaremba Natalia Igorivna natalyazaremba@gmail.com Senior Lecturer Timchenko Nataliya Fedorivna timchenkonataliaf@ukr.net assistant Hupalo Iryna Volodymyrivna irahup@gmail.com natalyazaremba@gmail.com assistant Lysyuk Roman Mykolayovych socmed_ES@i.ua</b>
Erasmus Yes/No	<b>Erasmus - no</b>
The person responsible for the syllabus	<b>Associate Professor Zaremba Natalia Igorivna natalyazaremba@gmail.com</b>
Number of credits ECTS	<b>3.0 credits</b>
Number of hours	<b>90 hours (12 hours of lectures, 18 hours of practical classes, 60 hours of independent student work)</b>
Language of education	<b>English</b>
Information about consultations	<b>Consultations - according to the schedule for the course once a week 15.30-17.00</b>
Address, telephone number and work schedule of the clinical base, office	<b>There is no clinical base</b>
<b>2. A brief summary of the course</b>	
The subject of study of the academic discipline "academic integrity in the educational process" is a set of ethical principles and rules defined by law, which should be guided by the participants of the educational process during training and conducting scientific (creative) activities in order to ensure trust in the results of training and/or scientific (creative) achievements	
<b>3. Purpose and goals of the course</b>	
Purpose of the course: Mastering the basics of current legislation and orders of the Higher Education Institution regarding academic integrity and anti-plagiarism, the necessary knowledge, skills and competence acquisition regarding the procedure and criteria for implementing and using the principles of academic integrity in the educational process, preparing students for professional education and self-education for improving the organization of medical assistance to the population , on the observance of ethical	

values in education and training of graduates for professional development.

**The main tasks of the academic discipline** "Academic integrity in the educational process" are:

- assimilation of the basic concepts of academic integrity to ensure the quality of higher education by students of medical education;
- assimilation of the basic requirements for ensuring academic integrity in the educational process by students of medical education;
- assimilation of the principles and fundamental values of academic integrity in the field of quality education regarding the organization of various types of medical care;
- formation of knowledge on issues of violation of academic integrity and ethics of academic relationships in the field of medical education;
- formation of knowledge on issues of responsibility of medical education students for violation of academic integrity;
- assimilation of institutional response measures to violations of the academic integrity of medical education students.

**Competencies and learning outcomes, the formation of which contributes to the discipline.**

According to the requirements of the Higher Education Standard, the discipline ensures that students acquire the following competencies:

**General:**

GC-1 – Ability to abstract thinking, analysis and synthesis.

GC -2 – Knowledge and understanding of the subject area and understanding of professional activity.

GC -3 – Ability to apply knowledge in practical activities.

GC-4 – Ability to communicate in the state language both orally and in writing.

GC-5 – Ability to communicate in English.

GC-6 – Skills of using information and communication technologies.

GC-7 – Ability to search, process and analyze information from various sources.

GC-8 – Ability to adapt and act in a new situation.

GC-9 – Ability to identify, pose and solve problems.

GC-10 – Ability to be critical and self-critical.

GC-11 – Ability to work in a team.

GC-12 – Efforts to preserve the environment.

GC-13 – Ability to act socially responsibly and consciously.

GC-14 – The ability to realize one's rights and responsibilities as a member of society, to realize the values of 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.

GC-15 – Ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, techniques and technologies, use different types and forms of motor activity for active recreation and leading a healthy lifestyle.

**Special (professional, subject):**

SC-1 – Ability to collect medical information about the patient and analyze clinical data.

SC-11 – Ability to solve medical problems in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility.

SC-13 – Ability to carry out sanitary and hygienic and preventive measures.

SC-14 – Ability to plan and carry out preventive and anti-epidemic measures regarding infectious diseases.

SC-16 – Ability to maintain medical documentation, including electronic forms.

SC-17 – Ability to assess the impact of the environment, socio-economic and biological determinants on the state of health of an individual, family, population.

SC-18 – Ability to analyze the activity of a doctor, unit, health care institution, ensure the quality of medical care and improve the efficiency of the use of medical resources.

