

Subject of the final qualifying work: Protection of trade secret on the example of the Integrated security management of Pyatigorsk State University.

Full name of the author: Andrei Y. Sysoev

Full name of the academic adviser: V.A. Ryndyuk PhD, associate professor of Information Technology, Mathematics and Distance Learning Department.

Information on the contracting authority: Pyatigorsk State University, Kalinin Avenue 9, Pyatigorsk, Stavropol region.

Relevance of the research issue: The majority of modern organizations are engaged in processing information within the internal information system, which means there will always be those who are trying to take possession of the protected information through unauthorized access. This is the reason for the need and relevance of information security in each organization.

The purpose of the final qualifying work is to develop recommendations for the protection of trade secrets in the Pyatigorsk State University.

Within the framework of this purpose, the following **objectives** are solved in the study:

- Introduction to the purpose and activities of the educational institution;
- Analysis of the information security system of the integrated security management of Pyatigorsk State University.
- Assessment of the quality of the information security system of an educational institution;
- Development of recommendations for the protection of trade secrets in the Pyatigorsk State University.

The theoretical significance of the research lies in the analysis of legal acts (both of national importance and the institution's internal documents) for the protection of trade secrets, modern scientific literature on the subject, research and analysis of information security issues in this institution, and research of the information security market.

The practical significance of the research lies in the fact that the recommendations formulated on the basis of the research can be applied in practice to improve the information security system of Pyatigorsk State University and, in particular, to protect trade secrets in the institution.

Results of the research: After analyzing the existing approaches to information security in the Pyatigorsk State University, we take note of the importance of enhancing the protection of private information (including trade secrets) in the institution.

Recommendations: In order to organize the protection of private commercially significant information in the PSU department, we suggest introducing the following list of protective tools:

1. Install a hardware module of the trusted boot on the computers of employees, which is a tool for unauthorized access.
2. Install Infowatch Endpoint Security DLP Systems. With the help of this system, staff members will be provided with access to information to additional devices, tracking of work with unwanted applications, and keeping a log of unwanted actions.
3. Provide protection of the department premise: install a digital video surveillance camera at the entrance to the department; front doors of the department should be replaced by noise insulating fire doors “LINE DOORS” EL 60 model 709; replace wooden cabinets for confidential information with metal archive cabinets with latch locks EURO LOCK with multiple cipher combinations.

In this way, we will provide secure storage, processing and transfer of private information of commercial significance.