

ABSTRAK

PENGEMBANGAN MODEL *FLIPPED CLASSROOM* BERBASIS EDMODO
PADA MATERI METABOLISME KELAS XII

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Persoalan dan tantangan pendidikan kini semakin berkembang. Hasil analisis kebutuhan yang telah dilakukan di lima sekolah negeri di Kabupaten Magelang menunjukkan bahwa keaktifan peserta didik menjadi masalah utama. Peserta didik juga mengalami kesulitan untuk memahami materi metabolisme karena materi ini cukup kompleks. Guru memerlukan sebuah model pembelajaran yang mampu mengaktifkan peserta didik serta mengatasi permasalahan materi metabolisme. *Flipped classroom* berbasis edmodo berpotensi sebagai solusi permasalahan serta dapat diterapkan dalam *blended learning*. Edmodo mampu mendukung kegiatan pembelajaran. Penelitian ini bertujuan untuk mengembangkan dan mengetahui kelayakan perangkat pembelajaran model *flipped classroom* berbasis Edmodo pada materi metabolisme kelas XII.

Penelitian ini merupakan penelitian pengembangan (*Research and Development*) dengan model Borg and Gall yang telah dimodifikasi oleh Sugiono namun hanya dilakukan sampai tahapan revisi desain (*desain revision*). Tahapan penelitian diawali dengan analisis kebutuhan, kemudian dilanjutkan dengan desain produk, pengembangan produk, dan uji kelayakan yang berupa uji validitas oleh dua praktisi guru pembelajaran biologi dan dua sebaia ahli bidang pendidikan dan keilmuan biologi

Produk penelitian dan pengembangan yang dihasilkan adalah perangkat pembelajaran berupa silabus, RPP, serta media dan sumber belajar. Hasil validasi produk menunjukkan bahwa silabus memperoleh nilai validitas sebesar 91%, RPP memperoleh nilai validitas sebesar 86%, serta media dan sumber belajar memperoleh nilai validitas sebesar 84% dengan kriteria “Baik”. Produk tersebut dinyatakan layak untuk diujicobakan secara terbatas dengan revisi sesuai dengan komentar/saran perbaikan dari para validator.

Kata kunci: *Flipped classroom*, Edmodo, Metabolisme

ABSTRACT**DEVELOPMENT OF FLIPPED CLASSROOM MODEL BASED ON EDMODO FOR 12th GRADE STUDENTS IN METABOLISM MATERIAL**

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The problems and challenges of education are now growing. The needs analysis results conducted in five public schools in Magelang Regency showed that student activity is the main problem. Students also have difficulty understanding metabolism because this material is quite complex. Teachers need a learning model that is able to activate students and overcome metabolism problems. The flipped classroom based on edmodo has the potential to solve problems and can be applied in blended learning. Edmodo is able to support to learning activities. This study aimed to develop and determine the feasibility of the Edmodo-based flipped classroom model for the material of metabolism for 12th-grade students.

This research was a Research and Development with the Borg and Gall model which has been modified by Sugiono but only carried out until the design revision stage (design revision). The research stage began with a needs analysis, then continued with product design, product development, and a feasibility test in the form of a validity test by two biology learning teacher practitioners and two biology education and scientific experts.

The research and development products produced were learning tools in the form of syllabus, lesson plans, media, and learning resources. The results of product validation showed that the syllabus reached a validity value of 91%, lesson plans reached a validity value of 86%, and media & learning resources reached a validity value of 84% with the criteria of "Good". The product was declared feasible to be tested on a limited basis with revisions based on the comments for improvement from the validators.

Keywords: *Flipped classroom, Edmodo, Metabolism*