



Sarvajanik Education Society

**Sarvajanik College of Engineering
and Technology**

Department of Electrical Engineering



A Report on

URJA

30th Sep - 1st Oct '2022

**Organized by:
Department of Electrical Engineering**

Under the State Level Students' Tech-Fest





- Date of the event : 30th Sept – 1st Oct ' 2022
- Faculty coordinators : Prof. Urvi T. Jariwala and Prof. Dimple T. Bhanabhagvanwala
- Student coordinators: Ms. Koyal Soni, Mr. Varun Morker, Mr. Utkarsh Gandhi, Nikunj Chauhan
- 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 organized “URJA-22” under the banner of “KSHITIJ-22” where various technical & non-technical electrical engineering related events were arranged for all the branches.
- More than 1000 students participated in various events from SCET as well as from other institutes.

Schedule of URJA2k22

URJA 2K22				
Event Schedule				
DAY - 1 (30/09/2022)				
08:00 AM - 09:30 AM	Tea and Breakfast(PSP LAB)			
09:30 AM - 10:30 AM	Tech Master Round -1 (E-201 to E204)	ABHIVYAKTI Paper Presentation (UG lab)	ABHISHAR Poster Presentation (Measurement Lab)	
10:45 AM - 11:45 AM	Laser Maze - Round-1 (E-201 to E204)			
12:00 PM - 01:00 PM	Circuit Round - 1 (E-201 to E204)			
01:00PM -1:30 PM	Lunch Break			
01:30 PM - 02:30 PM	TMKOC- ROUND -1 (E-201 to E204)	Electro Card (Project lab)	Clash Royal (UG lab)	Laser Maze(Round-2) (ME 2 Classroom E-106)
03:00 PM - 04:00 PM	Housies Round-1 (E-201 to E204)			
9:30 AM - 3:30 PM	AAVISHKAR Model Presentation (Machine Lab)			
9:00 Onwards	Urja Reporter			
9:30 AM - 4:00 PM	Rocket League (Round 1) (PE Lab)			
DAY - 2 (01/10/2022)				
9:00 AM - 09:30 AM	Tea and Breakfast(PSP LAB)			
9:30 AM - 10:30 AM	Tech Master Round -2 (E-201)	Laser Maze(Round-3) (ME 2 Classroom E-106)	Circuit Round - 2 (UG lab)	
10:45 AM - 11:45 AM	TMKOC- ROUND -2 (E-202,204)			
12:00 AM - 1:00 PM	HOUSIE- ROUND -2 (E-203)			
01:00 PM - 1:30 PM	Lunch Break			
1:30 PM - 2:30 PM	Treasure Hunt (E-201)	TMKOC- ROUND -3 (E-202)	Circuit Round - 3 (M/C Lab)	
9:30 AM - 1:00 PM	Photo Wizard(Measurement Lab- E-02)			
9:30 AM - 2:00 PM	Rocket League (Round - 2) (PE Lab- E-103)			

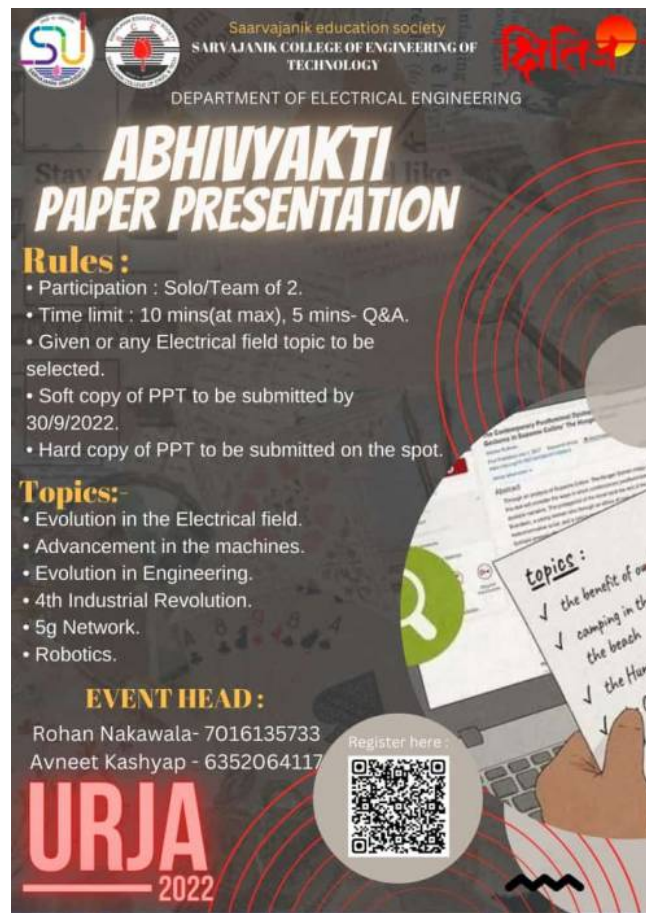
The event wise participation details are as follows:

