

ABSTRACT

For everyone, time was very valuable. Due to the density of the time, especially for lecturers, is causing a lot of activities or important promises occur simultaneously at a time. So that the lecturer should choose to the place where they are most needed and often cancel appointments or activities that have been agreed in advance by without giving confirmation. Cancellation of appointments or events without confirmation by the lecturers often make students or the the other academic community wait for a long time. Because of that we need a presence information systems of lecturers.

Presence information systems of lecturers that is designed in this final project using the Arduino Uno, PIR sensor, PC, and Dot Matrix Display. Teacher attendance data input can be done manually by using Attendance Status Information Lecturer N-109 Program created by using Visual Basic 6.0. Data format that can be entered are: Lecturer's Code, Presence Status, and Messages. Automatic input data is performed by a PIR sensor that will detect the presence of the lecturers frequently. 5 volt output (High) will be generated when the sensor detects the lecturers while they are at their table. Otherwise 0 volts output (Low) will be generated when the lecturers are not at their room. Arduino Uno which serves as the system controller will process the data input from the PC and the PIR sensor, then sends the bits that can be decoded by Dot Matrix Display to make running text sentences.

Running text sentences contain information such as "Lecturer Sugondo Present" when the sensor detected the presence of lecturers and "Lecturers Sugondo Absence" for the opposite condition. Running text can also contain the message from the Lecturers such as "Lecturer Denny Darlis (DAD) Absence I'm in a meeting". Thus Attendance Status Information System Lecturer at room N-109 can be realized and can be utilized by the entire academic community of IT Telkom.

Keywords: Arduino Uno, PIR Sensor, Dot Matrix Display, Visual Basic 6.0