

TRAINING ANDROID-BASED ELECTRICAL ENGINEERING LEARNING MEDIA FOR VOCATIONAL SCHOOL TEACHERS IN YOGYAKARTA SPECIAL REGION

by **Muhamad Ali, Sunaryo Sunarto, Hartoyo, Djoko Laras, Zamtinah**

ABSTRACT

Community service activities (PPM) regarding training and assistance for the Development of Learning Media for Electric Power Engineering Based on Android Applications for Vocational School teachers in the Yogyakarta Special Region are carried out online through the Zoom application. This activity was carried out by the PPM team consisting of lecturers in the Department of Electrical Engineering Education, FT UNY with the aim of: 1) Increasing the ability of vocational teachers in the field of Electrical Engineering, Industrial Automation and Industrial Electronics on the subject of Android Application-Based Learning Media Development, 2) Improve the ability of teachers in the field of using computer software to assist in learning electric power engineering material. 3) Improve the quality and quantity of cooperation between YSU as a vocational education institution with SMK in the Special Region of Yogyakarta.

This activity was held for 3 meetings and added with 2 weeks of mentoring, namely on Saturday 31 August 2013, Saturday, 07 September and Saturday 14 September 2020. Training activities were held online (in network) in the Computer and Data Communication laboratory and RF1 Lecture Room. This activity was attended by 21 participants who came from vocational high school teachers throughout the Special Region of Yogyakarta who have expertise in electrical power engineering, industrial automation and electronics expertise programs. The methods used in this training are lectures, discussions, questions and answers, demonstrations, simulations and computer simulation practices.

The results achieved from this activity were: 1) the participants experienced an increase in knowledge in the field of Electrical Power Engineering as indicated by the participants' post-test scores with an average of 76.6, 2). Participants know and master the making of Android-based learning media with Website2APK software, 3) Participants experience increased skills in the field of computer applications as a tool in explaining the concept of electric power engineering.

Kata Kunci: learning media, android, vocational teachers