Sr. No	Event name	Technical/Non Technical	Brief about the event	No. of participants from SCET	No. of participants from other institute
1	Abhivyakti	Technical	Paper Presentation	3	2
2	Abhishar	Technical	Poster Presentation	11	9
3	Aavishkar	Technical	Model Presentation	23	5
4	Tech 'O' Quiz	Technical	Technical Quiz	65	5
5	Urja Reporter	Technical	Reporting of entire URJA event	44	
6	Circuit 'O' Mania	Technical	Technical 1 rounds based on Electrical Circuits	118	12

7	Lazer Maze	Technical	Solving the maze of lazer rays	174	21
8	Clash Royal	Non-Technical	Online game	80	16
9	Housie	Non-Technical	Housie game with twists and turns	77	4
10	Photo Wizard	Non-Technical	Creative photography	61	1
11	TMKOC	Non-Technical	quiz on TV shows	53	4
12	Treasure Hunt	Non-Technical	Treasure hunt game	148	
13	Rocket League	Non-Technical	Toy car competitions	70	10
14	Electro card	Non-Technical	Card making competition on Electrical theme.	4	
Total :				931	89
				1020	

Abhivyakti

Faculty Coordinator & Jury : Prof. Aditi Hajari



The poster for the Abhivyakti Paper Presentation 2022 event is designed with a dark background and red concentric circles. At the top, it features the logos of Saarvajnik Education Society and Sarvajnik College of Engineering of Technology, along with the Department of Electrical Engineering. The title 'ABHIVYAKTI PAPER PRESENTATION' is prominently displayed in large, bold, white letters. Below the title, the 'Rules' are listed in yellow and white text, and the 'Topics' are listed in yellow and white text. The 'Event Head' information is provided in white text. A QR code for registration is located in the bottom right corner, with the text 'Register here' above it. The year '2022' is written in large red letters at the bottom left. The background also includes a laptop and a hand holding a paper with a list of topics.

Rules :

- Participation : Solo/Team of 2.
- Time limit : 10 mins(at max), 5 mins- Q&A.
- Given or any Electrical field topic to be selected.
- Soft copy of PPT to be submitted by 30/9/2022.
- Hard copy of PPT to be submitted on the spot.

Topics:-

- Evolution in the Electrical field.
- Advancement in the machines.
- Evolution in Engineering.
- 4th Industrial Revolution.
- 5g Network.
- Robotics.

EVENT HEAD :

Rohan Nakawala- 7016135733
Avneet Kashyap - 6352064117

Register here

URJA
2022

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.

Winners:

Winners	Name of Student	Branch	College name
1	Virat Chowala	Mechanical - 4th Year	SCET
2	Harsh Rajput	Mechanical - 4th Year	SCET
3	Raj Kapadia	Mechanical - 4th Year	SCET

Abhishar

Faculty Coordinator & Jury : Dr. Hitesh Mehta



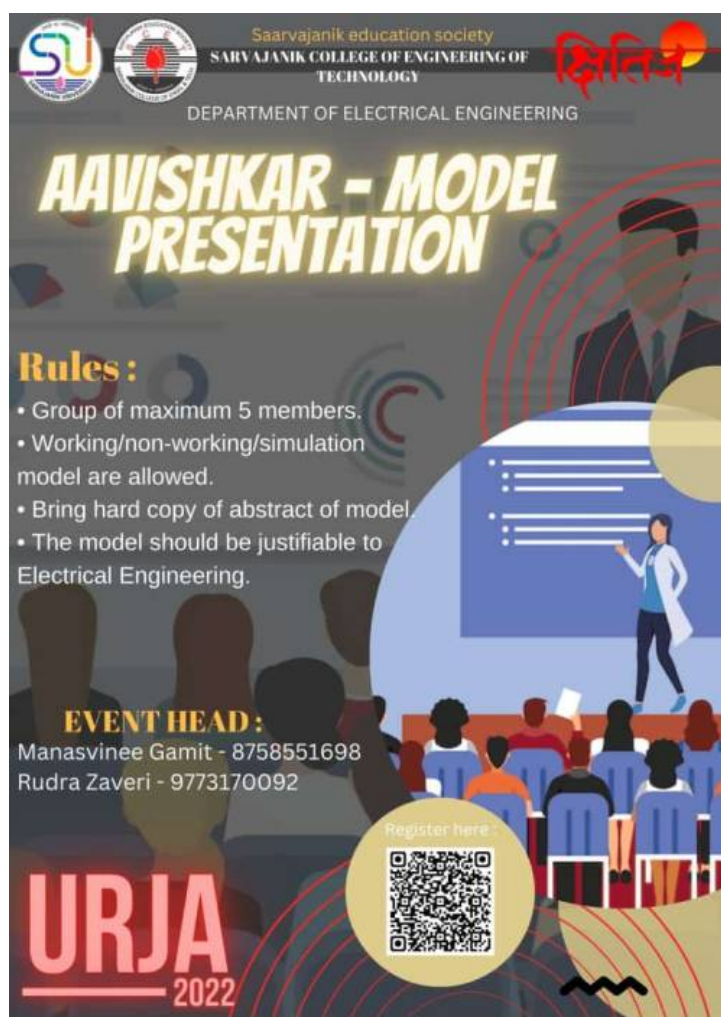
A poster presentation, at a congress or conference with an academic or professional focus, is the presentation of research information in the form of a paper poster that conference participants may view. A poster session is an event at which many such posters are presented. Poster sessions are particularly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

