

## CHAPTER 2

# INNOVATIONS IN THE MANAGEMENT OF EDUCATIONAL INSTITUTIONS

## IMPLEMENTATION OF THE PRINCIPLES OF ACADEMIC INTEGRITY IN THE EDUCATIONAL AND SCIENTIFIC ENVIRONMENT OF THE KYIV NATIONAL UNIVERSITY OF TECHNOLOGY AND DESIGN

**Olena Roik<sup>1</sup>, Galina Kuzmina<sup>2</sup>**

<sup>1</sup>Ph.D. of Pharmacy Sciences, Associate professor of the Department of Industrial Pharmacy, Kyiv National University of Technologies and Design, Kyiv, Ukraine, e-mail: alena\_08@ukr.net, ORCID: <https://orcid.org/0000-0002-5988-6577>

<sup>2</sup>Ph.D. of Chemistry Sciences, Associate professor of the Department of Industrial Pharmacy, Kyiv National University of Technologies and Design, Kyiv, Ukraine, e-mail: kpf@knutd.edu.ua, ORCID: <https://orcid.org/0000-0002-0691-8563>

### **Citation:**

Roik, O., & Kuzmina, G. (2023). IMPLEMENTATION OF THE PRINCIPLES OF ACADEMIC INTEGRITY IN THE EDUCATIONAL AND SCIENTIFIC ENVIRONMENT OF THE KYIV NATIONAL UNIVERSITY OF TECHNOLOGY AND DESIGN. *Pedagogy and Education Management Review*, (4), 20–25. <https://doi.org/10.36690/2733-2039-2023-4-20-25>

**Received: August 16, 2023**

**Approved: November 29, 2023**

**Published: December 30, 2023**



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**Abstract.** Implementation of the principles of academic integrity in the educational and scientific environment of the Kyiv National University of Technology and Design (KNUTD) requires a comprehensive approach, which involves clear methodological recommendations, educational programs and institutional support. KNUTD strives to develop a culture of academic integrity, ensuring that students, teachers and researchers adhere to ethical standards in their educational and scientific activities. This involves preventing plagiarism, promoting honest research methods and fostering a sense of responsibility and integrity in the academic community. The purpose of this article is to provide an example, improve practical approaches, generalize and popularize the system of implementation of the provisions of academic integrity that promote academic integrity among higher education students, postgraduate students, and academic staff of the Kyiv National University of Technology and Design. The main task of the research is to create an environment where academic integrity is valued, understood, and practiced by all members of the university community by enhancing the quality of education, research, and scholarship while maintaining the highest ethical standards. The research methodology consists in the study of normative documents of Ukraine and internal regulations of KNUTD on issues of academic integrity. The main directions for achieving the set goal should be: policy development (development of a clear policy of academic integrity and codes of conduct that define plagiarism, plagiarism and other forms of academic misconduct, outline the consequences for violations and ensure a fair and transparent disciplinary process); educational programs (Integrating academic integrity into the educational process, including modules on proper citation, research ethics, and the consequences of academic misconduct); technological integration (implementation of plagiarism detection tools to detect and prevent plagiarism in academic tasks and research papers); institutional support (establishment of an academic integrity office or committee to oversee policy implementation and review reported cases); ongoing evaluation (regular evaluation of the effectiveness of academic integrity programs through surveys, feedback mechanisms, and case studies).

**Keywords:** academic integrity; educational process; plagiarism; research; teaching; participants of the educational process.

**JEL Classification:** I 23, I 29

**Formulas:** 0; **fig.:** 0; **tabl.:** 0; **bibl.:** 5

**Introduction.** One of the important conditions for the successful development of higher education in Ukraine, in particular in the training of future pharmacists, process engineers, chemists, analytical chemists, research engineers, designers of the Kyiv National University of Technology and Design (hereinafter - KNUTD) is the implementation and observance of the principles and foundations of academic integrity in the educational process, scientific activities of higher education students, postgraduate students, research and teaching staff of the higher education institution.

**Literature review.** On September 28, 2017, the Law of Ukraine "On Education" No. 2145-III dated September 05, 2017 came into force. In accordance with Article 6 of the Law of Ukraine "On Education", academic integrity is one of the principles of state policy in the field of education and the principles of educational activity.

Article 42 of the Law of Ukraine "On Education" defines academic integrity as a set of ethical principles and rules established by law that should guide participants in the educational process during learning, teaching and conducting scientific (creative) activities in order to ensure confidence in learning outcomes and/or scientific (creative) achievements.

**Aims.** The purpose of this article is to provide an example, improve practical approaches, generalize and popularize the system of implementation of the provisions of academic integrity that promote academic integrity among higher education students, postgraduate students, and academic staff of the Kyiv National University of Technology and Design.