SC-20 – Ability to conduct epidemiological and medical-statistical studies of the health of the population; processing of social, economic and medical information.  
 SC-21 – Clearly and unambiguously communicate one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non-specialists, in particular to students.  
 SC-22 – Ability to manage work processes in the field of health care, which are complex, unpredictable and require new strategic approaches.  
 SC-23 – Ability to develop and implement scientific and applied projects in the field of health care.  
 SC-24 – Compliance with ethical principles when working with patients and laboratory animals.  
 SC-25 – Observance of professional and academic integrity, bear responsibility for the reliability of the obtained scientific results.

#### 4. Course prerequisites

"Academic integrity in the educational process" as an educational discipline:  
 - is based on the study by students of academic disciplines: medical law, history of medicine, ethics, hygiene and ecology, epidemiology, sociology and medical sociology, medical informatics and computer technologies in the context of anti-plagiarism, the effectiveness of search systems, information retrieval, bioethics in the context of preventing ethical violations in the conduct of experiments and clinical research with possible legal consequences.  
 - lays the foundations for studying and supporting the principles of academic integrity in the organization of the educational process in institutions of general higher education in modern conditions;  
 - ensures the study of legal and organizational principles of the field of higher education;  
 - ensures the acquisition of knowledge, skills and acquisition of competences in determining the main approaches to the procedure and criteria for the implementation and use of the principles of academic integrity in the educational process, preparing students for professional education and self-education;  
 - ensures the acquisition of knowledge and skills in the organization, development and improvement of the system of ensuring the quality of educational activities and permanent skills in observing academic integrity by students and teachers in the educational process; stimulating students' personal, institutional and cultural commitment to high standards of academic integrity; laying the foundations for responsible behavior of graduates in further studies and in life after graduation.

#### 5. Program learning outcomes

##### List of learning outcomes

Learning outcome code	Content of the learning outcome	Reference to the competency matrix code of the Program Learning Outcome in the Higher Education Standard
<i>Kn -1</i>	Specialized conceptual knowledge acquired in the process of study and/or professional activity at the level of the latest achievements, which is the basis for original thinking and innovative activity, in particular in the context of research work	<i>PLO -1, PLO-2, PLO-3, PLO-21, PLO-22, PLO-25</i>
<i>Kn -2</i>	Critical understanding of problems in education and/or professional activity and at the border of subject areas	<i>PLO-3, PLO-23, PLO-24, PLO-26, PLO-27, PLO-28</i>
<i>S-1</i>	Solving complex tasks and problems that requires updating and integrating knowledge, often in conditions of incomplete/insufficient information and conflicting requirements	<i>PLO-1, PLO-2, PLO-3, PLO-21, PLO-22, PLO-23, PLO-25, PLO-26, PLO-27, PLO-28</i>
<i>S-2</i>	Conducting research and/or innovative activities	<i>PLO-1, PLO-2, PLO-3, PLO-21, PLO-22, PLO-23, PLO-25, PLO-26, PLO-27, PLO-28</i>

<i>C-1</i>	Clear and unambiguous presentation of one's own conclusions, as well as the knowledge and explanations that justify them, to specialists and non-specialists, in particular to persons who are studying	<i>PLO-1, PLO-2, PLO-3, PLO-21, PLO-22, PLO-23, PLO-24 PLO-25, PLO-26, PLO-27, PLO-28</i>
<i>C-2</i>	Use of foreign languages in professional activities	<i>PLO-27</i>
<i>A-1</i>	Decision-making in complex and unpredictable conditions, which requires the application of new approaches and forecasting	<i>PLO-28</i>
<i>A-2</i>	Responsibility for the development of professional knowledge and practices, assessment of the team's strategic development	<i>PLO-1, PLO-2, PLO-3, PLO-21, PLO-22, PLO-23, PLO-24 PLO-25, PLO-26, PLO-27, PLO-28</i>

### 6. Format and scope of the course

Course format	<i>Auditory</i>	
Type of occupation	Number of hours	Number of groups
lectures	<b>12</b>	
practical	<b>18</b>	
seminars	<b>0</b>	
independent	<b>60</b>	