Winners:

1	Shaikh Aarif & Halpati Kamal	Electrical - 4th Year	R.N.G. Patel Institute Of Technology - [RNGPIT],
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Aavishkar

Faculty Coordinator & Jury : Prof. Shabbir Ghadiali



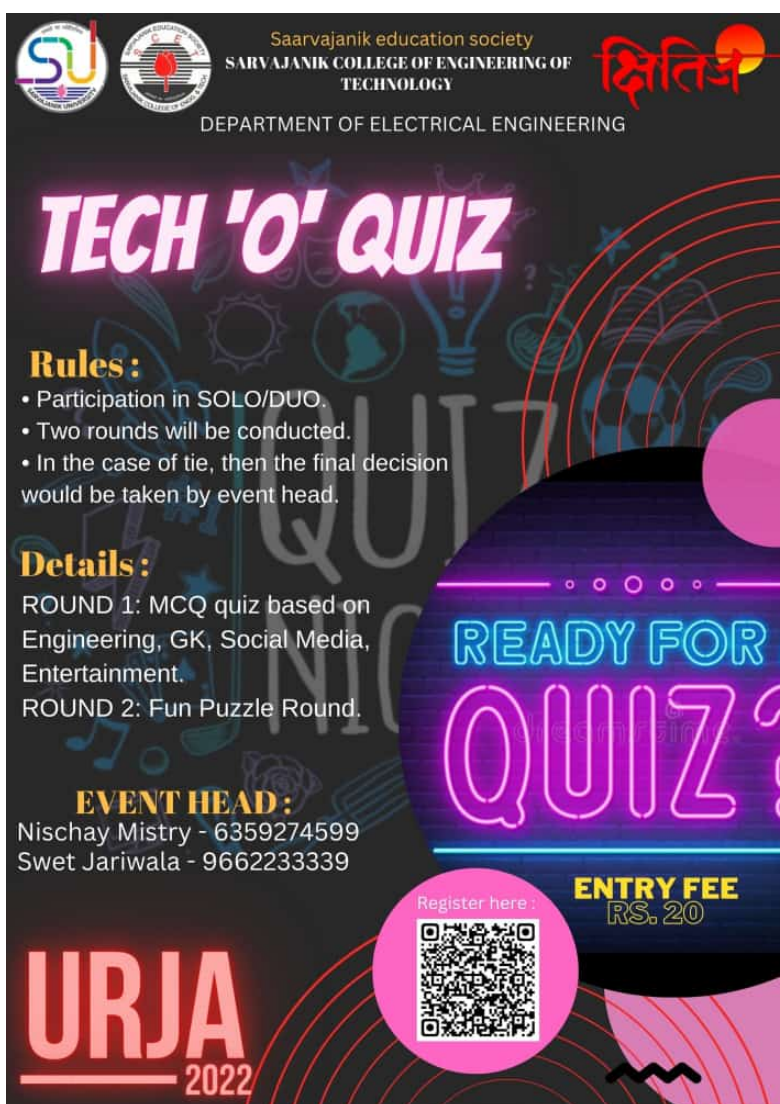
Aavishkar is an event in which students prepare hardware/software models. Presentation model helps students test their theoretical knowledge. These model presentation gives a lot of opportunity for students to explore and express their ability in writing software code and preparing hardware. It also gives them special freedom to express their minds, desires, feelings and ideas.

