

DEVELOPMENT OF INTERACTIVE TRAINING AID FOR TEACHING ELECTRONIC SPARK IGNITION SYSTEM IN AUTOMOTIVE EDUCATION DEPARTMENT FT UNY

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ABSTRACT

This study aimed to determine: (1) Knowing the development of simulators and learning tutorial video ESA electronic ignition system in the Department of Automotive Engineering Education Faculty of Engineering, State University of Yogyakarta. (2) To know the eligibility of simulator and video tutorial of ESA electronic ignition system developed in the Department of Automotive Engineering Education Faculty of Engineering, Yogyakarta State University.

This research used research and development (RND) method. The research was carried out through 10 stages: analyzing potential and problem, need analysis, designing instructional media, design revision, product making, pilot testing (small class), product revision, large usage / class test, product revision and product can be used . Data collection using the questionnaire was analyzed by quantitative descriptive analysis.

According to data analysis, the results obtained: (1) The development of instructional media include the development of ESA electronic ignition system simulator by performing new design, and making video tutorial for students to learn independently, especially to support the preparation of practice for practical learning becomes more effective. (2) Developed ESA's electronic ignition system instructional media in the form of simulators and video tutorials was eligible for use in learning. Based on the results of limited trials and usage, the average feasibility score for the limited trial is 6.3 for the ignition system simulator and 6.25 for the tutorial video in the very feasible category. While the average score of trial usage is 6.4 for the average score on the simulator made in very decent category, as well as the average score of 6.15 in the eligible category for the developed video tutorial.

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Kata Kunci: *simulators, video tutorials, ESA ignition systems*