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

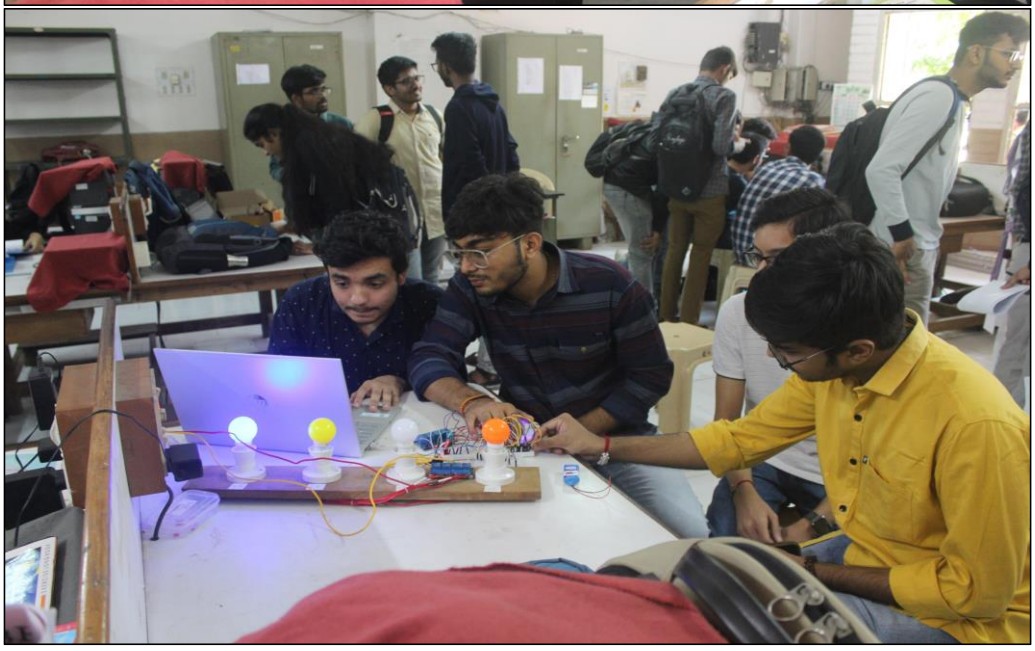
Winners Name	Project Title	Rank
Neel Khanpara, Vatsa Noticewala, Harshit Jain, Sai Charan	SeniorSafe Gradian	1st
Jeel Ramani, Priyanshi Patel, Khushi Harkhani, Sarthak Bosamiya	Smart Attendance System	2nd
Rituraj Bajrang Singh, Aayush Parmar, Niraj Rajput, Rudra Saikiran	Smart Agriculture	3rd

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.

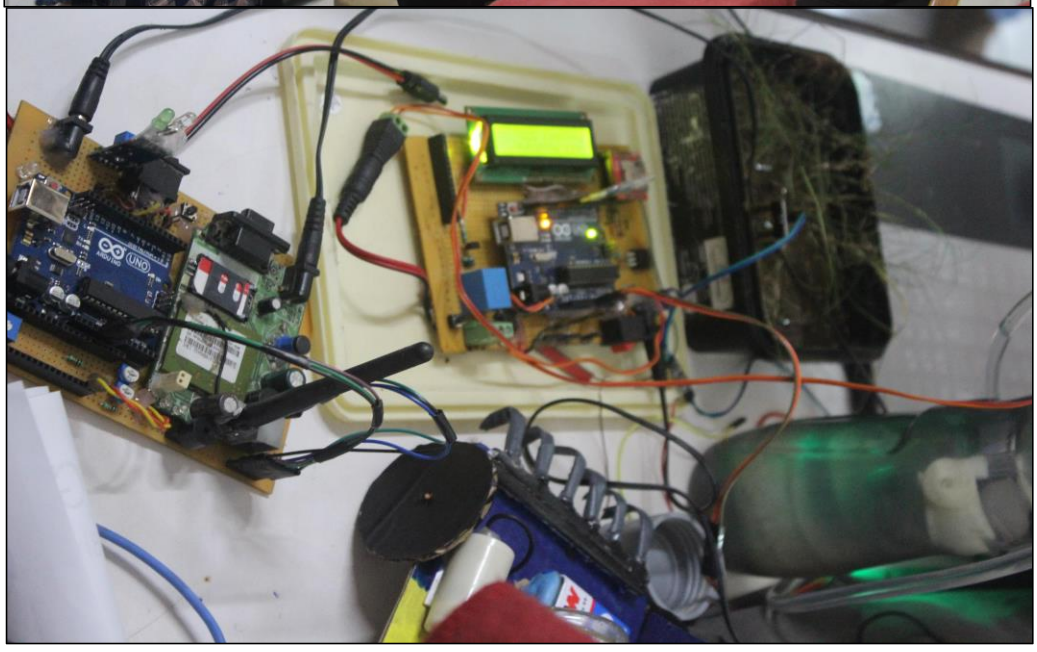
Student Coordinators:
Sarthak Bosamiya
Neel Khanpara

