

ABSTRACT

In the modern era right now, have been developed many device to help human doing them work. In agriculture, sometimes at drying rice process, we often facing to the hard condition. For example, in Indonesian as a tropical country, its rainfall classified high, so farmers have difficult thing when drying rice using sun light. Therefore, need to be developed a device which can drying rice whenever.

Rice can said dry if its water rate have reached 14%, and the rice that nicely to been kept after dried is rice with titrates water among 5- 14%. Make the point drying up that is done on this research which is with measure temperature originally rice utilizes sht11's censor, then gives hot weather via 50 watt's fan and lamp that issues heat, so water content that consists in rice is lifted and by castaway steaming. Rice's container revolves that rice gets heat at all its flank. Heating temperature to be measured utilize lm35's censor will compared to rice's temperature. While processes drying up, rice's temperature and humidity goes on to be controlled by LCD who feature rice's temperature and humidity. Rice's temperature and humidity that then is inserted to in a few membership degree, here after can be translated into fuzzy logics, what with temperature and humidity such a degree of rice comes under is dry, normal, or is still wet?

After doing some experiment, gotten by machine result works to accord ruled instruction deep fuzzy logic's method in processes drying up, which is continually give hot weather up to drying up process, and inserts rice's condition into logistic membership already being designed, among dry, normal or wet. But needed by time that adequately long time to reach set point humidity to 14%.

Keyword : sht11, lm35, fuzzy logic