### 7. Тематика та зміст курсу

Class type code	Topic	Content of training	Learning outcome code	Teacher
L-1	The concept of academic integrity in the field of quality of higher education.	The concept of academic integrity and types of its violation. Concepts: academic integrity, academic plagiarism, self-plagiarism, fabrication, falsification, writing off, deception, bribery, unlawful influence, biased evaluation, declaration of academic integrity, code of academic integrity. The concept of failure to identify and address violations of academic integrity.	<i>PLO -1, PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule
L-2	Fundamental values and principles of academic integrity in the field of higher education quality.	Academic integrity in a broad sense. General principles of ensuring academic integrity: honesty and decency, respect, trust, responsibility, transparency and publicity, justice. Documentary support for the implementation of the principles of academic integrity in institutions of higher education. Legal regulation and legislative framework. Liability for violations of academic integrity. International practice.	<i>PLO -1, PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule
L-3	Code of ethics for supporting the principles of academic integrity during the implementation of state policy in the field of quality of higher education.	Observance of academic integrity by pedagogical, scientific-pedagogical and scientific workers. Links to sources of information in the case of using ideas, developments, statements, information. Norms of legislation on copyright and related rights. Provision of reliable information about research methods and results, sources	<i>PLO -1, PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25,</i>	according to the group schedule

		of used information and own pedagogical (scientific-pedagogical, creative) activity. Objective assessment of learning outcomes. Observance of academic integrity by students of education provides. Completion of educational tasks, tasks of current and final control of learning results. Links to sources of information in the case of using ideas, developments, statements, information. Norms of legislation on copyright and related rights. Providing reliable information about the results of one's own educational (scientific, creative) activities, used research methods and sources of information."	<i>PLO -26, PLO -28</i>	
L-4	Procedures for maintaining academic integrity in the educational process.	Observance of academic integrity by students of education. Regulatory and legal support for the implementation of the principles of academic integrity in Ukraine. Public organizations working in the field of education and science on issues of violation of academic integrity. Bodies created by institutions of higher education to consider alleged violations of academic integrity: departments, general university or faculty commissions, university courts, etc.	<i>PLO -1, PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO-27 PLO -28</i>	according to the group schedule
L-5	Violation of academic integrity in the educational process.	Copying other people's works, replacing the results of experimental and empirical research with computer modeling and plausible	<i>PLO -1, PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO-27 PLO -28</i>	according to the group schedule
L-6	Academic responsibility for violations of integrity in the educational process.	Liability for violation of academic integrity. Types of academic responsibility for specific violations of academic integrity; procedures for establishing and proving the facts of violations of academic integrity; procedures for making decisions about the academic responsibility of participants in the educational process, as well as bodies that make such decisions; appeals procedures for individuals accused of academic misconduct.	<i>PLO -1, PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO-27 PLO -28</i>	according to the group schedule
P-1	Academic integrity in higher education quality assurance: basic concepts and terms.	Chapter I of the Law of Ukraine "On Academic Integrity". Basic concepts and fundamental values of academic integrity, its impact on academic culture and quality of education. Definition of academic integrity. Academic plagiarism. Self-plagiarism. Fabrication. Falsification. Bribery. Unlawful influence.	<i>PLO -1, PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule
P-2	Ensuring academic integrity: basic requirements	Section II. Law of Ukraine "On academic integrity". Academic integrity policies and procedures. Acquaintance of the participants of the scientific and educational process with the norms and provisions of academic	<i>PLO -1, PLO -2, PLO -3, PLO -21,</i>	according to the group schedule