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

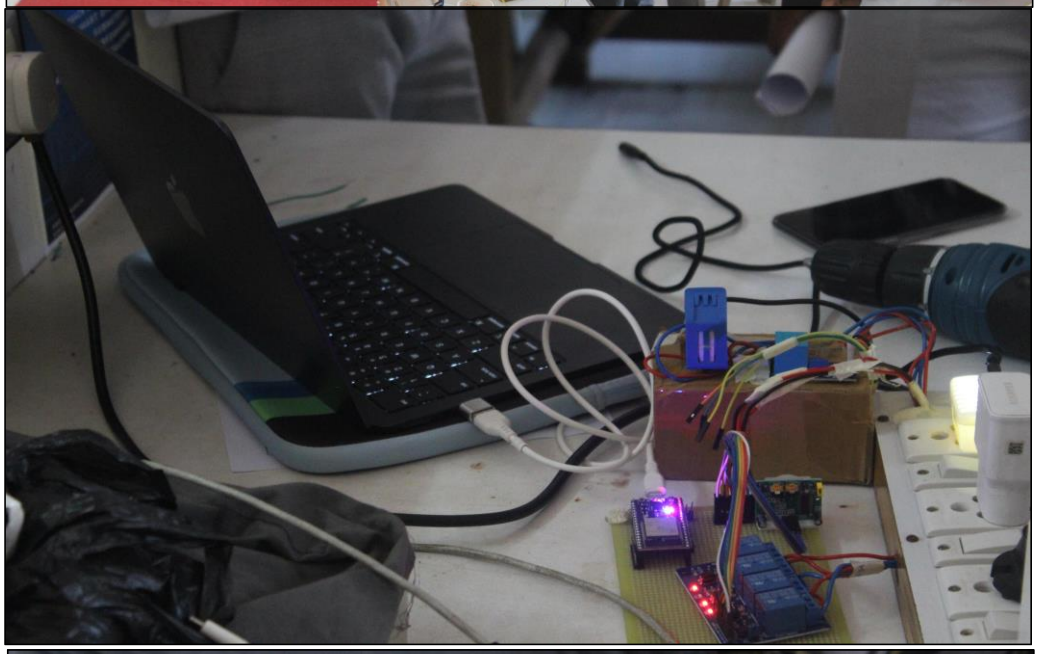
Glimpses of the Competition:



EC Department,
SCET, Surat.