Winners:

1 - E Vehicle	Koyal Soni	Electrical - 4th Year	SCET
	Ganesh Pillai		SCET
	Saiyam Shah		SCET
	Suraj Rathore		SCET
	Jainesh Patel		SCET
2 - Leakage Current Indicator	Shaikh Arif	Electrical - 4th Year	RNGPIT
	Kamal Halpati		

Tech 'O' Quiz

Faculty Coordinator & Jury : Prof. Bijal Mehta



The poster for the Tech 'O' Quiz 2022 features a dark background with vibrant, glowing text and graphics. At the top, logos for Saarvjanik Education Society and Sarvajanik College of Engineering of Technology are displayed, along with the text 'DEPARTMENT OF ELECTRICAL ENGINEERING'. The title 'TECH 'O' QUIZ' is prominently shown in large, pink, glowing letters. Below the title, the 'Rules' and 'Details' are listed. The 'Rules' section includes participation in SOLO/DUO, two rounds, and a tie-breaking rule. The 'Details' section describes Round 1 as an MCQ quiz and Round 2 as a Fun Puzzle Round. The 'Event Head' is Nischay Mistry, with contact numbers provided. An 'Entry Fee' of RS. 20 is mentioned. A QR code for registration is included, with the text 'Register here :'. The bottom of the poster features the 'URJA 2022' logo and a 'READY FOR QUIZ?' graphic.

Rules :

- Participation in SOLO/DUO.
- Two rounds will be conducted.
- In the case of tie, then the final decision would be taken by event head.


Details :

ROUND 1: MCQ quiz based on Engineering, GK, Social Media, Entertainment.

ROUND 2: Fun Puzzle Round.

EVENT HEAD :
Nischay Mistry - 6359274599
Swet Jariwala - 9662233339

ENTRY FEE
RS. 20

Register here : 

URJA 2022

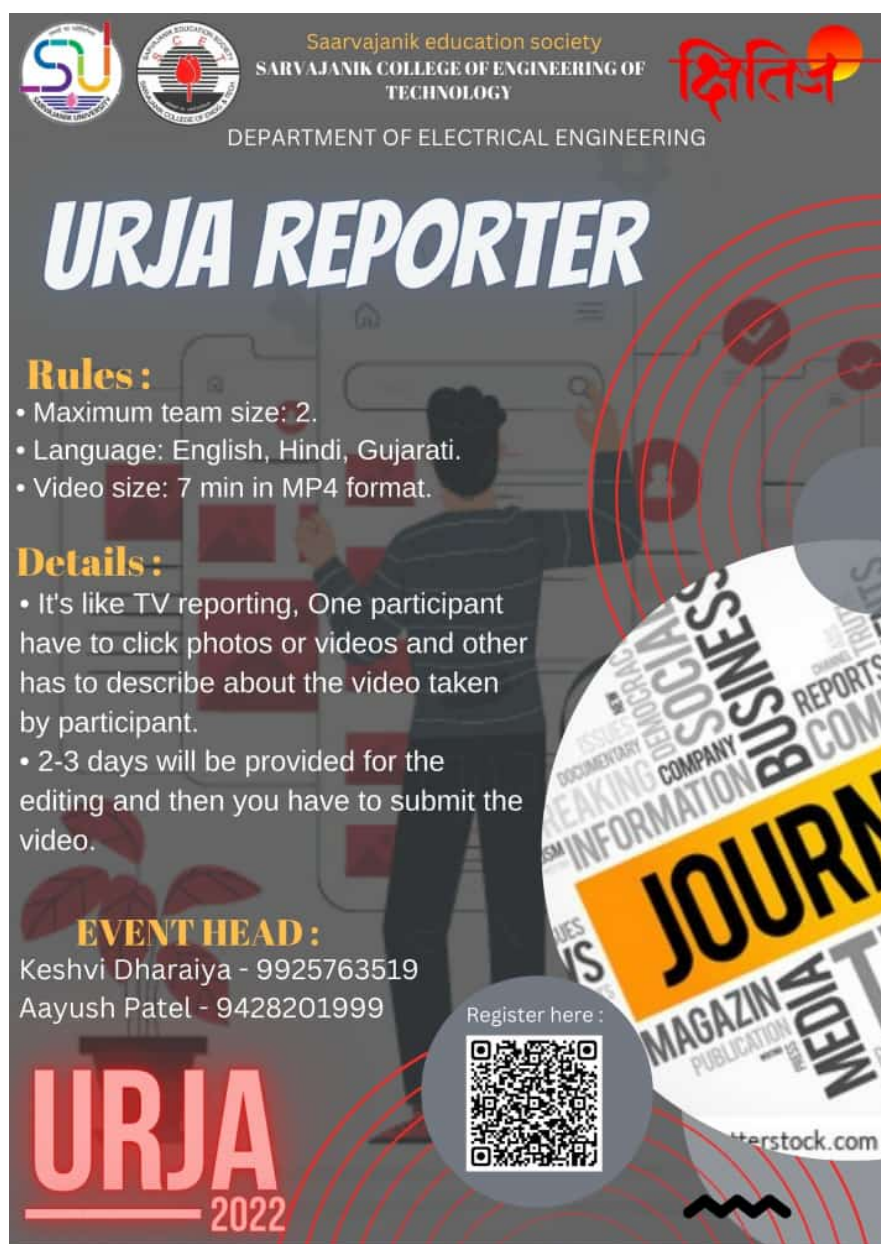
Tech 'O' Quiz has always been one of the favorite technical events of URJA. It is a technical quiz event which tests the team's knowledge of electrical subjects. There were 3 rounds. Round 1 was an 'Elimination Round'. As rounds advance, the questions get tougher and more difficult to solve.

