

# **PENGEMBANGAN MEDIA PEMBELAJARAN SISTEM *ELECTRONIC FUEL INJECTIONS* (EFI) BERBASIS ANDROID DI SMK PIRI 1 YOGYAKARTA**

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## **ABSTRAK**

Penelitian ini bertujuan untuk: (1) Menghasilkan media pembelajaran sistem Electronic Fuel Injections (EFI) berbasis Android, (2) Mengetahui kelayakan media pembelajaran sistem Electronic Fuel Injections (EFI) berbasis Android, dan (3) mengetahui tanggapan peserta didik terhadap media pembelajaran sistem *Electronic Fuel Injections* (EFI) berbasis Android.

Penelitian ini merupakan penelitian dan pengembangan (*research and development*) dengan model Borg and Gall yang dimodifikasi oleh Sugiyono. Terdapat sepuluh langkah pada model ini, yaitu (1) potensi dan masalah, (2) pengumpulan data atau informasi, (3) desain produk, (4) validasi desain, (5) revisi desain, (6) uji coba produk, (7) revisi produk (8) uji coba pemakaian, (9) revisi produk, dan (10) produksi masal. Teknik pengumpulan data pada penelitian ini menggunakan instrumen berupa angket, sedangkan teknik analisis data menggunakan metode kuantitatif deskriptif.

Hasil dari penelitian ini diperoleh (1) Produk berupa media pembelajaran sistem Electronic Fuel Injections (EFI) berbasis Android, (2) Penilaian kelayakan media dari segi materi memperoleh skor 76 dan termasuk dalam kategori sangat layak. Penilaian kelayakan media dari segi media memperoleh skor 79 dan termasuk dalam kategori sangat layak. (3) Tanggapan peserta didik saat uji coba produk, pada aspek penggunaan memperoleh skor rata-rata 36,50 yang termasuk dalam kategori sangat mudah dan pada aspek kebermanfaatan memperoleh skor rata-rata 32,70 yang termasuk kategori sangat bermanfaat. Tanggapan peserta didik saat uji coba pemakaian, pada aspek penggunaan memperoleh skor rata-rata 36,77 yang termasuk dalam kategori sangat mudah dan pada aspek kebermanfaatan memperoleh skor rata-rata 32,65 yang termasuk kategori sangat bermanfaat.

Kata kunci: media pembelajaran, *electronic fuel injection*, android

**DEVELOPING ELECTRONIC FUEL INJECTIONS (EFI) SYSTEM ANDROID-  
BASED LEARNING MEDIA IN PIRI 1 YOGYAKARTA  
VOCATIONAL HIGH SCHOOL**

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**ABSTRACT**

*The purpose of this research is to: (1) Produce Android-based Electronic Fuel Injections (EFI) learning media, (2) Knowing the feasibility of android-based Electronic Fuel Injections (EFI) learning media, (3) know students' responsiveness to Android-based Electronic Fuel Injections (EFI) learning media.*

*This research is research and development with the Borg and Gall model modified by Sugiyono. There are ten steps in this model, namely (1) potential and problems, (2) collecting data or information, (3) product designing, (4) design validation, (5) design revision, (6) product trials, (7) product revision, (8) usage trials, (9) product revision, and (10) mass production. Data collection techniques of this research used an instrument in the form of a questionnaire, while data analysis techniques used descriptive quantitative methods.*

*The results of this study were obtained (1) Products in the form of Android-based Electronic Fuel Injections (EFI) learning media. Material feasibility assessment in terms of material obtained a score of 76 and included in the very feasible category. The assessment of media feasibility in terms of media received a score of 79 and was included in the very feasible category. Students' responses during product trials, on the aspect of use, getting an average score of 36.50 which was included in the very easy category and in the aspect of usefulness, it obtained an average score of 32.70 which was included in the very useful category. Students' responses during usage trials, on the aspect of use, it obtained an average score of 36.77 which was included in the very easy category and in the aspect of usefulness, it obtained an average score of 32.65 which is included in the very useful category.*

*keywords: media, electronic fuel injection, android*