IoT Design Challenge
October 20th, 2023
EC Department,
SCET, Surat



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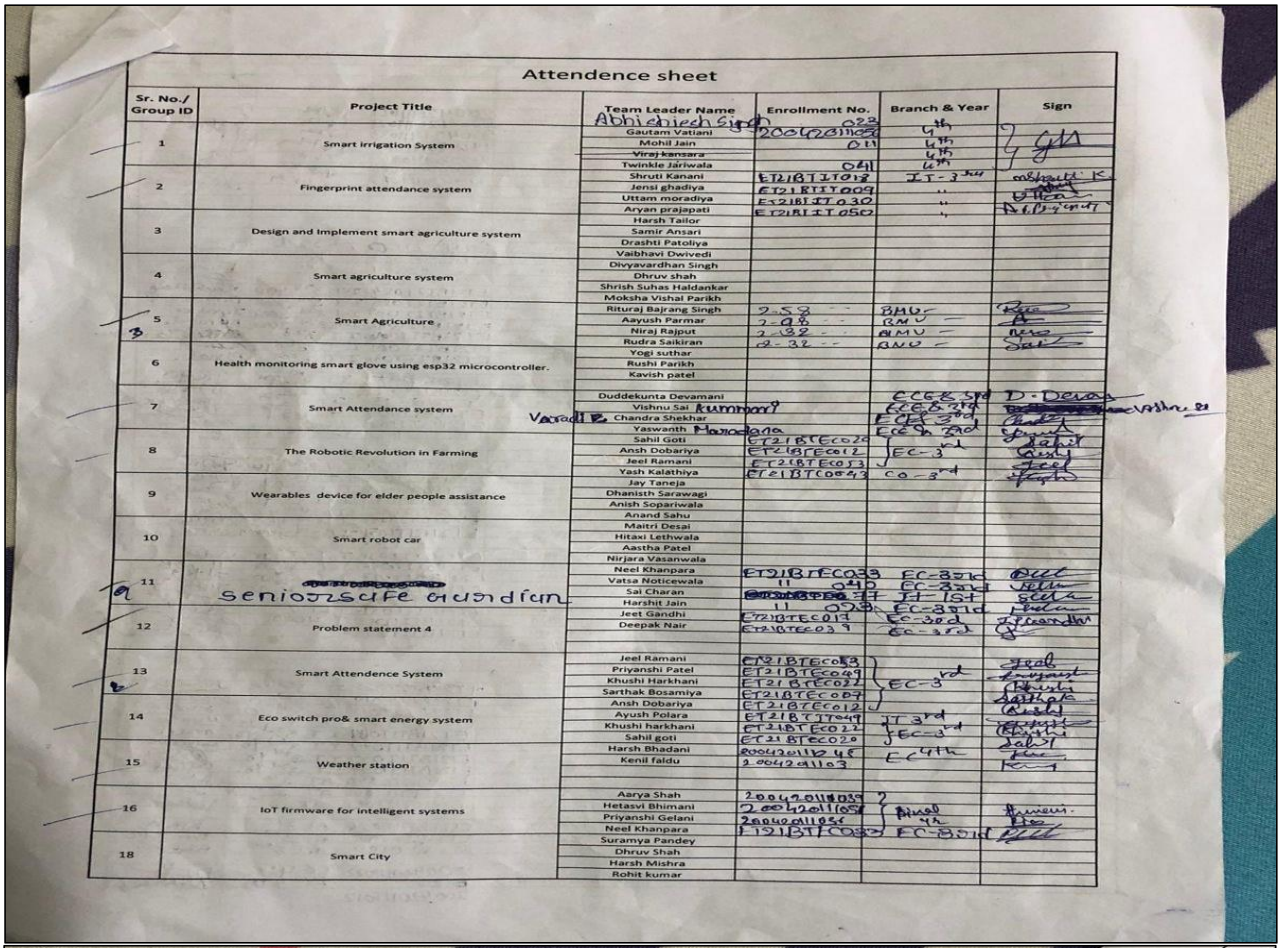
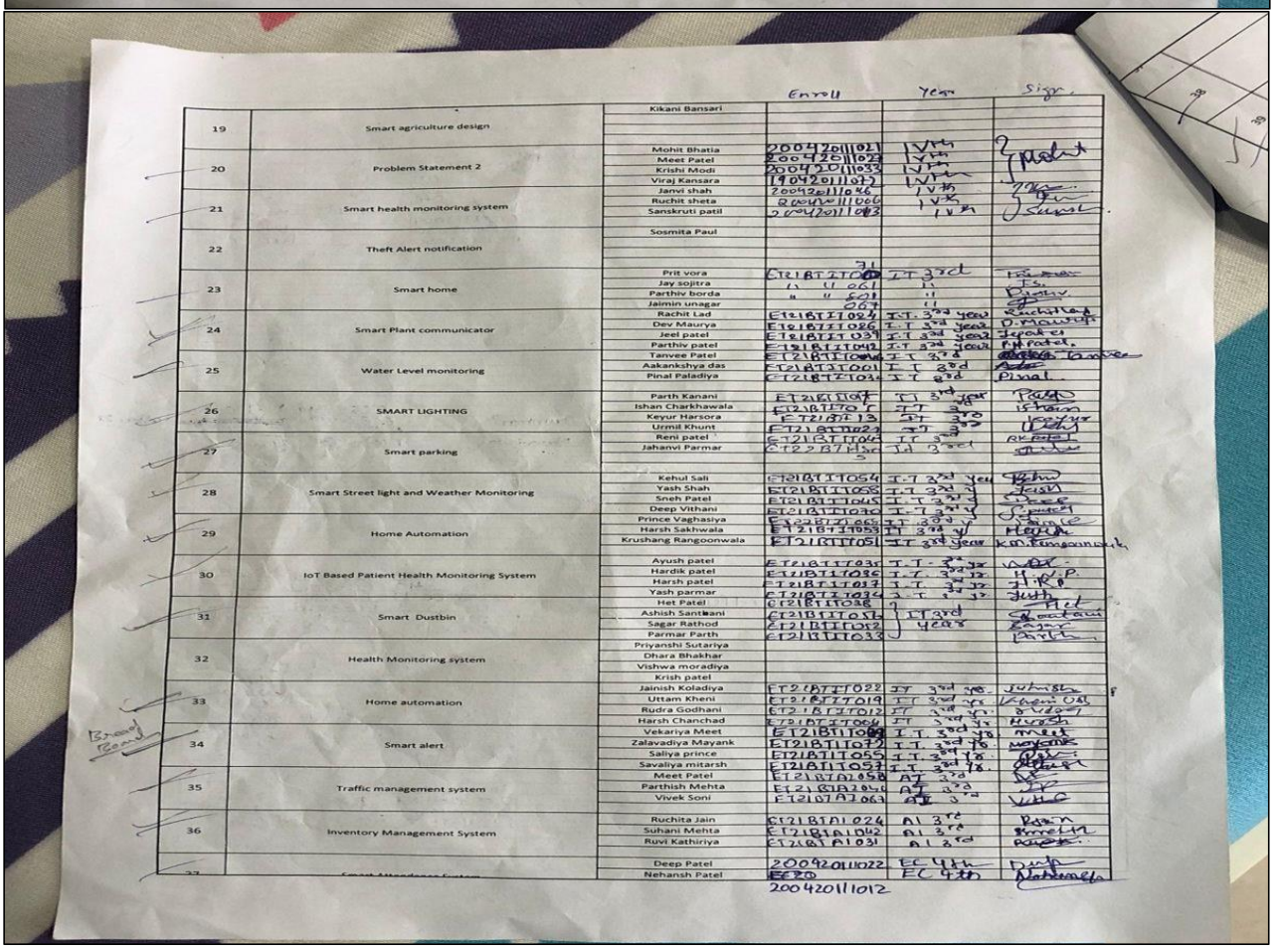


