

## **GSM BASED RAIN FALL DETECTOR USING ARDUINO**

**N. ANJU LATHA & B. RAMA MURTHY**

Department of Instrumentation, Sri Krishnadevaraya University, Anantapur, A.P., India

### **ABSTRACT**

The climate change is one of the most important factors affecting the quality of life and the activity of the increasingly population. A sensor is a device that converts one type of energy to another. Arduino is a small microcontroller board with a USB plug to connect to the computer. The Arduino board senses the environment by receiving input from a variety of sensors and can affect its surroundings by controlling lcds, speakers, motors and GSM module.

The rain sensor module with LM393 is used for measured for rain fall measurement. The rain sensor module is interfaced with an Arduino. The Arduino interfaced with LabVIEW software with LIFA tools. The real-time measuring results are transferred as text message to specified mobile number, software are used to predict the rain level of flood locations. GSM SIM900 Modem is interfaced to Arduino for text messaging.

**KEYWORDS:** ATmega328, LM393, LIFA, GSM SIM900