

# **Workshop on the Development of Online Mathematics Learning Media that are Innovative, Interactive, and Improve Students' Mathematical Understanding**

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## ABSTRACT

This Community Service Activity (PPM) with the title "**Workshop on the Development of Online Mathematics Learning Media that are Innovative, Interactive, and Improve Students' Mathematical Understanding**" was motivated by the pandemic situation that forced teachers to carry out online learning activities. This PPM activity aims to improve the quality of junior high school mathematics teaching and learning activities in Kulon Progo Regency. More specifically, this PPM activity aims to improve the skills of mathematics teachers in developing or compiling online mathematics learning media that are innovative, interactive, and improve students' mathematical understanding.

This activity is carried out offline at the Computer Laboratory of the Mathematics Education Department. Activities are carried out in a training/workshop format, which includes theoretical and practical activities. Overall, this workshop lasted 32 hours of meetings. Workshop materials include: (1) Student Worksheets (LKPD) which improve mathematical understanding; (2) interactive LKPD development resources; (3) LKPD that minimizes cognitive load; and (4) Use of liveworksheets.com.

As many as twenty-three (23) mathematics teachers from junior high schools in the Kulon Progo Regency participated in the training activity. The evaluation of the 23 training participants led to the following conclusions: (1) the training materials matched the needs of the teachers; (2) the training materials are relatively new; (3) the method of delivery is easy to understand; (4) the speaker is regarded as an expert; (5) the speaker and audience interaction is active; (6) the material is regarded as difficult; (7) the training time allocation was sufficient; (8) the tasks for participants are classified as challenging; (9) the feedback provided by the presenting team was very useful; and (10) training facilities are relatively abundant.

Kata Kunci: *workshops, media, online, innovative, interactive*