

ABSTRACT

Desy Rahmayanti Hasibuan. IDN 8156141002. Influence of Interactive Learning Based On Web in topic of metabolism carbohydrate Towards motivation and Students Learning Independence. Thesis Medan : Program Study Chemistry Education Potgraduate Medan State University 2017

This research was aimed to know the Influence of Interactive Learning Based On Web Towards motivation and Students Learning Independence. The topic of this research was Carbohydrate Metabolism. This research was a development research which was descriptive. The sampling was done by purposive technique in Chemistry Program. Sample was tested as much as 31 students on fourth semester. The result was got from motivation, learning independence, and students respond questionnaire towards learning based on web. Next the result was got from evaluation data (Pretest and posttest), students assignment, and formative score. The questions were 15 question in the form of *multiple choice* and firstly the question was validated. The result was got from motivation questionnaire was 45,16% grouped as High category, learning independence was 32.26% grouped as high category, and students respond towards learning based on web was 51.61% grouped as high category. While the learning results had pretest average was 30.90 and posttest 84.41, assignment of LKM score was 78.60. CBR was 89.19, CJR was 80.65. formative score was 87.78.

Keywords : Interactive Learning Based On Web, Carbohydrate Metabolism, Motivation, learning independence



ABSTRAK

Desy Rahmayanti Hasibuan. Nim 8156141002. Pengaruh Pembelajaran Interaktif Berbasis Web pada Materi Metabolisme Karbohidrat Terhadap Motivasi dan Kemandirian Belajar Mahasiswa. Tesis. Medan: Program Studi Pendidikan Kimia Pascasarjana Universitas Negeri Medan, 2017.

Penelitian ini bertujuan untuk mengetahui pengaruh pembelajaran interaktif berbasis web terhadap motivasi dan kemandirian belajar mahasiswa. Materi pembelajaran pada penelitian ini adalah metabolisme karbohidrat. Penelitian ini adalah penelitian pengembangan (development research) yang bersifat deskriptif. Pengambilan sampel dilakukan dengan teknik purposive sampling di jurusan kimia Unimed. Sampel yang diujicobakan sebanyak 31 orang mahasiswa semester 4. Hasil yang dilihat diperoleh dari data angket motivasi, kemandirian belajar dan respon mahasiswa terhadap pembelajaran berbasis web. Selanjutnya hasil belajar diperoleh dari data evaluasi (pretes-postes), tugas mahasiswa, nilai formatif. Soal yang digunakan sebanyak 15 soal *multiple choice* dan soal yang terlebih dahulu divalidasi. Hasil yang diperoleh adalah motivasi 45.16% tergolong kategori tinggi, kemandirian belajar 32.26% tergolong kategori tinggi, dan respon mahasiswa terhadap pembelajaran berbasis web sebesar 51.61% tergolong kategori tinggi. Sedangkan dari hasil belajar rata-rata nilai pretes 30.90 dan postes 84.41, nilai tugas LKM rata-rata 78.60, CBR rata-rata 89.19, CJR rata-rata 80.65, nilai formatif rata-rata 87.78.

Kata kunci : pembelajaran interaktif berbasis web, metabolisme karbohidrat, motivasi, belajar mandiri

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