

ABSTRAK

Ersalinda: **Pengembangan Bahan Ajar Biokimia Materi Karbohidrat Dengan Model *Problem Based Learning* Sesuai Kurikulum KKNI**. Tesis. Medan Program Studi Pendidikan Kimia, Pascasarjana Universitas Negeri Medan, 2017.

Penelitian ini bertujuan untuk memperoleh bahan ajar Biokimia materi karbohidrat terintegrasi model *problem based learning* (PBL) sesuai kurikulum KKNI di prodi Agroteknologi fakultas Pertanian Universitas Graha Nusantara. Populasi penelitian adalah semua buku Biokimia yang digunakan di prodi Agroteknologi, semua dosen Biokimia di Unimed dan UGN, serta mahasiswa prodi Agroteknologi semester II yang mengambil mata kuliah Biokimia sejumlah 25 orang. Penelitian ini adalah penelitian pengembangan *Research and Development* (R&D) yang terdiri dari; (1) tahap awal analisis buku Biokimia; (2) tahap pengembangan bahan ajar terintegrasi PBL sesuai kurikulum KKNI; (3) tahap validasi sesuai standart kelayakan BSNP (modifikasi); (4) Revisi dan (5) tahap uji coba. Data dianalisis secara deskriptif. Hasil penelitian tahap awal buku Biokimia diperoleh nilai rata-rata kelayakan 3,09 termasuk kategori layak, tetapi belum terintegrasi PBL dan belum sesuai kurikulum KKNI. Hasil validasi kelayakan bahan ajar yang dikembangkan diperoleh nilai rata-rata 3,28 termasuk kategori sangat layak dan respon mahasiswa diperoleh 3,28 termasuk kategori sangat layak. Hasil ujicoba bahan ajar yang dikembangkan menunjukkan rata-rata aktivitas mahasiswa sebesar 66,04 termasuk kategori aktif dan rata-rata hasil belajar mahasiswa yang ditunjukkan nilai gain diperoleh sebesar 0,65 (65%) termasuk kategori sedang.

Kata Kunci : Bahan ajar, biokimia materi karbohidrat, model *problem based learning*, kurikulum KKNI

ABSTRAC

Ersalinda: **Development of Biochemistry Teaching Material Carbohydrate Material With Problem Based Learning Model Based on KKNI Curriculum.** Thesis. Medan: Study Program of Chemistry, Graduate University of Medan, 2017.

This study aims to obtain teaching materials carbohydrate of Biochemistry integrated model problem based learning (PBL) according to the curriculum KKNI Agroteknologi Agricultural Faculty Prodi of Graha Nusantara University. The research population is all Biochemistry books used in Agrotechnology Prodi, all lecturers of Biochemistry in Unimed and UGN, and Unimed Chemistry lecturer, and Agrotechnology Prodi student of second semester and who take Biochemistry subject are 25 people. This research is research development of Research and Development (R & D) consisting of; (1) the early stages of Biochemical book analysis; (2) development stage of integrated learning materials of PBL according to KKNI curriculum; (3) validation stage according to BSNP feasibility standard (modification); (4) Revision and (5) test phase. Data were analyzed descriptively. The results of the early stages of the Biochemistry study obtained the average feasibility value of 3.19 including the valid category, but not yet integrated the PBL and not in accordance with the curriculum KKNI. The result of validation of the feasibility of developed learning materials obtained an average score of 3.28 including the category is very valid and the response of students obtained 3.28 including valid categorization. The results of experimental material test developed showed average student activity of 66.04 including the active category and the average of the student learning outcomes indicated that the gain value obtained is 0.65 (65%) including the medium category.

Keywords: teaching materials, carbohydrate material biochemistry, problem based learning model, KKNI curriculum.