Winners:

Winners	Name of Student	Branch	College name
1	Krish Surati	Electrical - 3rd Year	SCET
	Dhyanesh Talegoankar		SCET
2	Hitarth Lekhadia	Electrical - 2nd Year	SCET
	Maulini Siddhpuria		SCET
2	Tej Desai	Electrical - 2nd Year	SCET
	Balark Mehta		SCET
3	Kenil Lathiya	Electrical - 2nd Year	SCET
	Smit Prajapati		SCET

Urja Reporter

Faculty Coordinator & Jury : Prof. Urvi Jariwala, Prof. Dimple Bhanabhagvanwala

The poster for 'Urja Reporter 2022' features a dark background with a silhouette of a person standing in front of a whiteboard with circuit diagrams. Red concentric circles emanate from the right side. At the top left are logos for 'SU' and 'Saarvajani Education Society'. To the right is the text 'Saarvajani education society', 'SARVAJANIK COLLEGE OF ENGINEERING OF TECHNOLOGY', and 'DEPARTMENT OF ELECTRICAL ENGINEERING'. The title 'URJA REPORTER' is in large, bold, white letters. Below it, the word 'URJA' is repeated in a large, red, stylized font. The poster includes 'Rules' and 'Details' sections, an 'EVENT HEAD' section with contact numbers, and a 'Register here' section with a QR code. A circular graphic on the right contains the word 'JOURNAL' and other media-related terms. The bottom right corner has a wavy line and the text 'terstock.com'.

The whole coverage of Urja '22 was done in a typical news reporter accent by the participants. The nice reporting was presented after two days of Urja.

Winners:

1	Sameer Ahmed	Electrical - 4th Year	SCET
	Meet Patel	Electrical - 4th Year	SCET
2	Yash Chotaliya	Electrical - 2nd Year	SCET
3	Rajvi Rajpura	Electrical - 3rd Year	SCET
	Anjali Chaudhari	Electrical - 3rd Year	SCET

Circuit 'O' Mania

Faculty Coordinator & Jury : Prof. Hardik Desai



The poster for 'Circuit 'O' Mania' features a dark background with a glowing blue circuit board pattern. At the top, logos for SU, SCET, and the organizing society are displayed. The title 'CIRCUIT 'O' MANIA' is in large, glowing green letters. Below it, the rules and details are listed in yellow and white text. The event head's contact information is provided. An entry fee of RS. 20 is mentioned. A QR code for registration is shown in a teal circle. The bottom left corner has 'URJA 2022' in red and white.

Saarvajanik education society
SARVAJANIK COLLEGE OF ENGINEERING OF
TECHNOLOGY
DEPARTMENT OF ELECTRICAL ENGINEERING

CIRCUIT 'O' MANIA

Rules :

- Participation : Solo / team of 2.
- Two rounds to be conducted.
- Final decision in any case will be of event head.

Details :

- ROUND 1: Brain pop (Aptitude and Quiz based).
- ROUND 2: Rapid fire round.
- ROUND 3: Circuit solving.

EVENT HEAD :

Mansi Bhagwagar - 9510075069
Dhwani Patel - 7567133111

ENTRY FEE
RS. 20

Register here : 

URJA
2022


Circuit 'O' Mania is a core event which adds some fun to the technical part of any tech-fest. As the name suggests, the whole event was divided in two parts: Round 1 was a qualifier round and later participants solved electrical circuits in a fun way.