		integrity. Informing students of higher education about the importance of observing the principles and rules of academic integrity. Analysis of requirements for the number and volume of written works, the number of used sources and other formal indicators.	<i>PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	
P-3	Principles and fundamental values of academic integrity in the field of quality of higher medical education.	Basic principles of ensuring academic integrity. Honesty and integrity in maintaining academic integrity. Concepts: respect, trust, responsibility, transparency and publicity, justice. Code of academic integrity of the educational institution (regulations on academic integrity, code of ethics, code of academic ethics, code of academic conduct, code of honor, etc.).	<i>PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule
P-4	Violation of academic integrity and ethics of academic relationships in the field of higher education, including dental	Section IV. Law of Ukraine "On academic integrity". Procedures for establishing and proving the facts of violations of academic integrity. Procedures for making decisions about the academic responsibility of participants in the educational process, as well as bodies that make such decisions. Types of academic responsibility for specific violations of academic integrity. Appeal procedures for individuals accused of academic integrity violations.	<i>PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule
P-5	Academic Integrity: Basic Requirements for Applicants and Entrants of Higher Medical Education.	Acquaintance of students with the basic rules of observing academic integrity: independent performance of educational tasks, tasks of current and final control of learning results; requirements for references to sources of information in case of use of ideas, developments, statements, information; compliance with the legislation on copyright and related rights; provision of reliable information about the results of one's own educational (scientific, creative) activities, used research methods and sources of information.	<i>PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule
P-6	General principles of establishing the violation of academic integrity of applicants of higher medical education.	Section IV. Law of Ukraine "On academic integrity". The main types of violations of academic integrity. Signs of establishing violations of the principles of academic integrity. Detection of academic plagiarism in research papers. Detection of citation errors. Detection of self-plagiarism. Establishing the fact of data fabrication. Establishing the fact of falsification of data. Anti-write-off. Establishing the fact of deception. Establishing the fact of biased assessment.	<i>PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule
P-7	Institutional response measures to violations of academic integrity of students of higher medical education.	Responsibility and consequences of non-compliance with the principles of academic integrity. Subjects of ensuring academic integrity. The State Education Quality Service of Ukraine - main tasks. National agency for quality assurance of higher education - main tasks. Chapter V of the Law of Ukraine "On Academic Integrity"	<i>PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule

P-8	Creating an atmosphere of academic integrity in institutions of higher education.	Understanding the principles of academic integrity. The principle of freedom of expression in education, research and opinion. Core values: academic integrity; collegiality and respect for human dignity; responsibility; academic freedom; responsibility for the use of property and resources of the educational institution, respect for the environment. Tools for improving the effectiveness of the code of academic ethics: involving students in the development and implementation of academic integrity policies and rules throughout the university; training on the organization of cooperation between students and teachers in order to reduce dishonest behavior; discussion about the introduction of ethical academic norms in the everyday life of the university; code and ethics in conversations and daily life of the university; exchange of views on motivational quotes from the code of ethics; analysis and repetition of information about the inadmissibility of plagiarism and possible sanctions for it.	<i>PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule
P-9	Credit class.	Verification of students' mastery of educational material: crediting of all works in practical classes, oral survey, written test and solving of situational tasks.	<i>PLO-1 PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO-24, PLO -25, PLO -26, PLO-27 PLO -28</i>	according to the group schedule
ISW-1	The concept of academic integrity and types of its violation.	The content of the concept of "academic plagiarism", "self-plagiarism", "fabrication", "writing off", "falsification", "deception", "bribery".	<i>PLO-1 PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule
ISW-2	Legal regulation of issues of academic integrity. Legal framework and international experience.	Legislation in the field of academic integrity: the Constitution of Ukraine, the Law of Ukraine "On Education", "On Academic Integrity", "On Copyright and Related Rights", "On Scientific and Scientific-Technical Activity".	<i>PLO-1 PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO-27 PLO -28</i>	according to the group schedule
ISW-3	Documentary support for the implementation of the principles of academic integrity in	Policies and procedures for ensuring academic integrity: code of ethics, code of honor, code of academic integrity approved by the collegial governing body of the educational institution. Normative	<i>PLO-1 PLO -2, PLO -3, PLO -21,</i>	according to the group schedule



