

ABSTRAK

Penelitian ini mengkaji *outcomes* mahasiswa di bidang Teknologi Informasi dan Komunikasi (TIK). Penelitian ini mengukur peningkatan *outcomes* mahasiswa di bidang Teknologi Informasi dan Komunikasi (TIK) sebelum dan sesudah mengikuti Mata Kuliah Perencanaan Pengajaran Teknik Elektro dengan menggunakan model pembelajaran *Blended Learning*. Kompetensi yang diukur pada penelitian ini terbagi atas tiga macam yaitu kompetensi dasar operasi komputer, kemampuan mengoperasikan *office* dan *internet*, serta kemampuan di bidang jaringan komputer.

Objek penelitian eksperimen pada skripsi ini, yaitu mahasiswa Jurusan Pendidikan Teknik Elektro angkatan 2009-2010 yang sedang mengikuti Mata Kuliah Perencanaan Pengajaran Teknik Elektro. Data pada penelitian ini berupa data kuantitatif. Metode yang digunakan yaitu eksperimen *one-group pretest posttest design*. Data yang diperoleh berasal dari hasil *pretest* dan *posttest* berbentuk pilihan ganda berjumlah 30 soal. Data yang diperoleh diolah dengan bantuan Program *Microsoft Excel* dan perhitungan secara manual.

Hasil penelitian menunjukkan bahwa perubahan kompetensi Teknologi Informasi dan Komunikasi (TIK) mahasiswa terlihat dari rata-rata *gain* yang signifikan antara sebelum dan sesudah mengikuti *Blended Learning*. Peningkatan *gain* mahasiswa sebesar 39%. Peningkatan *gain* sebesar 39% mengartikan bahwa peningkatan *gain* mahasiswa tergolong sedang Berdasarkan hasil penelitian tersebut terlihat juga peningkatan kompetensi mahasiswa di bidang dasar operasi komputer sebesar 17%, peningkatan kemampuan mengoperasikan *office* dan *internet* sebesar 16% serta peningkatan kompetensi sistem jaringan sebesar 11%. Berdasarkan hasil penelitian tersebut dapat disimpulkan bahwa pembelajaran dengan menggunakan model *Blended Learning* memberikan peningkatan *outcomes* (hasil ikutan) di bidang Teknologi Informasi dan Komunikasi (TIK) sebesar 39%.

ABSTRACT

This research examines student outcomes in the area of Information and Communication Technology (ICT). This research measures the increase in student outcomes in the area of Information and Communication Technology (ICT) before and after participating in Planning Teaching Subjects in Electrical Engineering using the model of learning Blended Learning. Competence which is measured in this study are divided into three kinds, namely basic competencies computer operations, the ability to operate office and internet, as well as in the field of computer networking capabilities.

Experimental research object in this papers, that is students of Electrical Engineering Department of Education who are following the 2009-2010 class Lecture Planning Teaching Electrical Engineering. The data this research in the form of quantitative data. The method used is experimental one-group pretest posstest design. Data obtained from the results of the pretest and posttest were 30 multiple-choice questions. The data obtained were processed with the help of Microsoft Excel program and manual calculation.

The results showed that changes in competence Information and Communication Technology (ICT) students look of the average gain significant between before and after participating in Blended Learning. Improved student gain of 39%. Increased gain of 39% means that an increase in students classified as being gain Based on these results appear also increase student competency in basic computer operations by 17%, increasing the ability to operate office and internet by 16% and increasing the competence network system by 11%. Based on these results it can be concluded that the model of learning by using Blended Learning provides improved outcomes (by-product) in the field of Information and Communication Technology (ICT) by 39%.