

## **Sarvajanik Education Society**

### **Sarvajanik College of Engineering & Technology**

A Report On

# URJA

**(17<sup>th</sup> & 18<sup>th</sup> September, 2021)**

Organized by

**Electrical Engineering Department**

Under the State Level Students“Tech-Fest



**URJA2k21**

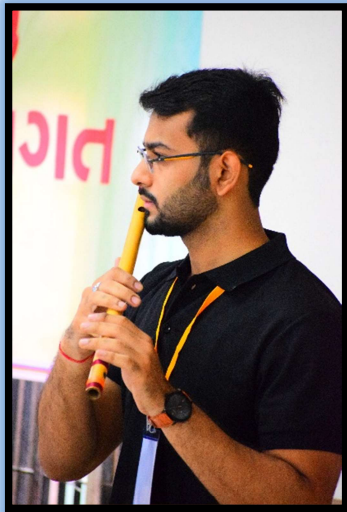

The banner for the URJA2k21 event is a collage of logos and text. At the top left are the Sarvajanik University and Sarvajanik Education Society logos. The center features the Sarvajanik College of Engineering and Technology logo, the Department of Electrical Engineering logo, and the URJA2k21 logo with the tagline 'In the Surge of Knowledge'. The right side has the 'KSHITIJ' logo. Below the logos, the event dates '17TH - 18TH SEPTEMBER 2021' are displayed. The banner is divided into 'TECH EVENTS' and 'NON - TECH' sections. The 'TECH EVENTS' section lists 'Abhishaar', 'TechMasters', 'Abhivyakti', 'Circuit-o-Minerva', 'Aavishkaar', and 'Robo-Master'. The 'NON - TECH' section lists 'Housie', 'Lazermaze', 'TMKOC', 'Photo Wizard', and 'Wanna WIN Big?'. Below these, the 'URJA HEADS' section lists 'Parth Gajjar', 'Ashish Gediya', 'Sankalp Jariwala', 'Muskan KV', and 'Parth Parmar'. The 'DESIGN & WEB HEAD' is 'Ayushi Patel', the 'HEAD OF DEPARTMENT' is 'Dr. Shabbir S. Bohra', and the 'FACULTY HEAD' is 'Prof. Bijal Mehta' and 'Prof. Hardik Pandya'. At the bottom, the 'HEALTH PARTNERS' section lists 'NEPHRON KIDNEY CARE', 'H&B Healthy Beautiful Skin, Hair & Laser Clinic', and 'DIOBEAT Diabetes, Thyroid and Endocrine Clinic'. The 'DESIGN PARTNERS' section lists 'TFC The ICON Designs'. The 'EVENT SPONSORS' section lists 'RECARÉ ELECTRICAL LLP', 'GARLIC KNOT PIZZA', and 'VELOCITY ENGINEERING CLASSES'.

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-2K21” under the banner of “KSHITIJ-2021” where various technical & non-technical electrical engineering related events are arranged for all the branches.

More than **1300** students have done participation in various events from SCET as well as other institutes.

- As we all are aware of the situation of the COVID-19 in which it was not possible to arrange this event in the offline mode last year. So it was a big challenge for all of us to conduct various events in offline mode after a gap of two years and that too in a very short duration. Nevertheless, URJA-2k21 was comprised of 11 events from which 7 events were Technical and 4 events were non-technical. Technical Events were **Abhishar, Abhivyakti, Avishkar, Tech 'O' Quiz, Robo Race, Circuit Chakravyuh, Laser maze**, that had got the logical and creative impulses of young minds running. Non-Technical events were **Meme + TV, Photo Wizard, Housie, and Wanna win big**. Inauguration of URJA'21 was held in Library reading hall which was begun with the prayer performed by students. Prof. Bijal Mehta, URJA'21 coordinator, has briefed about all the events and Dr. Shabbir Bohra, HoD, EED has opened the URJA'20 wishing good luck to the participants.



