

Title

Chemistry education at secondary schools of civil engineering in the Czech Republic

Abstract

The goal of this work is to evaluate the chemistry education at secondary schools of civil engineering in the Czech Republic, which provide education of four-year study programs with school leaving exam.

At first, question form of data gathering was used at the part of these schools. The general goal was narrowed by analyzing the answers of a questionnaire and the next work was concentrated on creating a study material containing themes of the chemistry of building materials. This material was used during the period of its creation and was modified due to the reactions of the students. The material was then extended with themes of general, inorganic, organic chemistry and biochemistry. The learning material was extended to the form of practice book, which has been used as a main educational tool for the chemistry education.

The learning material was evaluated by theoretical methodology and by anonymous questionnaire filled by students. The objective evaluation of the impact of the learning material on the school grades was analyzed through five years.

Key words

Chemistry of building materials, secondary schools, learning material, workbook.