

# **PENERAPAN MODEL CRITICAL-INQUIRY BASED LEARNING UNTUK MENINGKATKAN KETERAMPILAN BERPIKIR KRITIS DAN LITERASI DIGITAL DALAM PEMBELAJARAN BIOLOGI**

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## **ABSTRACT**

The development of science and technology, especially the internet, requires every individual to have 21st century life skills, including students of the Biology Education Study Program (PSP). Innovative learning models need to be developed with the aim of maximally developing the potential of PSP Biology students. This research aims to develop a critical-inquiry based learning model to improve critical thinking skills and digital literacy in biology learning.

The type of research used is research and development. The research design used was ADDIE which consisted of 4 stages, namely analysis, design, development, implementation, and evaluation, namely 1) the analysis stage was carried out to determine the need to develop a critical inquiry-based learning learning model; 2) the design stage is carried out to examine various sources as a theoretical basis for the development of learning models. At the design stage, researchers develop instruments that will be used to assess the developed learning model; 3) at the development stage, the learning model is developed according to the design at the design stage. The learning model that has been compiled will then be validated by experts to assess its feasibility; 4) In the implementation phase, the critical inquiry-based learning model is implemented in a limited way by using this quasi-experimental research design applying a pretest-posttest non-equivalent control group design; 5) at the evaluation stage, the researcher's learning model makes a final revision of the learning model that has been developed. Data analysis was carried out to determine the feasibility of the learning model and its effectiveness based on the limited tests conducted. The learning model feasibility data was obtained from the conversion of quantitative data from questionnaires into qualitative data. Data on the effectiveness of the learning model were analyzed with

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