International Journal on New Trends in Education and Their Implications
July 2014 Volume: 5 Issue: 3 Article: 06 ISSN 1309-6249

IMPLEMENTATION OF CREATIVITY IN SCIENCE TEACHER TRAINING

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ABSTRACT

Creativity of students and teachers plays a very important role in education. The importance of creativity for education is evident from the interest of the OECD. According to experts a creative teacher is necessary to develop students' creativity. Students must feel that they are expected to be creative. Based on our design-based research, inquiry-based science education seems to be the appropriate approach for the development of creativity amongst students and teachers. The core principles of inquiry-based science education such as student activities, meaningful contents, developing critical thinking and motivating towards science correspond to the basic components of creativity. Inquiry-based science education involves basic processes that give rise to creativity. We present the research outcomes of the implementation of creativity development methods in science education and especially in science teacher training. Our research is carried out within the European project “Professional Reflection-Oriented Focus on Inquiry-based Learning and Education through Science” (7FP).

Key Words: Creativity, science education, science teacher training.