

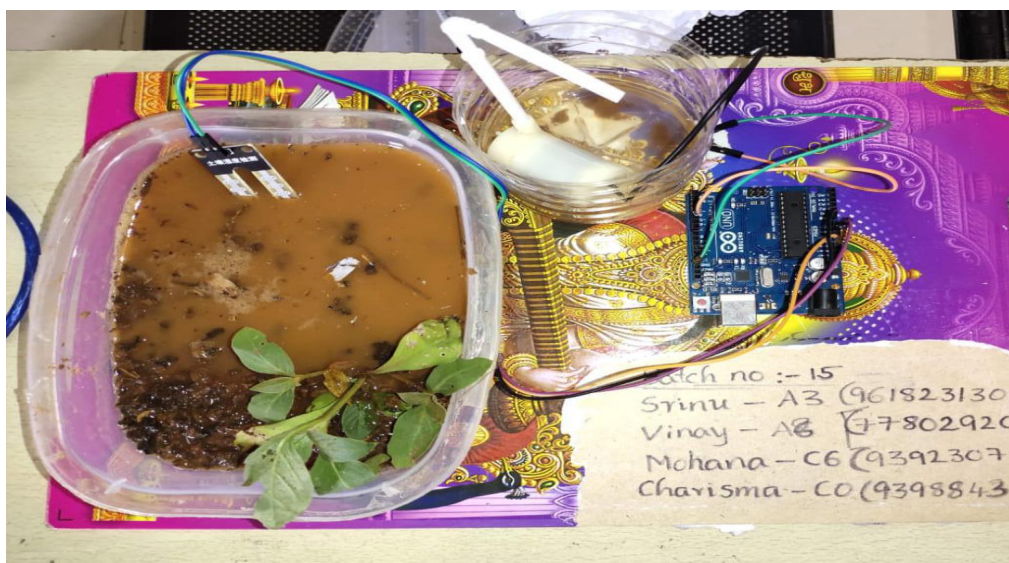
## Student's Societal Centric Project: CEER (2020-2021)

**Title:** Plant Irrigation system using soil moisture sensor

**Students:** CSE (VR-20, Program Code -05)

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- Arduino is used for controlling whole the process of this Automatic Plant Watering System.
- I have used a self made water pump in this system using 5 volt DC motor. I could use 12 volt water pump in the system but to operate this, it will require a relay module.
- In this system, soil moisture sensor senses the moisture level of the soil.
- I use DC motor to make water pump. DC motor has two leads one is positive and another one is negative.
- When the moisture is more then the value of resistance will decrease and when the moisture is less then the resistance value is more.
- The output of soil sensor circuit is directly connected to digital pin D7 of Arduino.
- Automatic Irrigation System with an Arduino Uno which will irrigate your plants automatically and keep them healthy even when you are out of the town for weeks or months.



Project Guide

CEER-HoD