Sarvajanik Education Society

Sarvajanik College of Engineering &Technology

A Report On

URJA 2K19

In The Surge Of Knowledge

(6th & 7th Sept, 2019)

Organized by

Electrical Engineering Department

Under the State Level Students' Tech-Fest

क्षितिज

Anant Gyan Ki Talash Mein

URJA2k19

An entirely different world-youth, overloaded with talent and infinite imagination awaiting an opportunity to showcase their ideas and creativity to the world lies within the boundaries of SCET. To provide these innovative minds with a platform and keep them as enthusiastic and motivated, every year SCET organizes “KSHITIJ” the state level technical festival under the banner of Student Activity and Welfare Council (SAWC) of the institute with the goal of creating technical excellence which imparts the best knowledge and skills to students with the objective of producing high caliber engineering graduates.

A practical application of theoretical work prepares the students in a wider area of electrical engineering. Keeping the same in mind, Electrical Engineering Department

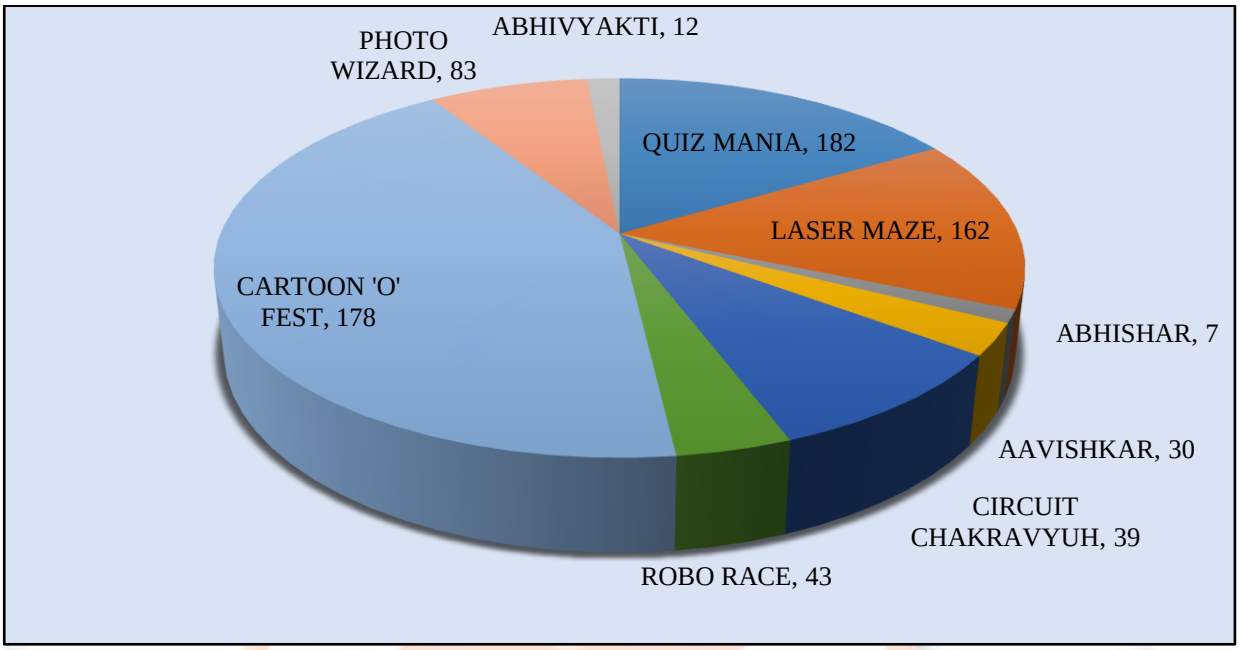
has organized "URJA-2K19" under the banner of "KSHITIJ-2019" where various technical & non-technical electrical engineering related events are arranged for all the branches. More than 1000 students have done participation in various events from SCET as well as other institutes from south zone.

URJA-2k19 was comprised of 10 events from which 7 events were Technical & 3 events were Non-Technical. Technical Events were **Aavishkar, Abhishar, Abhivyakti, Quiz Mania, Robo Race, Circuit Chakravyuh, Laser Maze** that had got the logical and creative impulses of young minds running. Non Technical events were **Cartoon 'O' Fest, Photo Wizard** and **Blind Volleyball**. Inauguration of URJA'19 was held in Project Lab, EED,SCET in which Prof. Siddhi Desai,URJA'19 coordinator, has briefed about all the events and Prof. Aditi Hajari, HoD, EED has opened the URJA'19 wishing good luck to the participants. For the first time, for URJA'19 registrations website was created (http://urjascet.000webhostapp.com).

