

ABSTRACT

The problem that often occurs in broiler chicken farms is the decline in the quality of broiler chickens, this is caused by several factors namely stressed chickens due to unstable temperatures and humidity in broiler chicken coops. Final Project with the title "Monitoring and Control System of Temperature and Humidity in Broiler Chicken Coop". The tool is used to monitor and control the temperature in the chicken coop automatically, this tool uses a temperature and humidity sensor and arduino mega as the main control in the tool. for the process of transferring data between the system and the user using SMS communication using GSM 800L v2 module. If the temperature and humidity exceed the set value, the system will run a heater made of electric filaments and the curtain will open. Conversely, if the temperature and humidity are less than a predetermined value, the system will turn on the DC fan cooler and the curtain will close to ideal temperature and humidity conditions. Based on the results of this Final Project work, it can be concluded maintaining the temperature and humidity in broiler chicken coops really helps breeders get good quality broiler chickens. besides the temperature and humidity monitoring system is very helpful both in terms of time and manpower efficiency because this system works automatically.

Keywords: Automation, Monitoring, Temperature, Humidity, livestock.