Sarvajanik College of Engineering and Technology, Surat

Electronics and Communication Engineering Department
(Re-Accredited by NBA, New Delhi for 3 yrs, w.e.f 1 July 2022)

A
Report
on

National Level Project Competition

on

"IOT Design Challenge "

Date: 20th October 2023

Venue: EC Dept. Laboratories, SCET

Faculty Coordinators: Prof. (Dr.) Nehal Shah
Prof. (Dr.) Vandana Shah
Prof. (Dr.) Dhiren Bhagat

Head of Department: Prof. (Dr.) Chirag Paunwala

Electronics & Communication Engineering Department, SCET-Surat in association with IETE SCET along with MWTC-Mobile and Wireless Technology Club, SCET had organized a one day National level project competition on "IOT Design Challenge" on 20th October 2023. The competition was arranged for the students of across any engineering colleges of India. There was no registration fee to participate. The motto of the competition was to make the budding technocrats use their technical knowledge to implement and demonstrate application-oriented working models in the domain of IoT and embedded system using NodeMCU, Arduino, Raspberry PI, Web Services, Sensors, Actuators and Network/Internet.

Four specific problem statements were given in the areas of IoT, Smart Classroom, Smart Agriculture, Smart City and Wearable Healthcare Devices. More than 35 teams of 4 students each, from Electronics and Communication, Information Technology, Artificial Intelligence and Computer Engineering from SCET, SVNIT and Bhagwan Mahavir Colleges participated in the competition. The team chose any one problem statement given to them for implementation or chose their own idea for implementation. Students modeled and presented projects on different IoT based topics like Fingerprint Attendance System, Weather Station and Smart Home Automation etc. Internet of Things experts Ashwin Savani and Jaideep Kathiria came and evaluated the students. Students had the opportunity to network and learn from each other to enhance their technical skills. The hard work and dedication of thestudents were reflected in results of the projects they have made.

All the projects were evaluated by eminent juries from industry named 1) Mr. Ashwin Savani, CEO of IoTick, Suart, Gujrat, Product or Solution Architect and 20+ years of experience in various industries and technologies. 2) Mr. Jaydeep Kathiriya, Founder, Techno Vally, working in the domain of Industrial IoT, Industrial battery chargers for railways, Wireless energy meters, Automated test benches for various electronic boards and electric panels. Three groups were announced as winner on 1st, 2nd and 3rd position collectively by both the juries. Two consolation winners were also announced. All participants were given certificate of participation and winners were awarded with prizes sponsored by IETE Surat subcenter.

List of Winners

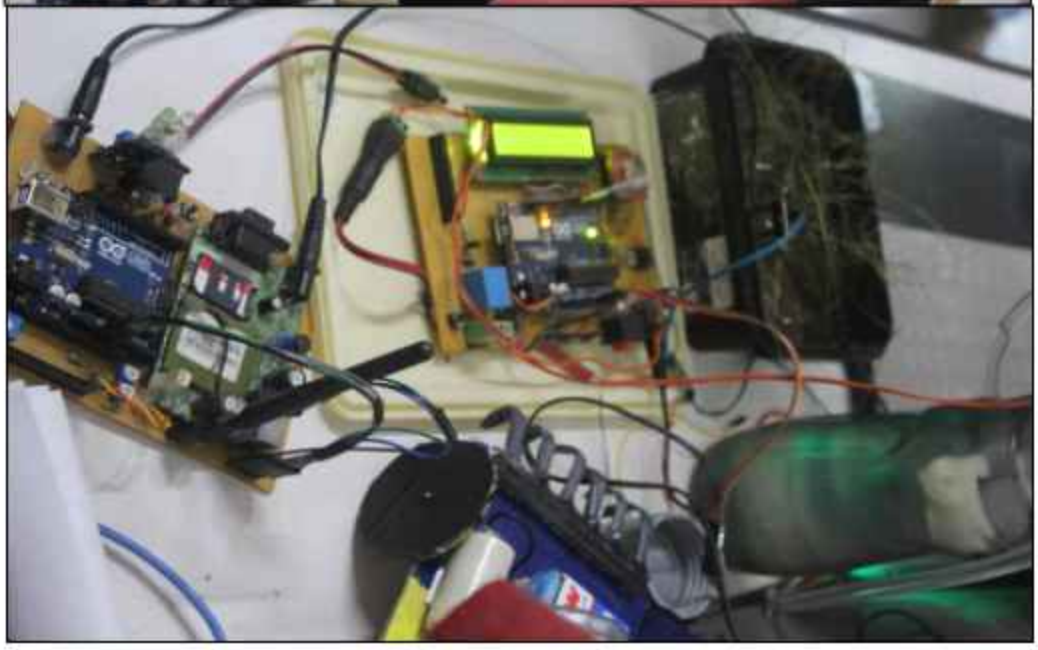
Winners Name	Project Title	Rank
Neel Khanpara, Vatsa Noticewala, Harshit Jain, Sai Charan	SeniorSafe Gradian	1st
Jeel Ramani, Priyanshi Patel, Khushi Harkhani, Sarthak Bosamiya	Smart Attendance System	2nd
Rituraj Bajrang Singh, Aayush Parmar, Niraj Rajput, Rudra Saikiran	Smart Agriculture	3rd

