

**Theme of graduate qualification work:** “Development of video surveillance system for the office of “Dens”, LLC., Kislovodsk, with monitoring system based on the Internet

**Author of GQW:** Gorbakov Akraman Akhmetovich

**Supervisor of GQW:** Makarov Anatoly Mikhailovich

**Information about the contracting authority:** “DENS”, LLC., Kislovodsk

**Relevance of the research topic:** Issues, related to the information security, have recently become significantly relevant. The widespread use of video surveillance based on cloud technology, better known as remote video surveillance, has attracted the attention of information security experts.

Ensuring the security of remote video surveillance is relevant as, in this kind of surveillance, information is easily accessible using the usual Internet within the network coverage.

**The work objective** is to apply the theoretical knowledge in use and develop professional skills in information security of remote surveillance in general and especially in pre-diploma practice.

**Tasks:**

- to familiarize with the purpose and activities of the organization and evaluate its technical maintenance related to information security;
- to study information and communication, technical and software protection of information of the object of study;
- to study mathematical models and means of protecting confidential information in cloud service technology;
- to improve information and communication and technical support to protect information within the organization.

**Theoretical and practical significance of the research**

The theoretical significance of this research is as follows:

- regulatory and legislative documents in the field of information security are analyzed;
- special literature was analyzed and the market of software and hardware products in the field of information security was researched;
- information protection systems functioning on the object of study, as well as program and technical means of information protection were studied;
- issues and shortcomings in the system of comprehensive information protection at the enterprise were identified.

The practical significance of the results:

- the system of remote video surveillance, built on the basis of the Internet, was analyzed and investigated.

**The results** of the study are defined; proposals for improving the information security system within the framework of the organization DENS LLC are described.

**Recommendations** are advisable to use the developed video surveillance system based on Rostelecom software in small offices for 3-10 cameras, since the cost of communication channels consists of the cost of the Internet used in these offices.