

TRAINING ON USING TRACKER AS SCIENCE PEDAGOGICAL TOOLS TO INCREASE SCIENCE TEACHERS' SKILLS IN LEARNING ANALYSIS OF VARIOUS MOTIONS IN REAL WORLD INVESTIGATION CONTEXT

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ABSTRACT

The PPM aims to train science teacher skill in: 1) implementing Tracker Video Analysis & Modeling Tools program in science learning; 2) compiling learning materials for implementing Tracker Video Analysis & Modeling Tools in science learning. The subjects of this activity were the science teachers of SMP Muhammadiyah in Sleman Regency. This activity was held on 5 and 12 May 2018 in FMIPA UNY Lab and attended by 30 teachers. The stages of this activity include preparation, implementation and evaluation. At the preparation stage, coordination between members, division of tasks, determination of activities sequence and materials were carried out. In addition, coordination was also carried out with partner coordinators to determine the time and place of activities. At the implementation stage, knowledge enrichment, practice in using Tracker, and workshop of learning material arrangement. Finally, the activity closes with an evaluation of both the process and the results. The results of this training are: 1) the trainees are able to implement Tracker Video Analysis & Modeling Tools program in science learning; 2) the trainees are able to compile learning materials for implementing Tracker Video Analysis & Modeling Tools in science learning.

Kata Kunci: *Tracker Video Analysis, objects motion, Real World Investigation*