

## **ABSTRACT**

The diploma thesis focuses on the phenomenon of so-called dynamic points of curriculum, which represent the implementation of new non-traditional topics into the content of teaching reflecting the current results of technology development including their environmental context. In the theoretical part of the diploma thesis the concept of dynamic curriculum places is elaborated with a focus on the topic "Microplastics" in the teaching of chemistry as a general teaching subject as their current example. The practical part is firstly aimed to the design of teaching activities on the topic "Microplastics", supporting the implementation of this topic in the teaching of chemistry at lower secondary schools and in the corresponding grades of multi-year grammar schools. Subsequently, in the practical part, the specific conditions for the implementation of the topic "Microplastics" in the teaching of chemistry as a general teaching subject are analysed through two case studies, focusing on the information and material-technical conditions of lower secondary schools and multi-year grammar schools, including examination of the effectiveness and functionality of the proposed teaching activities supporting this implementation in schools through practice.

The results of the analysis illustrate that the case of a large state primary school and the case of a small private grammar school allow the implementation of the topic "Microplastics" in the teaching of chemistry as a general teaching subject and teachers have positive attitudes towards this implementation. The designed teaching activities on the topic "Microplastics" increased students' knowledge in all the areas studied and positively influenced their pro-environmental attitudes.

## **KEYWORDS**

Microplastics, dynamic points of the curriculum, teaching chemistry at lower secondary and multi-year grammar schools, macromolecular substances, environmental education