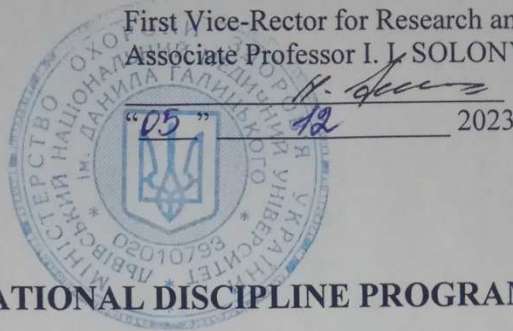DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY

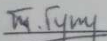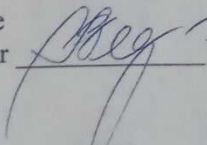Department of Social Medicine, Economics and Organization of Health Care

EDUCATIONAL DISCIPLINE PROGRAM

«ACADEMIC INTEGRITY IN THE EDUCATIONAL PROCESS»
VB 1.21

for the training of second-level (master's) higher education professionals in the field of knowledge 22 "Healthcare" specialty 221 "Dentistry"

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INTRODUCTION

The study program of the academic discipline "**Academic integrity in the educational process**" is compiled in accordance with

Educational and professional program "Dentistry"

The standard of higher education of the second (master's) level

fields of knowledge 22 "Health care"

specialty 221 "Dentistry"

DESCRIPTION OF THE EDUCATIONAL DISCIPLINE (ABSTRACT)

The academic discipline "Academic integrity in the educational process" involves mastering:

• ethical principles for preventing, hindering and stopping manifestations of academic dishonesty in the implementation of state policy in the field of quality education through training;

• ethical principles regarding leadership and mentoring;

• creation of a positive and favorable environment in the educational process in order to ensure confidence in the results of education and/or scientific (creative) achievements.

Structure of educational disciplines	Number of credits, hours, of them				Year of studying (semester)	Type of control
	In total	Auditory		IWS		
		Lectures	Practical classes			
Academic integrity in the educational process	3.5 credits / 105 hours	10	30	60	1st (one semester)	Credit

The subject of the study of the academic discipline 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.

Interdisciplinary connections. "Academic integrity in the educational process" as an educational discipline:

- is based on students' study 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 protection, efficiency of search systems, information search;

- bioethics in the context of preventing ethical violations in conducting experiments and clinical research with possible legal consequences.

- lays the foundations for studying the organization of the treatment-diagnostic process, as well as assessing its scope and quality when studying clinical disciplines in compliance with the principles of academic integrity;

- ensures the study of legal and organizational foundations of the health care industry from the standpoint of academic integrity;

- contributes to the formation of the preventive direction of activities of future dentists taking into account the professional and educational situations of the principles of academic integrity.

1 Purpose and tasks of the academic discipline

1.1 Purpose: mastering the basics of current legislation and orders of the Higher Education Institution regarding academic integrity and combating 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 medical assistance to the population, in compliance with ethical values in education and training of graduates for professional development.

1.2 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 education seekers, including dental;

- assimilation of the basic requirements for ensuring academic integrity in the educational process by the students of education, including dental;

- 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, including dental;

- formation of knowledge on issues of violation of academic integrity and ethics of academic relationships in the field of education, including dental;

- formation of knowledge on issues of responsibility of education seekers, including dental, for violation of academic integrity;

- assimilation of institutional response measures to violations of the academic integrity of education seekers, including dental.

1.3 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-2 – Ability to interpret the results of laboratory and instrumental research.

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-15 – Processing of state, social and medical information.

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.

Detailing of competencies in accordance with SWC descriptors in the form of the "Competence Matrix"

