

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

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

**Students:** CSE (VR-20, Program Code -14)

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- This system monitors the moisture of soil and waters it by 5v DC motor based water pump when needed
- In this system, soil moisture sensor senses the moisture level of the soil.
- We used 12 volt water pump in the system but to operate this, it will require a relay module.
- Developed control algorithms were implemented on an Arduino UNO microcontroller platform.
- System integration resulted in a physical prototype being produced.
- Tests were carried out on the designed machine validating the functionality of the machine.
- Water will be pored into the pot according to the soil moisture

