

## **New Opportunities for the Development of Education at the Technical University of Liberec**

Specific objective A2: Development in the field of distance learning, online learning  
and blended learning

**NPO\_TUL\_MSMT-16598/2022**



## **KNT\_TNA\_ Electron microscopy and optical analysis**

**Ing. Radek Jirkovec, Ph.D.**

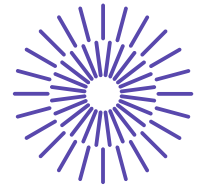


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**Tutorial objectives:**

During the tutorial, try the preparation of samples for electron microscopy and familiarize yourself with the function of the scanning electron microscope. Next, use an image analyzer to measure the fiber diameters.

**Method:**

- 1) Select fiber material and prepare sample for electron microscopy.
- 2) Using a scanning electron microscope, take pictures at different magnifications.
- 3) Upload the created images to the image analyzer and analyze the fiber diameters.
- 4) Calculate the mean, standard deviation and 95% confidence interval.



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