











REPORT

on

INFOPIXEL CLASH

Organised By IEEE SCET SB, IEEE SPS SCET SB, IEEE CS SCET SB

EVENT DETAILS:

Event Type: Competition

Event Mode: Offline

Event Date: 29th March 2025 (Saturday)

Event Venue: EC-AV Hall, E&C Department, SCET

No. of Attendees: 108

Event Accessibility: For Registered Participants

Faculty Coordinator: Prof. (Dr.) Chirag PaunwaIa

Prof. (Dr.) Ketki Pathak

Prof. Neeta Chapatwala

Prof. Chintan Panchal

Student Coordinator: Hardik Suthar

Manasvi Meha

Dushyant Prajapati

Jiya Shah

EVENT POSTER













SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY

ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

INFOPIXEL CLASH

STATE LEVEL PROJECT COMPETITION





29th March 2025

Registration fees ₹50 per person



EC AV Room

Exciting Prizes



10:00 AM to 1:00 PM

Faculty Cordinator:-

Prof. Dr. Chirag Paunwala(HOD)

Prof. Dr. Ketki Pathak

Prof. Neeta Chapatwala

Prof. Chintan Panchal



Register Here

Team of minimun 2 and maximum 4

Student Cordinator:-Manasvi Mehta Hardik Suthar Dushyant Prajapati Jiya Shah

Introduction:

The "InfoPixel Clash" competition was successfully organized in offline mode on 29th March 2025 (Saturday) at the EC-AV Hall, Electronics & Communication Department, SCET. The event attracted 108 enthusiastic participants, providing them with an opportunity to showcase their skills in Image and Video Processing and Information Theory Coding. The competition was open to registered participants only, ensuring a focused and engaging experience. The event was graced by a distinguished jury panel, including:

- 1. **Dr. Vipul Mistry** A PhD in Image Processing from UKA Tarsadia University and an M.Tech in Communication Systems from NIT Surat, Dr. Mistry contributed his deep expertise to the evaluation process.
- 2. **Dr. Sunil Kumar** An esteemed academician with over 18 years of experience in teaching, research, and project management, currently serving as an Associate Professor at Auro University, Surat.

With a highly competitive environment and expert evaluation, **InfoPixel Clash** successfully fostered **technical excellence**, **problem-solving skills**, **and innovation** among participants.

Event Highlights:

InfoPixel Clash was an exciting and intellectually enriching competition that offered participants a platform to explore and demonstrate their skills in Image and Video Processing and Information Theory Coding. Students engaged in hands-on problem-solving through a diverse range of real-world projects, such as Car license plate Detection, Deep Steganography, Image Inpainting, Helmet Detection, and Pest Detection in Smart Agriculture. These projects reflected a strong blend of creativity, analytical thinking, and technical expertise.

The event was evaluated by a distinguished panel of experts, including **Dr. Vipul Mistry** and **Dr. Sunil Kumar**, who provided constructive feedback and fair assessments. Projects such as **Error-Resilient Image Transmission**, **Face Detection with Privacy Blurring**, and **Automated Solar Panel Detection using YOLOv8** stood out for their innovative approaches and practical relevance.

With an impressive turnout of 108 participants, the event fostered strong engagement, collaboration, and healthy competition. Projects like Driver Drowsiness Detection, Skin Disease Classification, Handwritten Digit Recognition, and Garbage Classification using Deep Learning highlighted the diverse applications of image processing and machine learning in solving real-life problems.

Top-performing teams were recognised for their exceptional efforts and impactful solutions. At the same time, all participants gained valuable exposure to cutting-edge tools and concepts in areas like **signal compression**, **error correction**, and **AI-driven image analysis**.

InfoPixel Clash successfully created an atmosphere of innovation, learning, and technical excellence, leaving a lasting impression on everyone involved.