Winners:

Winners	Name of Student	Branch	College name
1	Khushi Harkhani	Electronics and Communication - 2nd Year	SCET
	Sahil Goti		SCET
2	Swet Jariwala	Electrical - 3rd Year	SCET
	Jaimin Shah		SCET
3	Smit Prajapati	Electrical - 2nd Year	SCET
	Isha Jasoliya		SCET

Lazer Maze

Faculty Coordinator & Jury : Prof. Sharad Patel

The poster for the Lazer Maze event features a dark background with vibrant, multi-colored laser beams crisscrossing in various directions. At the top left, there are logos for SU (Saarvajanik University) and SCET (Sardar Vallabhbhai Patel College of Engineering and Technology). The text 'Saarvajanik education society' and 'SARVAJANIK COLLEGE OF ENGINEERING OF TECHNOLOGY' is displayed in the top center, with 'DEPARTMENT OF ELECTRICAL ENGINEERING' below it. The title 'LAZER MAZE' is prominently shown in large, glowing green letters. To the right, there is a logo with the word 'क्षितिज' (Kshiti) in Hindi. The 'Rules' section lists three rounds: Trivia, Mirror Maze, and Escape Room, with a compulsory group size of three. The 'Details' section provides the same information. The 'EVENT HEAD' section lists contact numbers for Foram Gandhi and Kishan Parekh. The 'ENTRY FEE' is listed as RS. 30. A QR code is provided for registration, with the text 'Register here :'. The bottom left corner features the 'URJA 2022' logo.

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.

Winners:

Winners	Name of Student	Branch	College name
1	Vinit Prajapati	Automobile - 4th Year	GEC Rajkot
	Krishi Shah	Civil - 3rd Year	SCET
	Henil Maniya	Civil - 3rd Year	SCET
2	Niyati Kapadia	Computer - 2nd Year	SCET
	Nidhish Dudhwala	Computer - 2nd Year	SCET
	Siddharth Nair	Computer - 2nd Year	SCET
3	Jashraj Pachigar	Mechanical - 1st Year	SCET
	Kashyap Sanghavi	Mechanical - 1st Year	SCET
	Harsh Patel	Mechanical - 1st Year	SCET

Clash Royal

Faculty Coordinator & Jury : Prof. Bijal Mehta



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DEPARTMENT OF ELECTRICAL ENGINEERING

CLASH ROYAL

Rules :

- Match type : 2 vs 2.
- Players can participate in the event at the respected location only .
- Individual entry is allowed (in this case team will be formed by event management team).
- Absent team will be eliminated from competition.

EVENT HEAD :
Yash Vaghani - 9499542327
Kashyap Malankia - 9722006828

**ENTRY FEE
RS. 20**

Register here : 

URJA
2022

CLASH ROYALE
OPPRO DESIGN

Fun event of online games.

Winners:

Winners	Name of Student	Branch	College name
1	Abrar	Civil - 3rd Year	SCET
	Aryan Modi	Civil - 3rd Year	SCET

Housie

Faculty Coordinator & Jury : Prof. Naman Bhatt



We all are aware with the game called housie. This Housie game was with lots of twists and turns This game was completed in two rounds in which students had participated with full energy and enthusiasm.

Winners:

Winners	Name of Student	Branch	College name
1	Malav Radia	Information Technology - 1st Year	SCET
2	Vraj Patel	Electrical - 2nd Year	SCET
3	Priyansh Patel	Information Technology - 1st Year	SCET

Photo Wizard

Faculty Coordinator & Jury : Dr. Sandhya Rathore

Saarvajanik education society
SARVAJANIK COLLEGE OF ENGINEERING OF TECHNOLOGY
DEPARTMENT OF ELECTRICAL ENGINEERING

PHOTO WIZARD

Rules :

- Individual participation.
- Two pictures are mandatory.
- Each photo should be of minimum 3MB.
- Two rounds to be conducted.
- Final decision in any case will be of event head.

Details :

ROUND 1: Solve the clue and click the photo on that particular topic.

ROUND 2: Surprise clue card.

EVENT HEAD :
Bhavini Gamit- 9327157246

ENTRY FEE
RS. 20

Register here : 

URJA
2022

It was about a creative photography. Photo Wizard was an event based on theme photography, in which the participants were given a theme 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.

Winners:

Winners	Name of Student	Branch	College name
1	Yash Patel	Civil - 3rd Year	SCET
2	Kabir Thakkar	Electrical - 3rd Year	SCET
3	Maharshi Shukla	Electrical - 2nd Year	SCET

TMKOC

Faculty Coordinator & Jury : Prof. Almas



The poster for TMKOC 2022 features a dark background with a large, stylized 'TMKOC' logo in the center. Above the logo, it says 'TV Shows & Meme Ka Optimum Craze'. The poster includes logos for SU, SCET, and Saarvajanik Education Society. It lists the Department of Electrical Engineering and the event head, Ganesh Pillai. The rules state that participation in pairs is compulsory, there are three rounds, and the final decision is taken by the event head. The details of the rounds are: Round 1: Quiz (based on various TV shows and movies), Round 2: Meme Creativity, and Round 3: The Final Destination (Surprise Round). The entry fee is RS. 40. A QR code is provided for registration, with the text 'Register here:' above it. The bottom left corner features the 'URJA 2022' logo. The background also includes a faint image of a person's face and some decorative elements like a globe and a rocket.

