ABSTRACT

DEVELOPMENT VIRTUAL LAB PHARMACY RECIPES IN SCIENCE CLASS X SMK STATE 7 BANDUNG

by:

TEDI AHMAD SYUKUR
10110629

SMK Negeri 7 Bandung has 4 competency skills, namely Chemical Industry, Mechanical Completion of Textile, Chemical and Pharmaceutical Analysis. In the pharmaceutical field that was designated a learning resource center one of which is a laboratory. Science subjects recipe is one of the lessons are in need lab. There are difficulties in implementing laboratory practicum for real or often referred to as hands-on as a means of supporting practical activities in schools has shortcomings, among others understanding of students in science subjects recipe is still lacking, consequently students' difficulties in understanding the science lab materials recipe. It is necessary to build virtual lab applications as an alternative medium of learning in the implementation is able to help students understand the material science of prescription pharmaceutical lab.

Applications built web-based virtual lab. Simulation lab work on the application in accordance with the material science of prescription pharmaceutical lab class X in SMK Negeri 7 Bandung. Developers of software used in the making of this application is the Autodesk Maya, Adobe Dreamweaver CS5 and Adobe Flash CS6 with the programming language HTML, Javascript and ActionScript 3.0. Data collection techniques by means of literature studies and field studies, namely observation, interviews and questionnaires. The analytical method used is the structured analysis, the functional modeling using DFD (Data Flow Diagram).

Based on the test results of the virtual application lab prescription pharmaceutical science class X SMK Negeri 7 Bandung, the conclusion that the application is built to facilitate the students to understand the material science of prescription pharmaceutical lab class X in SMK Negeri 7 Bandung.

Keywords: Virtual lab, Laboratory, Pharmacy, Website, Structured Analysis.