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*Report On*



**CHEMCLAVE 2024**  
*(20<sup>th</sup>-21<sup>st</sup> September 2024)*

Under State Level Annual Techfest

In association with

**Kshitij 2024**

**IChE Student Chapter**



***Organized by***

**Shree Dhansukhlal Thakordas (Colortex Group)**

**DEPARTMENT OF CHEMICAL ENGINEERING  
SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY,  
SARVAJANIK UNIVERSITY**

**Dr. R. K. Desai Marg,**

**Athwalines,  
Surat-395001  
2024-2025**



Department of Chemical Engineering, SCET, Surat had organized **CHEMCLAVE 2024** under Annual Techfest – **KSHITIJ 2024** comprising Technical, Semi – technical and Non – Technical Events during (20<sup>th</sup> September – 21<sup>st</sup> September' 2024) under the banner of **KSHITIJ 2024** and in association with Indian Institute of Chemical Engineers (IIChE).

The aim of the event is to provide a common platform to interact and exchange ideas, experience to the budding engineers and to share their knowledge on various researches going on in the field of chemical engineering. The theme of the CHEMCLAVE for this year 2024 was "**ENGINEERING A GREENER, SAFER TOMORROW**".

<b>Faculty Coordinator</b>	:	Prof. Rashmita Patel & Prof. Ashish Parmar
<b>Student Coordinator</b>	:	Vishwa Tailor Kayastha Aryankumar Mitesh Sapariya Keya Das

CHEMCLAVE 2024 comprises of following events:

1. Abhivyakti – A technical paper presentation
2. Aavishkar – A Model presentation
3. Virtual Placement – To give a feel of placement procedure
4. Hack Sim – To provide solution to the problem using simulator software.
5. Chem Spec – To find out the asked parameter with using books as reference
6. Safety Scan – Learning about safety required for Engineer at Industrial Workplace.
7. Mystery Track – Answer the question, reach at a final destination by solving clues.
8. Chem Capture – Capture the moments in CHEMCLAVE 2024.



### INAUGURATION CEREMONY

The Inauguration Ceremony of our Annual Techfest "CHEMCLAVE 2024" was a truly memorable and grand occasion, setting a vibrant tone for the entire event. The ceremony was attended by **Mr. Mayur Kachhadiya & Mr. Ronak Javiya, Directors of Janki Herbals Pvt. Ltd., SCET Alumni 2017** as chief guests. Their inspiring words emphasized the importance of technological innovation, creativity, and collaboration in shaping the future.

The Inauguration Ceremony was followed by a practical demonstration of various types of fire extinguishers, conducted by experts from Surat Municipal Corporation. The demonstration not only educated participants on emergency preparedness but also underscored the importance of safety measures in both personal and professional environments. All the Students & Faculties actively participated in the demonstration.









**Event Name: 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 questions and answers. Each Participant with delivered the paper or poster presentation on any topic related to Chemical Engineering & Environment Issues and try to explain the topic to audience by various means

<b>Event Faculty Head</b>	Prof. (Dr.) Swati Sharma
<b>Jury members</b>	Mr. Dipesh Kachhadiya, TA SVNIT, Surat (SCET Alumni)
<b>Event Head</b>	Kinjal Gajra (4 <sup>th</sup> Year) Kirtan Rana (3 <sup>rd</sup> Year)
<b>Volunteers</b>	Rominkumar Sarang Akash Yadav Kunj Bodarya Megh Kataria
<b>Total team participation</b>	05
<b>Name of winner</b>	Keya Das (SCET)



**SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Shree Dhansukhlal Thakordas Colourtex group  
Department of Chemical Engineering

**ABHIVYAKTI**

**ENTRY FEES: NIL**

**RULES**

- Participation – Solo
- Participation in the event is open for all branches.
- Participants have to present their research work (i.e., max 10-12 slides) in front of the jury members.
- Time limit will be 15 min. for presentation along with Q&A.
- Winners and Runner-ups will get prize money.
- Participants will be informed about their finalized topics till evening of 16th Sept. 24.
- Further, students have to submit their presentation within 2 days on or before 18th Sept. 2024.
- Participants are informed to submit their work on ABHIVYAKTI\_24@gmail.com

**FACULTY HEAD**  
PROF. (DR.) SWATI SHARMA

**STUDENT HEAD**  
GAJRA KINJAL: 9737340229  
KIRTAN RANA: 9016603065

**Date & Time:**  
20th Sept. 2024  
11 AM onwards

**Venue:**  
SCET college

QR Code: [QR Code]





**Event Name: Avishkar**

This technical event is regarding the model presentation. Students showcased their technical knowledge, think out of box skill and presenting skills to showcase their knowledge in front of the jury members, faculties and invitees. The evaluation was done based on these criteria and winners were selected accordingly by the jury member.

