

# **TRAINING ON THE USE OF SPREADSHEETS ON THE TOPIC OF WAVES FOR PHYSICS TEACHERS IN YOGYAKARTA**

**by Heru Kuswanto, Supardi, , Kuncoro Asih Nugroho,**

## **ABSTRACT**

This training activity and workshop on the use of spreadsheets on the topic of waves for physics teachers in Yogyakarta aims to introduce learning media in the form of spreadsheets on the topic of waves, increase participants' understanding of waves, and improve their ability to make graphs. This activity will be carried out online using Zoom to save teachers time in leaving their assignments. Instructions for using and practicing spreadsheets on the topic of waves, as well as graphing exercises will be carried out on days agreed between the PPM team and the teachers. This activity is divided into two periods, namely the first period in the form of training and the second period in the form of a structured workshop over a period of 1 month. During the training, participants can actively ask questions via the "raise hand" feature on Zoom, and will be asked to present the results of their practice at the end of the training. After attending this training and workshop, participants are expected to have additional knowledge and skills in using spreadsheets and be able to use them in Physics learning, so as to improve the ability to create graphs for teachers and students.

Kata Kunci: *spreadsheets, training, workshops, graphs*