	institutions of higher education.	documents must clearly regulate: types of academic responsibility for specific violations of academic integrity; procedures for establishing and proving the facts of violations of academic integrity; procedures for making decisions about the academic responsibility of participants in the educational process, as well as bodies that make such decisions; appeals procedures for individuals accused of academic misconduct.	<i>PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	
ISW-4	The main types of violations of academic integrity.	Contents of the main types of violations of academic integrity: falsification and assignment of authorship; creating an academic text to order; imitation of educational and scientific activities; false co-authorship; deliberate distortion of references to sources; writing off; execution of the task by another person.	<i>PLO-1 PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule
ISW-5	Responding to breaches of academic integrity. Liability for violation of academic integrity.	Academic responsibility of education seekers, pedagogic, scientific-pedagogical, scientific workers and subjects of ensuring academic integrity, for violation of the requirements of academic integrity. Forms of academic responsibility of education seekers. The decision to bring the student of education to academic responsibility.	<i>PLO-1 PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule
ISW-6	Tasks of the administration of institutions of higher education regarding the control of teaching staff and students of higher education in compliance with the principles of academic integrity.	The procedure for establishing a violation of academic integrity. Procedure for initiation and requirements for submitting (appeals, statements) about violations of academic integrity. The procedure for involving external experts, resolving the issue of conflict of interests. The procedure for making a decision (voting) on violation of academic integrity, the procedure for appealing the decision, the composition and procedure for forming the appeal commission of the educational institution (scientific institution). A complex of anti-plagiarism measures.	<i>PLO-1 PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO -26, PLO -28</i>	according to the group schedule
ISW-7	Responsibility and consequences of non-compliance with the principles of academic integrity in Ukraine.	Forms of bringing an educational institution to academic responsibility. Written warning to the head of the institution about the facts of violation of academic integrity. Suspension of the accreditation of the corresponding educational program, according to which violations were committed. Refusal to award a scientific degree or award a scientific title. Deprivation of the awarded scientific (educational and creative) degree or assignment. Refusal to grant or deprivation of the assigned teaching rank, qualification category. Deprivation of the right to participate in the work of bodies defined by law or to hold positions defined by law.	<i>PLO -2, PLO -3, PLO -21, PLO -22, PLO -23, PLO -25, PLO-24 PLO -28</i>	according to the group schedule
ISW-8	Academic plagiarism in research works is a	The content of the concept of "academic plagiarism". Types of plagiarism: verbatim	<i>PLO -1 PLO -2,</i>	according to the group schedule

	typical manifestation. Peculiarities of checking works for academic plagiarism.	borrowing of text fragments without designating them as quotations with reference to the source; using information (facts, ideas, formulas, numerical values, etc.) from a source without reference to this source; paraphrasing of the source text; submission as one's own works (dissertations, monographs, textbooks, articles, theses, reports, control, calculation, course, diploma and master's theses, essays, abstracts, etc.). Search server (PS). Robot (Crawler, Bot, Robot).	<i>PLO -21,</i> <i>PLO -22,</i>	
ISW-9	Detection of citation errors. The difference between academic plagiarism, self-plagiarism, and citation errors.	The content of the concept of "citation errors". Typical citation errors: lack of quotation marks when using text fragments; link to another source; wrong design of the link. Correct citation of translations. Falsification. Replication. Rewrite. Compilation.	<i>PLO -1,</i> <i>PLO -2,</i> <i>PLO -21,</i> <i>PLO -22,</i>	according to the group schedule
ISW-10	Self-plagiarism as a separate type of violation of academic integrity.	The content of the concept of "self-plagiarism". Reasons for identifying self-plagiarism. Duplication of publications. Duplication of scientific results. Aggregation. Data disaggregation. "Scientific result".	<i>PLO -1,</i> <i>PLO -3,</i> <i>PLO -22,</i>	according to the group schedule
ISW-11	Prevention of violations of academic integrity in institutions of higher education.	Basic understanding of aspects of academic integrity. Forms of violation of academic integrity: lack of motivation; obtaining other preferences in education; incorrect formulation of the topic, subject and object of research, setting tasks that are too difficult for a young researcher; lack of citation culture, academic writing skills; devaluation of original thoughts, lack of time to carry out research. Preventive aspect: understanding the reasons for violation of academic integrity; developing a bias strategy, creating an atmosphere of academic integrity; targeted events - conferences, round tables, quests. Popularization of the principles of academic integrity. Monitoring.	<i>PLO -1</i> <i>PLO -2,</i> <i>PLO -3,</i> <i>PLO -21,</i> <i>PLO -22,</i> <i>PLO -23,</i> <i>PLO -25,</i> <i>PLO -26,</i> <i>PLO -28</i>	according to the group schedule
ISW-12	Creating an atmosphere of academic integrity in institutions of higher education.	Understanding the principles of academic integrity. The principle of freedom of expression in education, research and opinion. Core values: academic integrity; collegiality and respect for human dignity; responsibility; academic freedom; responsibility for the use of property and resources of the educational institution, respect for the environment. Tools for improving the effectiveness of the code of academic ethics: involving students in the development and implementation of policies and rules of academic integrity throughout the university; training on the organization of cooperation between students and teachers in order to reduce dishonest behavior; discussion about the introduction of ethical academic norms in the everyday life of the university; code and ethics in conversations and daily life of the university; exchange of views on motivational quotes from the code of ethics; analysis and repetition of	<i>PLO -1</i> <i>PLO -2,</i> <i>PLO -3,</i> <i>PLO -21,</i> <i>PLO -22,</i> <i>PLO -23,</i> <i>PLO -25,</i> <i>PLO -26,</i> <i>PLO -28</i>	according to the group schedule

