

PENERAPAN MEDIA PEMBELAJARAN CAI (COMPUTER ASSISTED INSTRUCTION) MODEL TUTORIAL UNTUK MENINGKATKAN PRESTASI BELAJAR SISWA

Rizki Fajar Muliawan, NIM. 0608696, Pembimbing 1: Dr. Enjang Ali Nurdin, M.Kom; Pembimbing 2 : Drs. Heri Sutarno, M.T; Program Studi Pendidikan Ilmu Komputer FPMIPA UPI Bandung Tahun 2013

ABSTRAK

Penelitian ini dilatarbelakangi oleh adanya permasalahan pada proses pembelajaran merakit personal komputer di sekolah menengah kejuruan (SMK) Ika Kartika Tanggulun Kadungora, berdasarkan hasil wawancara, dimana siswa merasa terganggu dengan suasana pembelajaran yang tidak kondusif, komunikasi antara guru dan siswa tidak berjalan dengan baik. Sehingga siswa mengalami kesulitan dalam memahami materi yang disampaikan oleh guru. Penelitian ini bertujuan untuk mengetahui peningkatan prestasi belajar siswa setelah diterapkannya media pembelajaran (CAI) model tutorial. Metode penelitian yang dilakukan adalah Quasi Eksperiment Pretest-Posttest Group Design, Pada penelitian ini data pokok yang diperoleh adalah prestasi belajar siswa pada domain kognitif dalam pembelajaran Merakit Personal Komputer. Penelitian dilakukan terhadap satu kelompok eksperimen yang kemudian dipisahkan berdasarkan data dari hasil belajar antara kelompok siswa dengan prestasi tinggi, sedang dan rendah. Setelah nilai rata-rata postes dikurangi nilai rata-rata pretes maka diperoleh selisih nilai rata rata n-gain $\langle g \rangle$ untuk melihat peningkatan prestasi belajar siswa. Setelah selesai dilakukan perhitungan analisis data penelitian, terdapat perubahan prestasi belajar siswa yang signifikan pada domain kognitif dalam pembelajaran Merakit Personal Komputer dengan menerapkan media pembelajaran CAI model tutorial.

Kata kunci : computer assisted instruction, tutorial, prestasi belajar siswa,

THE IMPLEMENTATION OF CAI (COMPUTER ASSISTED INSTRUCTION) TUTORIAL MODE TO IMPROVE STUDENTS' LEARNING ACHIEVEMENT

Rizki Fajar Muliawan, NIM. 0608696, First Guidance : Dr. Enjang Ali Nurdin, M.Kom; Second Guidance : Drs. Heri Sutarno, M.T; Program study of Computer Science for Education Mathematics and Science for Education Faculty UPI Bandung year of 2010

ABSTRACT

The research is conducted based on the problem in the learning process of personal computer assembling in vocational school (SMK) IKA KARTIKA Tanggulun Kadungora. Based on the interview, the students shows the inconvenience towards many reasons: the uncomfortable learning atmosphere and the communication barriers between the teacher and the students. It causes difficulties for the students to receive the learning material given. The research is purposed to find out the learning achievement of the students by implementing the Computer Assisted Instruction tutorial mode as the learning media. The methodology of the research is Petest-postest Quasi-Experimental group design. The main data acquired of the research is the learning achievement of the students in the personal computer assembling. The research is conducted to an experimental group which is then divided based on the data acquired from the learning achievement of the students that varies in several results: high, medium, and low score. In order to know the improvement of the learning achievement of the students, the n-gain (g) is acquired by subtracting the average score of postest with the average score of the pretest. After conducting the analysis of the data of the research, it is found that there is a significant difference in the learning achievement of the students in terms of the cognitif domain in applying the computer assisted instruction tutorial mode as learning media in personal computer assembling during the learning activity.

Keywords: Computer Assisted Instruction, tutorial, learning achievement of the students.