

PENGEMBANGAN *MOBILE LEARNING* BERBASIS *ANDROID* UNTUK

MATA PELAJARAN DASAR LISTRIK DI SMK N 2 DEPOK

Oleh:

Seca Galih Ramadhan

NIM.14518241026

ABSTRAK

Penelitian ini bertujuan untuk: (1) menghasilkan (produk *Software*) *mobile learning* berbasis *android* pada mata pelajaran dasar listrik kelas X; (2) mengetahui kelayakan *Mobile learning* berbasis *android* pada mata pelajaran dasar listrik kelas X ditinjau dari ahli media dan ahli materi; (3) mengetahui kelayakan *Mobile learning* berbasis *android* pada mata pelajaran dasar listrik ditinjau dari siswa.

Penelitian ini merupakan jenis penelitian RnD (*Research and Development*). Model pengembangan yang digunakan adalah ADDIE (*Analysis, Design, Development, Implementation, and Evaluation*). Penelitian ini dilakukan di SMK N 2 Depok dengan responden 30 siswa program keahlian Teknik Otomasi Industri (TOI). Data penelitian diperoleh dengan teknik observasi dan kuesioner. Validasi produk dilakukan menggunakan teknik *expert judgement*. Teknik analisis data dilakukan dengan cara deskriptif kuantitatif.

Hasil dari penelitian diketahui bahwa: (1) kelayakan *Mobile learning* berbasis *android* pada mata pelajaran dasar listrik dari ahli media mendapat skor total 48 dari skor maksimal 52 dikategorikan “layak”; (2) kelayakan *Mobile learning* berbasis *android* pada mata pelajaran dasar listrik dari ahli materi mendapat skor total 70,5 dari skor maksimal 76 dikategorikan “Sangat layak”; (3) kelayakan *Mobile learning* berbasis *android* pada mata pelajaran dasar listrik dari pengguna mendapat skor total 55,5 dari skor maksimal 68 dikategorikan “layak”.

Kata Kunci: *Mobile learning, Smartphone* berbasis *Android*, Dasar Listrik

**DEVELOPMENT OF ANDROID-BASED MOBILE LEARNING FOR BASIC
ELECTRICAL IN DEPOK 2 VOCATIONAL SCHOOL**

By:

Seca Galih Ramadhan

NIM.14518241026

ABSTRACT

This research aims to: (1) Produce (Software products) Android-based mobile learning on basic electricity subjects; (2) Knowing the feasibility of Android-based mobile learning in basic electrical subjects in terms of media experts and material experts; (3) Knowing the feasibility of Android-based mobile learning on basic electrical subjects in terms of user.

This research is a type of R n D (Research and Development). The development model used is ADDIE (Analysis, Design, Development, Implementation, and Evaluation). This research was conducted at N 2 Depok Vocational School with respondents 30 students of Industrial Automation Engineering. The research data was obtained from observations and questionnaires. Product validation is done using an expert judgment technique. The data analysis technique was carried out by descriptive quantitative method.

The results of the study revealed that: (1) feasibility of Android-based mobile learning in basic electrical subjects from media experts got a total score of 48 from a maximum score of 52 categorized as "feasible";(2) feasibility of Android-based Mobile learning in basic electrical subjects from material experts gets a total score of 70.5 from a maximum score of 76 categorized as "Very feasible"; (3) the feasibility of Android-based Mobile learning in basic electricity subjects from users gets a total score of 55.5 from a maximum score of 68 categorized as " very feasible ";

Keywords: *Mobile learning, Android based Smartphone, Basic Electricity.*