Matrix of competences

№	Competence	Knowledge	Skills	Communication	Autonomy and responsibility
		Kn1 – Specialized conceptual knowledge acquired in the process of study and/or professional activity at the level of the latest achievements, which are the basis for original thinking and innovative activity, in particular in the context of research work	**S 1** – Solving complex tasks and problems, which requires updating and integrating knowledge, often in conditions of incomplete/insufficient information and conflicting requirements	**C1** – 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	**A1–** Decision-making in complex and unpredictable conditions, which requires the application of new approaches and forecasting
		Kn2 - Critical understanding of problems in education and/or professional activity and at the border of subject areas	**S2 –** Conducting research and/or innovative activities	**C2–** Use of foreign languages in professional activities	**A2–** Responsibility for the development of professional knowledge and practices, assessment of the team's strategic development
1	Ability to collect medical information about the patient and analyze clinical data.	**Kn2**	**S1**	**C1, C2**	**AR1**
2	The ability to interpret the results of laboratory and instrumental research.	**Kn1**	**S1**	**C1, C2**	**AR1**
3	The ability to assess the impact of the environment on the state of health of the population (individual, family, population).	**Kn2**	**S2**	**C1, C2**	**AR1, AR2**
4	Ability to maintain regulatory medical documentation.	**Kn1**	**S1**	**C1**	**AR1, AR2**
5	Processing of state, social and medical information.	**Kn2**	**S1**	**C1, C2**	**AR1, AR2**
6	The ability to legally secure one's own professional activity.	**Kn1**	**S1**	**C1**	**AR2**

Learning outcomes:
Program learning outcomes, the formation of which is facilitated by the educational discipline:
PLO-6 – Plan and implement dental disease prevention measures among the population to prevent the spread of dental diseases.
PLO-7 – Analyze the epidemiological situation and carry out measures of mass and individual, general and local medicinal and non-medicinal prevention of dental diseases.
PLO-14 – Analyze and evaluate government, social and medical information using standard approaches and computer information technologies.
PLO-15 – Assess the impact of the environment on the state of health of the population in the conditions of a medical institution according to standard methods.
PLO-16 – To form goals and determine the structure of personal activity based on the result of the analysis of certain social and personal needs.
PLO-17 – Maintain a healthy lifestyle, use self-regulation and self-control techniques.
PLO-18 – To be aware of and be guided in one's activities by civil rights, freedoms and responsibilities, to raise the general educational cultural level.
PLO-19 – To comply with the requirements of ethics, bioethics and deontology in one's professional activity.

PLO-20 – To organize the necessary level of individual safety (own and the persons they care about) in case of typical dangerous situations in the individual field of activity.

2 Information volume of the academic discipline
105 hours of 3.5 credits ECTS are allocated to the study of the academic discipline.

Topic 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.

Topic 2 Academic integrity in quality assurance of higher medical education: 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.

Topic 3 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".

Topic 4 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 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.

Topic 5 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".

Topic 6 Fundamental values and principles of academic integrity in the field of quality of higher education. 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.

Topic 7 Principles and fundamental values of academic integrity in the field of quality of higher medical education, including dental. 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.).

Topic 8 Documentary support for the implementation of the principles of academic integrity in institutions of higher education. 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 documents should 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.

Topic 9 Code of ethics to support 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 of used information and own pedagogical (scientific-pedagogical, creative)

activity. Objective assessment of learning outcomes. Observance of academic integrity by students of education involves: performance of educational tasks, tasks of current and final control of study 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."

Topic 10 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.

Topic 11 Violation of academic integrity in the educational process. Academic responsibility. Copying other people's works, replacing the results of experimental and empirical research with computer modeling and plausible assessments, editing graphic, video and audio materials, etc.

Topic 12 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; simulation of educational and scientific activities; false co-authorship; deliberate distortion of references to sources; writing off; execution of the task by another person.

Topic 13 Violations of academic integrity and ethics of academic relationships in the field of higher medical 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.

Topic 14 Responding to violations 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.

Topic 15 Academic integrity: basic requirements and responsibility of applicants for higher medical education and applicants for violations. 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.

Topic 16 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.

Topic 17 Responsibility of higher education applicants, including dental, for violation of academic integrity. 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.

Topic 18 General principles of establishing 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.

Topic 19 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.

Topic 20 Academic plagiarism in research works - typical manifestations. The content of the concept of "academic plagiarism". Types of plagiarism: verbatim 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 (SS). Robot (Crawler, Bot, Robot).

Topic 21 Identification 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.

Topic 22 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".

Topic 23 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.

Topic 24 Peculiarities of checking works for academic plagiarism. Search server (SS). Robot (Crawler, Bot, Robot).

Topic 25 Institutional measures to respond to violations of the academic integrity of students of higher medical education, including dental. 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"

Topic 26 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.

Topic 27 The difference between academic plagiarism, self-plagiarism and citation errors. Credit class. Correct citation of translations. Falsification. Replication. Rewrite. Compilation.

