ABSTRAK

Maulidiah Hasyanah, NIM: 5171111010, "Pengembangan Strategi Pembelajaran *Blended Learning* **Berbasis** *Moodle* **Pada Mata Pelajaran Konstruksi Dan Utilitas Gedung Kelas XI Bidang Keahlian Desain Pemodelan dan Informasi Bangunan SMK Negeri 5 Medan." Program Studi Pendidikan Teknik Bangunan. Fakultas Teknik – Universitas Negeri Medan. 2022.** Penelitian ini bertujuan untuk: (1) Mengetahui prosedur pengembangan strategi pembelajaran *blended learning* berbasis *Moodle* pada mata pelajaran Konstruksi dan Utilitas Gedung siswa kelas XI Bidang Keahlian DPIB di SMK Negeri 5 Medan Semester Ganjil Tahun Ajaran 2021/2022. (2) Mengetahui kelayakan produk strategi pembelajaran *blended learning* berbasis *Moodle* pada mata pelajaran Konstruksi dan Utilitas Gedung untuk siswa kelas XI Bidang Keahlian DPIB SMK Negeri 5 Medan.Lokasi penelitian ini dilakukan pada Program Keahlian Desain Pemodelan dan Informasi Bangunan SMK Negeri 5 Medan. Metode yang digunakan dalam penelitian ini adalah Penelitian dan Pengembangan *(Research and Development)* dengan model pengembangan ADDIE. Model ADDIE memiliki lima tahap utama, yaitu *Analysis* (Analisis), *Design* (Perancangan), *Development* (Pengembangan), *Implementation* (Implementasi), *Evaluation* (Evaluasi). *Instrument* yang digunakan berupa angket untuk menguji kelayakan strategi pembelajaran *Blended Learning* berbasis *Moodle* melalui validasi ahli materi dan ahli media serta penilaian dari siswa (pengguna). Data dianalisis dengan Teknik statistic deskriptif. Berdasarkan penelitian ini, hasil validasi oleh ahli materi diperoleh skor 4,5 dengan kategori "Sangat Layak", hasil validasi ahli media diperoleh skor 4,6 dengan kategori "Sangat Layak", hasil penilaian pengguna (siswa) memperoleh skor 4,4 dengan kategori "Sangat Layak". Maka dapat disimpulkan bahwa pembelajaran berbasis Moodle sangat layak digunakan sebagai strategi pembelajaran bagi siswa kelas XI Program Keahlian Desai Pemodelan dan Informasi Bangunan SMK Negeri 5 Medan.

Kata Kunci: Pengembangan Strategi Pembelajaran, *Blended Leraning, Moodle,* dan Konstruksi Dan Utilitas Gedung.

ABSTRACT

Maulidiah Hasyanah, Register number: 51711111010, "Development a Blended Learning Strategies based on Moodle in Construction and Building Utilities Subjects grade XI in the Field of Modeling Design and Building Information Expertise at SMK Negeri 5 Medan." Building Engineering Education Study Program. Faculty of Engineering – Medan State University. 2022. This study aimed to: (1) Find out the procedure for developing a blended learning strategy based on Moodle in the subject of Construction and Building Utilities for grade XI students of DPIB Expertise at SMK Negeri 5 Medan in Odd Semester for the Academic Year 2021/2022. (2) Knowing the feasibility of the Moodle-based blended learning strategy product in the subject of Construction and Building Utilities for grade XI students of DPIB Expertise at SMK Negeri 5 Medan. The location of this research was carried out at the Modeling and Building Information Design Expertise Program at SMK Negeri 5 Medan. The method used in this research was Research and Development with the ADDIE development model. The ADDIE model has five main stages, namely Analysis, Design, Development, Implementation, Evaluation. The instrument used is in the form of a questionnaire to test the feasibility a blended learning strategies based on Moodle through the validation of material experts and media experts as well as assessments from students (users). Data were analyzed by descriptive statistical technique. Based on this study, the results of the validation by material experts obtained a score of 4.5 with the category "Very Eligible", the results of the validation of media experts obtained a score of 4.6 with the category "Very Eligible", the results of the user assessment (students) obtained a score of 4.4 with the category "Very Worthy". So it can be concluded that Moodle-based learning is very feasible to be used as a learning strategy for grade XI students of the Modeling and Building Information Design Expertise Program at SMK Negeri 5 Medan.

Keywords: Learning Strategy Development, Blended Learning, Moodle, and Building Construction and Utilities.