## Schedule of URJA2k21

URJA 2K21				
Event Schedule				
DAY - 1 (17/09/2021)				
8:30 AM-09:00 AM	Tea and Break Fast(PSP LAB)			
09:30 AM	Inauguration of URJA 2K21			
9:30 AM - 10:30 AM	Laser Maze - Round-1 (E-201,E-202)	ABHIVYAKTI Paper Presentation (PG lab)	ABHISHAR Poster Presentation (Measurement Lab)	TMKOC- ROUND -1 (E-203,E-204)
10:30 AM - 11:30 AM				HOUSE- ROUND -1 (E-202,E-203,E-204)
11:30 PM - 01:00 PM				Tech Master Round -1 (E-201)
01:00PM-1:30 PM	Lunch Break			
01:30 PM -2:30 PM	WANNA WIN BIG ROUND-1 (E-201, E-202)	Laser Maze - Round-2 (ME Classroom E-106)		Photo Wizard (BEE LAB)
02:30 PM -3:30 PM	TMKOC- ROUND -2 (E-203,E-204)			
3:30PM - 4:30 PM	WANNA WIN BIG ROUND-2 (E-201, E-202)			
9:30 AM - 3:30 PM	AAVISHKAR Model Presentation (Machine Lab)			
9:00 Onwards	Robo Race (Round 1) (PE Lab)			
DAY - 2 (18/09/2021)				
8:30 AM - 09:00 AM	Tea and Break Fast(PSP LAB)			
9:30 AM - 10:30 AM	Tech Master Round -2 (E-201)	Circuit o' Minerva Round -1 (E-202)	Robo Master(Round 2) (PE lab)	
10:30 AM - 11:30 AM	Laser Maze(Round-3) (ME 2 Classroom E-106)	WANNA WIN BIG ROUND-3 (E-201, E-202)		
11:30 AM - 1:00 PM		Circuit o' Minerva Round -2 (E-202)		
01:00 PM - 1:30 PM	Lunch Break			
1:30 PM - 3:30 PM	HOUSE- ROUND -2 (E-202)	Circuit o' Minerva Round -3 (Machine Lab)	Robo Master(Round 3) (PE lab)	
03:30 PM	Validictory Session (Project Lab)			

**The event wise participation details are as follows:**

<b>Sr. No</b>	<b>Event name</b>	<b>Technical/Non Technical</b>	<b>Total No. of Participants</b>
1	Abhiviyakti	Technical	4
2	Abhishar	Technical	4
3	tech master (Quiz)	Technical	116
4	circuit o minera	Technical	100
5	Lazer maze	Technical	173
6	Robo Masters	Technical	145
7	Photo vizard	Non Technical	231
8	TMKOC	Non Technical	242
9	Housie	Non Technical	259
10	Wanna win Big	Non Technical	90
		<b>Total Participation</b>	<b>1364</b>



## Abhishar



**SARVAJANIK EDUCATION SOCIETY**  
**SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY**

**ABHISHAR**  
**POSTER PRESENTATION**

**RULES**

- Team - solo/team of max. 4
- Time Limit :- 15 minutes
- Poster size A1
- Topic should be related to Electrical Engineering

**REGISTER HERE**

Faculty Coordinator  
**Prof. Hemin D. Motiwala**

**URJA**  
In the Surge of Knowledge 2021

Kush Shah : +91 9375860669  
Nitish Patel : +91 9081005715  
Kashyap : +919722006828

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. Hemin D. Motiwala was a faculty coordinator for this event and Prof. Aditi Hajari and was the jury of this event.



The poster for 'Abhivyakti Paper Presentation' features a background image of a person working on a laptop. At the top, it displays the Sarvajanik Education Society and Sarvajanik College of Engineering and Technology logos, along with the Sanskrit word 'क्षितिज' (Kshiti-j). The title 'ABHIVYAKTI PAPER PRESENTATION' is prominently displayed in yellow. Below the title, a QR code is provided for registration. The 'RULES' section lists participation details: solo or team of 2, a 10-minute presentation and 5-minute Q&A session, a choice of any electrical field topic, submission of a soft PPT copy by 16/09/2021, and a hard copy submission on the spot. The 'TOPICS' section lists: Electric Vehicle, Wireless Technology, Green Renewable Energy, AI In Power Station, Smart Grid, and Industrial Automation. The 'REGISTER HERE' section identifies Prof. Dimple Bhanabhagwanwala as the Faculty Coordinator. At the bottom, the URJA 2021 logo is shown with the tagline 'In the Surge of Knowledge'. Contact information for Dhruti Pandya, Muskan Maru, and Dhvani Patel is also provided.

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# ABHIVYAKTI PAPER PRESENTATION



## RULES

- Participation : Solo/team of 2
- Time limit: 10mins(at max) , 5min – Q&A
- Given or any Electrical field topic to be selected.
- Soft Copy of PPT to be submitted by 16/09/2021.
- Hard copy of PPT to be submitted on the spot.