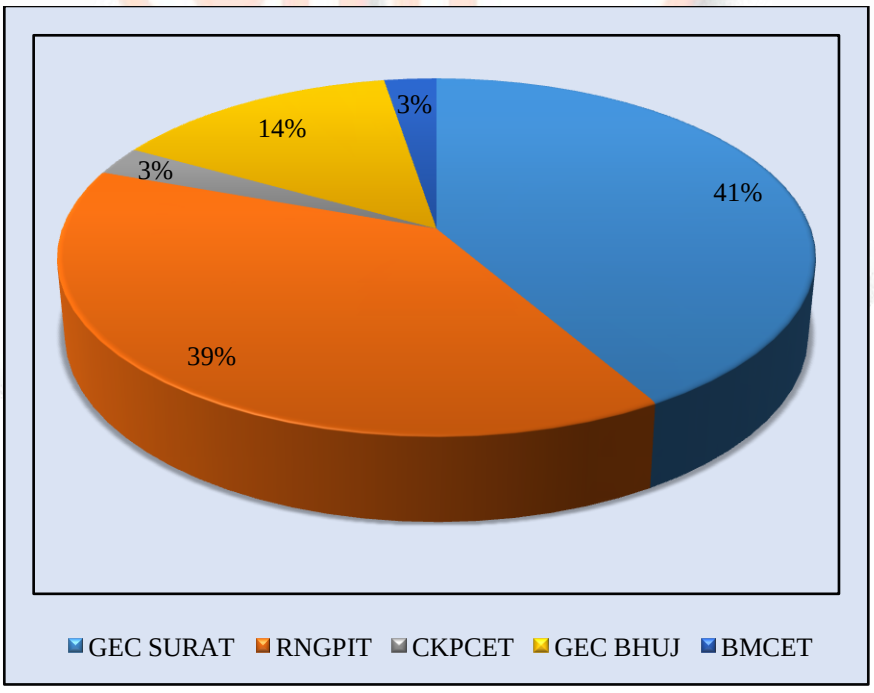
Schedule of URJA2k19

URJA 2K19				
Event Schedule				
DAY - 1 (06/09/2019)				
8:30 AM-09:00 AM	Tea and Break Fast(PSP LAB)			
9:00 AM	Inauguration of URJA 2k19(Project Lab)			
9:00 AM - 10:00 AM	Quiz'O'Mania (Round 1) (E-201, E-202)	ABHISHAR Poster Presentation (Measurement Lab)	Robo Race (Round 1)(PE Lab)	
10:00 AM - 11.00 AM	Laser Maze - Round-1 (E-203,E-204)			
11:00 PM - 01:00 PM	AAVISHKAR Model Presentation		Circuit Chakravyuh(Round -1)(E-201,E-202)	
01:00PM -1:30 PM	Lunch Break			
01:30 PM -2:30 PM	Quiz'O'Mania (Round 2)(PG LAB)	Laser Maze - Round-2 (ME Classroom E-106)	Cartoon'O' Fest(Round 1)(E-203)	
02:30 PM -3:30 PM				
3:30PM - 4:30 PM	Photo Wizard(MACHINE LAB)			
9:00 Onwards	Blind Volleyball(Passage between Chemical & Textile engineering)			
DAY - 2 (07/09/2019)				
8:30 AM - 09:00 AM	Tea and Break Fast(PSP LAB)			
9:00 AM - 11:00 AM	Quiz'O'Mania (Round 3) (E-201)	Lazer Maze(Round-3)(ME 2 Classroom E-106)	Cartoon'O' Fest(Round 2)(UG lab)	Robo Race(Round 2)(PE lab)
11:00 PM - 1:00 PM	ABHIVYAKTI Paper Presentation (UG lab+PG lab)	Circuit Chakravyuh(Round -2)(Measurement Lab)		
01:00 PM - 1:30 PM	Lunch Break			
1:30 PM - 3:30 PM	Cartoon'O' Fest(Round 3)(UG lab)			
4:00 PM	Validectory Session(Project Lab)			
9:00 Onwards	Blind Volleyball(Passage between Chemical & Textile engineering)			

The event wise participation details are as follows:

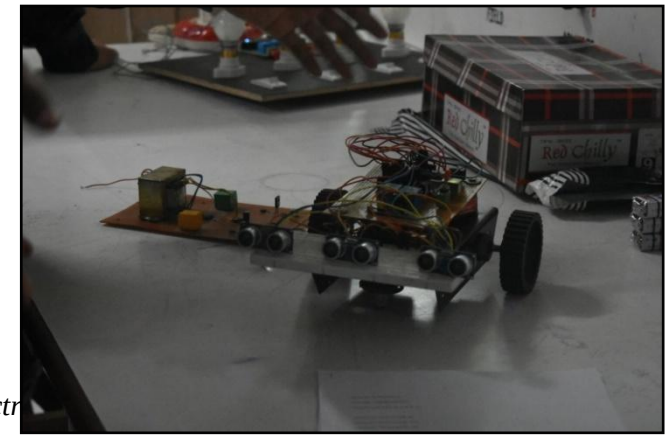


The details of participation from various colleges are given below.