<b>Event Faculty Head</b>	Prof. Ashish Parmar
<b>Jury members</b>	Dr. Rakesh Vaiwala, Research Associate, Department of Chemical Engg. IISc, Bangalore (SCET Alumni)
<b>Event Head</b>	Jhanvi Sharma (4 <sup>th</sup> Year) Mitesh Purohit (3 <sup>rd</sup> Year)
<b>Volunteers</b>	Kashyap Tailor Aaditya Chauhan Dhruvit Postiwala Alpesh Khalane
<b>Total team participation</b>	17
<b>Winner Details</b>	
3 <sup>rd</sup>	Vraj Patel & Megh Patel (NGPP & SCET)
2 <sup>nd</sup>	Gohil Chandradeep Sinh, Patil Prem & Chaudhari Mumux (UTU)
1 <sup>st</sup>	Aditya Thakor & Ramkesh Singh (SCET)



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Shree Dhansukhlal Thakordas 'Colourtex group'  
Department of Chemical Engineering





# AVISHKAR

**ENTRY FEES: NIL**

**RULES**

- The event is open for all branches but the project must relate to chemical engineering.
- Team size: Minimum 2 and Maximum 4.
- Project abstracts and presentations must be submitted by the teams before the provided deadline 18th Sept, 24
- The abstract must be no longer than 300 words and the presentation time limit is 10 min.
- The participants can also perform experiments which results in a product (for eg. Saponification, essential oil extraction, etc)
- Within the time limit of 2 hrs. Final year students can present the project they are working on.
- The jury decision will be final.
- Prize will be given to the top two teams based on their project's merit.

**FACULTY HEAD**  
PROF. ASHISH PARMAR

**STUDENT HEAD**  
JHANVI SHARMA : 7069248706  
MITESH PUROHIT: 7383069266



**Date & Time:**  
20th Sept, 2024  
11 AM onwards

**Venue:**  
SCET college







**Event Name: Virtual Placement**

This event provided the opportunity to participant to get the knowhow of the placement drive levels, i.e, Written Test, Group Discussion, and Personal Interview. By participating in the event they developed the confidence to appear in all the rounds of the placement drive of any industry. The mock interview in front of the industrial personnel have given them the idea about the types of questions asked during the interview and how to answer them.

<b>Event Faculty Head</b>	Prof. Rashmita Patel
<b>Jury members</b>	
<b>Group Discussion</b>	Prof. Pratik Patel, Assistant Professor, BRCM, Surat
<b>Personal Interview</b>	Mr. Tushar Tahelramani, Executive – Production & Supply Chain, Krishi Rasayan Pvt. Ltd (SCET Alumni)
<b>Event Head</b>	Aaditya Thakor (4 <sup>th</sup> Year)
	Mahek Patel (3 <sup>rd</sup> Year)
<b>Volunteers</b>	Jeet Desai (3 <sup>rd</sup> Year)
	Rudra Goti (2 <sup>nd</sup> Year)
	Bharsadiya Yug (2 <sup>nd</sup> Year)
	Gajre Rudra (1 <sup>st</sup> Year)
<b>Total team participation</b>	89
<b>Winner Details</b>	
3 <sup>rd</sup>	Meet Shah (SCET)
2 <sup>nd</sup>	Gajra Kinjal (SCET)
1 <sup>st</sup>	Pranavi Mehta (SCET-CO) & Jhanvi Sharma (SCET)


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 Department of Chemical Engineering



# VIRTUAL PLACEMENT

**ENTRY FEES: NIL**


 In association with  
**ICChE Student Chapter**



**RULES**

- Participation – Solo

**ROUND-1**

- A written test of Aptitude Questions and Technical Questions.

**ROUND-2**

- Group Discussion.

**ROUND-3**

- An interview session for shortlisted candidates will conducted by an Industrial Expert.