## TOPICS

Electric Vehicle	AI In Power Station
Wireless Technology	Smart Grid
Green Renewable Energy	Industrial Automation

**REGISTER HERE**  
Faculty Coordinator  
**Prof. Dimple  
Bhanabhagwanwala**

**URJA**  
In the Surge of Knowledge 2021

Dhruti Pandya : +91 9925045129  
Muskan Maru : +91 9106831366  
Dhvani Patel : +91 6355692563

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. **Prof. Dimple Bhanabhagwanwala** was the faculty coordinators for this event and Dr. Hitesh Mehta was the Jury of this event.

## Tech Masters



The poster for the Tech Masters event features a dark background with a large, 3D orange question mark and the text 'TECH MASTERS' in white. At the top, logos for Sarvajanik Education Society and Sarvajanik College of Engineering and Technology are displayed, along with a red 'विविध' (Vividh) logo. A QR code is provided for registration. The rules section lists participation details and round formats. Contact information for the faculty coordinator and organizers is also included.

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# TECH MASTERS

**REGISTER HERE**

Faculty Coordinator  
**Prof. Urvi Jariwala**

**URJA**  
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### RULES

- Participation : Solo/team of 2
- Round 1: Written Quiz MCQ
- Round 2: Rapid Fire Round
- Final decision in case of a tie will lie with the jury members.
- If found cheating, team will be disqualified.

**Hetnash Mehta : +91 9909960905**  
**Jay Miyani : +91 9586815912**  
**Ali Chunawala : +91 7600282622**

Tech Masters 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" 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.





## Circuit Chakravyuh



The poster for the Circuit Chakravyuh event features a background image of a circuit board. At the top, it displays the Sarvajani Education Society logo and the college name. The event title 'CIRCUIT - O MINERVA' is prominently displayed in the center. Below the title, a QR code is provided for registration. The rules section lists the number of participants, entry fees, rounds, and the final decision authority. Contact information for the faculty coordinator and event organizers is also included.

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**CIRCUIT - O MINERVA**

**REGISTER HERE**

QR Code

**RULES**

- Minimum 1 - Maximum 2 participants are allowed.
- Entry fees - ₹20 (on the spot)
- Three rounds to be conducted.
- Final decision in any case will be of Event Head/Coordinator
- ROUND 1 : BRAIN POP (Aptitude and quiz based)
- ROUND 2 : IDENTIKIT (Crossword of Basic Electrical Knowledge)
- ROUND 3 : SURPRISE ROUND

**Facility Coordinator**  
**Prof. Rajesh Prasad**

**URJA**  
In the Surge of Knowledge 2021

**Yashu Sarawagi : +91 8200746785**  
**Akash Gundu : +91 7043515459**  
**Akash Shekhaliya : +91 9909896522**

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 1 was 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.



## Robo Masters



The poster for the Robo Masters event features a central image of a robot on a hexagonal platform. The title 'ROBO MASTERS' is prominently displayed in large, blue, block letters. Above the title, the logos of Sarvajani Education Society and Sarvajani College of Engineering and Technology are shown, along with the Sanskrit word 'क्षितिज' (Kshiti-j) in red. Below the title, a QR code is provided for registration. To the right of the QR code, the word 'RULES' is written in blue, followed by a list of rules. At the bottom left, the faculty coordinator's name, Dr. Hardik Desai, is listed. At the bottom right, the names and contact numbers of the organizers are provided. The bottom of the poster features the URJA 2021 logo with the tagline 'In the Surge of Knowledge'.

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# ROBO MASTERS

## RULES

- Team size:- Max. 2.
- Fees :- ₹20/person (on the spot)
- Three round will be conducted.
- Dimensions of robot not exceed then 25×25×15 cm.
- Note:- If you don't have your Robot then it will be provided. (extra ₹10).