**Methodology.** The main task of the research is to create an environment where academic integrity is valued, understood, and practiced by all members of the university community by enhancing the quality of education, research, and scholarship while maintaining the highest ethical standards. The research methodology consists in the study of normative documents of Ukraine and internal regulations of KNUTD on issues of academic integrity.

**Results.** Academic integrity at KNUTD is regulated by the Code of Academic Integrity of the Kyiv National University of Technology and Design (2021). The purpose of this Code of Academic Integrity of KNUTD is: to form a high academic culture, the carriers of which are scientific, scientific-pedagogical and pedagogical workers and higher education students; to establish ethical values in the educational process and scientific activities of KNUTD; to improve the image of the University; to prevent violations of academic integrity.

In order to counteract the spread of academic dishonesty in scientific and practical activities, the University takes measures to maintain high professional and ethical standards in all areas of the University's activities: educational, scientific, scientific and technical, artistic and innovative.

In order to prevent and detect academic plagiarism, KNUTD checks academic texts (dissertations for academic degrees; articles for university scientific publications, master's theses, etc.)

Academic integrity is promoted through the KNUTD's internal quality assurance system and systematic outreach. Postgraduate students enrolled in the educational and

research program are familiarized with the Code of Academic Integrity at KNUTD on a mandatory basis.

According to the Code of Academic Integrity of the Kyiv National University of Technology and Design, a violation of academic integrity is considered to be:

academic plagiarism- publishing (in part or in full) scientific (creative) results obtained by other persons as the results of one's own research (creativity) and/or reproducing published texts (published works of art) of other authors without attribution;

self-plagiarism publishing (in part or in full) one's own previously published scientific results as new scientific results;

fabrication is the invention of data or facts used in the educational process or research;

falsification is a deliberate change or modification of existing data related to the educational process or research;

cheating is the performance of written work with the involvement of external sources of information other than those permitted for use, in particular in the assessment of learning outcomes;

deception providing deliberately false information about one's own educational (scientific, creative) activities or the organisation of the educational process;

forms of cheating are, in particular, academic plagiarism, self-plagiarism, fabrication, falsification and cheating;

bribery is the provision (receipt) by a participant in the educational process or an offer to provide (receive) funds, property, services, benefits or any other benefits of a material or non-material nature in order to obtain an undue advantage in the educational process;

biased assessment is a deliberate overestimation or understatement of the results of education of students.

For violation of academic integrity, pedagogical, research and teaching staff of the University may be held academically liable for the following

- refusal to award a degree or confer an academic title;
- deprivation of the awarded academic (educational and creative) degree or academic title;
- refusal to confer or deprivation of a pedagogical title or qualification category;
- deprivation of the right to participate in the work of statutory bodies or to hold statutory positions.

According to the Code of Academic Integrity, KNUTD higher education students may be held academically liable for violations of academic integrity:

- repeated assessment (test, exam, test, etc.);
- repeating the relevant educational component of the study programme;
- expulsion from the University;
- deprivation of an academic scholarship;
- deprivation of tuition fee benefits provided by the University.

According to the KNUTD Code of Academic Integrity, any person in respect of whom a violation of academic integrity has been raised may appeal the decision to

bring to academic responsibility to the body authorised to consider appeals or to the court.

At the university, every student or lecturer can get acquainted with the norms of the KNUTD Code of Academic Integrity, which is posted on the official KNUTD website in the "Access to Public Information" tab.

Research, scientific, pedagogical, and teaching staff must read the Code of Academic Integrity and sign the relevant document to confirm this. The job description of each lecturer contains provisions that provide for compliance with academic integrity in the educational process and scientific (creative) activity and ensure its observance by higher education students.

Enrolled higher education students of the University are obliged to sign the Code of Academic Integrity at KNUTD.

The university has a mandatory plagiarism check for diploma theses, dissertations, and scientific articles. KNUTD uses Antiplagiarism.lnk, a text uniqueness checker, the basic content of which is linked to the library's catalogue of full-text publications and is updated with each new work; KNUTD also checks scientific papers for signs of plagiarism using the Unicheck online service, which is already successfully used by more than 120 Ukrainian universities and 1.5 million users worldwide.

The university publishes 5 scientific journals. All articles are checked for signs of plagiarism using the Unicheck online service. The journal's editorial board analyses any case of plagiarism on its merits. If plagiarism or textual borrowings are detected by editors or reviewers at any stage before the manuscript is published, the author(s) are warned of the need to rewrite the text or make a reference to the original source. If the plagiarism is at least 25%, the article may be rejected, and the author will be immediately informed.

Also, an anonymous survey is conducted among teachers and students on the functioning of the principles of academic integrity. The results of the survey indicate the expediency of communication between teachers and students to discuss issues of academic integrity and students' awareness of responsibility as a result of plagiarism in their papers.

