

# Greenhouse Automation using IoT and Cloud Computing

Atre Ajit<sup>1</sup>, Avhad Sonali<sup>2</sup>, Bhoknal Snehal<sup>3</sup>, Malwade Adinath<sup>4</sup>

U.G. Student, Department of Production Engineering<sup>1,2,3,4</sup>  
Assistant Professor, Department of Production Engineering<sup>5</sup>  
Amrutvahini College of Engineering, Sangamner, Maharashtra, India

**Abstract:** Irrigation is an important task when comes to farming. India is also known for its farming outputs based on several methods used while irrigating a farm field which involves manpower, water resource and most importantly availability of water. So to save these efforts and the water, we are proposing a system where the manual work will be replaced with automated system which is capable enough to irrigate field automatically without human interventions. Automated system here is designed for Green-house which consist of Soil moisture sensor which will sense the soil- moisture content of the soil and based on that the system will operate the pumps and irrigation process is carried out. Another parameter is temperature within Green-house, so we are using temperature sensor to sense the temperature in Green-house and the temperature cooling mechanism will get operated. Android will act as a user interface where the user can manipulate system using the device and also gets the information related to its farm field.

**Keywords:** Cloud Computing

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