Dress Code: Formal

The decision of jury will be final.

**FACULTY HEAD**  
PROF. RASHMITA PATEL

**STUDENT HEAD**  
AADITYA THAKOR: 9426465283  
MAHEK PATEL: 9904533197



**Date & Time:**  
Round 1 & 2: 20th Sept.  
2024  
Round 3: 21st Sept 2024  
11 AM onwards

**Venue:**  
SCET college







**Event Name: HackSim**

HACKSIM is an event which tests the anticipation and computational skills of participants, one who participated should be able to compare ASPEN PLUS and DWSIM by solving chemical engineering design intensive problem. The main Motive of the Event is to provide an experience and motivation to learn about simulator software such as Aspen Plus and DWSIM.

<b>Event Faculty Head</b>	Prof. Anand Upadhyay
<b>Jury member</b>	Mr. Miraj Savani, Process Engineer & Research Scholar, SVNIT, Surat (SCET Alumni)
<b>Event Head</b>	Aditya Thakor (4 <sup>th</sup> Year)
	Priyansu Patel (3 <sup>rd</sup> Year)
<b>Volunteers</b>	Karan Prajapati (4 <sup>th</sup> Year)
	Dev Parmar (3 <sup>rd</sup> Year)
<b>Total team participation</b>	10
<b>Winner Details</b>	
2 <sup>nd</sup>	Jash Pachhigar & Nihar Patel (SCET)
1 <sup>st</sup>	Sankalp Desai & Parth Chauhan (SCET)


**SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY**  
 Shree Dhansukhlal Thakorda / Celourtex group  
 Department of Chemical Engineering



# HACKSIM

**ENTRY FEES: NIL**



In Association With  
IICET Student  
Chapter



**Rules:**

- Team should contain Maximum 2 person.
- Internet connection and reference books allowed to use.
- Computer system will provided by organizer.

**Sequence of competition**

- 2 person team have to simulate a problem given by organizer in Aspen plus and dwsim
- Teams will have to simulate successfully the given problems in stipulated time
- Winners will be declared on the basis of accuracy of results and question answer by jury members.

**FACULTY HEAD**  
PROF. ANAND UPADHYAY

**STUDENT HEAD**  
ADITYA THAKOR : 9979112707  
PRIYANSU PATEL: 7574972616



**Date & Time:**  
20th Sept, 2024  
11 AM onwards

**Venue:**  
CAD (A) chemical  
engineering department  
scet college







**Event Name: Safety scan**

The event is a comprehensive safety challenge designed to assess participants' understanding and application of safety management practices. The 1<sup>st</sup> round was based on test participants on their theoretical understanding of event. In 2<sup>nd</sup> round, participants presented with a real-world case study or scenario involving safety challenges. They required to analyze the situation using safety analysis techniques such as HAZOP (Hazard and Operability Study) or fault tree analysis. Participants was provided sufficient time to prepare & after preparing their analysis, participants will have 5 minutes to present their findings and proposed solutions.

<b>Event Faculty Head</b>	Prof. Srujal Rana
<b>Jury member</b>	Chetan H. Patel, Asst General Manager, Reliance Ind Ltd, Hazira ,Mfg Division, Surat (SCET Alumni)
<b>Event Head</b>	Siddharth Khairnar (4 <sup>th</sup> Year) Kartavya Goti (4 <sup>th</sup> Year)
<b>Volunteers</b>	Patel Jainil (4 <sup>th</sup> Year) Dadhaniya Bhavin (4 <sup>th</sup> Year) Priyansh Prajapati (3 <sup>rd</sup> Year) Parth Patel (2 <sup>nd</sup> Year) Priyank Patel (1 <sup>st</sup> Year)
<b>Total team participation</b>	120
<b>Winner Details</b>	
3 <sup>rd</sup>	Aditya Thakor (SCET)
2 <sup>nd</sup>	Jhanvi Sharma (SCET)
1 <sup>st</sup>	Rishi Mistry (SCET)


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 Shree Dhansukhlal Thakordas (Coloures group)  
 Department of Chemical Engineering



# SAFETY SCAN

**ENTRY FEES: NIL**

**Rules:**

- Participation type - Solo
- Round 1 : Safety Quiz
- Multiple Choice Questions Will Be Asked in Round 1
- Time Limit For Round 1 Will Be 30 Minutes.
- Material Will Be Provided To All Participants One Week before The Event.
- The Quiz Questions Will Be Based Strictly From This Material.
- **Round 2 : Safety Analysis**
- Participants will be given a case study or scenario related to safety issues.
- 30 minutes will be provided to participants to prepare their solutions (e.g., HAZOP study, fault tree analysis, etc.) and 5 minutes to present their ideas.

