

PROJECT BASED LEARNING-CREATIVE PEDAGOGIC ORIENTED ETHNOSCIENCE "SEKATEN" TO IMPROVE DESIGN THINKING OF SCIENCE STUDENTS

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ABSTRACT

Learning plays an important role so that learning objectives can be achieved and prepare students when they return to society. Learning needs to be done in an integrated manner by integrating local wisdom in learning so that learning is more meaningful. Apart from that, learning needs to use appropriate learning models to improve students' cognitive, affective or psychomotor competencies. This research aims to produce learning using the ethnoscience-oriented Project Based Learning-Creative Pedagogy model "sekaten" to improve the design thinking of proper science students.

This research is research and development using the Borg and Gall development stages which consist of ten stages. The development stage starts from (1) research and information collection, (2) planning, (3) develop preliminary form of product, (4) preliminary field testing, (5) main product revision, (6) main field testing, (7) operational product revision, (8) operational field testing, (9) final product revision, and (10) dissemination and implementation field testing, final product revision, and dissemination and implementation. The quality test was carried out by three lecturers. After the product is declared quality, limited testing is carried out by carrying out readability tests on students. The limited trial subjects were students who were taking school science courses. The instruments used in data collection were product validation sheets and design thinking questionnaires. Science students' design thinking was analyzed using clusterization based on the abilities of the collected questionnaires. In this research, it only reaches the product readability test. Widespread field trials need to be conducted. The results of the research show that learning using the Sekaten-oriented PjBL-CP (Project Based Learning-Creative Pedagogy) model can be improved and then used in extensive field trials. The results of the research carried out are then disseminated widely by means of publication in national journals, international journals, conference proceedings, and books published with ISBN.

Kata Kunci: *Creative Pedagogy, Design Thinking, Ethnoscience, Project Based Learning, Sekaten*