

## Activities of Department of Computer Science under EDC

Following are the various activities held in Department of Computer Science under EDC :

### **1. Projects**

#### a. “Sidechain” by Mr.Alexander Rodrigues, SYBSc

This project focuses primarily on the music community. This project is for individual musicians as well as music groups to use to get their talent recognised and can serve as a starting point for many such people who have no idea where to begin from.

#### b. “SmartAgro” by Mr.Praveen Adithya, Mr.Valdo Fernandes, Mr.Hrishikesh Khedekar, Mr.Vedank Naik

This project focuses mainly on smart farming techniques with the use of digital electronics. It also focuses on automation in farming techniques like sprinkling / irrigation systems, soil management and water quality management and much more to help farmers by making agriculture easier and smarter.

In the starting phase, students are aiming to achieve the following features (PROTOTYPE):

- a. Water quality management (turbidity, Ph levels,alkalinity)
- b. Automatic Water storage control (storing in tank / sump)
- c. Automated sprinkling based on real-time soil moisture levels.

On the successful completion of the basic phase, they will explore their advanced phase:

- a. Mobile app for real-time remote control/ info-sharing / updates on the farming land.
- b. Pest control, flood alerts
- c. Growth monitoring, animal intrusion detection etc.

#### **Further Scope:**

- a. Automated watering can be implemented in other public or private gardens/nursery/household plants.
- b. Commercial complexes or regular apartments and household tanks can be the target market to implement automated tank storage control as well.

## **2. Smart India Hackathon 2019**

Smart India Hackathon 2019 organized by MHRD INNOVATION CELL is a nationwide initiative to provide students a platform to solve some of pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving.

In SIH 2019, the students would also have the opportunity to work on challenges faced within the private sector organisations and create world class solutions for some of the top companies in the world, thus helping the Private sector hire the best minds from across the nation.

Couple of teams, each with 6 members from Department of Computer Science have registered for “Smart India Hackathon 2019” organized by MHRD’S INNOVATION CELL, MHRD