Rules :

- Participation in pairs is compulsory.
- Three rounds would be conducted.
- Final decision in any case will be taken by the Event head.

Details :

ROUND 1: QUIZ (based on various tv shows and movies).
ROUND 2: Meme Creativity.
ROUND 3: The Final Destination (Surprise Round).

EVENT HEAD :
Ganesh Pillai - 9265527303
Saiyam Shah - 9537598978

ENTRY FEE
RS. 40

Register here :


URJA 2022

Quiz on TV shows. Meme which is an image, video, piece of text, etc., typically humorous in nature is very much popular in different social media platform and particularly among the youth. This event was suggested by students themselves.

Winners:

Winners	Name of Student	Branch	College name
1	Khushi Banka	Electronics and Communication - 2nd Year	SCET
	Janvi Jain	Computer - 2nd Year	SCET
2	Deep Patel	Electronics and Communication - 2nd Year	SCET
	Nehansh Patel	Electronics and Communication - 2nd Year	SCET
3	Jeet Mehta	Electronics and Communication - 2nd Year	SCET
	Pratham Patel	Electronics and Communication - 2nd Year	SCET

Treasure Hunt

Faculty Coordinator & Jury : Prof. Almas



Treasure hunt game

Winners:

Winners	Name of Student	Branch	College name
1	Sameer Ahmed	Electrical - 4th Year	SCET
	Jay Taneja	Electronics and Communication - 3rd Year	SCET
2	Meher Patrawala	Computer - 3rd Year	SCET
	Anand Sahu	Electronics and Communication - 3rd Year	SCET
3	Tej Desai	Electrical - 2nd Year	SCET
	Vraj Patel	Electrical - 2nd Year	SCET

Rocket League

Faculty Coordinator & Jury : Prof. Naman Bhatt



The poster for the Rocket League event features a dark background with a glowing blue and red circular graphic on the right. At the top left are the logos of Saarvjanik University and Saarvjanik Education Society. The text 'Saarvjanik education society' and 'SARVAJANIK COLLEGE OF ENGINEERING OF TECHNOLOGY' is at the top center. Below it is 'DEPARTMENT OF ELECTRICAL ENGINEERING'. The title 'ROCKET LEAGUE' is in large, bold, white letters. Underneath is the 'Rules:' section with three bullet points. Then the 'Details:' section lists the rounds for Day 1 and Day 2. The 'EVENT HEAD:' section lists the names and contact numbers of Meet Parekh and Rutwik Rohankar. The 'ENTRY FEE' is listed as RS. 50. A QR code is provided for registration. At the bottom left is the 'URJA 2022' logo.

Rules:

- Total 4 rounds would be conducted.
- Each team gets 5 minutes to score goals. Half time at 2 minutes 30 seconds.
- In any case like Tie, White wash or Technical issue, we will conclude the round by timing or a bonus round of 2 minutes.

Details:

DAY 1:

- 1) Selection round (top 24).
- 2) Qualifier round (top 12).

DAY 2:

- 1) Elimination round (top 6).
- 2) Final round (top 3).

EVENT HEAD:

Meet Parekh - 9909904839
Rutwik Rohankar - 6352148687

ENTRY FEE
RS. 50

Register here : 

URJA 2022

Toy cars competition

Winners:

Winners	Name of Student	Branch	College name
1	Nakul Patel	Information Technology - 1st Year	SCET
2	Akshat Patel	Information Technology - 1st Year	SCET
3	Aalap Hansoti	Electronics and Communication - 1st Year	SCET

Electro Card

Faculty Coordinator & Jury : Dr. Sandhya Rathore



The poster for the 'Electro Card' competition features a collage of Christmas cards and technical drawings. At the top left are the logos of Saarvajnik Education Society and Sarvajnik College of Engineering of Technology. The text 'Saarvajnik education society' and 'SARVAJANIK COLLEGE OF ENGINEERING OF TECHNOLOGY' is displayed. Below this is 'DEPARTMENT OF ELECTRICAL ENGINEERING'. The title 'ELECTRO CARD' is prominently displayed in large, bold, white letters. To the right, there is a red logo with the word 'क्षितिज' (Kshiti) and a sun icon. The 'Rules' section lists participation as solo/team of 2 and a time limit of 1.5 hours. The 'Details' section specifies that any type of card is acceptable, the theme must be electrical, and materials are not provided. The 'EVENT HEAD' section lists Nensi Ajmera and Kenali Chaudhari with their contact numbers. A QR code for registration is provided, along with the text 'URJA 2022' at the bottom left.

