

# **ABSTRAKT**

## **Title:**

Refine the prediction process for the software Combatfit

## **Aim:**

Find more accurate method to predict for the need of software Combatfit. Compare software prediction with field measurements and suitable alternative for predicting.

## **The methods used:**

The thesis is empiric – theoretic research and it is consist of two parts.

- 1) Teoretic part - analytic work
- 2) Empiric part - metodologic study

## **Results:**

The nomogram was chosen as a suitable way of prediction. The research was realized at 3 km, 8 km and 10 km on track in the field. The measured times were used to compare the predicted time by software Combatfit with time prediction according to the nomogram. It was found that the nomogram predictions outperforms software Combatfit. Furthermore it was determined tightness of the relationship between predicted and measured time in either process. The tightness of the relationship with the nomogram was very high up to absolute. The tightness of the relationship with the software Comatfit was moderate. This statement applies to test files that was used. It is not entirely clear whether this would achieve the same conclusions for other performance groups.

## **Key words:**

Software Combatfit, prediction of performance, movement, external conditions, nomograme.