Attendence sheet

Sr. No./ Group ID	Project Title	Team Leader Name	Enrollment No.	Branch & Year	Sign
1	Smart irrigation System	Abhishesh Singh	023	4th	
		Gautam Vatiani	200420111052	4th	
		Mohil Jain	011	4th	
		~~Viraj kansara~~		4th	
		Twinkle Jariwala	041	4th	
2	Fingerprint attendance system	Shruti Kanani	ET21BTIT018	IT-3rd	
		Jensi ghadiya	ET21BTIT009	"	
		Uttam moradiya	ET21BTIT030	"	
		Aryan prajapati	ET21BTIT050	"	
3	Design and Implement smart agriculture system	Harsh Tailor			
		Samir Ansari			
		Drashti Patoliya			
4	Smart agriculture system	Vaibhavi Dwivedi			
		Divyavardhan Singh			
		Dhruv shah			
		Shrish Suhas Haldankar			
		Moksha Vishal Parikh			
5	Smart Agriculture	Rituraj Bajrang Singh	2-58	BMV	
		Aayush Parmar	2-48	BMV	
		Niraj Rajput	2-32	BMV	
		Rudra Saikiran	2-32	BMV	
6	Health monitoring smart glove using esp32 microcontroller.	Yogi suthar			
		Rushi Parikh			
		Kavish patel			
7	Smart Attendance system	Duddekunta Devamani		EC6th Sem	
		Vishnu Sai Kummari		EC6th Sem	
		Varadi B. Chandra Shekhar		EC6th Sem	
		Yaswanth Maroapaga		EC6th Sem	
8	The Robotic Revolution in Farming	Sahil Goti	ET21BTEC028	EC-3rd	
		Ansh Dobariya	ET21BTEC012	EC-3rd	
		Jeel Ramani	ET21BTEC013	EC-3rd	
		Yash Kalathiya	ET21BTEC043	EC-3rd	
9	Wearables device for elder people assistance	Jay Taneja			
		Dhanisth Sarawagi			
		Anish Sopariwala			
10	Smart robot car	Anand Sahu			
		Maitri Desai			
		Hitaxi Lethwala			
		Aastha Patel			
		Nirjara Vasanwala			
11	Senior Safe Guardian	Neel Khanpara	ET21BTEC033	EC-3rd	
		Vatsa Noticewala	040	EC-3rd	
		Sai Charan	37	IT 1st	
		Harshit Jain	029	EC-3rd	
		Jeet Gandhi	ET21BTEC019	EC-3rd	
12	Problem statement 4	Deepak Nair	ET21BTEC039	EC-3rd	
		Jeel Ramani	ET21BTEC013		
13	Smart Attendence System	Priyanshi Patel	ET21BTEC049	EC-3rd	
		Khushi Harkhani	ET21BTEC022		
		Sarthak Bosamiya	ET21BTEC007		
		Ansh Dobariya	ET21BTEC012		
14	Eco switch pro& smart energy system	Ayush Polara	ET21BTIT049	IT 3rd	
		Khushi harkhani	ET21BTEC022	EC-3rd	
		Sahil goti	ET21BTEC028		
		Harsh Bhadani	200420111245	EC 4th	
15	Weather station	Kenil faldu	200420111103		
		Aarya Shah	200420111039		
16	IoT firmware for intelligent systems	Hetasvi Bhimani	200420111057	Final Yr	
		Priyanshi Gelani	200420111056		
		Neel Khanpara	191BTEC033	EC-8th	
		Suramya Pandey			
18	Smart City	Dhruv Shah			
		Harsh Mishra			
		Rohit kumar			



