

ABSTRAK

Ucia Mahya Dewi. NIM. 8176141011. Pengembangan Penuntun Praktikum Biokimia Terintegrasi *Discovery Learning* Untuk Mahasiswa Program Studi Agroteknologi Di Universitas Medan Area. Tesis. Medan: Program Studi Pendidikan Kimia, Pascasarjana Universitas Negeri Medan. 2019.

Penelitian ini bertujuan untuk memperoleh penuntun praktikum Biokimia terintegrasi *discovery learning* sesuai SNPT di program studi Agroteknologi, mengetahui perbedaan peningkatan hasil belajar mahasiswa yang menggunakan penuntun praktikum Biokimia terintegrasi *discovery learning* dengan mahasiswa yang menggunakan penuntun yang ada di Universitas serta melihat respon mahasiswa terhadap penuntun praktikum Biokimia terintegrasi *discovery learning*. Penelitian ini termasuk penelitian pengembangan (*research and development*) dengan model ADDIE. Sampel dipilih menggunakan teknik *purposive sampling*. Sampel penelitian ini adalah mahasiswa Agroteknologi yang terdiri dari 2 kelas yaitu kelas eksperimen I dan kelas eksperimen II masing-masing sebanyak 20 mahasiswa. Instrumen dalam penelitian ini adalah lembar uji kelayakan penuntun praktikum berdasarkan SNPT, tes hasil belajar mahasiswa yang dianalisis menggunakan uji *Independent Sample T-test* pada program SPSS 17.0 *for windows* dan angket respon mahasiswa. Hasil penelitian menunjukkan bahwa (1) Penuntun praktikum Biokimia terintegrasi *discovery learning* yang dikembangkan telah valid dan layak digunakan sesuai SNPT dengan nilai rata-rata keseluruhan 3,86 (2) Terdapat perbedaan peningkatan hasil belajar mahasiswa yang menggunakan penuntun praktikum Biokimia terintegrasi *discovery learning* dengan mahasiswa yang menggunakan penuntun praktikum Biokimia yang ada di Universitas, (3) Respon mahasiswa terhadap penuntun praktikum Biokimia terintegrasi *discovery learning* yang dikembangkan tergolong sangat baik dengan rata-rata sebesar 88,6 %.

Kata Kunci: agroteknologi, *discovery learning*, penuntun praktikum Biokimia



ABSTRACT

Ucia Mahya Dewi. NIM. 8176141011. *Development of Biochemical Laboratory Practical Guides Integrated Discovery Learning for Agrotechnology Study Program Students at University Of Medan Area.* Thesis. Medan: Department of Chemistry Education, Postgraduate of State University of Medan, 2019.

This research aims to obtain Biochemical laboratory practical guides integrated discovery learning according to SNPT in Agrotechnology study program, knowing the differences in the improvement of student learning results using Biochemical laboratory practical guides integrated in discovery learning with students using existing guidance at University, and to get student responses to integrated Biochemical laboratory practical guides integrated discovery learning. This research is kind of research & development by ADDIE model. Sample was selected using a purposive sampling technique. Sample was studied on Agrotechnology students consist of 2 classes which namely experimental group I and experimental group II, class of 20 students each. The instrument in this study was the feasibility test sheet for laboratory practical guides based on SNPT, student learning results tests were analyzed using the Independent Sample T-test on the SPSS 17.0 for windows program, and student's responses questionnaire. The results showed (1) Biochemical laboratory practical guides integrated discovery learning which developed was valid and feasible to use according to the SNPT with an overall average value of 3.86 (2) There are differences in the improvement of student learning results using Biochemical laboratory practical guides integrated discovery learning with students who used the Biochemical laboratory practical guides at University, (3) Student response to Biochemical laboratory practical guides integrated discovery learning which developed was excellence with an average of 88.6%.

Keyword : *agrotechnology, biochemical laboratory practical guides, discovery learning.*

