

Smart Irrigation System

Chaitra Basavaraj Gandarotti, Jyothi, Akash H M, Jaahnnawwie A, Faisal K

Department of Electronics and Communication Engineering
Alva's Institute of Engineering and Technology, Moodbidri, India

Abstract: *With the water requirements in irrigation being large, there is a need for a smart irrigation system that can save about 80 of the water. This prototype aims at saving time and avoiding problems like constant vigilance. It also helps in water conservation by automatically providing water to the plants/gardens depending on their water requirements. It can also prove to be efficient in Agricultural fields, Lawns Parks. As As technology advances, so does the possibility of risk reduction and easy work. Embedded and micro controller systems provide solutions to many problems. This application precisely controls the water system for gardens by using a sensor micro controller system. It is achieved by installing sensors in the field to monitor the soil temperature and soil moisture which transmit the data to the microcontroller for estimation of water demands of plants.*

Keywords: smart irrigation