

## **Abstract**

**Title:** Basic anthropometric characteristics of 400 m and 800 m runners.

**Student:** Bc. Vendulka Praská

**Supervisor:** PaedDr. Jitka Vindušková, CSc.

**Objectives:** The main objective of this dissertation is comparison of anthropometric characteristics of 400m and 800m runners. Another objective is analysis of relation between somatometric parameters and physical performance of 400m and 800m runners.

**Methods:** In this thesis was used comparison method of athletes' body characteristics using graphs and correlations of anthropometric characteristics with physical performance.

**Results:** We found, that average body height and weight of 400m run athletes is 1,84 m and 73 kg for men and 1,70 m and 60 kg for women. Average body height and weight of 800m run athletes is 1,77 m and 65 kg for men and 1,66 m and 53 kg for women. Furthermore we found by using statistical calculations that there is a direct relation between body height, weight and physical performance.

**Keywords:** athletics, anthropometric characteristics, 400 m run, 800 m run