**FACULTY HEAD**  
**PROF. SRUJAL RANA**

**STUDENT HEAD**  
**KHAIRNAR SIDDHARTH : 7575825973**  
**KARTVYA GOTI: 8160226994**



Date & Time:  
 20th Sept. 2024  
 11 AM onwards  
 Venue:  
 SCET College







**Event Name: CHEMSPEC**

The objective of the event was to find different parameters/properties not by search engines but by use of core reference books. 1<sup>st</sup> & 2<sup>nd</sup> rounds were to find the given parameters at given operating conditions and to solve a given problem by using a reference book **PERRY'S CHEMICAL ENGINEERS' HANDBOOK** by ROBBERT H. PERRY & DON W. GREEN. In the 3<sup>rd</sup> round the shortlisted student had to find the given data by use of **Encyclopedia of Chemical Engineering**. The 3<sup>rd</sup> round was conducted at reference section of our library.

<b>Event Faculty Head</b>	Dr. Vaishali Umrigar
<b>Event Head</b>	Sankalp Kumar Desai (3 <sup>rd</sup> Year)
	Parth Chauhan (3 <sup>rd</sup> Year)
<b>Volunteers</b>	Aaryan Patel (3 <sup>rd</sup> Year)
	Raj Patel (2 <sup>nd</sup> Year)
	Viral Patel (2 <sup>nd</sup> Year)
	Falak Umrigar (1 <sup>st</sup> Year)
<b>Total team participation</b>	130
<b>Winner Details</b>	
3 <sup>rd</sup>	Abhay Patil (SCET)
2 <sup>nd</sup>	Vishwa Tailor (SCET)
1 <sup>st</sup>	Disha Ratanpara (SCET)



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Department of Chemical Engineering





# CHEM SPEC

**ENTRY FEES: NIL**



In Association With  
NCHS Student  
Chapter



CRECHCLAVE

**Rules:**

- An immersive event to learn data hunting methodically.
- Demo round will be provided to make learning easy.
- Maximum of 3 rounds will take place.
- Use of any devices and web is prohibited.
- Books required for event will be provided at venue.

**FACULTY HEAD**  
DR. VAISHALI UMRIGAR

**STUDENT HEAD**  
SANKALP DESAI : 9924620152  
PARTH CHAUHAN : 9316700312



**Date & Time:**  
20th Sept, 2024  
11 AM onwards

**Venue:**  
SCET College







**Event Name: MYSTERY TRACK**

There are Two number of Rounds & Duo participation in this event. 1st round participant had to give the answer of question by selecting a chit from a bowl of multiple number of chits. The first ten teams who reached at the end earlier than others were selected for next round. 2<sup>nd</sup> round was to find the clue by using a puzzle, do the task given just as a TRAZZER HUNT, but the clues were of related to Chemical Engineering.

<b>Event Faculty Head</b>	Prof. Ashish Parmar
<b>Event Head</b>	Meet Shah (4 <sup>th</sup> Year)
	Nainesh Parmar (3 <sup>rd</sup> Year)
<b>Volunteers</b>	Krishal Chauhan (3 <sup>rd</sup> Year)
	Deepak Parmar (3 <sup>rd</sup> Year)
	Badgujar Vivek (2 <sup>nd</sup> Year)
	Shreya Goti (1 <sup>st</sup> Year)
	Hani Savaj (1 <sup>st</sup> Year)
<b>Total team participation</b>	116
<b>Winner Details</b>	
3 <sup>rd</sup>	Shreya Goti & Falak Umrigar (SCET)
2 <sup>nd</sup>	Vidhi Parmar & Archana Vyas (SCET)
1 <sup>st</sup>	Shreyas Ramani & Dev Parmar (SCET)


**SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY**  
 Shree Dhansukhlal Thakordas (Gourmetex group)  
 Department of Chemical Engineering
 



# MYSTERY TRACK

**ENTRY FEES: ₹40**



In Association With  
IICHE Student  
Chapter



**Rules:**

**ROUND-1**

- Participation type - duo
- Time only 45 sec for question.
- Based on the credit, move forward on the track.

