

ABSTRACT

Smallscale is a practical technique with materials and tools that use a smaller scale. Integrated Instrument Component (KIT) Smallscale natural energy is a set of practicum tools that contains practicum tools packaged in boxes for use in science practicums. The Integrated Instrument Component (KIT) Smallscale natural energy is designed with the theme of using alternative energy into electrical energy which is equipped with a comic-based practical guide book that is adapted to the characteristics of elementary school students. This study aims to determine the analysis of the needs of the integrated instrument component (KIT) Smallscale natural energy which was developed as a learning medium. The stages of analysis are: 1) curriculum analysis; 2) HR analysis (teachers and students); 3) material analysis and; 4) infrastructure analysis. This type of research is development research using the ADDIE development model (Analysis, Design, Development, Implementatoin and Evaluation). In this study, only two stages were used, namely Analysis and Design with an evaluation stage at each stage, both the analysis and design stages which resulted in recommendations in the form of the resulting product, namely the Smallscale Natural Energy KIT Protoype Design. Based on the results of the analysis, there are recommendations for making prototype designs for Smallscale Natural Energy Integrated Instrument Components (KIT) to be used as teaching aids in science practicum.

KEYWORDS

Smallscale, ADDIE, Natural Energy.