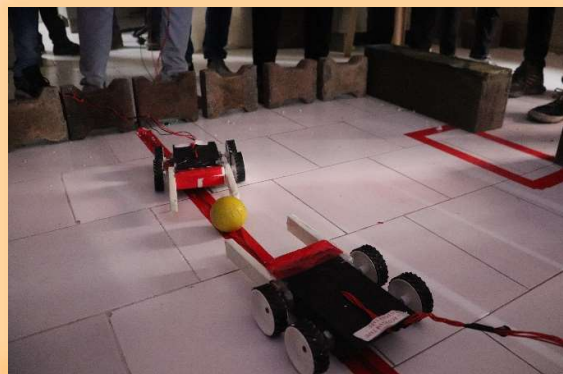
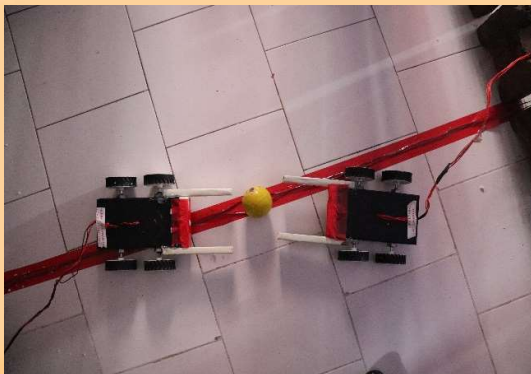
REGISTER HERE

Faculty Coordinator  
**Dr. Hardik Desai**

URJA  
In the Surge of Knowledge 2021

Janmay Trivedi : +91 9428078279  
Aakash Sheta : +91 9824542101  
Naresh Patil : +91 9081219250

Robo masters was a new and innovative event that was included this year. Every year our department organizes the event named robo race and that is so popular amongst the students that even students from other departments also participate in large number. But this year as we have to organize the event in online mode only so we have come up with this new event in which students have to make robots online and they were given some task that have to be performed within time limits. In this event there were 145 participants and 3 winners were announced. Dr. Hardik Desai was acting as faculty coordinator for the same.





## Lazer Maze



The poster for the Lazer Maze event features a dark background with a network of green lines and dots, resembling a laser maze. At the top, there are logos for Sarvajani Education Society and Sarvajani College of Engineering and Technology, along with the text 'SARVAJANIK EDUCATION SOCIETY' and 'SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY'. The title 'LAZER MAZE' is prominently displayed in large, bold, green letters. Below the title, there is a QR code and a 'REGISTER HERE' link. The 'RULES' section lists the event details: Group Participation (3 only), Registration fees (₹30), Round 1 (LASER TRIVIA), Round 2 (MIRROR MAZE), Round 3 (ESCAPE PLAN), and On the spot payment if ONLINE entries. The Faculty Coordinator is Prof. Sharad Patel. At the bottom, there is a logo for URJA 2021 with the tagline 'In the Surge of Knowledge' and contact information for Shivam Khatri, Darshil Khatri, and Abhishek Pandit.

**LAZER MAZE**

**RULES**

- Group Participation : 3 only
- Registration fees : ₹30
- Round 1 : LASER TRIVIA
- Round 2 : MIRROR MAZE
- Round 3 : ESCAPE PLAN
- On the spot payment if ONLINE entries.

**REGISTER HERE**

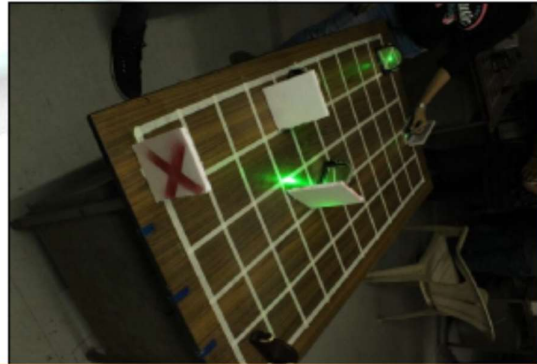
Faculty Coordinator  
**Prof. Sharad Patel**

**URJA**  
In the Surge of Knowledge 2021

Shivam Khatri : +91 8980528107  
Darshil Khatri : +91 9662491865  
Abhishek Pandit : +91 8160848462

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.





## HOUSIE

The poster for the HOUSIE event features a dark background with a pattern of numbers in various colors. At the top left, there are two circular logos: one with 'SU' and another with a red and white design. To their right, the text 'SARVAJANIK EDUCATION SOCIETY' and 'SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY' is displayed. The word 'HOUSIE' is prominently shown in large, white, bold letters. Below it, a yellow wavy line separates the title from the 'RULES' section. The rules are listed in white text. To the left of the rules is a QR code. Below the QR code, the text 'REGISTER HERE' is written. Further down, the 'Faculty Coordinator' is identified as 'Prof. Naman Bhatt'. At the bottom left, the 'URJA' logo is visible, featuring a stylized 'U' and 'R' with a sun-like symbol, and the tagline 'In the Surge of Knowledge' and '2021'. On the bottom right, contact information for three individuals is provided: Parin Chovatiya, Shubham Kotadiya, and Saiyam Birawat, each with a phone number.