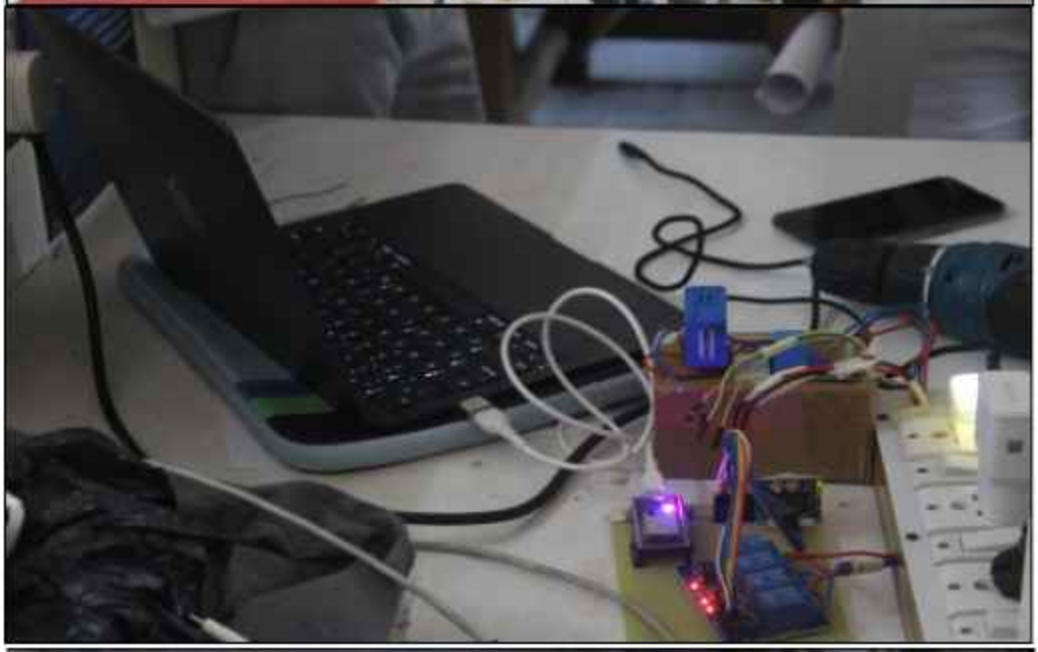
The day was ended well by taking participants feedback whereby students shared their experience of participation in the competition and were really very happy to gain knowledge in this domain. Participants also insisted to organize such kind of competitions in future also. Overall, it was fruitful experience for all participants and coordinators.

