

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 PPM activity is carried out online using zoom. This activity in the form of workshops, which include theoretical and practical activities. The workshop was held on September 4 and September 18, 2021. Between this period, the participants had practiced independently accompanied by tutors and students who helped. 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.

The workshop was attended by 48 junior high school mathematics teachers in Kulon Progo Regency. The evaluation results from 30 workshop participants concluded that there were as many as: (1) 66.7% of participants who considered the training materials to be very suitable to the needs of teachers; (2) 63.3% of participants rated the training materials as new; (3) 46.7% of participants rated the method of delivering the material as easy to understand; (4) 60% of participants who rated the presenters as experts; (5) 56.7% of participants rated the interaction between the presenter and the audience as active; (6) 63.3% of participants rated the material as difficult; (7) 70% of participants assessed that the training time allocation was sufficient; (8) 60% of participants rated the task for participants as quite challenging; (9) 56.7% of participants considered that the feedback provided by the presenter team was very useful; and (10) 53.3% of participants considered the training facilities to be quite adequate.

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