

Sarvajanik College of Engineering and Technology, Surat
Electronics and Communication Engineering Department
Re-accredited by National Board of Accreditation, New-Delhi for 3
years, w.e.f. July 2019



A
Report
on
State Level Project Competition
on
“Internet of Things-IoT”

Date: 1st October 2021

Venue: EC Dept. Laboratories, SCET

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

Electronics & Communication Engineering Department, SCET-Surat in association with IEEE Gujarat Section and IEEE SCET SB along with MWTC-Mobile and Wireless Technology Club, SCET had organized a one day state level project competition on “Internet of Things-IoT” on 1st October 2021. IEEE SCET SB has been the sponsoring entity for the prize money to be given to winners. The competition was arranged for the students of across any engineering colleges of the state of Gujarat. There was no registration fee to participate. Even participation from outside Gujarat state was also received like Delhi, Calicut, and Chennai. 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, Rasberry PI, Web Services, Sensors, Actuators and Network/Internet.

Total 26 groups have registered and participated in the event. A group consists of 4 students that make total individual students to around 104 participated in the competition. Various projects like Real Time Obstacle Avoidance Autonomous Vehicle, IoT-AR, Smart House, Smart Rack Using IoT, Temperature Screening Based Real Time Attendance System, Mask Detection through ML. Patient Monitoring System were demonstrated by students. The hard work and dedication of the students were reflected in results of the projects they have made. All the projects were evaluated by eminent juries from industry named 1) Mr. Santosh Nanavati, Head Project, Velox Automation Pvt. Ltd, Surat having vast experience in the IoT, Industrial IoT, ML and mobility and control systems. 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 certificate and cash prize in terms of Amazon gift voucher which was sponsored by the IEEE SCET SB.

List of Winners

Winners Name	Project Title	Rank	Amazon eGift Prize Money
Dhwani Shah, Shikha Patel Priyansh Patel, Hiral Patel	Real Time Obstacle Avoidance Autonomous Vehicle	1 st	Rs. 2000
Aarya Shah, Harsh Bhadani Ruchit Sheta, Rishi Joshi	Mask Detection Through ML	2 nd	Rs. 1500
Poojan Dalal, Parth Chavda Abanob Bhanu, Muskan Jhawar	Temperature screening based Real-time Attendance System	3 rd	Rs. 1000

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.

Jury 1:

Mr. Santosh Nanavati, Head Project, Velox Automation Pvt. Ltd., Surat

Qualified senior management professional with over 29 years of experience in engineering, procurement, installation, commissioning in diverse roles across the organizational hierarchy.

Adept at Digitization of Manufacturing Units by IoT, ML & Mobility, Control System/Machine/Equipment Troubleshooting, Maintenance & Project Work amongst others. Trainer for Automation Systems of DCS & PLC of Emerson (DeltaV), Yokogawa (CS3000 FF & ProSafe RS), ABB (AC800 Freelance), Allen Bradley (Logix), Siemens (PCS-7) and PM modules of SAP.

Skilled in conducting preventive, predictive, shutdown & break-down maintenance work with experience in hazardous organization manufacturing units.

Paper presented on cost reduction techniques using Industrial Internet of Things (IIoT) in year 2016, Machine Learning in year 2017, AI in year 2019 at ISA, Maharashtra Section at Mumbai. Lead speaker in online Global IoT Summit organized by GIoTS in year 2019 & 2020.