**ROUND-2**

- At every clue one team will be eliminated.
- The top 3 teams who reached final destination they will be winner of the event

**FACULTY HEAD**  
PROF. ASHISH PARMAR

**STUDENT HEAD**  
MEET SHAH :8511050916  
NAINESH PARMAR: 9998989417

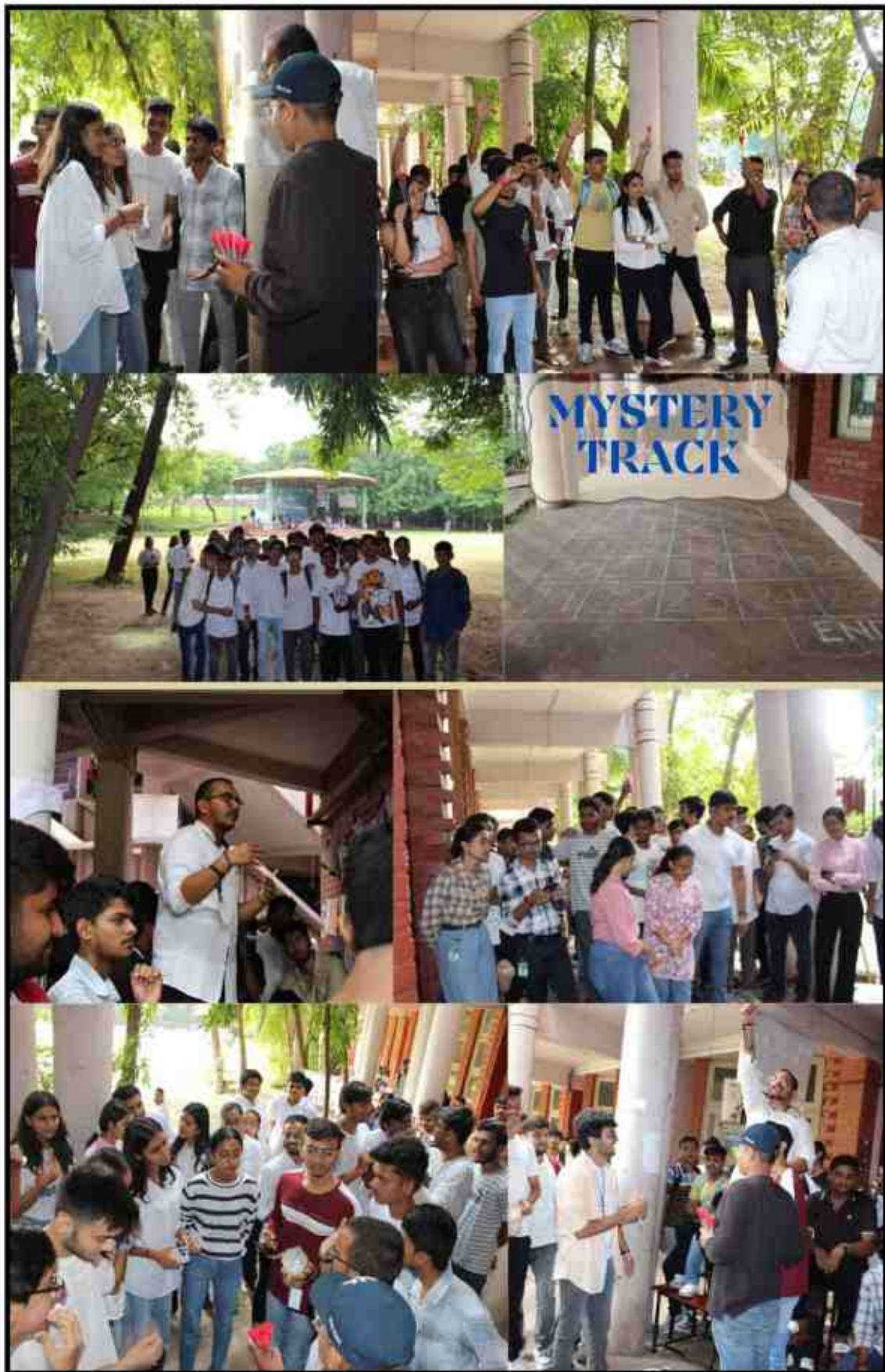


**Date & Time:**  
20th Sept, 2024  
11 AM onwards

**Venue:**  
SCET College







**Event Name: CHEMCAPTURE**

The Event was about to capture the precious & memorable moments in photographs & video shoots. The participants had to take a photograph or shoot a short video clip of the any Event occurring during Entire CHEMCLAVE 2024 and had to submit it to heads of event after entire 2 days event.