This was again the fun event that was the part of non-technical event. We all are aware with the game called housie. This game was completed in two rounds in which 259 students had participated with full energy and enthusiasm. This event was coordinated by Prof. Naman Bhatt.



## Photo Wizard



The poster for the Photo Wizard event features a central image of a hand holding a Canon DSLR camera. The text 'PHOTO WIZARD' is overlaid in large, bold, pink letters. At the top, logos for Sarvajanik Education Society and Sarvajanik College of Engineering and Technology are displayed, along with the Hindi word 'क्षितिज' (Kshiti) and a sun icon. Below the camera, a QR code is provided for registration. The 'RULES' section lists participation details. Contact information for the Faculty Coordinator, Dr. Sandhya Rathore, and three organizers (Vraj Anajwala, Jayraj Kheyar, and Abhishek) is listed at the bottom. The URJA 2021 logo is also present.

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**PHOTO WIZARD**

**RULES**

- Individual participation
- Theme will be given on event day
- Two pictures are mandatory (10 Points each)
- Photo size should not below 3 MB
- Mail your pictures on the given email id :-  
[photowizardUrja2K21@gmail.com](mailto:photowizardUrja2K21@gmail.com)

**REGISTER HERE**

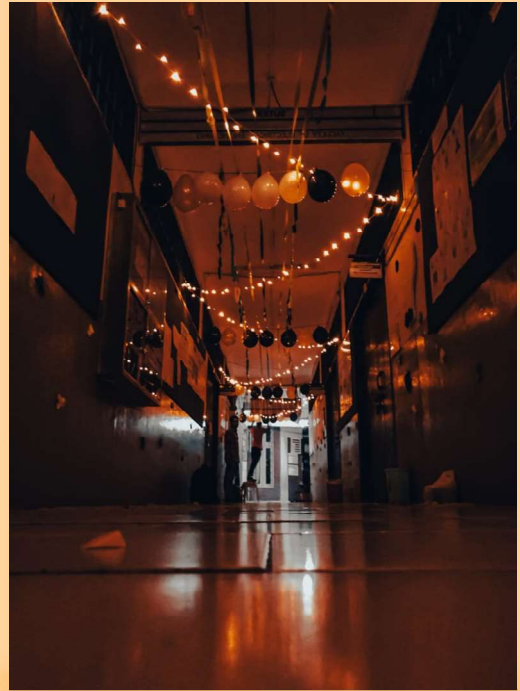
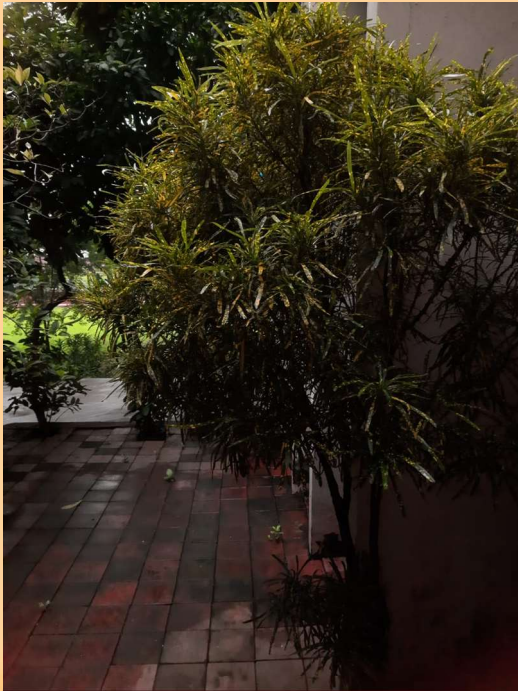
Faculty Coordinator  
**Dr. Sandhya Rathore**

**URJA**  
In the Surge of Knowledge 2021

Vraj Anajwala : +91 6353527569  
Jayraj Kheyar : +91 9427974796  
Abhishek : +91 9568631660

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. The top 3 pictures were selected as winners. Few samples pictures taken by students are shown in the next page.





