

ABSTRAK

PENGEMBANGAN PROGRAM *BLENDED LEARNING* BERBASIS *MULTIPLE REPRESENTATIONS* UNTUK MENSTIMULUS *COMPLEX PROBLEM SOLVING* DAN MEREDUKSI *LEARNING LOSS*

Oleh

MUNADHIROTUL AZIZAH

Penelitian ini bertujuan untuk mendeskripsikan program *Blended Learning* berbasis *Multiple Representations* yang valid, praktis, dan efektif untuk menstimulus *complex problem solving* dan mereduksi *learning loss*. Jenis penelitian ini adalah penelitian pengembangan dengan desain pengembangan ADDIE yang meliputi *analyze, design, development, implementation, dan evaluation*. Teknik analisis data menggunakan *mixed method* yang memadukan metode kualitatif dan kuantitatif. Hasil penelitian menunjukkan bahwa 1) Program *Blended Learning* berbasis *Multiple Representations* dinyatakan valid, meliputi silabus, RPP, *e-LKPD* dan *e-Handout* yang proses pembelajarannya dirancang dengan memuat aktivitas-aktivitas yang memaksimalkan penggunaan berbagai representasi yang dapat menstimulus *CPS* dan mereduksi *learning loss*. Penyajian *e-LKPD* dan *e-Handout* berbasis MRs telah disesuaikan dengan kebutuhan peserta didik untuk belajar secara mandiri maupun secara kelompok sehingga dapat menstimulus *complex problem solving* dan mereduksi *learning loss*. 2) Kepraktisan program *Blended Learning* berbasis *Multiple Representations* ditinjau berdasarkan respon peserta didik yang meliputi respon terhadap proses pembelajaran, respon terhadap *e-LKPD* dan *e-Handout* berbasis *Multiple Representations* sehingga dapat digunakan sebagai pada pembelajaran fisika SMA kelas XII semester ganjil topik listrik arus searah. 3) Efektivitas program *Blended Learning* berbasis *Multiple Representations* terkategori sedang sehingga mampu menstimulus *complex problem solving* dan mereduksi *learning loss*.

Kata Kunci: Program *Blended Learning, Multiple Representations, Complex Problem Solving, Learning Loss*.

ABSTRACT

DEVELOPMENT OF A *BLENDED LEARNING* PROGRAM BASED ON MULTIPLE REPRESENTATIONS TO STIMULATE COMPLEX PROBLEM SOLVING AND REDUCE LEARNING LOSS

By

MUNADHIROTUL AZIZAH

This study aims to describe a blended learning program based on multiple representations that is valid, practical, and effective for stimulating complex problem solving and reducing learning loss. This type of research is development research with the ADDIE development design which includes analyze, design, development, implementation, and evaluation. The data analysis technique uses a mixed method which combines qualitative and quantitative methods. The results showed that 1) The blended learning program based on multiple representations was declared valid, including syllabus, lesson plans, e-LKPD and e-Handout whose learning processes were designed to contain activities that maximize the use of various representations that can stimulate CPS and reduce learning loss. The presentation of the MRs-based e-LKPD and e-Handout has been adapted to the needs of students to study independently or in groups so that they can stimulate complex problem solving and reduce learning loss. 2) The practicality of the multiple representations-based blended learning program is reviewed based on the responses of students which include responses to the learning process, responses to e-LKPD and e-Handout based on multiple representations so that they can be used as a physics lesson for SMA class XII odd semester on direct current electricity. 3) The effectiveness of the blended learning program based on multiple representations is in the moderate category so that it can stimulate complex problem solving and reduce learning loss.

Keywords: Blended Learning Program, Multiple Representations, Complex Problem Solving, Learning Loss.