



IMPLEMENTATION OF INQUIRY-BASED SCIENCE EDUCATION IN SCIENCE TEACHER TRAINING

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Abstract

The number of students interested in studying science and technology has decreased all over the world. Research results have shown that one of the main negative factors is an improper outdated method of science teaching in schools. There are also significant changes in students' learning style, which requires innovation of a learning method. It is necessary to prepare young people for lifelong learning. Inquiry-based science education (IBSE) has succeeded as a suitable educational method that greatly motivates students. To make this educational method effective, it is necessary to follow its principles and implement it in education properly. Therefore it should be included in science teacher training. The model of development of science teacher professional skills for IBSE application is presented. Particular curricular materials show the principles of IBSE. The European project PROFILES presents implementation of IBSE into science teacher training.

Key Words: Inquiry-based science education, science education, teacher training.