Using Google Classroom to Improve Teaching Effectiveness and Students' Achievement

by Dr. Slamet Suyanto, M.Ed., Drs. Suratsih, M.Si., Ema Aprilisa, M.Pd., Kintan Limiansi, M.Pd., Siti Nurhasanah, Larasati Nindya Ismana

ABSTRACT

This research is aimed at developing online learning materials using Google Classroom (GC) to increase teaching effectiveness and to improve student's achievement in biology. This research used Research and Development (R & D) design, using the ADDIE model with four steps: Analysis, design, development, implementation, dan evaluation. First, we (researchers, teachers, and students) develop learning materials using GC. The materials, including texts, links, and videos, were reviewed by experts to get content validity. A questionnaire with Likert's Scale was used to measure the content validity. The valid learning materials were tried out in a school to know the usability of the GC. A questionnaire with Likert's Scale was used to measure the usability of the GC. Then, the GC were implemented in six classes from six high schools with a pretest-posttest control group design. Tests were administered to measure students' achievement on the learning materials. The results indicated that (1) the learning materials were valid based on the expert judgment, (2) the GC was considered easy to use according to the teachers and the students, specifically to organize the materials, to do video conference using google meet, and to do online assessment, and (3) the GC was effective to improve the students' achievement in biology. Therefore, it is concluded that the GC learning materials is feasible to perform online learning in biology.

Kata Kunci: *online learning, google classroom, teaching effectiveness*