Bano, Renz S., Brillantes, Germine Kaye S., Espinosa, Maria Avenia S., Magallanes, Nadine D., Soquias, Jinky Mae V. and Balontong, Anrem J. "**ARDUINO-BASED WATERING FOR AGRICULTURAL CROPS**," Unpublished Undergraduate Thesis, Bachelor of Science in Information Technology major in Network and Security. Northern Iloilo State University, Estancia Iloilo, December

ABSTRACT

This experimental study aimed to determine the performance of Arduino-Based Watering System for moisture when classified according to time and plant. It was aimed to find if there is significant difference on Arduino-Based Watering Systems for Agricultural Crops classified according as to time and plant. Smartphones were used to connect to Arduino device using Bluetooth connection to gathered the soil moisture of a plant. The researchers tested the soil moisture in a plant 1, plant 2, plant 3, plant 4 within 30 minutes interval if the moisture they water the plant. The statistical treatment used in this study were mean, standard deviation, and Kruskal-Wallis H test to compute the data. The result of this study showed there is no significant difference in Arduino-Based Watering System for Agricultural Crops when classified as to time and plant.

Keywords: Arduino-Based Watering System, Soil Moisture. Time, Plant