

# DEVELOPMENT OF ONLINE ASSESSMENT BASED ON SHAREABLE CONTENT OBJECT REFERENCE MODEL (SCORM) TO OPTIMIZE THE USE OF BESMART UNY

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## ABSTRACT

This research aims to develop Online Assessment based on SCORM Package. This research focuses on: 1) obtaining an online design assessment based on SCORM package in Medical Instrumentation and Electronics courses based on needs analysis; 2) knowing the functionality of online assessment based on SCORM package in Medical Instrumentation and Electronics courses. 3) knowing the usability of online assessment based on SCORM package in Medical Instrumentation and Elektronika course. This software engineering process using ADDIE model as a model of software development process. Stages of testing in this study were conducted in order to verify and validation on the software. The software verification process is performed by functionality testing by media experts and material experts, also usability testing by user.

Based on the results of research on the developed software shows the results: 1) obtaining the online design assessment based on SCORM package in Medical Instrumentation and Electronics courses, including: Online assessment in Besmart packed with SCORM Packages in the form of quiz integration (multiple choice, wrong, drag and drop); 2) functionality testing by a material expert with a score of 3.88 and a media expert with a score of 4.16 then online assessment is eligible from the aspect of functionality; 3) usability testing by user with the score of 3.88 then online assessment is eligible from the aspect of usability.

Kata Kunci: *online assesment, SCORM, needs analysis, functionality, usability.*