Verification of students' mastery of educational material: crediting of all works in practical classes, oral survey, written test and solving of situational tasks**.**

3 Structure of the academic discipline

№	Topic name	Lectures	Practical occupation	IWS	Individual work
1	The concept of academic integrity in the field of quality of higher education.	2	–	–	–
2	Academic integrity in quality assurance of higher medical education: basic concepts and terms.	–	3	–	–
3	The concept of academic integrity and types of its violation	–	–	5	–
4	Ensuring academic integrity: basic requirements	–	3	–	–
5	Legal regulation of issues of academic integrity. Legal framework and international experience.	–	–	5	–
6	Fundamental values and principles of academic integrity in the field of higher education quality.	2	–	–	–
7	Principles and fundamental values of academic integrity in the field of quality of higher medical education including stomatology.	–	3	–	–
8	Documentary support for the implementation of the principles of academic integrity in institutions of higher education.	–	–	5	–
9	Code of ethics for supporting the principles of academic integrity during the implementation of state policy in the field of quality of higher education.	2	–	–	–
10	Procedures for maintaining academic integrity in the educational process.	2	–	–	–
11	Violation of academic integrity and ethics of academic relationships in the field of higher medical education.	–	3	–	–
12	Violation of academic integrity in the educational process.	–	–	5	–
13	The main types of violations of academic integrity.	2	–	-	–
14	Responding to breaches of academic integrity. Liability for violation of academic integrity.	–	–	5	–
15	Academic integrity: basic requirements and responsibility of applicants for higher medical education and applicants for violations.	–	3	–	–
16	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.	–	–	5	–
17	Responsibility of higher education applicants, including dental, for violation of academic integrity.	–	3	–	–
18	General principles of establishing the violation of academic integrity of applicants of higher medical education including stomatology.	–	3	–	–
19	Academic responsibility for violations of integrity in the educational process.	-	–	5	–
20	Academic plagiarism in research works is a typical manifestation.	–	–	5	–
21	Detection of citation errors.	–	–	5	–
22	Self-plagiarism as a separate type of violation of academic integrity.	–	–	5	–
23	Prevention of violations of academic integrity in institutions of higher education.	–	–	5	–

24	Peculiarities of checking works for academic plagiarism.	–	–	5	–
25	Institutional response measures to violations of academic integrity of students of higher medical education.	–	3	–	–
26	Creating an atmosphere of academic integrity in institutions of higher education.	–	3	5	–
27	Peculiarities of checking works for academic plagiarism. Credit class	–	3	–	–
Total hours 105 / 3.5 ECTS credits		**10**	**30**	**65**	**0**
Final control		**Credit**			

4 Thematic plan of lectures

№	Name of topic	Hours
1.	The concept of academic integrity in the field of quality of higher education.	2
2.	Fundamental values and principles of academic integrity in the field of higher education quality.	2
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.	2
4.	Procedures for maintaining academic integrity in the educational process.	2
5.	Violation of academic integrity in the educational process.	2
	Total	**10**

5 Thematic plan of practical (seminar) classes

№	Name of topic	Hours
1.	Academic integrity in quality assurance of higher medical education: basic concepts and terms.	3
2.	Ensuring academic integrity: basic requirements.	3
3.	Principles and fundamental values of academic integrity in the field of quality of higher medical education.	3
4.	Violation of academic integrity and ethics of academic relationships in the field of higher medical education.	3
5.	Academic integrity: basic requirements and responsibility of applicants for higher medical education and applicants for violations.	3
6.	Responsibility of higher education applicants, including dental, for violation of academic integrity.	3
7.	General principles of establishing the violation of academic integrity of applicants of higher medical education.	3
8.	Institutional response measures to violations of academic integrity of students of higher medical education.	3
9.	Creating an atmosphere of academic integrity in institutions of higher education.	3
10.	The difference between academic plagiarism, self-plagiarism, and citation errors. Credit class.	3
	Total	**30**

