

ABSTRACT

In developing technologicaling to charge marks sense society innovation for continually looks for various application who can help their work corresponds to area that they understands. Ear mushrooms (*auricularia auricula*) really useful for man health because on Mushroom ears this exists a lot of nutrient content. Ear mushrooms in a state dry can more withstand long time was compared with to mushroom ear in a state wet. If ear mushrooms is heated therefore mucus which resulting to have function as shielding (deactivate) toxicant substance substance that most takes in deep alimentary, well in vegetations toxicant form, pesticide residuum poison, and also poison gets to form heavy metal.

To the effect of this project is create ear dryer mushrooms as substitution of drying up process conventionally which is by bask in the sun. This tool will control self acting drying up process bases temperature in spatial heating (incubator). Single is ATmega8535's chip is utilized as controller in processes electronic ala drying up. Temperature censor that is utilized is LM35'S temperature censor. Weight mushrooms and temperature in hall will be featured on LCD. On this drying up process will get ear mushrooms weight to be dry 1 / 5 weight nab and this weight constitute prevailing standart weight at marketing.

The Result of design of ear dryer mushrooms (*auricularia auricula*) this can dry faster ear mushrooms compared with by the sun shines help. And this tool gets to be utilized at deep hall so helps drying up process when rainy season. Drying-upwith sun-shine help time 14 until with 20 hours, meanwhile with dryer mushrooms needed time just 4 until with 5 hours. This is be faster and secured it's hygiene

Key words: *Auricularia auricula*, Single chip ATmega8535, LM35, LCD, Incubator