

ABSTRACT

Nowadays, the development of technology is very rapid even more rapidly than the total population of the world. As the development of the technology the more the demand from various fields. As well as the application of *barcode* technology on student attendance. In general presence in IT Telkom students using paper that will be entered into the *database* by admin, it is not in line with technology advances and to make reduction of admin work effectiveness.

At the end of the project will design an attendance system using *barcode* technology presence as an input. This tool integrates the work system microcontroller ATMEGA328 with a *barcode scanner*, and a *database* on the *server*. In this system has a different way in which *barcodes* student access can only be accessed after receipt *barcode* professors who teach at that time. The process results in the process of reading the *barcode* on the microcontroller and adapted to the faculty *database* available, where appropriate to student attendance data is then entered, after which students can access the system. The resulting output the contents of a *database* code lecturer, course code, lecture halls, and student data is present.

Results have been achieved from the final project is a system that can provide accurate and can provide appropriate student attendance subjects and professors who teach in the form of a *database* automatically.

Key words: *barcode, barcode scanner, ATMEGA328, database*