

## ***SUMMARY***

This Dissertation entitled *Security of the Information System of a Public Organization on the example of a higher education institution* was aimed at evaluating the information system operating in a higher education institution. Nowadays, the society is being directed to transformations related to the use of digital technologies. The security of the information system was verified, taking into account the specifics of an organization such as a public university. The research was carried out on the internal user environment, which is characterized by a diverse structure aimed at the activities of the unit related to students' education, staff employment and scientific activities.

The main motive for writing the dissertation was the lack of an evaluation of the security of the information system in a higher education institution, which would comprehensively indicate the sources of threats and outline the directions, ways to implement changes in the studied area. Because of the new cognitive horizons resulting from the author's reflections using the literature on the subject and empirical material, and because of the attempt to show the concept of change in the area of information system security, the dissertation fits into the security sciences.

The dissertation extensively discusses threats to the security of the information system, which are currently not fully recognized, as well as the extent of their harmful effects cannot be predicted. In the academic community, as well as among the general public, there is a low awareness of the nature of information system security threats. The opportunity to get to know the academic community from the inside allowed the author to define the problem areas that contributed to the assessment of the level of information system security at the university. The structure of the dissertation includes two parts namely, the theoretical part and the empirical part.

The dissertation consists of an introduction, four chapters, a conclusion, a bibliography, an index of figures, an index of tables, and appendices such as, a survey questionnaire, an expert interview questionnaire with a report, and an observation sheet. In order to verify the stated hypotheses, Pearson's linear correlation coefficient and coefficient of determination were calculated in the second, third, fourth chapters.

In the first chapter, titled *Methodology of own research*, issues relating to the object and purpose of the research were addressed. The research problem, working hypotheses and specific hypotheses are indicated. Empirical and theoretical methods, techniques and research tools are discussed. The paper presents the area and field of study, as well as characterizes the research

sample. The main research problem was also formulated, which states: *What changes should be made in the security of the information system in a higher education institution to improve the effectiveness of information protection?* To the adopted dissertation objective and research problems on the basis of the state of existing knowledge as well as the studied literature analysis, the main hypothesis was formulated: *It was assumed that the current information system in a public organization on the example of a higher education institution does not fully protect information.*

The second chapter entitled *Information system security* with theoretical and legal context was devoted to information system security. The signification of information, information security systems in terms of organizations and the state was discussed. In the legal aspect, on the other hand, the applicable normative acts with the applicable rules and standards were introduced. A diagnosis of the information system functioning in the university was also presented.

The third chapter, titled *Threats to the Security of the Information System*, is devoted to threats to the security of the information system. The strategy and aspects of the security system were discussed. The standards and norms of information system security in force in the higher education institution were presented. A characteristics of information system security threats occurring in a higher education institution, resulting from the multiplicity of users and the specifics of its operation, was made.

In the fourth chapter, entitled *Concept of information system security*, a concept of information system security directed at new directions of change was developed. Its purpose will be to improve the security of the information system on the example of a higher education institution. The changes covered are related to the principles of organizational functioning, the security of the information system of a higher education institution.

Each chapter has a conclusion, which is the result of verification of the adopted hypotheses and the research problem. The dissertation is ended with appendices, i.e. survey questionnaires for the group of academic teachers, the group of administrative staff and the group of students (various majors). This is a presentation of the collected empirical material in terms of quantitative and percentages. The appendices include a questionnaire with an expert research report and a direct observation sheet. The dissertation sufficiently exhausts the issue of information system security in a higher education institution, which is supported by the analysis of literature, empirical material and the case.