

## **Abstract**

The following bachelor's thesis deals with the issue of the relationship between idiopathic scoliosis and defective position of the lower limbs and feet. At first, the thesis analyses the theoretical side of the problem – biomechanics and kinesiology of the spine and lower limbs, classification of scoliosis and different types, postural stability, gait. In the following chapter, the thesis focuses on the issue from a practical side of view, which includes an examination of patients from different views, from behind, from the side, from the front and on a podoscope (physiosensing), which measures the static and dynamic load of the feet. As part of the examination, various asymmetries of the spine and lower limbs are investigated in connection with idiopathic scoliosis. The results of all the measurements of the patients are in the final chapter compared to each other and subsequently, in the discussion part, with results examined by different studies dealing with the same issues. We try to find out if their results match with ours. The goal of this bachelor's thesis is to find out, what impact have spine curvatures on the posture of the pelvis, lower limbs, feet and also the other way around. We are also proving the mutual connection between individual body segments which together make up one complex unit.

## **Keywords**

Idiopathic scoliosis, pelvis, lower limbs, feet, postural stability, podoscope