6 Thematic plan of students' independent work

№ з/п	Name of topic	Hours	Type of control
1.	The concept of academic integrity and types of its violation.	5	Current control in practical classes
2.	Legal regulation of issues of academic integrity. Legal framework and international experience.	5	Current control in practical classes
3.	Documentary support for the implementation of the principles of	5	Current control in

	academic integrity in institutions of higher education.		practical classes
4.	Responsibility and consequences of non-compliance with the principles of academic integrity in Ukraine.	5	Current control in practical classes
5.	The main types of violations of academic integrity.	5	Current control in practical classes
6.	Responding to breaches of academic integrity. Liability for violation of academic integrity.	5	Current control in practical classes
7.	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.	5	Current control in practical classes
8.	Academic plagiarism in research works is a typical manifestation.	5	Current control in practical classes
9.	Detection of citation errors. The difference between academic plagiarism, self-plagiarism, and citation errors.	5	Current control in practical classes
10.	Self-plagiarism as a separate type of violation of academic integrity.	5	Current control in practical classes
11.	Prevention of violations of academic integrity in institutions of higher education.	5	Current control in practical classes
12.	Peculiarities of checking works for academic plagiarism.	5	Current control in practical classes
13.	Creating an atmosphere of academic integrity in institutions of higher education.	5	Current control in practical classes
	Total	*65*	

7 Individual tasks are not planned in the working curriculum for the academic year.

8 Methods of studying
• verbal methods: conversation, story, explanation, work with literature;
• visual methods: illustration, demonstration, observation;
• practical methods: situational tasks, independent work, search and research work;
• interactive methods: discussion, work in small groups, brainstorming, case method, business game.

9 Methods of Control
Types of control - current and final.
The form of final control in accordance with the curriculum is credit

Evaluation criteria: on a 4-point scale. The totality of knowledge, abilities, skills, and other competencies acquired by the student in the process of learning from each topic of the academic discipline is tentatively evaluated according to the following criteria:

- 5 / "excellent" - the student perfectly mastered the theoretical material of the topic of the lesson, demonstrates deep and comprehensive knowledge of the relevant topic, the main provisions of scientific primary sources and recommended literature, thinks logically and constructs an answer, freely uses the acquired theoretical knowledge when analyzing practical material, expresses his attitude to certain problems, demonstrates a high level of assimilation of practical skills;

- 4/"good" - the student has mastered the theoretical material of the lesson well, has the main aspects from primary sources and recommended literature, explains it in a reasoned way; possesses practical skills, expresses his thoughts on certain problems, but certain inaccuracies and errors are assumed in the logic of the presentation of theoretical content or in the performance of practical skills;

- 3/"satisfactory" - the student has basically mastered the theoretical knowledge of the educational topic, orients himself in primary sources and recommended literature, but answers unconvincingly, confuses concepts, additional questions cause the student uncertainty or lack of stable knowledge; when answering questions of a practical nature, reveals inaccuracies in knowledge, does not know how to evaluate facts and phenomena, connect them with future activities, makes mistakes when

performing practical skills;

- 2/"unsatisfactory" - the student has not mastered the educational material of the topic, does not know scientific facts, definitions, hardly orients himself in primary sources and recommended literature, lacks scientific thinking, practical skills are not formed.

10 Current control, aimed at checking students' learning of educational material, is carried out by means of an oral survey, written testing and solving situational tasks.

10.1. Assessment of current educational activities. During the evaluation of the mastery of each topic for the current educational activity, the student is assigned a 4-point (national) grade. At the same time, all types of work provided for by the discipline program are taken into account. The student receives a grade for each topic for further conversion of grades into points on a multi-point (200-point) scale.

Independent work of students is evaluated during the current control of the topic in the corresponding lesson.

11 The form of the final control of study success - credit.

It is conducted on the basis of the results of the enrollment of all works in practical classes. The semester credit for the discipline is carried out after the end of its study, before the beginning of the examination session.

12 Scheme of accrual and distribution of points received by students:

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

The minimum number of points that a student must score for the current educational activity to enroll in the discipline 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 traditional scale during the study of the discipline during the semester, by calculating the arithmetic average, rounded to two decimal places. The obtained value is converted into points on a multi-point scale as follows:

$$x = \frac{\text{AA} \times 200}{5}$$

For convenience, a calculation table is given on a 200-point scale:

Recalculation of the average grade for the current activity into a multi-point scale for disciplines ending with credit

4-point scale	200-point scale	4-point scale	200-point scale	4-point scale	200-point scale	4-point scale	200-point scale
5	200	4.45	178	3.92	157	3.37	135
4.97	199	4.42	177	3.89	156	3.35	134
4.95	198	4.4	176	3.87	155	3.32	133
4.92	197	4.37	175	3.84	154	3.3	132
4.9	196	4.35	174	3.82	153	3.27	131
4.87	195	4.32	173	3.79	152	3.25	130
4.85	194	4.3	172	3.77	151	3.22	129
4.82	193	4.27	171	3.74	150	3.2	128
4.8	192	4.24	170	3.72	149	3.17	127
4.77	191	4.22	169	3.7	148	3.15	126
4.75	190	4.19	168	3.67	147	3.12	125
4.72	189	4.17	167	3.65	146	3.1	124
4.7	188	4.14	166	3.62	145	3.07	123
4.67	187	4.12	165	3.57	143	3.02	121
4.65	186	4.09	164	3.55	142	3	120

