

MATHEMATICAL MODELING WORKSHOP FOR TEACHERS OF MATHEMATICS VOCATIONAL SCHOOL IN GUNUNG KIDUL

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ABSTRACT

The learning paradigm in vocational high schools should consider the needs of the world of work, referring to the competency standards of the world of work or industry such as problem solving skills and critical thinking skills. This ability can be developed through learning mathematics, especially mathematical modeling. Therefore, the service team deems it necessary to hold a workshop to facilitate vocational teachers in increasing mastery of material on mathematical modeling. This Community Service Program, held in the form of a workshop for 2 days to (1) Explain about Mathematical Modeling, (2) Develop mathematical models of contextual problems / application problems, (3) Solve contextual problems / application problems and (4) Learning media based information technology that can help solve contextual problems / application problems. Based on the evaluation, several things are obtained as follows: 1) The PPM Mathematics Modeling workshop activity has been carried out and runs well and smoothly; 2) Participants attend the workshop enthusiastically and view that this activity needs to be held; 3) Based on the evaluation results from the questionnaire, the implementation of the workshop activities went very well with a score of 4.29 from a maximum score of 500; 4) Based on tests of mathematical modeling abilities, the participants obtained an average score of 7.85 from a maximum score of 10.

Kata Kunci: *workshop, mathematical modelling, geogebra, tora*