EBOOK DEVELOPMENT OF ECOSYSTEM MATERIAL WITH DISCOVERY LEARNING MODEL TO IMPROVE STUDENT'S CRITICAL THINKING ABILITY

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Abstract

Critical thinking skills are needed by students to choose the right information in the midst of the strong flow of information in the era of globalization. Critical thinking can encourage students to generate ideas about existing problems in order to adapt to changes that continue to occur. One alternative to improve students' critical thinking skills is through discovery learning models. This study aims to produce an ebook on discovery learning model ecosystem materials to improve students' critical thinking skills. The resulting ebook has an epub (electronic publication) format to support distance learning during the covid-19 pandemic. The type of research used is research and development through six stages, namely data collection, planning, initial product creation, small-scale trials, revisions, and large-scale trials. The ebook was validated by media experts, material experts, and linguists then tested on students. Samples were taken using a purposive sampling technique involving 60 students in the experimental class and 60 students in the control class. Collecting data using ebook test instruments and students' critical thinking instruments. The ebook trial instrument used a questionnaire and interview guide. The instrument for students' critical thinking skills is in the form of essay questions. The results of the validation test by media experts were 84% (very good category), material and language experts were 89.3% (very good category). The results of the student trial questionnaire on the ebook were 87% (high category). So the ebook is very good (worthy) to be used by students. The results of the ebook effectiveness test with an N-gain score of 0.3 (medium category) means that the ebook material discovery learning ecosystem is effective in improving students' critical thinking skills.

Keywords : critical thinking, discovery learning, ebook, ecosystem