

IMPROVED STUDENTS SKILLS IN GPRS DEVELOPMENT - 3G SURVEILANCE SYSTEM ON MULTIPLE AND MOBILE COMMUNICATION CULTURE

by Ahmad Awaluddin Baiti, M.Pd, Nurkhamid, PH.D, TOTOK SUKARDIYONO, M.T, MUSLIKHIN, M.Pd, PURNO TRI AJI, ST.

ABSTRACT

There is a gap between the LPTK output and the working world. This is due to the basic ability of students in electronics lies in their ability to solve electronics cases either partially or complex which is still lacking. On the other hand in the Department of Electronic Engineering and Informatics (JPTEI) in semester four requires the study of Mobile Communication System and Mobile. Observational data showed that students were lacking in their understanding. The above conditions are considered necessary to get attention because the students in the fourth semester have entered the concentration taking. To overcome this requires learning methods that can stimulate students to improve skills.

The learning method chosen is Project Based Learning that is through project-based assignment. This research uses Classroom Action Research design or Classroom Action Research (PTK) with spiral model from Kemmis and Taggart combined with project based learning model (PJBL). The subject of his research is the fourth semester student of JPTEI FT UNY, with a population of 12 people. This classroom action research will be conducted at the Telecommunication Laboratory, JPTEI FT UNY is located at Jl. Colombo No.1 Yogyakarta. The series of research activities is scheduled to begin on the 3rd week of March to the end of July 2017. The data are obtained from observations, field documents, documents and wawacara. The data were analyzed using two quantitative and qualitative analysis methods. Analysis method used is field data analysis model Miles and Huberman. The results of the implementation of Mobile Conversion MK lessons based on Project Based Learning model can improve students' efforts in designing projects. Within four meetings completed one project, with the results of the evaluation ability increased by 1.75 points or 8.28% equivalent. It is known that the process of upgrading the capability of completing the Mobile and Cellular MK Mobile Project can be enhanced through Project Based Learning (PjBL) consisting of six stages; questioning, scheduling, designing, monitoring, assessing, and evaluating. The process of improvement is based on a process from one stage to another.

Kata Kunci: Telecommunications, Project Based Learning, Skills