		information about the inadmissibility of plagiarism and possible sanctions for it.		
<b>8. Verification of training results</b>				
<b>Current control</b>				
is carried out during training sessions and is aimed at checking the students' assimilation of the educational material. Forms of assessment of current educational activities include control of theoretical and practical training. The final grade for the current educational activity is given on a 4-point (national) scale				
Learning outcome code	Class type code	Method of verification of learning results	Enrollment criteria	
<i>A-1, A-2</i>	<i>L-1-6</i>	Checking the lecture outline	enrolled / not enrolled	
<i>A-1, A-2</i>	<i>P-1-9</i>	Checking the performance of the written task of extracurricular self-preparation for practical work	enrolled / not enrolled	
<i>A-1, A-2</i>	<i>ISW-1-12</i>	Checking the performance of a written task of independent work	enrolled / not enrolled	
<i>Kn-1, Kn-2 S-1, S-2 C-1, C-2</i>	<i>L-1-6, P-1-9, ISW-12</i>	Oral survey at the practical session based on the lecture material, the topic of the practical session and independent work	«2" - <60% correct answers; «3» - 60-69%, «4» - 70-89 %, «5» - 90-100%.	
<i>Kn-1, Kn-2 S-1, S-2 C-1, C-2</i>	<i>L-1-6, P-1-9, ISW-12</i>	Test control at a practical lesson	«2" - <60% correct answers; «3» - 70-79%, «4» - 80-89 %, «5» - 90-100%.	
<i>Kn-1, Kn-2 S-1, S-2, C-1, C-2</i>	<i>P-1-9, ISW-1-12</i>	Demonstration of the practical skill of calculating indicators	«2" - <60% correct answers; «3» - 60-69%, «4» - 70-89 %, «5» - 90-100%.	
<i>Kn-1, Kn-2 S-1, S-2 C-1, C-2</i>	<i>P-1-9, ISW-1-12</i>	Demonstration of practical skills to evaluate and analyze research results	«2" - <60% correct answers; «3» - 60-69%, «4» - 70-89 %, «5» - 90-100%.	
<b>Final control</b>				
General evaluation system	Participation in work during the semester is 100% on a 200-point scale			
Rating scales	традиційна 4-бальна шкала, багатобальна (200-бальна) шкала, рейтингова шкала ECTS			
Conditions of admission to the final control	The student attended all practical (laboratory, seminar) classes and received at least 120 points for the current academic performance			
Type of final control	Methodology of final control		Enrollment criteria	
Credit	All topics submitted for current control must be included. Grades from a 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the Regulation "Criteria, rules and procedures for evaluating the results of students' educational activities"		<i>The maximum number of points is 200. The minimum number of points is 120</i>	

The maximum number of points that a student can score for the current educational activity is 200 points.

The minimum number of points that a student must score for the current educational activity in order to receive credit is 120 points.

The calculation of the number of points is carried out on the basis of the grades received by the student on a 4-point (national) scale during the study of the discipline, by calculating the arithmetic mean (CA), rounded to two decimal places. The obtained value is converted into points on a multi-point scale as follows:

$$x = \frac{CA \times 200}{5}$$

### 9. Course policy

During the study of the course, the professors promote the policy of academic integrity

