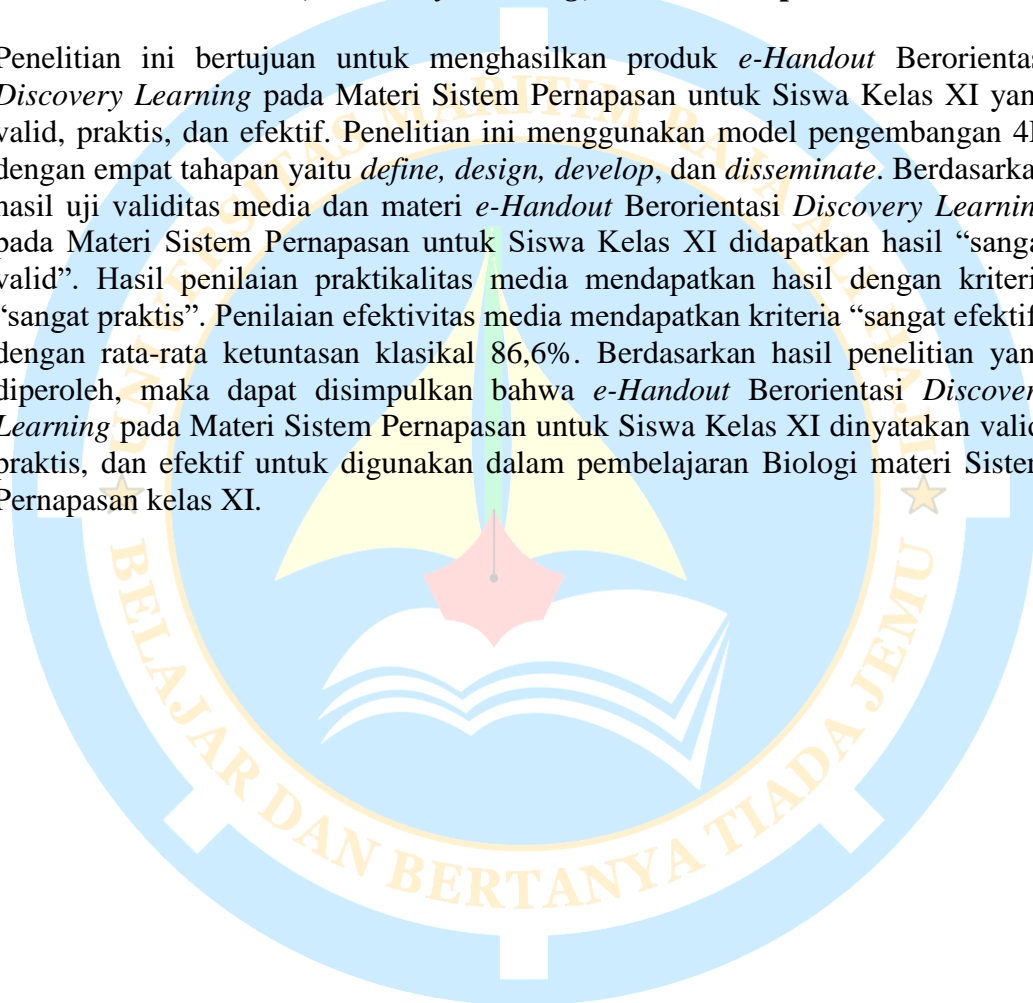


ABSTRAK

Taqiya, Nurul Rifqi. 2022. *Pengembangan e-Handout Berorientasi Discovery Learning pada Materi Sistem Pernapasan untuk Siswa Kelas XI*. Skripsi. Tanjungpinang. Jurusan Pendidikan Biologi, Fakultas Keguruan dan Ilmu Pendidikan. Universitas Maritim Raja Ali Haji. Pembimbing I: Assist. Prof. Elfa Oprasmani, S.Pd., M.Pd. Pembimbing II: Assist. Prof. Dr. Hj. Nevrita, M.Pd., M.Si.

Kata kunci: *e-Handout, Discovery Learning, Sistem Pernapasan*

Penelitian ini bertujuan untuk menghasilkan produk *e-Handout* Berorientasi *Discovery Learning* pada Materi Sistem Pernapasan untuk Siswa Kelas XI yang valid, praktis, dan efektif. Penelitian ini menggunakan model pengembangan 4D dengan empat tahapan yaitu *define, design, develop, dan disseminate*. Berdasarkan hasil uji validitas media dan materi *e-Handout* Berorientasi *Discovery Learning* pada Materi Sistem Pernapasan untuk Siswa Kelas XI didapatkan hasil “sangat valid”. Hasil penilaian praktikalitas media mendapatkan hasil dengan kriteria “sangat praktis”. Penilaian efektivitas media mendapatkan kriteria “sangat efektif” dengan rata-rata ketuntasan klasikal 86,6%. Berdasarkan hasil penelitian yang diperoleh, maka dapat disimpulkan bahwa *e-Handout* Berorientasi *Discovery Learning* pada Materi Sistem Pernapasan untuk Siswa Kelas XI dinyatakan valid, praktis, dan efektif untuk digunakan dalam pembelajaran Biologi materi Sistem Pernapasan kelas XI.



ABSTRACT

Taqiya, Nurul Rifqi. 2022. *Development of Discovery Learning Oriented e-Handout on Respiratory System Material for Class XI Students*. Thesis. Tanjungpinang. Department of Biology Education, Faculty of Teacher Training and Education. University of Maritime Raja Ali Haji. Advisor: Assist. Prof. Elfa Oprasmani, S.Pd., M.Pd. Co-Advisor: Assist. Prof. Dr. Hj. Nevrita, M.Pd., M.Si.

Keywords: e-Handout, Discovery Learning, Respiratory System

This study aims to produce a Discovery Learning-Oriented e-Handout product on Respiratory System Materials for Class XI Students that is valid, practical, and effective. This research uses a 4D development model with four stages, namely define, design, develop, and disseminate. Based on the results of the media validity test and Discovery Learning-Oriented e-Handout materials on Respiratory System Materials for Class XI Students, the results were "very valid". The results of the assessment of the practicality of the media get results with the criteria of "very practical". The media effectiveness assessment received the "highly effective" criterion with an average classical completion of 86.6%. Based on the results of the research obtained, it can be concluded that the Discovery Learning-Oriented e-Handout on Respiratory System Material for Class XI Students is declared valid, practical, and effective for use in learning Biology of class XI Respiratory System material.

