

**Abstract**

In this diploma project the organization of the GPON network in the district SDPS Almaty region. The characteristic village of Otegen-Batyr, describes the basic concepts and characteristics of GPON technology, the scheme of the projected area, the equipment described, performed the necessary calculations.

In the section "Safety" calculation of natural and artificial lights and air conditioning.

In the economic part of the calculation of the capital investments and operating expenses, determined the payback period of this project.