The university has a university-wide practice of involving students in the development of the educational programme, introducing a student survey to assess the quality of the educational process, which contains questions on the specifics of the study. The questionnaire consists of three blocks. Block 1. "Disciplines in the eyes of students of the educational programme" Block 2. "Research practice in the eyes of students of the educational programme" and block 3 "Undergraduate practice in the eyes of students". The processed results of the survey are posted on the official website of KNUT in the form of an analytical report of the survey results.

Kyiv National University of Technology and Design uses MES (Modular Educational Environment) to ensure the effectiveness of learning, a web service that allows authorised users of the university to publish, store in a systematic way, search and use EER (electronic educational resources) of the university's disciplines. The IUCN KNUTD contains teaching and learning resources (T&L) for the disciplines,

including: syllabus, work programme, lecture notes, guidelines for laboratory work, practical and seminar classes, guidelines for coursework (projects), independent work of students, questions for final knowledge control, etc.

The institution offers a compulsory course in Academic Writing and Integrity for 1st year students. Module content: total number of hours - 180, of which: lectures - 12 hours, seminars - 24 hours, student's independent work - 144 hours; ECTS credits - 6. The content of the discipline consists of 6 topics. Topic 1: The concept of academic culture and academic integrity. Topic 2. The concept of copyright. Rules for the use of intellectual property. Topic 3. Plagiarism. Methods of detection and prevention. Topic 4. Scientific style and its means in professional communication. Topic 5. Academic text as a system. Topic 6. Logical and syntactic aspects and culture of scientific text formatting. The means of diagnosing learning progress are individual assignments, presentations, exercises, questions for current and final control, tests.

On 24 February 2023, Ihor Ponomarenko, Head of the Centre for Educational Quality Management, gave a lecture on Academic Integrity for applicants of the first (bachelor's), second (master's) and third (educational and scientific) levels of higher education, as well as teachers of the Faculty of Design of KNUTD. The lecturer introduced the students to the ethical principles and statutory rules that should guide the participants of the educational process during learning, teaching and research and development activities in order to ensure confidence in learning outcomes and research and development achievements. He also informed about the main legislative acts on which the Code of Academic Integrity of the Kyiv National University of Technology and Design is based, which regulates the application of general principles and rules of scientific ethics, establishes moral principles and general ethical norms in relations between representatives of the university community.

In 2020, KNUTD became a member of the Academic Integrity and Quality Initiative project. The project is implemented by the American Councils for International Education, with the support of the US Embassy in Ukraine, the Ministry of Education and Science, and the National Agency for Higher Education Quality Assurance. Academic staff of the University participate in the international research internship program "Academic Integrity". The purpose of the internship is to familiarize themselves with European approaches to the issue of scientific plagiarism and to promote academic integrity, as well as to improve the qualifications of educators and deepen cooperation in the academic and scientific field between Ukraine and Poland.

Thus, academic integrity is one of the elements of the reputation of a higher education institution and has become the norm of everyday academic life in the scientific community. KNUTD promotes academic integrity and uses appropriate technological solutions as tools to counteract violations of academic integrity.

**Discussion.** The main directions for achieving the set goal should be: policy development (development of a clear policy of academic integrity and codes of conduct that define plagiarism, plagiarism and other forms of academic misconduct, outline the consequences for violations and ensure a fair and transparent disciplinary

process); educational programs (Integrating academic integrity into the educational process, including modules on proper citation, research ethics, and the consequences of academic misconduct); technological integration (implementation of plagiarism detection tools to detect and prevent plagiarism in academic tasks and research papers); institutional support (establishment of an academic integrity office or committee to oversee policy implementation and review reported cases); ongoing evaluation (regular evaluation of the effectiveness of academic integrity programs through surveys, feedback mechanisms, and case studies).

Implementation of changes to the policy of KNUTD on issues of academic integrity will allow to obtain the following expected results:

- cultural shift - a shift in university culture to one that values and prioritizes academic integrity;

- reduced academic misconduct - reduction in cases of plagiarism, fraud and other forms of academic misconduct;

- improved learning environment - an improved learning and research environment where students and teachers can trust the integrity of academic work;

- ethics researchers - graduates and researchers who carry a strong sense of academic ethics in their professional career;

- positive reputation - improved reputation of KNUTD as an institution striving for academic excellence and integrity.

**Conclusions.** By implementing these measures, KNUTD can create a foundation for academic integrity that supports the educational and scientific mission of the university. Regular policy evaluation and adaptation will be critical to ensure the continued success of these initiatives.

**Author contributions.** The authors contributed equally.

**Disclosure statement.** The authors do not have any conflict of interest.

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