

## ABSTRACT

Bachelor's thesis project on "Automated axle weighing system for Vehicles." The project consists of an introduction, two chapters, conclusions, a list of references, and appendices. The project comprises 61 pages, 3 tables, 44 figures, a list of 11 cited sources, and 2 appendices.

The aim of the project is to develop platform-based vehicle scales and enable axle weighing on them. The first chapter provides an overview and analysis of existing vehicle scales and load cells.

The second chapter presents the design principles and electrical schematics, metrological characteristics calculations, and the development of the structure for the load cell and platform scales.

**Keywords:** axle weighing, vehicle scales, load cell.