

# The Unnati Mahotsav and Expo 2023

## Report

The Unnati Mahotsav and Expo "Unnati" is an annual event organized by the Unnat Bharat Abhiyan, which provides a platform for educational institutions to showcase innovative projects and technologies. This year, the event was held on 17th and 18th March at IIT Delhi, where participants from all over the country presented their work.

### **Participation of Government Engineering College, Sreekrishnapuram Palakkad:**

The Government Engineering College, Sreekrishnapuram Palakkad, was one of the participants in this year's Unnati Mahotsav and Expo. We utilized the IEDC fund in addition to the financial support provided by Unnat Bharat Abhiyan to participate in this programme. The college presented a project titled "Hydrosense", which aims to solve over-watering and under-watering issues in farm fields by watering them adequately based on the moisture content in the soil.

### **Description of the Hydrosense Project:**

The Hydrosense project is a product-based project developed by a team of final year computer science and engineering students, Amjad, Fayis, Akshana, and Arya, under the guidance of Prof. Joby N J. The project involves the use of sensors to measure the moisture content in the soil and water the fields accordingly. The data collected by the sensors is transmitted to a cloud-based server using IoT technology. The server processes the data and provides real-time information on the moisture content in the soil. This device can be easily integrated to existing plubing system in the farm field. This helps farmers to water their fields adequately, avoiding the problem of over-watering or under-watering.

### **Presentation of the Hydrosense Project at Unnati Mahotsav and Expo:**

The team from Government Engineering College, Sreekrishnapuram Palakkad, presented the Hydrosense project at the Unnati Mahotsav and Expo. The presentation was well received by the audience and the judges, who appreciated the innovative use of technology to solve the problem of over watering and under watering in farm fields. The judges also praised the team's efforts in developing a cost-effective solution that can be easily implemented by farmers.

### **Further Fine-tuning of the Product:**

Under the guidance of Prof. Savyan P V, Unnat Bharat Abhiyan Coordinator, the features of the Hydrosense product were further fine-tuned to make it more effective and user-friendly. This ensured that the product met the requirements of the farmers and was easy to use and maintain.

### **Conclusion:**

The Unnati Mahotsav and Expo "Unnati" is a great platform for educational institutions to showcase their innovative projects and technologies. The participation of the Government Engineering College, Sreekrishnapuram Palakkad, in this year's event with their Hydrosense project is a testimony to the quality of education and research being conducted in the institution. The Hydrosense project has the potential to revolutionize farming practices by providing farmers with an efficient and cost-effective solution to the problem of over-watering and under-watering. The fine-tuning of the product under the guidance of Prof. Savyan P V ensures that the product meets the requirements of the farmers and is easy to use and maintain.

Submitted by

UBA coordinator( Savyan P V)

25/03/23

GEC Sreekrishnapuram