Aavishkar

The Model presentation event showcases the various projects created by the students. It encourages application of an engineering concept. This hand on competition is best suited for the students who want to invent or optimize technologies in order to solve market or societal problems. The Model presentation not only decides the content and style but also affects the amount of interaction. Depending upon the purpose to inform, analyze and pursue the best model is selected. Dr. Sandhya Rathore was the Jury of this event. Dr. Hiren Patel, Principal, SCET visited the department and showed interest in the event.



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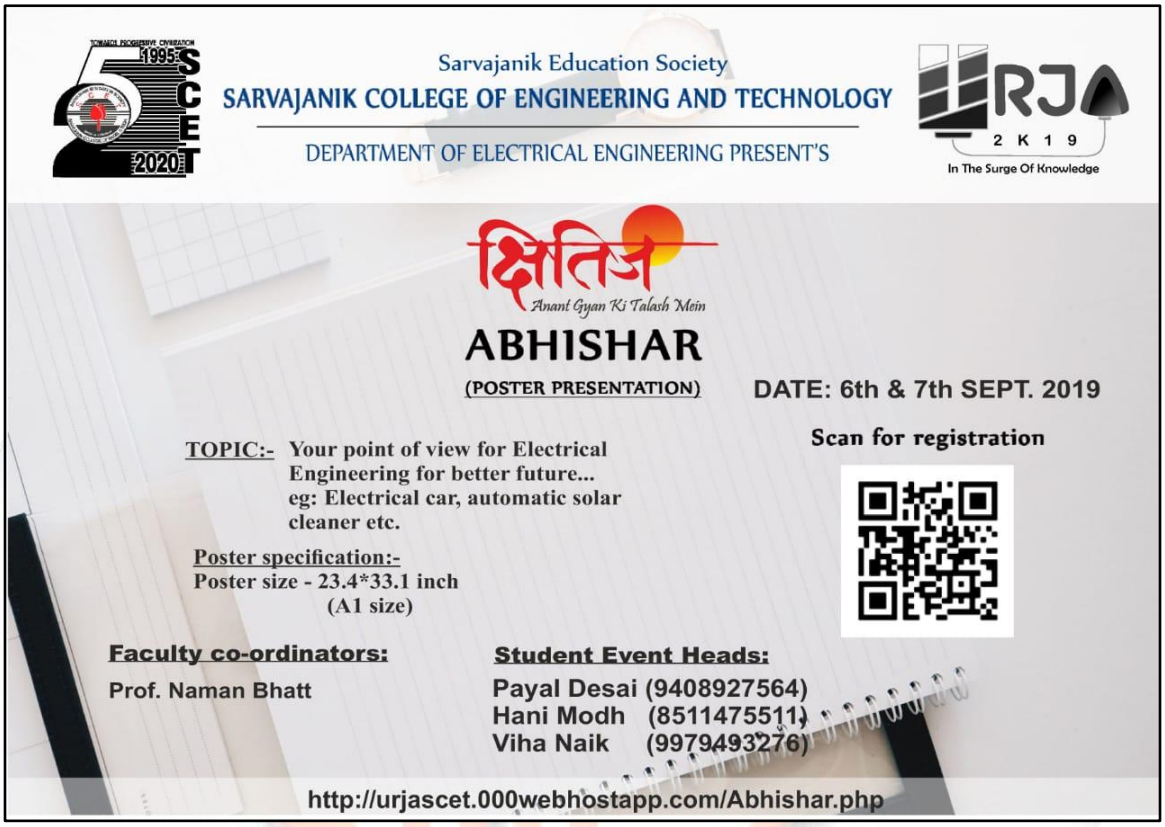
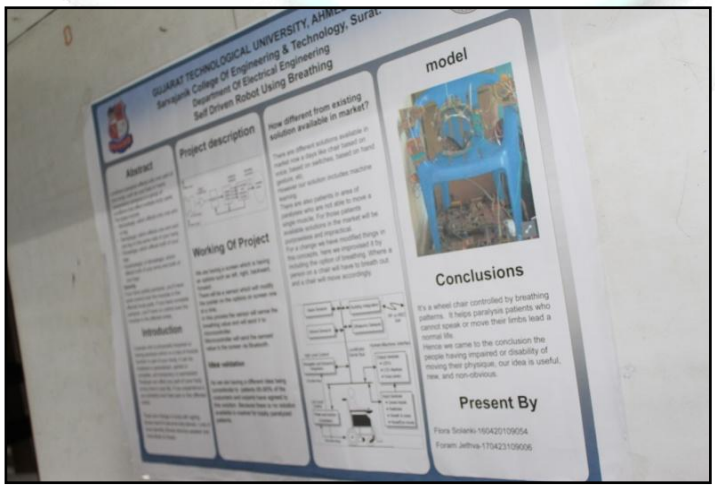
AAVISHKAR

