

## **ABSTRACT**

Microscopic fungi (micromycetes) is a topic that is at lower secondary schools neglected and mentioned only marginally. Fungi are of great importance for humans in their everyday life, whether negative or positive. It is the reason to rethink how and when to inform pupils about them.

The aim of my thesis is to create my own practical exercises that acquaint the pupils of lower secondary schools with the appearance, properties, occurrence, uses, cultivation methods, and last, but not least with the safety of micromycetes.

In the practical exercises are used basic methods of work with micromycetes such as inoculation of the population from the natural environment to a sterile culture medium, the sedimentation method or the method of spreading a dilute suspension of the stick on the agar medium. The revaccination is used to eliminate secondary structures. Then we deal with the possibility of preparing culture media. Isolated cultures of microscopic fungi are identified by macroscopic characters. Due to the safety with micromycetes, I recommend to teach microscopic characteristics in high school.

The presented practical exercises were verified at the lower secondary school in Vinařice by pupils of the 6th class. The practical exercises proved to be suitable for pupils in lower secondary school. Securing material processing tasks and the results live up to expectations and pupils were very interested in the issue.