Rules :

- Participation: Solo/team of 2.
- Time limit: 1.5 hours.

Details:

- Any type of card for example Diwali card, Birthday card, Farewell card.
- Theme/ Background of card: Electrical.
- Materials will not be provided by us.

EVENT HEAD:

Nensi Ajmera - 8511193865
Kenali Chaudhari - 8469625857

Register here :



URJA 2022

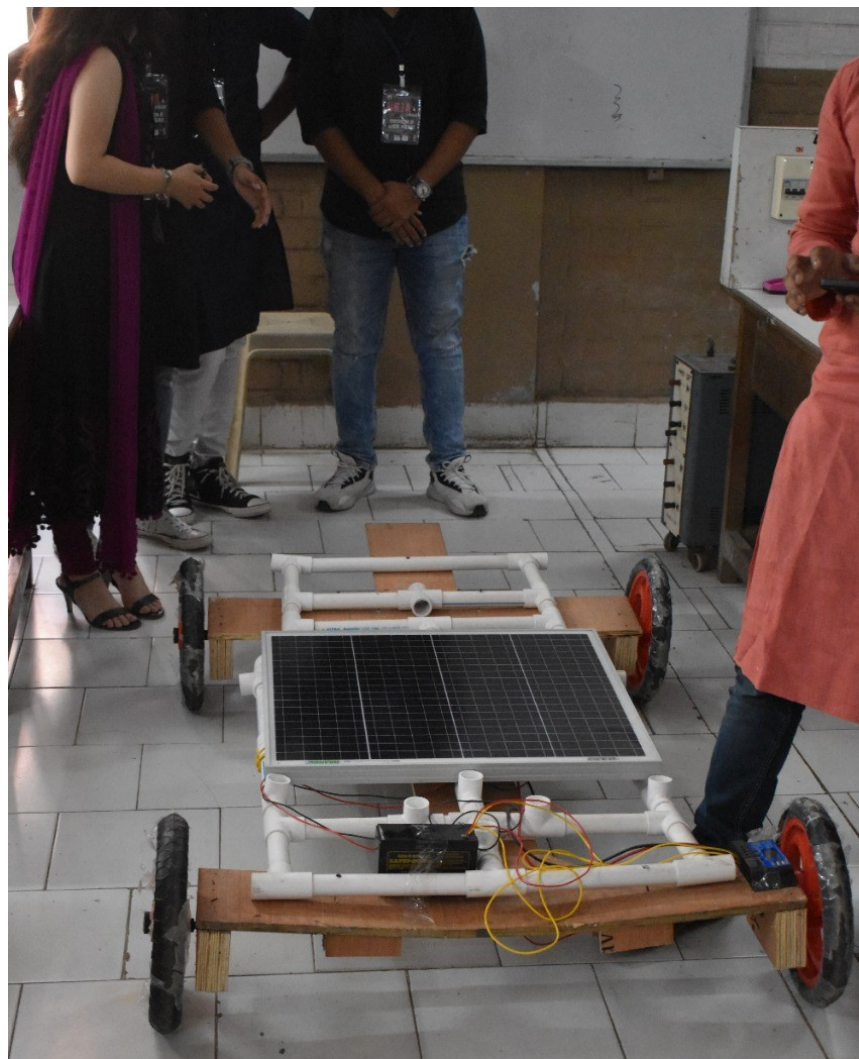
Card making competition on Electrical theme.

Winners:

Winners	Name of Student	Branch	College name
1	Riddhi Patel	Computer - 1st Year	SCET
	Krishi Patel	Computer - 1st Year	SCET

Here are the glimpses:











URJA 22 PRIZE DISTRIBUTION CEREMONY

The ceremony was held on 7th Oct '22 evening at SCET Dome. The function was commenced by welcoming the SU provost Dr. Persi Engineer. That followed by felicitation of Shri Mukeshbhai Dalal, President of The Surat People's Co-op. Bank Ltd., who was one of the worthy sponsors of Urja' 22. The function continued with announcements and felicitations of various event winners. The first year students of Electrical were also invited to be the part of this evening and were welcomed with flowers.









Acknowledgment

We, the URJA-21 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-21. We would like to thank HoD (EED) & Dean SAWC, SCET for their timely contribution to our needs and the support they have provided throughout organizing the event.