Abhishar



A poster presentation, at a congress or conference with an academic or professional focus, is the presentation of research information in the form of a paper poster that conference participants may view. A poster session is an event at which many such posters are presented. Poster sessions are particularly prominent at scientific conferences. Prof. Aditi Hajari was the jury of this event.



Abhivyakti

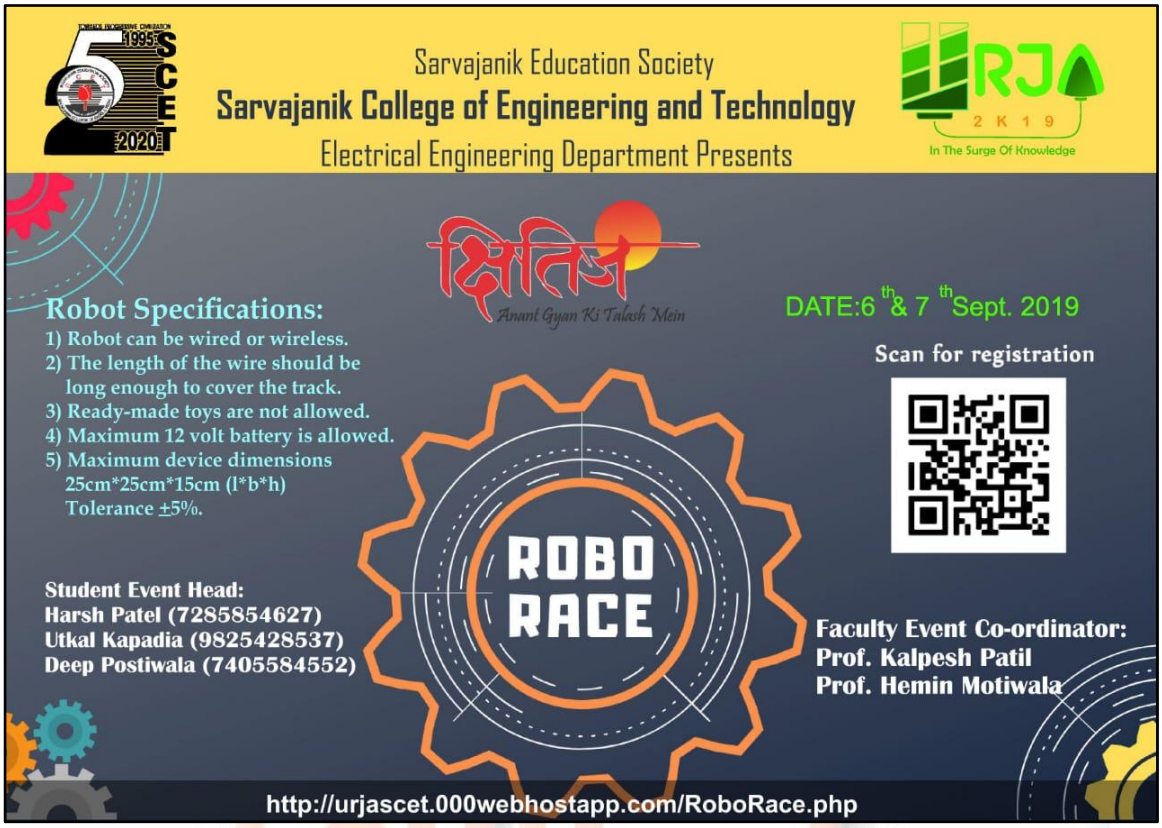
Abhivyakti is an event which provides a platform to an individual to showcase his/her talents in terms of knowledge discovery and delivery to the end user. This can be done by giving an effective presentation in front of audience along with an interaction. To achieve this, an event is combined with a small presentation followed by question answer round. Each participant will deliver the paper presentation on any topic related to electrical engineering and try to explain the topic to the audience by various means. By participating in this event, an individual can enhance his/her presentation skills, level of confidence and knowledge regarding latest trends. Dr. Nilesh Shah was the Jury of this event.

