

ABSTRACT

Title : **Automatic Drip Irrigation System for Vegetables Crops**

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Irrigation water management requires appropriate application of water specifically using it only if necessary. Managing irrigation water needs to combine a method of measuring soil moisture with some method of irrigation scheduling.

The researchers build up a microcontroller-based Automatic Drip Irrigation designed for Vegetables Crops for effective conservation of water. The prototype ADIS features a 3-digit LED display showing the zero to one hundred scale of the soil moisture content, a resistance based probe, a water valve operated by a DC motor and a microcontroller unit that synchronizes the whole automation process.