DEVELOPMENT OF CRITICAL-INQUIRY BASED LEARNING MODEL TO IMPROVE CRITICAL THINKING AND DIGITAL LITERATURE SKILLS IN BIOLOGY LEARNING

by Prof. Dr. Paidi, M.Si; Dr. Anggi Tias Pratama, S.Pd., M.Pd; Rizqa Devi Anazifa, M.Pd

ABSTRACT

The development of science and technology, especially the internet, requires every individual to have 21st century life skills, including Biology Education Study Program (PSP) students. Innovative learning models need to be developed with the aim of developing the potential of Biology PSP students to the fullest. This study 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 is ADDIE which consists of 4 stages, namely analysis, design, development, implementation, and evaluation, namely 1) the analysis stage is 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 the theoretical basis for developing learning models. At the design stage, researchers develop instruments that will be used to assess the learning model that is prepared; 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) At the implementation stage, the critical inquiry-based learning model was carried out in a limited manner by using this quasi-experimental research design applying a non-equivalent control group pretest-posttest design; 5) at the evaluation stage, the researcher's learning model made a final revision of the learning model that had been developed. In RG 2021, the model development stage includes three stages, namely analysis, design, and development.

Kata Kunci: *critical inquiry, keterampilan berpikir kritis, dan literasi digital*