Carrying Conductor
The magnetic force (F) the conductor experiences is equal to the product of its length (L) within the field, the current I in the conductor, the external magnetic field B and the sine of the angle between the conductor and the magnetic field. In short
F= BIL (sinθ)

Quiz Mania

QUIZ MANIA has always been one of the favorite technical events of URJA. It is a technical quiz event which tests the team's knowledge of electrical subjects. This year there was team participation of 2 people. There were 3 rounds. Round 1 was an 'Elimination Round' in which 30 technical as well as non-technical MCQs were asked and based on those 24 teams were qualified for the next round. Round 2 was 'Knock Out' Round in which Symbol quiz with buzzer between 3 teams at a time was held from which 7 teams knocked out their opponents. Round 3 was 'Set The Bet' in that all teams were having 10 points initially, then teams placed bets on their knowledge of picked topics to maximize their points and win this round from which 3 teams were announced as betting kings.

Robo Race

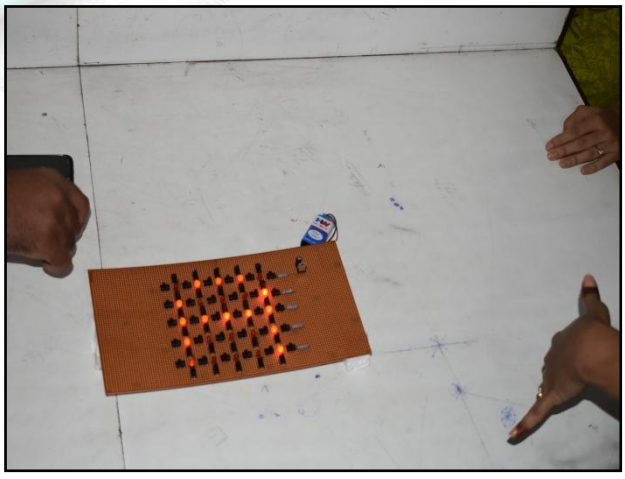


Robo Race is a competition with autonomously driving electrically powered vehicle in which there is a track which includes hurdles and the robo has to pass on to the hurdles and complete the track in the minimum seconds. It is totally a time based event. Robot can be wired or wireless. Length of wire should be long enough to cover the track. Maximum device dimensions were 25cm * 25cm * 15cm (l*b*h).Readymade toy cars were not allowed. Maximum 12V battery was allowed. Round 1 was time based & round 2 was flag points based in which different color flags were having different points.

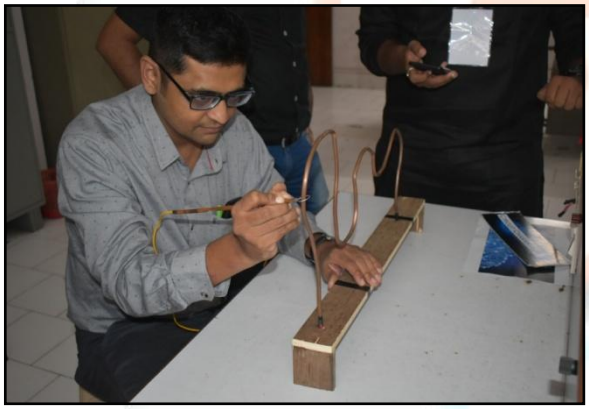
GO

Circuit Chakravyuh

Circuit chakravyuh is a core event which adds some fun to the technical part of any tech-fest. As the name suggest the whole event was divided in two parts i.e Circuit and Chakravyuh. Round 1was a qualifier round which have time based question related to circuits named as "Buzzer Round" while final round was a chakravyuh which was divided into two stages "Wire Loop" and "LED matrix" where the teams can exhibit their knowledge of circuit by solving the matrix. Faculties has also done hands on and enjoyed.



