

## Information security in information-communication technologies

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**Abstract:** This in the article humanity in the development of the 20th century second half and the 21st century at the beginning ongoing global processes all social relationship in the system information and communication technologies intense at a pace development , today world in the field information primary to the factor in the cycle information, information technologies, information safety about concepts given.

**Keywords:** information, information technologies, information security, development, information safety conceptual model

The global processes taking place in the development of humanity in the second half of the 20th century and the beginning of the 21st century are determined by the rapid development of information and communication technologies in the system of all social relations. Therefore, information has become a primary factor in the world today.

The concept of "information" has a broad meaning. The dictionary of foreign words defines it as: "Information - (lat.) to be aware of; information that informs about a situation or someone's activities <sup>1</sup>." According to the explanations in the sources, information is:

- information about persons, objects, facts, events, phenomena and processes, regardless of their source and form of presentation.
- is considered an act aimed at conveying information or obtaining information.

Initially, information was understood as the process by which people communicate and exchange information, but today, with the emergence of new means of communication, new aspects of information have emerged. As a result, information has now begun to acquire its own meaning and importance, depending on the field in which it is used.

Definitions of information security are diverse, and so are approaches to it. Some scholars understand information security as "activities related to identifying, preventing, repelling and eliminating threats to people, society, the state and the world community that pose risks, deprive them of material and spiritual wealth, and impede progressive development."<sup>2</sup> Others define information security as the formation of an information environment that meets the interests of the state, protecting its use and development opportunities, regardless of internal and external risks and threats in the information sphere <sup>3</sup>.

In connection with the mass transition to modern information technologies in management and the introduction of paperless technology, the problem of ensuring information security in personnel management is becoming increasingly complex. The organizational, technical and technological challenges of this process are being significantly updated and expanded.

When it comes to information security of an organization, it is often understood as the protection of computer information systems. Such a definition somewhat narrows the essence of

<sup>1</sup>Slovar inostrannyx slov / gl.r ed . F.N. Petrov . - M.: OGIZ Gos. International and national dictionaries, 1941. - S. 261

<sup>2</sup>[http://www.kavkazonline.ru/csrp/elibrary/uro/v14/a14\\_10.htm](http://www.kavkazonline.ru/csrp/elibrary/uro/v14/a14_10.htm)

<sup>3</sup><http://www.bookler.ru.booksbn/5-9512-0396-1.shtml>

this concept and, of course, does not reveal its global significance in modern management. If earlier, information encroachment within the organization meant the theft or copying of important documents and information, now there are increasing actions such as the illegal use of databases for material gain, personal gain, and obtaining information without the consent of the information owner.

When it comes to information security in personnel management, it is first necessary to identify the sources of security threats, methods of their implementation, goals, and other conditions that encourage such security violations. This is clearly reflected in the conceptual model of information security presented below: <sup>4</sup> the methods of accessing information, protection areas - organizational, legal, technical, protection means - physical, hardware, software, cryptographic, protection methods - prevention, blocking, elimination, countermeasure, Information sources - people, documents, publications, technical carriers, technical means, products, purpose of disclosure - acquaintance, modification, destruction, threat sources - competitors, corruptors, criminals, employees, threat - integrity, confidentiality, completeness, authorization.

All illegal actions taken against information ultimately violate its confidentiality, completeness, reliability and accessibility. This, in turn, leads to a violation of the information management regime in the organization, as well as to its completeness and reliability. Most dangerously, these aspects negatively affect the stability of the organization.

### References

1. Mirzakarimova M. EFFECTIVENESS OF STUDENTS'ENTREPRENEURIAL SKILLS DEVELOPMENT THROUGH CLIL TECHNOLOGIES //Академические исследования в современной науке. – 2023. – Т. 2. – №. 8. – С. 92-94.
2. Mirzakarimova M. M. The Necessity to Develop Students' Entrepreneurial Skills in English Classes //Telematique. – 2022. – С. 7128-7131.
3. Мирзакаримова М. М. ESSENTIAL COMPOSITION OF ENTREPRENEURSHIP FUNCTIONAL LITERACY //INTERNATIONAL SCIENTIFIC AND TECHNICAL JOURNAL "INNOVATION TECHNICAL AND TECHNOLOGY. – 2020. – Т. 1. – №. 1. – С. 63-65.
4. Мирзакаримова М. М. Замонавий шароитларда умумтаълим фанларини тадбиркорликка йўналтириб ўқитиш тизими //Science and Education. – 2020. – Т. 1. – №. 4. – С. 216-222.
5. Madaminjonovna M. M. Innovative Methods and Tools for Developing Students' Entrepreneurial Skills Using CLIL Technologies //International Journal of Human Computing Studies. – 2023. – Т. 5. – №. 3. – С. 15-17.
6. Мирзакаримова М. М. Умумтаълим фанларини тадбиркорликка йўналтириб ўқитиш тизими //Science and Education. – 2020. – Т. 1. – №. 4. – С. 97-103.
7. Mirzakarimova M. CLIL TEXNOLOGIYALARI VOSITASIDA O 'QUVCHILARNING TADBIRKORLIK KO 'NIKMALARINI RIVOJLANTIRISHDA INNOVATSION METOD VA VOSITALAR //Namangan davlat universiteti Ilmiy axborotnomasi. – 2023. – №. 6. – С. 410-415.
8. МИРЗАКАРИМОВА М. М. ХОРИЖИЙ ТИЛЛАРНИ ТАДБИРКОРЛИККА ЙЎНАЛТИРИБ ЎҚИТИШНИНГ ДИДАКТИК АСОСЛАРИ. – 2022.
9. Mirzakarimova M. M. et al. Scientific and pedagogical activity of Imam al-Bukhari //Science and Education. – 2023. – Т. 4. – №. 12. – С. 321-324.