<b>Event Faculty Head</b>	Prof. Rashmita Patel
<b>Event Head</b>	Rushabh Gohil (3 <sup>rd</sup> Year)
	Deep Lad (3 <sup>rd</sup> Year)
<b>Volunteers</b>	Pratham Patel (3 <sup>rd</sup> Year)
	Henil Patel (3 <sup>rd</sup> Year)
	Abhishek Gotawala (2 <sup>nd</sup> Year)
	Rudra Parmar (2 <sup>nd</sup> Year)
<b>Total team participation</b>	116
<b>Winner Details</b>	
<b>Reel Making</b>	1. Harshit Vanani
	2. Falak Umrigar
	1. Tirth Dhaduk
	2. Kavy Patel
	3. Aditya Omkar


**SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY**  
 Shree Dhansukhlal Thakordas (Colortex group)  
 Department of Chemical Engineering



# CHEM CAPTURE

**ENTRY FEES: NIL**

**Rules:**

- Open for all branches.
- Participants are requested to submit only 3 pictures and 1 reel.
- Pictures/reel must be captured on chemclave.
- Bring your own digital device.
- No mixing, matching or morphing of photographs will be permitted.
- Allowance of softwares such as Photoshop or other for enhancement of reel.
- Evaluation criteria: (i) IMPACT/INFLUENCE, (ii) COMPOSITION, (iii) TECHNICAL QUALITY, and (iv) SUITABILITY for the specific theme.

additional instructions will be on the spot.

**FACULTY HEAD**  
PROF. RASHMITA PATEL

**STUDENT HEAD**  
RUSHABH GOHIL : 9484525758  
DEEP LAD : 6353657068



**Date & Time:**  
20th Sept, 2024  
11 AM onwards

**Venue:**  
SCET College







### VALEDICTORY CEREMONY

The Valedictory Ceremony of our Techfest was a fitting conclusion to the two-day extravaganza of technological innovation, learning, and collaboration. The event was filled with reflections on the success of the various competitions, workshops, and seminars held during the fest, with participants and faculty alike expressing their satisfaction and pride. Certificates, trophies, and prizes were distributed to the winners and participants, acknowledging their hard work and talent.

#### **Glimpse of Prize Distribution to the Winners**





Student Coordinators were also awarded with a beautiful memento for their tireless efforts, dedication, contributions, leadership & team working skills, which made the truly **Wonderful, Exciting** and **Successful** TECHFEST "CHEMCLAVE 2024".



The ceremony ended with a sense of fulfillment and excitement for the future, as everyone looked forward to the next edition of the Techfest, carrying forward the spirit of innovation and excellence.







### ACKNOWLEDGMENT

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 to **Dr. Hiren Patel**, Principal, SCET, **Dr. Mayank Dalal**, Dean-SAWC, SCET and **Prof. Srujal Rana**, Head of Chemical Engineering Department, SCET for their guidance and motivation in organizing CHEMCLAVE-2024 under annual Techfest KSHITIJ-2024.

The team also thankful to the chief guests, jury members and alumni of our department for sparing their valuable time to make this event memorable.

We also express our sincere gratitude towards our worthy sponsors:

1. M/s. Colourtex Pvt Ltd for providing the safety kit for 2 days.
2. Surat Municipal Corporation for conduction a demonstration of fire extinguishers as well as to give training against the natural calamity.
3. Surat Pipals cooperative bank for the financial assistance.
4. Doctor Brothers for sponsoring the food for the student team.

#### **FACULTY COORDINATORS**

Prof. Rashmita Patel

Prof. Ashish Parmar

#### **STUDENT COORDINATORS**

Vishwa Tailor (4<sup>th</sup> Year)

Aryankumar Kayastha (4<sup>th</sup> Year)

Mitesh Sapariya (4<sup>th</sup> Year)

Keya Das (3<sup>rd</sup> Year)