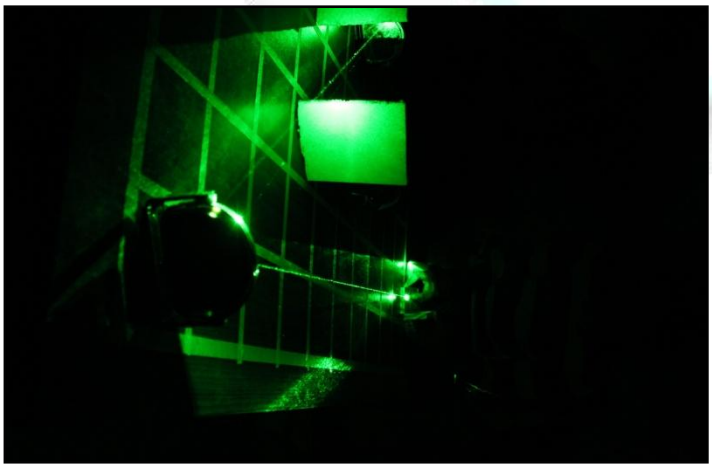
ROUND
1
BUZZER
ROUND

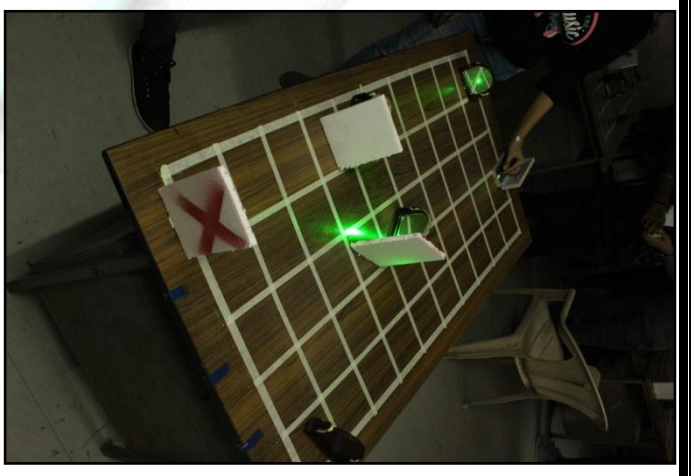


CIRCUIT
CHAKRAVYU

Laser Maze

Laser maze is a technical event of URJA. It was a three round event which can be participated by maximum three members in a team. First round was a quiz based on laser and physics. Second round was a mirror maze which should be performed right under 2 minutes. Third round was an escape plan through the laser path in minimum time. The time was calculated and based on that three winner teams were announced.





Cartoon 'O' Fest

Cartoon 'O' Fest is a non technical event based on cartoon in order to have fun and memorize your childhood. It has witnessed overwhelming response in URJA2k19 resulting in the event with maximum participation. It was a team based event. Basically it had three rounds. First round was a quiz based on cartoons. Total there were around 180 teams. And those who cleared this round would go to the next round. For the second round, 60 teams were shortlisted. Second round was a Pictionary round in which one member of the team had to draw things related to cartoon which was selected by a chit drawing method and other members of the team had to guess which cartoon it was and thus scoring number of cartoon's guessed right under 2 minutes. For the final round, 20 teams were selected. Third round was POWER OF SECRETS (Dumb charades combined with Tic-Tac-Toe) which was played between two rival teams and the time was calculated and based on that three winner teams were announced. Truly, it was a fun event for Cartoon Geeks.

