

**Abstract:**

This bachelor thesis deals with dust particles, one of the substances polluting the environment, and their effect on plants, which can be used for phytoremediation. First part focuses on an overview of substances that participate to air pollution and there are also given their harmful effects on the environment. The next part describes the methods of phytoremediation and their use. In the last part is described experimental measurements of dust in the air and monitoring of polyaromatic hydrocarbons content in the atmosphere based on their analysis on the surface of the leaves of trees.

*Key word:* phytoremediation, dust particles, polyaromatic hydrocarbons, air pollution