

MULTI- CONTROLLER FOR MODERN HORTICULTURE

INTRODUCTION

Horticulture being a demanding occupation consumes plenty of water. Therefore a system is required that uses water judiciously. Multi controller system estimate and measure diminution of existing plant moisture in order to operate an irrigation system, restoring water as needed while minimizing excess water use.

SCOPE OF THE WORK

- To grow plants under controlled climatic conditions for optimum yield.
- To design a simple, easy to install, microcontroller-based unit for monitoring the horticulture system automatically.



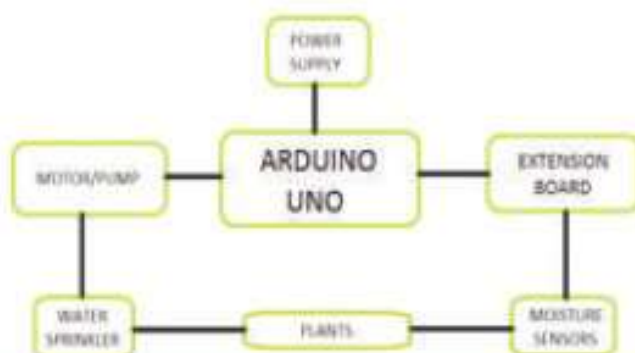
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- To design, build and test the system which will be economical, efficient and reliable

INNOVATION

- Automatic water supply to plants, by using soil moisture sensor.
- The Arduino Uno board is used to control the water pump by using the Arduino IDE software.
- Information regarding temperature obtained by using temperature sensor according to that the temperature controlled inside the green house.



PRODUCT DEVELOPMENT COMPONENT USED

- Arduino Uno board
- Temperature sensor
- Soil moisture sensor
- On/ Off controller
- Water pump