4.62	185		4.07	163		3.52	141		Less than 3	Not enough
4.6	184		4.04	162		3.5	140			
4.57	183		4.02	161		3.47	139			
4.52	181		3.99	160		3.45	138			
4.5	180		3.97	159		3.42	137			
4.47	179		3.94	158		3.4	136			

Points from the discipline are independently converted both to the ECTS scale and to the 4-point (national) scale. Points from the ECTS scale are not converted into a 4-point scale and vice versa.

Points of students studying in one specialty, taking into account the number of points scored in the discipline, are ranked on the ECTS scale as follows:

ECTS assessment	Statistical indicator
A	The best 10% of students
B	The next 25% of students
C	The next 30% of students
D	The next 25% of students
E	The last 10% of students

Ranking with the assignment of grades "A", "B", "C", "D", "E" is carried out for students of this course who are studying in one specialty and have successfully completed the study of the discipline. Students who receive grades of FX, F ("2") are not listed as ranked students. Students with an FX grade automatically receive an "E" grade after retaking.

Discipline points for students who have successfully completed the program are converted to a traditional 4-point scale according to the absolute criteria shown in the table below:

Points of discipline	Evaluation of a 4-point scale
From 170 to 200 points	5
From 140 to 169 points	4
From 139 points to the minimum number of points that the student must score	3
Below the minimum number of points that the student must score	2

The ECTS grade is not converted to the traditional scale, as the ECTS scale and the four-point scale are independent.

The objectivity of the evaluation of students' educational activity is checked by statistical methods (correlation coefficient between the ECTS grade and the grade on the national scale).

13 Methodological support
- Test questions on the topics of practical classes
- Test questions of the final module control
- List of theoretical questions for the final modular control
- Tasks for current control of knowledge
- Tasks for final control of knowledge
- List of tasks for independent work
- Study guide for practical classes
- Study guide for students' independent work

14 Recommended reading
The main
1. 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.

2. 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.

3. Code of ethics of a scientist of Ukraine. URL: https://www.znu.edu.ua/etychnyj-kodex-uchenogo-Ukrajiny.pdf.

4. 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/.

5. 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.

6. 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

7. 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.

8. 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.

9. 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.

10. Law of Ukraine "On Education". Article 42 "Academic integrity". URL: http://kodeksy.com.ua/pro_osvitu/statja-42.htm

Auxiliary

1. Avoiding Plagiarism, Self-plagiarism, and Other Questionable Writing Practices: A Guide to Ethical Writing. URL: https://ori.hhs.gov/avoiding-plagiarism-self-plagia- rism-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/con-duct/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 defi- nition of plagiarism that transcends theft, fraud, and copyright. 4th Asia Pacific Confer- ence on Educational Integrity (4APCEI). 28–30 September 2009, University of Wol- longong NSW Australia, - 2010, p.1-4. URL: https://www.bmartin.cc/pubs/09-4ap- cei/4apcei-Fishman.pdf

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

15. Information resources

- Legislation of Ukraine. Electronic resource: zakon.rada.gov.ua/
- Medical legislation of Ukraine. Electronic resource: http://mozdocs.kiev.ua/
- Statistical data of Ukraine. Electronic resource: http://www.ukrstat.gov.ua/
- Statistical data of the Lviv region. Electronic resource: https://www.lv.ukrstat.gov.ua/
- Public Health Center of the Ministry of Health of Ukraine https://phc.org.ua/
- Ukrainian database of medical and statistical information "Health for all": http://medstat.gov.ua/ukr/news.html?id=203
- World Health Organization www.who.int
- WHO European Regional Office www.euro.who.int/ru/home
- Cochrane Center for Evidence-Based Medicine www.cebm.net
- Cochrane Library www.cochrane.org
- US National Library of Medicine - MEDLINE PubMed www.ncbi.nlm.nih.gov/PubMed
- Canadian Center for Evidence in Health www.cche.net
- Center for Disease Control and Prevention www.cdc.gov