Student Coordinators:
Sarthak Bosamiya
Neel Khanpara

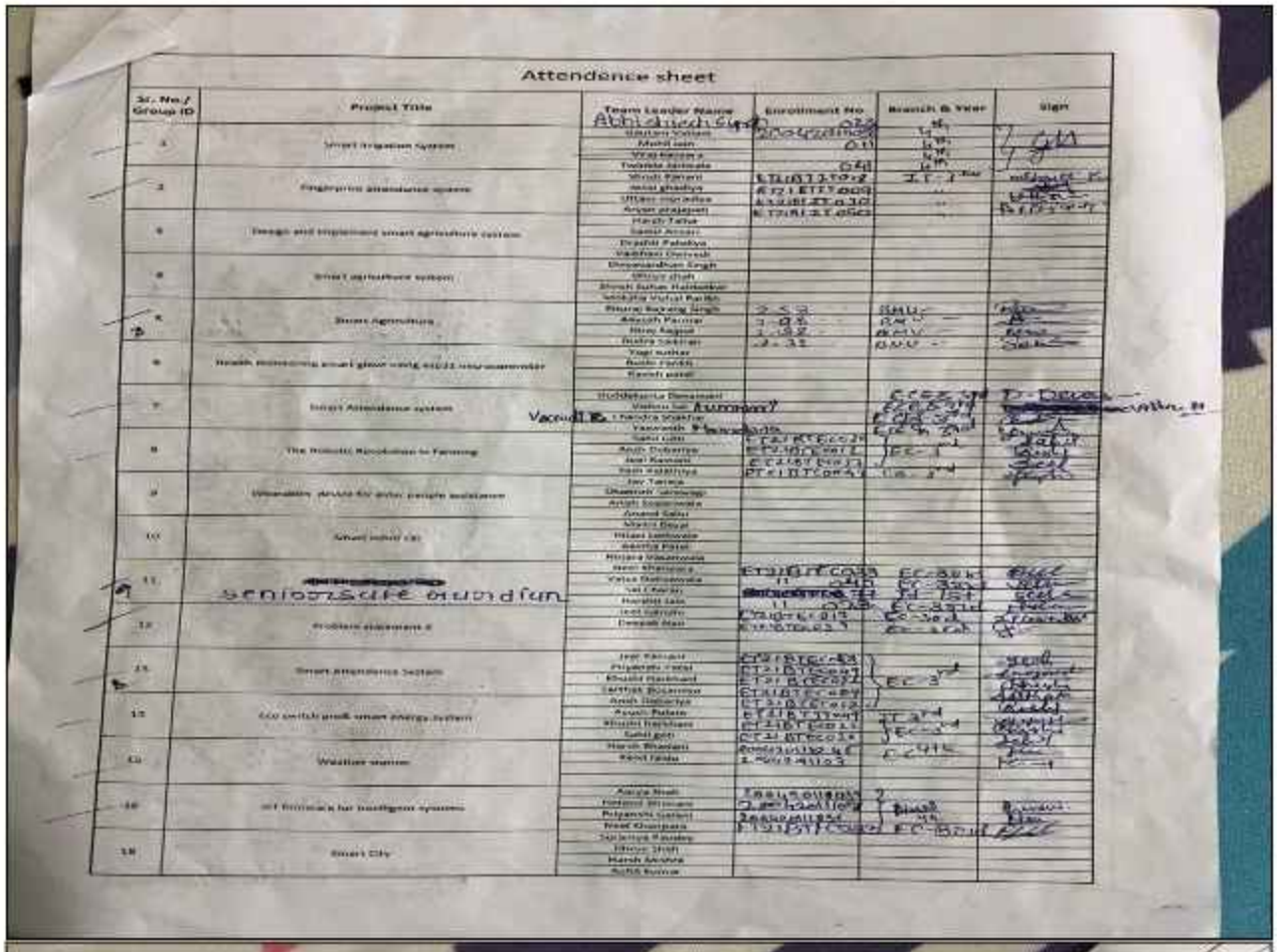
Faculty Coordinators:
Prof. (Dr.) Nehal Shah
Prof. (Dr.) Vandana Shah
Prof. (Dr.) Dhiren Bhagat

Glimpses of the Competition:



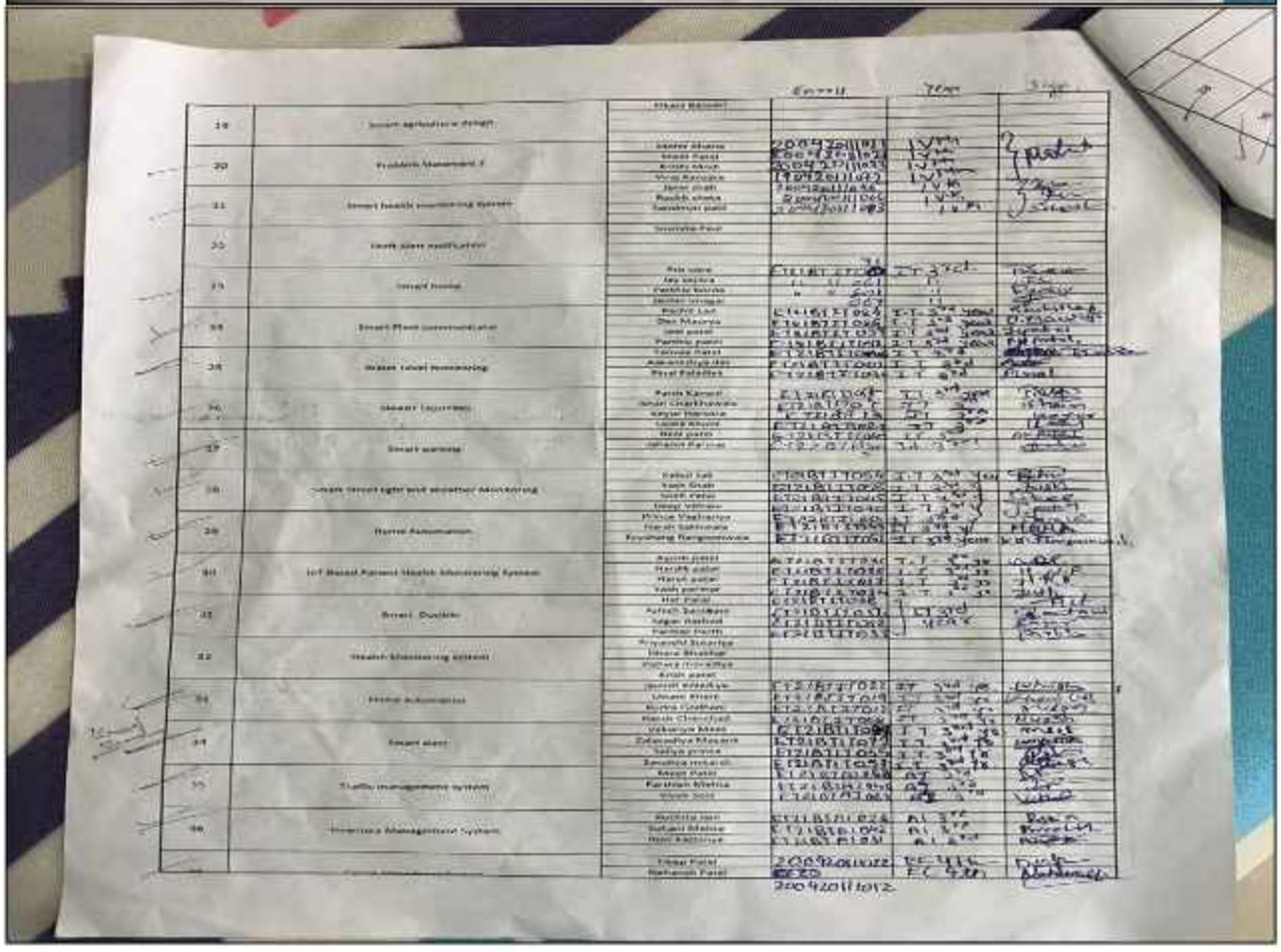


Certificate



Attendance sheet

Sr. No./ Group ID	Project Title	Team Leader Name	Enrollment No	Branch & Year	Sign
1	Smart Irrigation System	Abhishek Singh	23		
2	Fingerprint attendance system				
3	Design and implement smart agriculture system				
4	Smart agriculture system				
5	Smart Agriculture				
6	Health monitoring smart glove using ESP32 microcontroller				
7	Smart Attendance system				
8	The Robotic Revolution in Farming				
9	Wearable device for elder people assistance				
10	Smart robot car				
11	[redacted]				
12	Problem statement 2				
13	Smart attendance system				
14	CO switch and smart energy system				
15	Weather station				
16	IoT firmware for intelligent systems				
17	Smart City				



18	Smart agriculture project				
20	Problem Statement 2				
21	Smart health monitoring system				
22	Health Monitoring system				
23	Home Automation				
24	Smart alert				
25	Traffic management system				
26	Inventory Management System				

Thank You