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<sup>4</sup>Karimov.I.M. etc. Information security. Text of reports. T.: "Science and technology". 2013 p. 12.

10. Mirzakarimova M. M., Uzoqjonova M. D. Q. O'zbekistonda chiqindilarni qayta ishlash muammolarini o'rganish va bartaraf qilish //Science and Education. – 2023. – T. 4. – №. 11. – C. 78-83.
11. Mirzakarimova M. M. et al. Pedagogik mahoratning shakllanishi va rivojlanishi //Science and Education. – 2024. – T. 5. – №. 3. – C. 264-269.
12. Mirzakarimova M. M. et al. "Avesto" va pedagogik fikrlar rivoji //Science and Education. – 2024. – T. 5. – №. 2. – C. 224-228.
13. Zamonaviy sharoitlarda umumta'lim M. M. M. fanlarini tadbirkorlikka yo 'naltirib o 'qitish tizimi //Science and Education. – 2020. – T. 1. – №. 4. – C. 216-222.
14. Mirzakarimova M. M. et al. O 'qituvchining muomala madaniyati //Science and Education. – 2024. – T. 5. – №. 4. – C. 278-282.
15. MADAMINJONOVNA M. M. XORIJIY TILLARNI TADBIRKORLIKKA YO 'NALTIRIB O 'QITISHNING DIDAKTIK ASOSLARI //Nova. Pub. – 2022. – C. 1-128.
16. Madaminjonovna M. M. Umumta'lim fanlarini tadbirkorlikka yo 'naltirib o 'qitish tizimi //Science and Education. – 2020. – T. 1. – №. 4. – C. 97-103.
17. Madaminjonovna M. M. et al. ECOLOGICAL-VALEOLOGICAL CULTURE IN THE" MAN-NATURE-SOCIETY" SYSTEM //Web of Teachers: Inderscience Research. – 2024. – T. 2. – №. 5. – C. 51-55.
18. Madaminjonovna M. M. K. L. METHODOLOGY OF EDUCATIONAL TEACHING OF GENERAL SCIENCES.
19. Yegeubayeva, S. , Karimberdievna, A. F. , Kunakbayev, A. , Sherzod, R. , Munojat, B. , Guzal Faxritdinovna, S. , Omonov, B. , Khakimboy ugli, B. O. , Makhliyokhon, M. , Anvarjon, K. , Sapaev, I. , Azamovna, M. M. and Makhamadovich, K. R. (2024). The Effect of Copper Oxide Nanoparticles on Hepatic and Renal Toxicity in Domestic Rabbits. Journal of Nanostructures, 14(1), 150-155. doi: 10.22052/JNS.2024.01.015
20. Умнов Д. Г., Кариев А. Д., Тешабоев А. Ю., Мирзакаримова М. М. Формирование финансовой грамотности и культуры потребления у старших дошкольников // Перспективы науки и образования. 2024. № 6 (72). С. 420–436. doi: 10.32744/pse.2024.6.26
21. Mirzakarimova M., Uzoqjonova M. EKOLOGIK TA'LIM-TARBIYANI TAKOMILASHTIRISH OMILLARI //Farg'ona davlat universiteti. – 2024. – №. 3. – C. 42-42.
22. н Tojiboyev, M. U., & Uzoqjonova, M. D. qizi. (2023). Farg'ona vodiysida tarqalgan ruderal shifobaxsh o'simliklar, ularning tarqalishi va ahamiyati. Science and Education, 4(8), 101–107. Retrieved from <https://www.openscience.uz/index.php/sciedu/article/view/6222>.
23. Uzoqjonova, M. (2023). Tabiiy fanlarni o'qitishda STEAM ta'limi tizimi. Science and Education, 4(9), 344–347. Retrieved from <https://www.openscience.uz/index.php/sciedu/article/view/6297>.
24. Uzoqjonova, M. D. qizi. (2023). Inson salomatligida dorivor o'simliklarning xususiyatlari. Science and Education, 4(7), 38–42. Retrieved from <https://www.openscience.uz/index.php/sciedu/article/view/6136>.
25. Uzokjonova, M. (2023). STEAM technology and the importance of gamification in it. Science and Education, 4(10), 365–368. Retrieved from <https://www.openscience.uz/index.php/sciedu/article/view/6361>.
26. Uzoqjonova, M. D. qizi. (2024). Baliqlar va ularning ekologik ahamiyati. Science and Education, 5(1), 13–17. Retrieved from <https://openscience.uz/index.php/sciedu/article/view/6556>.



27. Uzoqjonova, M. (2024). EKOLOGIK MA'DANIYATNI YOSHLAR ONGIGA PEDAGOGIK METODLAR YORDAMIDA SINGDIRISH. Universal Xalqaro Ilmiy Jurnal, 1(4), 99–100. Retrieved from <https://universaljurnal.uz/index.php/jurnal/article/view/72>.