

## **Abstract**

**Thesis title:** Possibilities of prosthetic treatment for skiers with exarticulation of the knee especially for cross-country skiing

**Main objectives:** We try to find out the prosthetic possibilities for the people who have the exarticulation in the knee joint and compare the differences between healthy and amputated person.

### **Goals:**

1. Watch the cross-country skier with the exarticulation in the knee joint during the activity and find out the differences with healthy person.
2. Devise a solution how to eliminated the shortcomings and try to minimize these differences.

**Methods:** This thesis is empirical-theoretical nature. The methods which we used are comparative analysis and observation with the following description. The observed variables were our thesis proband in comparison with our own experience about cross-country skiing.

**Results:** In our thesis we find out that there is an available prothesis in the Czech Republic which allows the people with exarticulation in the knee joint to cross-country skiing. However there are any limitations in movement that a healthy people do not have.

**Key words:** femoral amputation, the prothesis, C-leg, cross-country skiing with a prothesis, cross-country skiing after amputation