ABSTRAK

Sri Wahyu Sihotang, NIM 4203341030 (2020), Pengembangan Modul Materi Animalia Berbasis *Case Based Learning* dan Pengaruhnya Terhadap Kemampuan Berpikir Kritis Siswa Kelas X SMA N 12 Medan T.P 2023/2024.

Penelitian ini bertujuan untuk mengetahui bentuk modul materi animalia berbasis *Case based learning,* mengetahui kelayakan modul materi animalia berbasis *Case based learning.* Selain itu penelitian ini juga bertujuan untuk mengetahui respon guru dan respon siswa akan kemenarikan modul materi animalia berbasis *Case based learning.* Untuk mengetahui efektifitas modul materi animalia berbasis *Case based learning* maka dilaksanakan pembelajaran dengan menggunakan modul. Di awal dan setelah pembelajaran selesai, dilakukan tes kemampuan kerpikir kritis siswa. Untuk mengetahui pengaruh modul materi animalia berbasis *case based learning* terhadap kemampuan berpikir kritis siswa dilakukan uji-T.

Hasil penelitian menunjukkan bentuk modul materi animalia berbasis *case based learning* dikembangkan berdasarkan sintaks pembelajaran berbasis CBL. Modul terdiri dari dua kegiatan pembelajaran yaitu kegiatan belajar 1 materi invertebrata dan kegiatan belajar 2 materi vertebrata. Kelayakan modul materi animalia berbasis *case based learning* berdasarkan penilaian adalah sangat layak. Modul animalia berbasis *case based learning* menurut respon siswa adalah sangat menarik (nilai kemenarikan = 97,67). Modul materi animalia berbasis *case based learning* efektif berdasarkan nilai kemampuan berpikir kritis siswa pada kelas menggunakan modul 87 (sangat tinggi). Sedangkan pada kelas yang menggunakan buku paket 79 (tinggi). Berdasarkan hasil uji N-gain kemampuan berpikir kritis siswa, modul juga dikatakan efektif dengan N-Gain 0,80 (tinggi). Sedangkan pada kelas yang menggunakan buku paket dikatakan efektif dengan N-Gain 0,67 (sedang). Modul materi animalia berbasis case based learning efektif berpengaruh signifikan meningkatkan kemampuan berpikir kritis siswa.

Kata kunci : *Modul, Case Based Learning, Kemampuan Berpikir Kritis*

ABSTRACT

Sri Wahyu Sihotang, NIM 4203341030 (2020), Development of Case Based Learning-based Animalia Material Modules and Their Effect on Critical Thinking Skills of Class X Students of SMA N 12 Medan T.P 2023/2024.

This study aims to determine the form of animalia module material based on Case-based learning, determine the feasibility of animalia module material based on Case-based learning. In addition, this study also aims to determine the teacher's response and student's response to the attractiveness of the Case-based learning module. To determine the effectiveness of the Case-based learning animal material module, learning is carried out using the module. At the beginning and after the learning is completed, students' critical thinking skills are tested. To determine the effect of case-based learning module on students' critical thinking skills, a t-test was conducted.

The results showed that the case-based learning animalia module was developed based on CBL-based learning syntax. The module consists of two learning activities, namely learning activity 1 invertebrate material and learning activity 2 vertebrate material. The feasibility of the case-based learning animalia module based on the assessment is very feasible. Animalia module based on case-based learning according to student responses is very interesting (attractiveness value = 97.67). Case-based learning animalia module is effective based on students' critical thinking ability score in the class using the module 87 (very high). While in the class that used the textbook 79 (high). Based on the N-gain test results of students' critical thinking skills, the module is also said to be effective with an N-Gain of 0.80 (high). Meanwhile, the class that used the textbook was said to be effective with an N-Gain of 0.67 (medium). The case-based learning-based animalia material module has a significant effect on improving students' critical thinking skills.

Keywords: *Module, Case Based Learning, Critical Thinking Ability*