

ABSTRAK

Agustina Alemina Br Limbong, NIM 4203341019 (2024). Pengembangan *E-Booklet* Keanekaragaman Jenis Tanaman Obat Sebagai Sumber Belajar Siswa SMA Negeri 1 Berastagi.

Penelitian ini bertujuan untuk mengetahui jenis tumbuhan obat yang ada di Kecamatan Berastagi, mengetahui tingkat kelayakan *E-Booklet* keanekaragaman tumbuhan obat menurut ahli materi, ahli media serta mengetahui respon guru biologi dan siswa kelas X di SMA Negeri 1 Berastagi dan untuk mengetahui efektivitas penggunaannya sehingga menghasilkan *e-booklet* keanekaragaman tanaman obat yang layak digunakan siswa dalam pembelajaran biologi. *E-Booklet* ini dikembangkan dengan model Thiagarajan (4-D) yang terdiri dari 4 tahap yaitu pendefinisian, perancangan dan pengembangan dan penyebaran. Hasil validasi menurut ahli materi, ahli media diperoleh persentase 89% dan 92% dengan kriteria sangat layak, untuk respon hasil respon guru biologi diperoleh 91.67% dengan kriteria sangat layak, untuk respon siswa berdasarkan uji perorangan, kelompok kecil dan kelompok terbatas secara berurutan memperoleh persentase 92.67%, 95.5%, dan 91% dengan kriteria sangat baik. *E-Booklet* yang telah dinyatakan layak selanjutnya diuji efektifitasnya kepada 36 orang siswa. Hasil skor Uji-t menunjukkan nilai signifikan sebesar $0.000 < 0.05$ yang menunjukkan bahwa terdapat perbedaan hasil belajar antara kelas eksperimen dan kelas kontrol. Hasil skor *N-Gain* sebesar 0.76 dengan skor *N-Gain* dikategori tinggi.

Kata Kunci : *E-Booklet*, Tumbuhan Obat, Kecamatan Berastagi, Keanekaragaman hayati



ABSTRACT

Agustina Alemina Br Limbong, NIM 4203341019 (2024). Development of Medicinal Plants Diversity *E-Booklet* as a Learning Resource for Students on SMA Negeri 1 Berastagi

This study aims to determine the types of medicinal plants in the Berastagi District, determine the appropriateness of the medicinal plant diversity *e-booklet* according to material experts, media experts, and to find out the responses of biology teachers and class X students at SMA Negeri 1 Berastagi, and to find out the effectiveness of their use so that produce *e-booklet* of medicinal plants diversity that are suitable for use by students in learning biology. The *e-booklet* was developed using the Thiagarajan model (4-D), which consists of 4 stages: defining, designing, developing, and disseminating. The validation results according to material experts and media experts respectively obtained percentages of 89% and 92%, with very good criteria for biology teacher response results obtained a percentage 91.67% with very good criteria and for student response results based on the results individual, small group and limited group responses respectively obtained percentages of 92.67%, 95.5%, and 91% with very good criteria. The effectiveness of *e-booklets* that have been declared appropriate is then tested on 36 students. The results of the independent samples t-test show that the significance value is $0.000 < 0.05$, which shows that there is a difference in learning outcomes between the experimental class and the control class. The results of the *N-Gain* scores 0.76, with the *N-Gain* in high category.

Keywords : *E-Booklet*, Medicinal Plants, Berastagi District, Biodiversity

