ABSTRACT

Monitoring the lecture hall and giving the report within the time frame is one of the most important things. By controlling the tools in the classroom such as; fans, projectors, and lights. Need supervision and further control because the use of tools is always used when the state of the room is empty or not used anymore.

The system consists of 3 (Three) parts ie sensors, processors and actuators. The sensor section consists of sensor Light Dependent Resistor (LDR), Temperature LM35, and Passive Infrared Receiver (PIR). Processor used is NodeMCU to process the results of sensor data. Actuators are used relays as switches as actions for normally closed or normally open .

The device's monitoring and control system has two control systems, automatic control and manual control. When automatic control is active will decide manual control and will run according to the system created. The results of these data will be shown in Thingspeak. when manual control is on, the system will turn off automatic control and all controls are in Blynk application..

Keywords: NodeMCU, Monitoring and Control, Data