## Annotation

In this thesis presents a Li-Fi wireless network model. Prerequisites for writing a project are determining the noise immunity of local wireless optical local area networks based on visible LEDs.

In the main part, analyzes the development of wireless optical transmission of digital data, provides general information about Li-Fi technology, applications, characteristics, calculated network parameters.

The section "Life Safety" discusses safety factors and the impact of the lighting system on the human body. In the economic section, a business project was prepared and the main costs for the development of this business project were considered. The technical and economic indicators of the project are presented.