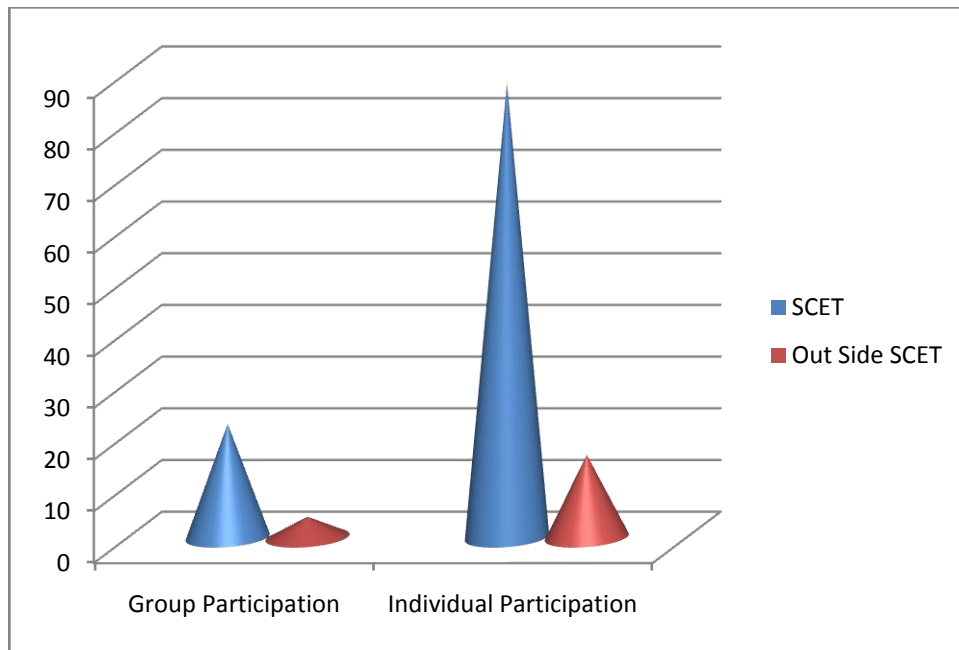
Jury 2:

Mr. Jaydeep Kathiriya, Founder Techno Valley, Surat

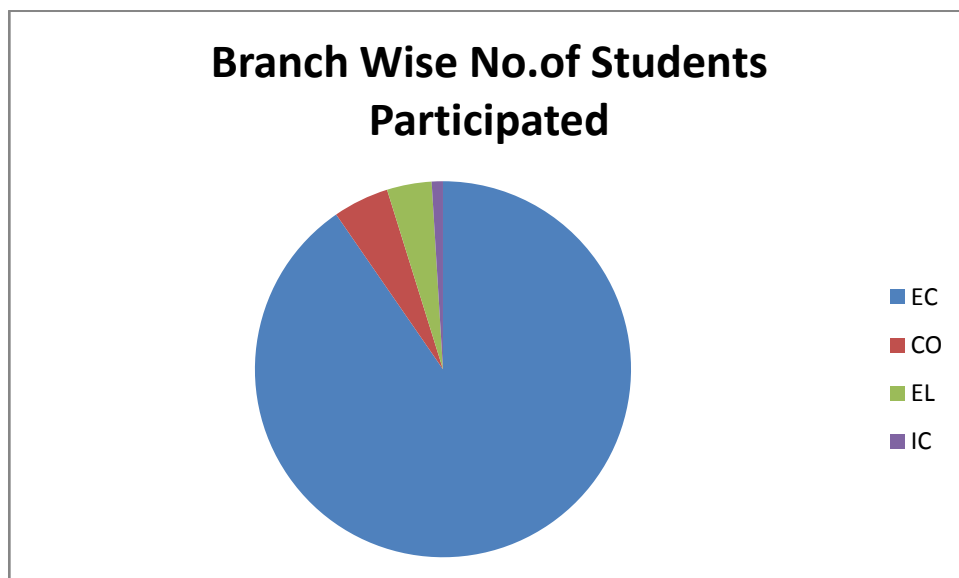
Working on Industrial battery chargers for railways, Electric sub-station and Remote Communication towers, Wireless Fireworks for music shows and outdoor sports celebrations, Battery management systems for Electric Vehicles, Common Rail Diesel Injector system (CRDI), Industrial IOT, Ultra high quality diamond photography, Wireless energy meters, Automated test benches for various electronic boards and electric panels, Multilayer PCB designs, Servo stabilizers.

Participation status college and branch wise:



College	Group	Individuals
SCET	22	88
Out Side SCET	4	16



Branch	No of Students
EC	94
CO	5
EL	4
IC	1



Few Glimpse of the Competition:


IEEE SCET, SB **IEEE Gujarat Section**  

State Level Project Competition
on
Internet of Things - IoT




Organized by Sarvajani College of Engineering & Technology, SCET and IEEE Gujarat Section



Date : **1st October, 2021**
Time : **10:45 AM to 1:30 PM**
Venue : **ECC Department Laboratories**
Prizes : **1st : ₹ 2000 | 2nd : ₹ 1500 | 3rd : ₹ 1000**

Students will demonstrate working model based on NodeMCU, Web Services, Sensors, Actuators and Network/Internet. Open for students across any engineering branches.