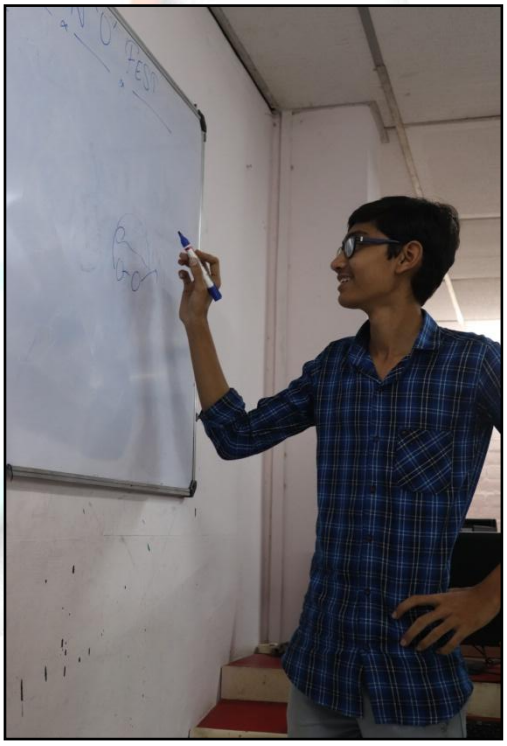
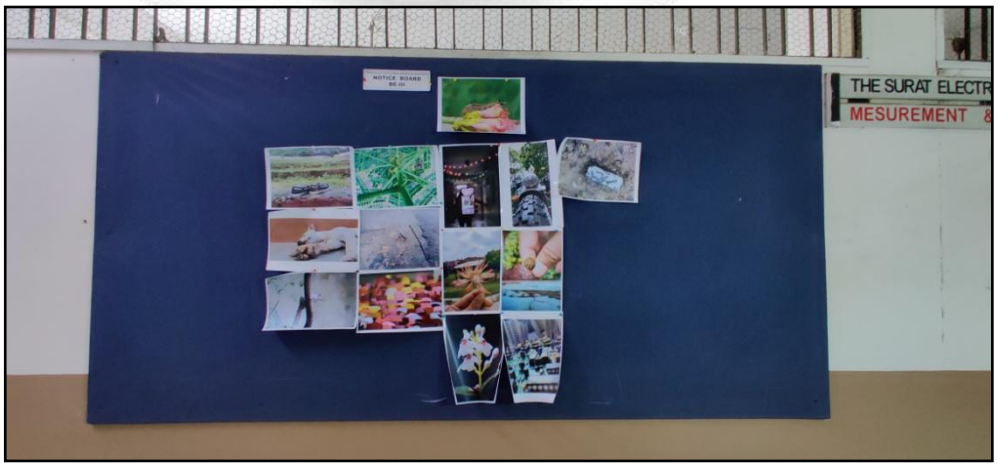
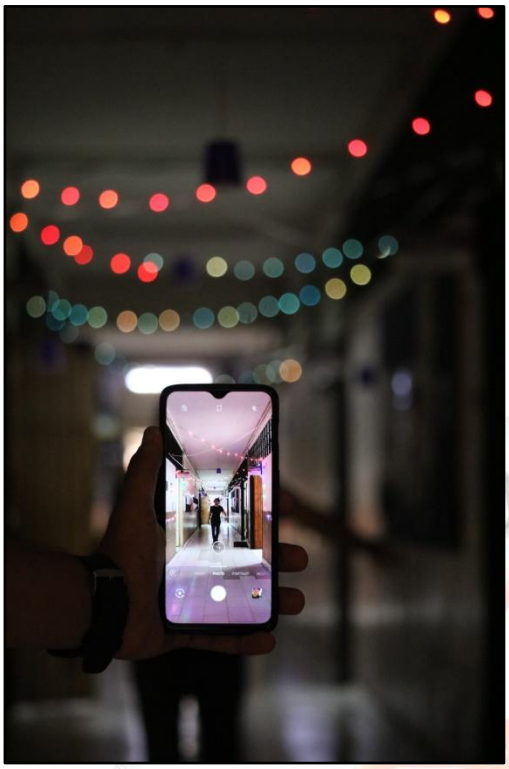
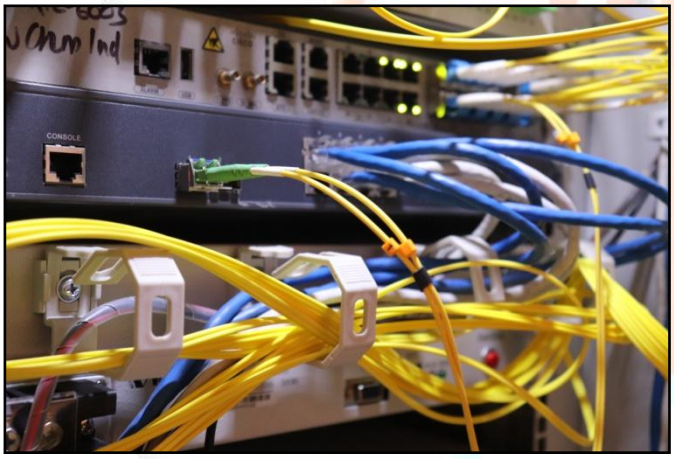


Photo Wizard

Photo Wizard was an event based on theme photography, in which the participants were given a theme on the spot and they are supposed to take a picture based on theme in the given time, the picture should describe each and every minute details about it and the participants were also supposed to give the suitable title to the picture. The theme was 'Object Photography' and the participants was allowed to take picture from anywhere of anything within SCET campus. The top 3 pictures were selected as winners.






CONSOLE

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Blind Volleyball

Blind volleyball event was just for fun apart from daily routine of studies and all, it was an event which was held to make students joyful and in which one can show sports skills. As sport is also a part of one's life. A team was comprised of 3 players. The important thing that as the name suggests the players can't see each other as a material which was opaque was attached between two teams so that the participants can't see each other. They just have to predict from where the ball is going to come. So it was a very curious game too. The point distribution was like 4 rounds, each round contains 3 points. Rs. 40 was taken from each team and the winner team was given the cash back of Rs. 50. The team which wins the maximum round wins the prize.