## TMKOC



The poster for the TMKOC event features a vibrant, multi-colored background with a wavy design. At the top, logos for Sarvajani Education Society and Sarvajani College of Engineering and Technology are displayed, along with a 'NETFLIX' logo. The title 'TMKOC' is prominently shown in large, bold, white letters with a black outline. Below it, the subtitle 'TV-SHOWS & MEMES KA OPTIMUM CRAZE' is written in a smaller, bold font. The poster includes images of a cat, a Disney+ logo, and a person. A QR code is located on the left side, with the text 'REGISTER HERE' below it. The 'RULES' section is on the right, listing the team size, fees, rounds, and the final decision. The faculty coordinator's name, Prof. Krishna Vakharia, is listed below the QR code. At the bottom, the URJA logo is shown with the tagline 'In the Surge of Knowledge' and the year '2021'. Contact information for Jayveer Chavda, Koyal Soni, and Jainesh Patel is provided on the right side.

**TMKOC**  
**TV-SHOWS & MEMES KA OPTIMUM CRAZE**

**RULES**

- Team : 2 students
- Fees: 30₹ Per Pair (on the spot)
- Three Rounds Would Be Conducted.
- Final Decision In Any Case Will Be Of Event Head/Co-ordinator.
- Round 1: Quiz ( Based On Various Tv Shows And Movies.)
- Round 2: Meme Creativity
- ROUND 3: THE FINAL DESTINATION

**REGISTER HERE**

Faculty Coordinator  
**Prof. Krishna Vakharia**

**URJA**  
In the Surge of Knowledge 2021

Jayveer Chavda : +91 7359966328  
Koyal Soni : +91 7016112470  
Jainesh Patel : +91 9429343217

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. In spite of the first time event this event attracted more than 240 participants not only from the electrical departments but from the other departments of the college. There were three different rounds in this event.

## Wanna Win Big



The poster for the 'Wanna Win Big' event features a dark background with colorful icons of social media and technology. At the top, logos for Sarvajanik Education Society and Sarvajanik College of Engineering and Technology are displayed, along with the text 'SARVAJANIK EDUCATION SOCIETY' and 'SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY'. The main title 'WANNA WIN BIG?' is prominently displayed in large, stylized letters. Below the title, a QR code is provided for registration. The rules of the event are listed: Max 2 participants, Total 2 rounds and 1 suspense round, Round - 1 : Abbreviation, and Round - 2 : Logo & Tag Line. The Faculty Coordinator, Prof. Hitesh Mehta, is mentioned. At the bottom, the URJA 2021 logo is shown with the tagline 'In the Surge of Knowledge'. Contact information for Viral Padhi, Yash Roy, and Yash Sony is also provided.

**REGISTER HERE**

Faculty Coordinator  
**Prof. Hitesh Mehta**

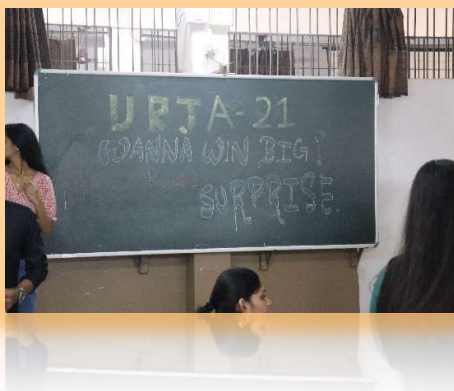
**URJA**  
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**RULES**

- Max 2 participants.
- Total 2 rounds and 1 suspense round
- Round - 1 : Abbreviation
- Round - 2 : Logo & Tag Line

Viral Padhi : +91 6354947978  
Yash Roy : +91 7990973048  
Yash Sony : +91 8849599471

“Wanna Win big” was one of its kind of event which was first time introduced this year in URJA. This event was completed in two different rounds. First round was known as “Abbreviation” and there were 90 participants in the round. Second and final round was “Logo & Tag Line” in which students were given different topic on which they have to create logo as well as tag line and best one was declared as winner.





**Valedictory**

Valedictory Function was scheduled on 18<sup>th</sup> September, 2021 at 4:30 pm at Library reading hall, SCET. The function was commenced by welcome speech by the URJA-21 student Coordinators. After that Dr. Shabbir Bohra, HoD, EED had given speech appreciating success of URJA-21. The function was followed by announcement and felicitation of various event winners. Then one of the student coordinators of the event Parth Parmar has given the vote of thanks.







## **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.

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