**Effectiveness of Innovative 21st Century Learning Model using Framework TPACK to Enhance Creative Student’s Creative Thinking and ICT Literacy Skills**

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**Abstract**

Development of innovative learning model 21st Century become an important requirement that must be developed teacher in the learning process in schools. Implementation of innovative learning model 21st century is also relevant to the needs of students in the digital age and the demands of the 21st century skills students need to have at this time. The purpose of this study was to determine the effectiveness of an innovative learning model 21st century using framework TPACK (Technological Pedagogical and Content Knowledge) is to improve the ability to think creatively and ICT literacy of students. The type of this research is quasy experimental with pre-test and post-test group design. The student's who participated in this research were students of class X SMA Negeri 6 Yogyakarta, dan SMA Negeri 1 Aikmel. The data analyzed by using N-gain formula with pre-test and post-test group design. The result is the implementation of innovative teaching 21st century is effective to improve the ability to think creatively and ICT literacy of students. In general, an increase in positive creative thinking skills and ICT literacy for each student as if. This study could be a reference to the development of 21st century learning model innovative model of collaborative projects aided Google Classroom with a demonstration model and model guided inquiry using Quick Response (QR) Code in future studies.

Keywords: innovative teaching model 21st century, 21st century skills, project-collaborative model, guided inquiry, ICT literacy, creative thinking.