### 10. Reference

The main one

1. Law of Ukraine "On Education". Article 42 "Academic integrity". URL: [http://kodeksy.com.ua/pro\\_osvitu/statja-42.htm](http://kodeksy.com.ua/pro_osvitu/statja-42.htm)
2. Regarding recommendations on academic integrity for institutions of higher education / letter of the Ministry of Education and Culture dated 10/23/2018 No. 1/9-650. URL: [https://zakononline.com.ua/documents/show/124272\\_124272](https://zakononline.com.ua/documents/show/124272_124272).
3. Annual report of the National Agency for Quality Assurance of Higher Education / According to ed. S. Kvita and O. Eremenko. K.: National Agency for Quality Assurance of Higher Education, 2021. 364 p.: Draft Law "On Academic Integrity". P. 210-229.
4. Code of ethics of a scientist of Ukraine. URL: <https://www.znu.edu.ua/etychnyj-kodex-uchenogo-Ukrainy.pdf>.
5. E. Stadny. Some recommendations regarding the implementation of ethical codes in Ukrainian higher educational institutions. URL: <http://www.saiup.org.ua/resursy/rekomendatsiyi-shhodo-vprovadzhennya-etychnyh-kodeksiv-v-ukrayinskyh-vyshhyh-navchalnyh-zakladah/>.
7. Academic culture of Ukrainian students: main factors of formation and development. URL: <http://fond.sociology.kharkov.ua/index.php/ua/projects-ua/304-akademichna-kultura-ukrajinskogo-studentstva-osnovni-chinniki-formuvannya-ta-rozvitku>.
8. Shlichta N., Shlichta I. Methodical recommendations and program of the course "Fundamentals of academic writing". URL: <http://www.saiup.org.ua/resursy/osnovy-akademichnogo-pysma-metodychni-rekomendatsiyi-ta-programa-kursu>
9. Ryzhko O. Concepts, types, classifications of plagiarism. URL: [https://www.donnu.edu.ua/wp-content/uploads/sites/8/2019/08/Ponyattya\\_vidi\\_klasif.plagiatu.pdf](https://www.donnu.edu.ua/wp-content/uploads/sites/8/2019/08/Ponyattya_vidi_klasif.plagiatu.pdf).
10. Law of Ukraine "On copyright and related rights". Article 50 "Breach of copyright and related rights". URL: <http://zakon2.rada.gov.ua/laws/show/3792-12/page3>.
11. Law of Ukraine "On scientific and scientific and technical activity". Article 1 "Basic terms and their definitions". URL: <http://zakon0.rada.gov.ua/laws/show/848-19>.

#### Auxiliary

1. Avoiding Plagiarism, Self-plagiarism, and Other Questionable Writing Practices: A Guide to Ethical Writing. URL: <https://ori.hhs.gov/avoiding-plagiarism-self-plagiarism-and-other-questionable-writing-practices-guide-ethical-writing>
2. Data fabrication/data falsification. URL: <https://www.springer.com/gp/authors-editors/editors/data-fabrication-data-falsification/4170>
3. Data falsification and fabrication. URL: <http://editorresources.taylorandfrancisgroup.com/data-falsification-and-fabrication>
4. Definitions and Examples of Academic Misconduct. URL: <https://sa.berkeley.edu/conduct/integrity/definition>
5. Ethical Dimensions of Renewable Energy and Sustainability Systems: 2.1 Falsification, fabrication, plagiarism. URL: <https://www.e-education.psu.edu/bioet533/node/654>

6. Fishman T. «We know it when we see it» is not good enough: toward a standard definition of plagiarism that transcends theft, fraud, and copyright. 4th Asia Pacific Conference on Educational Integrity (4APCEI). 28–30 September 2009, University of Wollongong NSW Australia, - 2010, p.1-4. URL: <https://www.bmartin.cc/pubs/09-4apcei/4apcei-Fishman.pdf>

7. Harvard University Graduate Design School. Academic Conduct Policy. URL: <http://www.gsd.harvard.edu/resources/academic-conduct/>

- **11. Equipment, logistical and software support of the discipline/course**
- Curriculum, thematic and calendar plans of lectures, practical classes and independent extracurricular work
- Presentations and full text of lectures
- Educational and methodological developments on the topic of the lesson (theoretical presentation of the topic of the lesson, control questions, situational tasks for independent work and a list of recommended literature)
- Educational textbooks and manuals from the library
- Computer and multimedia projector

### **12. Additional information**

All necessary information for the educational process - calendar and thematic plans of classes and assignments, development of lectures, methodological recommendations for practical classes, independent work of students, test control of knowledge is available on Misa.

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