

## **Annotation**

The diploma program is dedicated to the design and development of digital inclinometers. This device is used to adjust the inclination of construction structures, bridges, buildings, objects, etc. Digital inclinometers are versatile tools for a variety of tasks, from geotechnical surveys to building model airplanes. These devices measure tilt or tilt angles relative to a reference point and can be used to measure vertical or horizontal angles using sensors that respond to changes in light or darkness. The latest digital inclinometers use MEMS technology, which stands for micro-electromechanical sensors, while accelerometers use tilt sensors.