			Enroll	Year	Sign
19	Smart agriculture design	Kikani Bansari			
20	Problem Statement 2	Mohit Bhatia	200420111021	IV Yr	
		Meet Patel	200420111023	IV Yr	
		Krishi Modi	200420111033	IV Yr	
		Viraj Kansara	190420111042	IV Yr	
21	Smart health monitoring system	Janvi shah	200420111046	IV Yr	
		Ruchit sheta	200420111066	IV Yr	
		Sanskruti patil	200420111083	IV Yr	
22	Theft Alert notification	Sosmita Paul			
23	Smart home	Prit vora	ET21BTIT061	IT 3rd	
		Jay sojitra	061	"	
		Parthiv borda	067	"	
		Jaimin unagar		"	
24	Smart Plant communicator	Rachit Lad	ET21BTIT024	IT 3rd year	
		Dev Maurya	ET21BTIT026	IT 3rd year	
		Jeel patel	ET21BTIT033	IT 3rd year	
		Parthiv patel	ET21BTIT042	IT 3rd year	
		Tanvee Patel	ET21BTIT044	IT 3rd	
25	Water Level monitoring	Aakankshya das	ET21BTIT001	IT 3rd	
		Pinal Paladiya	ET21BTIT034	IT 3rd	
26	SMART LIGHTING	Parth Kanani	ET21BTIT047	IT 3rd year	
		Ishan Charkhawala	ET21BTIT015	IT 3rd	
		Keyur Harsora	ET21BTIT019	IT 3rd	
		Urmil Khunt	ET21BTIT023	IT 3rd	
		Reni patel	ET21BTIT046	IT 3rd	
27	Smart parking	Jahanvi Parmar	ET22BTIT5001	IA 3rd	
28	Smart Street light and Weather Monitoring	Kehul Sali	ET21BTIT064	I.T 3rd Year	
		Yash Shah	ET21BTIT068	I.T 3rd Yr	
		Sneh Patel	ET21BTIT045	I.T 3rd Yr	
		Deep Vithani	ET21BTIT070	I.T 3rd Yr	
		Prince Vaghasiya	ET21BTIT065	IT 3rd Yr	
29	Home Automation	Harsh Sakhwala	ET21BTIT055	IT 3rd Yr	
		Krushang Rangoonwala	ET21BTIT051	IT 3rd Year	
30	IoT Based Patient Health Monitoring System	Ayush patel	ET21BTIT035	I.T 3rd Yr	
		Hardik patel	ET21BTIT036	I.T 3rd Yr	
		Harsh patel	ET21BTIT037	I.T 3rd Yr	
		Yash parmar	ET21BTIT024	I.T 3rd Yr	
		Het Patel	ET21BTIT038	"	
31	Smart Dustbin	Ashish Santwani	ET21BTIT031	IT 3rd	
		Sagar Rathod	ET21BTIT032	4th Year	
		Parmar Parth	ET21BTIT033		
		Priyanshi Sutariya			
32	Health Monitoring system	Dhara Bhakhar			
		Vishwa moradiya			
		Krish patel			
33	Home automation	Jainish Koladiya	ET21BTIT022	IT 3rd Yr.	
		Uttam Kheni	ET21BTIT019	IT 3rd Yr.	
		Rudra Godhani	ET21BTIT012	IT 3rd Yr.	
		Harsh Chanchad	ET21BTIT060	IT 3rd Yr.	
		Vekariya Meet	ET21BTIT069	I.T 3rd Yr.	
34	Smart alert	Zalavadiya Mayank	ET21BTIT072	I.T 3rd Yr.	
		Saliya prince	ET21BTIT056	I.T 3rd Yr.	
		Savaliya mitarsh	ET21BTIT053	I.T 3rd Yr.	
		Meet Patel	ET21BTAI058	AI 3rd	
35	Traffic management system	Parthish Mehta	ET21BTAI046	AI 3rd	
		Vivek Soni	ET21BTAI063	AI 3rd	
36	Inventory Management System	Ruchita Jain	ET21BTAI024	AI 3rd	
		Suhani Mehta	ET21BTAI042	AI 3rd	
		Ruvi Kathiriya	ET21BTAI031	AI 3rd	
		Deep Patel	200420111022	EC 4th	
		Nehansh Patel	EC20 200420111012	EC 4th	

Thank You