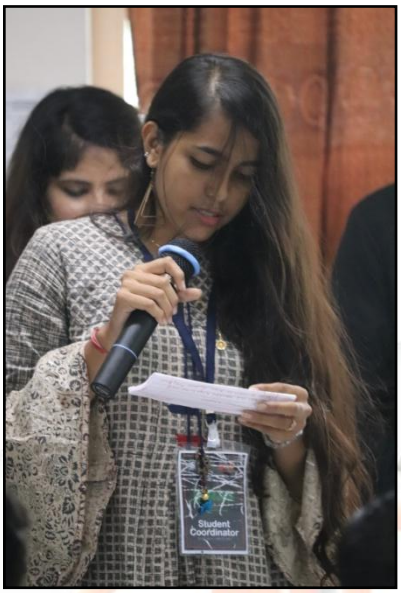
WINNERS OF URJA'19

Sr. No.	Event	Rank	Name Of The Participant
1	**Aavishkar**	Winner	Chauhan Yashesh Patel Neel Kapdi Urjit
		1st Runner Up	Foram Jethwa Flora Solanki
2	**Abhishar**	Winner	Nisha Bhikadiya Dipti Chaudhari
		1st Runner Up	Avina Patel Zeel Padhya
3	**Abhivyakti**	Winner (BE)	Flora Solanki Foram Jethva
		Winner (ME)	Mansuri Abid Emtiyaz
4	**Quiz Mania**	Winner	Foram Jethva Flora Solankli
		1st Runner Up	Agrawal Manthan Khunt Kartik
		2nd Runner Up	Dhruti Pandya Muskan Maru
5	**Robo Race**	Winner	Dhavnish Bhatt
			Raj Patel
			Shruti Desai
		1st Runner Up	Prasanntandel
			Rohit Swami
			Jayraj Khengar
		2nd Runner Up	Samarth Bawaskar
			Idrahar Pravin
			Chaudhari Yogesh
6	**Circuit Chakravyuh**	Winner	Ali Chunawala
			Jayveer Chavda
			Jayraj Khenger
		1st Runner Up	Mayur Jain
			Sanket Bhambhani
			Prithviraj Trivedi
		2nd Runner Up	Yash Sharma
			Hetansh Mehta
			Prasann Tandel

7	**LAZER MAZE**	Winner	Ayush Bhandari Miken Desai
		1st Runner Up	Nirav Kaniya Vijal Patel
		2nd Runner Up	Parth Gajjar Sankalp Jariwala Ayushi Patel
8	**Cartoon 'O' Fest**	Winner	Meet Shah
			Hani Modh
			Foram Dhamelia
		1st Runner Up	Darshan Patel
			Mrunali Vasava
			Vaishnavi Patil
		2nd Runner Up	Mayur Jain
			Sanket Bhambhani
			Pruthviraj Trivedi
9	**Photo Wizard**	Winner	Dev Patel
		1st Runner Up	Ibrahim Khareghat
		2nd Runner Up	Vishvas Mehta

Valedictory

Valedictory Function was scheduled on 7th September, 2019 at 3:30 pm at Power Electronics Lab, EED, SCET. This year it was entirely handled by student coordinators of Urja'19. The function was commenced by welcome speech by one of the URJA'19 Coordinators Prof. Siddhi Desai. After that HoD, EED had given speech appreciating success of URJA'19. Then one of the student event coordinators Ms. Sakshi Mehta has given the vote of thanks. The function was followed by announcement and felicitation of various event winners. Participants were excited to receive the prizes and to be honored by their faculties.


Student
Coordinator

GTU TECH FEST

School Visit

On the dated 07/09/2019, T and T.V high school students came to visit KSHITIJ-URJA-2k19 at EED, SCET around at 11 am. There were more than 60 students of 11th science with two faculties. They observed and learned from different technical events like Robo-Race, Circuit Chakravyuh, Model Presentation, Laser maze, etc in the event "URJA-2K19". In the end, for refreshment snack is provided to the students and faculties.

Acknowledgment

We, the URJA'19 Team would like to thank all the participants and appreciate the efforts put in by our Student coordinators, Faculty Coordinators, Event Heads, Volunteers and staff members. All the teaching and non-teaching staff has helped in every event and encouraged the students and participants. We would like to thank all the lab assistants and peons for their efforts. Also, we appreciate those students who selflessly contributed to the department in various ways.

We acknowledge and thank Sarvajanik Education Society and Sarvajanik College of Engineering & Technology for providing the necessary infrastructure for conducting this event. We also thank Dr. Hiren Patel, Principal, SCET for his guidance and motivation in organizing URJA'19.We would like to thank HoD (EED) & SAWC, SCET for their timely contribution to our needs and the support they have provided throughout organizing the event. We are grateful to our Sponsors Skyline Holidays, ICE GATE ACADEMY, Nutanvij Electricals & Velox Automation for providing the sponsorship.

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EPC - Electrical Project Firm

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Skyline HOLIDAYS

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Compiled by Prof. Siddhi Desai