

# STRUCTURAL ANALYSIS SOFTWARE TRAINING SAP 2000 TEACHERS FOR BUILDING ENGINEERING STUDY STATE VOCATIONAL HIGH SCHOOL 2 WONOSARI

by Suparman, Dian Eksana W, Nur Hidayat

## ABSTRACT

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The purpose of this activity is to provide knowledge and skills of teachers Department of Building N 2 Wonosari in order to improve the quality of learning material, especially material analysis concrete structure which is very important in the Engineering Building. As the target activity is teacher skill program Construction Engineering SMK 2 Wonosari. Just not all the teacher training because of busy teaching and administrative affairs. PPM activity is done with scientific approach (scientific). This will earn double the value, one side deliver the required materials teachers of vocational schools and on the other hand gives the model the delivery of content with a scientific approach. This strategy begins with observations, ask questions, reason for the development, try and make a summary. In the implementation of this PPM there are some things that are tailored to the original plan. Pengabdian initially planned activities with SAP software in 2000, but the teachers want a manual calculation is based on the latest SNI to be given in advance. Pengabdian and teachers agree that the material provided beginning with the manual calculation based on the latest SNI. Furthermore, the calculation is continued using SAP software 2000. Training is conducted over three meetings plus a structured task on the sidelines of a meeting of two and three. Based on the results and discussion of the implementation of SAP training 2000 for teacher skill program Construction Engineering SMK N 2 Wonosari can be summarized as follows: (1) Master's program membership Construction Engineering SMK N 2 Wonosari this training is generally able to grasp the concept of calculation of concrete structures manually according the latest SNI on concrete. (2) Master Engineering Department of Building N 2 Wonosari this training is able to calculate the concrete structure on a concrete slab element according SNI latest concrete. (3) Master Engineering Department of Building N 2 Wonosari this training is able to calculate the concrete structures on the concrete beam elements SNI latest concrete. (4) Master Engineering Department of Building N 2 Wonosari this training is able to calculate the concrete structures on the concrete column element according SNI latest concrete. (5) Master Engineering Department of Building N 2 Wonosari this training is able to calculate the concrete structure on a concrete foundation element according SNI latest concrete. Pengabdian together participants to provide advice on training activities. Based on the implementation of SAP training activities in 2000 by a team of FT UNY PPM can put forward the following suggestions. (1) Training manual calculation of concrete structures based on the latest ISO is continued on another occasion for participants to better understand the details. (2) The timing of the planned over-cooked by both parties to be carried out according to plan. This is related to the bustle of servants and participants. (3) Faculty of Engineering, State University of Yogyakarta and SMK Negeri 2 Wonosari continue to provide the opportunity for sivitasnya to always develop the knowledge of this kind of training activity.

Kata Kunci: *concrete, SAP 2000, structure*