SYSTEM DESIGN CONTROL TEMPERATURE AND HUMIDITY ON THE CHILI PLANT WITH FUZZY LOGIC BASED

MICROCONTROLLER

ABSTRACT

Temperature and humidity control applications has been found in various areas of

technology let alone in the field of agriculture. Control of temperature and, humidity is used to

control the temperature of the house chili plant and the plant can grow to produce good quality of

the chili.

Based on the problem, so in this thesis I make the engine temperature and humidity control

using a microcontroller based sensor SHT11 as temperature and humidity sensors and implement

methods of fuzzy logic in the system house chili plants to avoid mistakes in achieving the desired

setpoint for chilli plants can well developed. and the process is done by using RTCDS1307 aeration

that serves to accelerate the process of pollination in chilli plants at the time of her flowering.

the use of a microcontroller by using fuzzy method is able to keep the temperature and

humidity required by the chili is stable so it can produces fresh chili and robust against pest attack

from the surrounding environment.

Keywords: SHT11, RTCDS1307 microcontroller, fuzzy logic control