

## **Abstract**

- Title:** Wheel size selection preferences in recreational and active cyclists
- Goals:** The goal of the thesis is to find relation between anthropometric and training indicators and selection of bicycle wheel size.
- Methods:** The work is a descriptive study of a sample of randomly picked men and women. The research sample consisted of 250 respondents of the age range 13 – 77, with 106 women and 144 men. The research has been carried out in the form of semi structured website survey. The data have been categorized and analysed using basic statistical methods and the results were interpreted in the charts by the frequency of answers.
- Results:** By analysing the survey results we have found the existing relation between the used wheel size and anthropometric and training indicators. With the growing height and weight of the respondents, the tendency to use 29” wheel size increases, as mentioned 81 respondents in height range 160-199 cm. The research has also shown that older riders use their bikes primarily to the cycling tours and that with the smaller wheel size. The size 29” use only eighteen respondents of the age range 40 – 77. The comparison of training indicators with the used wheel size has proven direct relation between effortfulness of the surface and used wheel size, when 2500 km and more will be driven by 13 riders on 26”, fourteen on 27,5”, 28 respondents on 28” and 37 on the 29” wheel size in the season.
- Conclusion:** According to our research anthropometric indicators of the height and weight of the rider influence picking the wheel size. With the age of cyclist, the size of the selected wheel size increases until approximately the age of forty, then it gradually decreases. Training indicators unambiguously influence picking the wheel size. More active riders placing emphasis on the performance part of cycling will opt for greater wheel sizes.
- Keywords:** cycling tours, wheel size, riding technique, bicycle types