

Training and Mentoring for SMK Muhammadiyah Pakem in Developing Electric Formula Cars

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ABSTRACT

The Community Service Program (PPM) was carried out aimed at assisting the implementation of the electric car development program at SMK Muhammadiyah Pakem, starting from initiating process, recruiting teams, and making electric cars. The PPM implementation is preceded by providing information to the Principal about the training activities to be carried out, giving invitations to teachers who will become trainees, conducting training from 5 - 26 May 2018, and making reports on the results of the activities. The material presented included an explanation of the process of making electric cars at Automotive Engineering Education Department, Faculty of Engineering, Universitas Negeri Yogyakarta and how steps should be taken to be implemented at SMK Muhammadiyah Pakem. The activities included discussions between the PPM implementing team and the school, in this case the Principal of the SMK Muhammadiyah Pakem. Then the activity continued with the provision of material by the PPM team from FT UNY and continued with the practice of developing electric cars for SMK Muhammadiyah Pakem. After the training, the results obtained were statements from teachers and students about new experiences gained during their involvement in PPM activities and the production of 1 electric car at SMK Muhammadiyah Pakem.

Kata Kunci: *Electric car, SMK Muhammadiyah Pakem, Automotive Engineering Education*