Automatic Irrigation System (Prototype)

Group Members: *Khan Saad (M2020001) , Dhatrak Piyush (M2020002),*
Surve Abhishek (M1910065) ,Sankhe Aniruddha (M1910073)

Mechatronics Mini Project,
Mechanical Engineering Department, Sardar Patel College of Engineering.
Corresponding Faculty: Prof. Sachin Vankar

Abstract:

Agriculture plays a **chiefly role in economy** as well as it is considered to be the backbone of economic system for developing countries. Agricultural robots automate slow, repetitive, and dull tasks for farmers, allowing them to **focus more on improving overall production yields**, which will be vital as the world's population increases. In order to contribute in that domain of development, we have planned to work on the prototype of AUTOMATIC IRRIGATION SYSTEM. In this project, a **Moisture sensor** will be used to maintain the optimum level of moisture for your plants. This system can be implemented, both for your garden or for your Indoor plants thus taking care of your leafy pets when you are away. The logic of this system is very simple. In this system, the moisture sensor senses the moisture level of the soil and when the sensor senses a low moisture level it automatically switches the water pump with the help of a microcontroller and irrigates the plant. After supplying sufficient water, the soil gets retains the moisture hence automatically stopping the pump.