 Register Here

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State Level Project Competition
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RULES

- Participation is in a group.
- Min: 2 students/Group Max: 4 students/Group.
- Project components must be managed by participants.
- Laboratory resources like power supply, bread board would be provided.
- Poster must be prepared for presentation comprises of group details, block diagram, brief explanation and other technicalities.
- All group must report 10.00 AM at venue on the event day.

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Online demonstration by outside state participants



SCET, IEEE Gujarat Section, IEEE SCET SB Presents							
IoT Project Competition-1st October 2021-EC Dept-SCET							
Reporting Time: 10.00 AM-Demonstration Time: 10.45 to 1.30 PM							
GRP No	Project Title	Location EC Dept LABs	Team Leader Name	College Name	Branch	Year	Sign
1	Development of IOT	Online	Er. Satyendra Prasad	National Institute of Electronics and Information Technology	Embedded Systems	1st	
2	Wearable textile patch antenna design for medical application	Online	Ganga Sagar Verma	University of Delhi South Campus, New Delhi	Microwave Electronics	2nd	
3	Soil moisture monitoring system	Online	S Vathana Sree	Velammal Institute of Technology	ECE	4th	
4	PATIENT MONITORING SYSTEM USING AI IN VIRAL AND INFECTIOUS CASES	Online	ANEES AHAMED BAIG	PSCMR College of Engineering and Technology	Electronics and Communication Engineering	4th	
5	Smart house	BE Lab	Chirag Jariwala	SCET	Electronics and communication engineering	4th	C. Jariwala
6	Smart Rack Using IOT	BE Lab	Vrushika Ijardar	SCET	Electronics and Communications	4th	Vrushika
7	IoT based Traffic Light System With Vehicle Density Dependent Counter	BE Lab	Deepak Shamsheer	SCET	EC	2nd	Deepak
8	IOT base Gas Gyser	BE Lab	Janmay Trivedi	SCET	ELE	4th	Janmay
9	IOT-AR	BE Lab	Shivam Manishbhai Sarang	SCET	CO(M)	3rd	Shivam
10	Automatic watering system using IoT with blynk software	MP Lab	Suchitra Dandpat	SCET	EC	4th	Suchitra
11	Smart dustbin using iot	MP Lab	Yash khadela	SCET	ECE	4th	Yash
12	Smart Street light System	MP Lab	Bhavesh Suthar	SCET	ECE	4th	Bhavesh
13	Wifi controlled robot	MP Lab	Dhwani Shah	SCET	Electronics and Communication	4th	Dhwani
14	Real-time robot Avoidance	MP Lab	Parth Marakana	SCET	Electronics & Communications	4th	Parth
15	Voice controlled rocket launcher	MP Lab	Parth Marakana	SCET	Electronics & Communications	4th	Parth
16	IoT based Autonomous Parking System	Project Lab	Foram Pansuriya	SCET	Electronics and Communication	4th	Foram
16	Attendance and Security System	Project Lab	Doshi Hit Vikrambhai	SCET	IT	3rd	Hit

17	IoT based agricultural parameters monitoring system	Project Lab	Dev Bardolia	SCET	Electronics and communication	4th	Dev
18	IoT based solutions for Smart City	Project Lab	Kashish Shah	SCET	Electronics and Communication	4th	Kashish
19	Fire Notification IoT System with Blynk	Project Lab	Priyal Patel	SCET	Electronics & Communication	4th	Priyal
20	Automatic car monitoring system	UG CO Lab	Shiven Desai	SCET	IC, CO, EC	4th	Shiven
21	Mask detection through ML	UG CO Lab	Aarya Shah	SCET	EC	2nd	Aarya
22	Intruder detection and alert	MP Lab UG CO Lab	Araveeti Shanmukh	SCET	EC	4th	Araveeti
23	IOT BASED SOUND MONITORING SYSTEM	MP Lab UG CO Lab	DHAIRYA KAPADIA	SCET	ELECTRONICS AND COMMUNICATION	4th	Dhairya
24	Wifi based Home Automation	MP Lab UG CO Lab	Sejal Sureka	SCET	EC	3rd	Sejal
25	Temperature screening based Real-time Attendance System	UG CO Lab	Poojan Dalai	SCET	EC	4th	Poojan
26	Patient Health Monitoring System	UG CO Lab	Yanshu Kikani	SCET	Electronics and Communications	4th	Yanshu

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Thank You