

Pelatihan Perhitungan Beton Manual berdasarkan SNI Terbaru

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ABSTRACT

The purpose of this activity is to provide stock of knowledge and skill of the teachers of Building Management Drawings SMKN 1 Sedayu and SMKN 1 Pajangan in order to improve the quality of learning materials, especially material analysis of concrete structures that are very important in Building Construction. As the target of the activity is the teacher of Building Materials Engineering SMKN 1 Sedayu and SMKN 1 Pajangan. This PPM activity is done by scientific (scientific) approach. This will get a double score, one side conveying material required productive teachers SMKN 1 Sedayu and SMKN 1 Pajangan and on the other hand provide a model of delivery of materials with a scientific approach. This strategy begins with observation, asking, reasoning for development, trying, and making a summary. Implementation of this PPM activity there are some things that are adjusted to the original plan. The devotees initially planned the activity by manual calculation based on the latest SNI, but at the end the teachers wanted to be given practical way of calculation therefore we insert the material of excel calculation for concrete construction planning. Servants and teachers agree that the material given begins with a manual calculation based on the latest SNI. Furthermore, the calculation is continued using the calculation program of excel reinforced concrete planning. Training was conducted during three meetings plus structured tasks on the fourth and fifth days. Based on the results and discussion of the implementation of training activities for teachers of Building Engineering SMKN 1 Sedayu and SMKN 1 Pajangan program can be summarized as follows: 1) teachers of Building Materials Engineering Program SMKN 1 Sedayu and SMKN 1 Pajangan who participated in this training generally able to understand the concept of calculation concrete structures manually in accordance with the latest SNIs on concrete; 2) the teachers of Building Drawings SMKN 1 Sedayu and SMKN 1 Pajangan who participated in this training are able to calculate the concrete structure in the concrete plate elements according to the latest SNI concrete; 3) the teachers of Building Materials Engineering SMKN 1 Sedayu and SMKN 1 Pajangan who participated in this training are able to calculate the concrete structure in the concrete beam element in accordance with the latest SNI concrete; 3) teachers of Building Materials Engineering SMKN 1 Sedayu and SMKN 1 Pajangan who participated in this training are able to calculate concrete structures in concrete column elements according to the latest SNI concrete; and 4) the teachers of Building Drawings SMKN 1 Sedayu and SMKN 1 Pajangan who participated in this training are able to calculate the concrete structure in the concrete foundation element according to the latest SNI concrete.

Kata Kunci: *concrete, SNI, structure*