

SOFTWARE APPLICATION AND MODELING ANALYSIS OF SAP 2000 STRUCTURE BASED ON LATEST SNI FOR VOCATIONAL TEACHERS IN BANTUL

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ABSTRACT

The purpose of this community service activity (PPM) is to provide knowledge and skills to teachers in the building department of Bantul Vocational School (Sedayu Vocational High School 1 and Pajangan Vocational High School) in order to improve the quality of teaching materials for steel and concrete structure analysis using SAP 2000 software based on the latest SNI .

This PPM activity is in the form of training conducted with a scientific approach with the tutorial method. With this approach, multiple values ??are obtained, namely the transfer of knowledge / skills and a learning model with a scientific approach. The number of participants was 19 teachers and 7 students of Sedayu 1 State Vocational School majoring in building drawing engineering. This activity is carried out from the 7th day. October 10, 2018 (for 32 hours), located at 1 Sedayu State Vocational School. The material presented is (1) Practical theory about SNI for steel and concrete structures that support SAP 2000 program applications. (2) Structure modeling, and (3) Practice using SAP2000 program to analyze steel easel structures, steel gable structures, building structures 2-storey of reinforced concrete. (3) Independent tasks.

The results of the activity show that (1) Teachers and students of Sedayu Vocational High School 1 and teachers of Vocational High School Display are quite enthusiastic in participating in the training indicated by their seriousness in the training activities. (2) Based on the results of observations and the results of independent assignments the teacher and students have practical knowledge of the latest SNI, and are quite skilled in operating the SAP 2000 program. (3) The results of the evaluation of this activity are very useful and enjoyable.

Kata Kunci: *training, SAP 2000, building drawing techniques*