

## **Abstract**

**Title:** Analysis of material equipment of elite MTBO competitors

**Objectives:** The aim of this work is to analyse the material equipment of elite MTBO competitors. That means mainly mountain bikes and their components. The bachelor thesis describes which material equipment the elite MTBO competitors use and if there are any differences among them.

**Methods:** The questionnaire method was used to obtain data regarding the research objective. The analysis was applied in the description of individual types of bikes and their components, which elite MTBO racers use.

**Results:** The analysis identified the key components of the bikes used by elite MTBO racers. These are a carbon frame, hydraulic brakes and 29 inch wheel sizes that are used by almost all elite MTBO racers. Half of the competitors use full suspension bikes and half use hard-tail bikes with a suspension fork. Differences are in the less important components of the bike, which adapt to personal preferences.

**Conclusion:** The analysis of the results showed the use of the same important components of the bike, but they highlighted personal preferences in less important parts. Nevertheless, the preference of the middle options is clear. Even if these options are represented as advantages and disadvantages.

**Keywords:** MTBO, mountain bike, equipment, competition