Participants and Projects

Sr.No.	College Name	Team Name	Title of Project	
1	SCET	The Codeless Men	Car Licence Plate Detection	
2	SCET	Culers	Deep Steganography: Secure Information Hiding in Digital Media	
3	SCET	Team Charlie	Robust Image Steganography with DWT and LDPC: Secure Data Hiding Under Noise Using Shannon-Fano Encoding"	
4	SCET	Team innovators	hybrid image compression using huffman coding and hamming coding	
5	SCET	Team ParityPioneers	LDPC Code for error correction in image transmission	
6	SCET	PixelNcode	Moving object detection	
7	SCET	MediVision	Lossless image compression using different encoding algorithm for various medical images	
8	SCET	Huffman Hiders	Image Steganography Using LSB Substitution and Huffman based Compression	
9	SCET	Error free vision	Basic Image segmentation for Object Detection with error correction in a Autonomous System	
10	SCET	V^2SR	Image Inpainting	
11	SCET	Fusion force	Error-Resilient Image Transmission for Medical or Satellite Imaging	
12	SCET	Team YUVAL	Simulating Image Transmission Over a Noisy Channel with Python	
13	SCET	Pixel Protectors	Tamper Detection and Error Resilience in Fingerprint Images Using SSIM, ORB Feature Matching, and Hamming Code	
14	SCET	The Pixels Wizards	Robust Multimedia Communication System with Source and Channel Coding for Error-Resilient Transmission	
15	SCET	QR Ninjas	Barcode and QR Code Image Processing with Error Resilience	
16	SCET	The Filter squad	Image stitching for AR and VR with source coding compression	
17	SCRT	KAVI	FUNDAMENTALS OF DIGITAL IMAGE PROCESSING	
18	SCET	Patil Tanvi .D.	image segmentation	
19	GEC	SignAura	SignAura: smarter sign recognition with CNN	

	Bharuch			
20	GEC Bharuch	Resolution Rebels	Single Image Super Resolution using CNNs	
21	GEC Bharuch	Gec Bharuch	WEED DETECTION SYSTEM	
22	GEC Bharuch	INTELLECTUAL PARADOX	Leveraging YOLO11 for High-Precision Gender Classification	
23	GEC Bharuch	DDD Team	Driwer Drowsiness Detection	
24	GEC Bharuch	MotionMinds AI	Vehicle Type Classification	
25	GEC Bharuch	Privacy Protectors	Face detection and privacy blurring using YOLOv5	
26	GEC Bharuch	AGROVISION AI	A Step Towards Smart Agriculture : Deep Learning-Driven Pest Detection in Indian Cotton Farming	
27	GEC Bharuch	The Visualizers	Fake Currency Detection Using Matlab	
28	GEC Bharuch	Reverse	Automated Solar Panel Detection Using YOLOv8: A Deep Learning Approach for Efficient Renewable Energy Mapping.	
29	GEC Bharuch	TEAM	Helmet Detection for two wheel riders on road	
30	GEC Bharuch	The Pixelatrix	Handwritten Digit Recognition	
31	GEC Bharuch	Trash-AI	Deep Learning-Based Automated Waste Classification System Using Image Detection for Sustainable Waste Management	
32	GEC Bharuch	Pixel Pioneers	Garbage Classification	
33	GEC Bharuch	Tech Titans	Skin Disease Detection	

Winners:

POSITION	TEAM NAME	COLLEGE	NAME OF MEMBERS	PROJECT TITLE
		SCET	Vishwa Shekhadia	Image inpainting is used to restore old photos
	V^2SR		Ruchi Singhi	
	V*25K		Vani Shekhadia	
1st			Sulaxana Pandey	
181		SCET	Jiya Shah	Image stitching for AR and VR with source coding compression
	The Filter gaved		Aashvi Narang	
	The Filter squad		Kunjan R Gajre	
			Rajnidhi Gupta	
		GEC Bharuch	Shaikh Md Zaid Zubed Akhtar	SignAura: Smarter sign recognition with CNN
	SignAura		Patel Jainil Sunilbhai	
			Moghe Krishna Prashant	
2nd			Patel Palak Maheshbhai	
	Reverse	GEC Bharuch	Mehvish Shaikh	Automated Solar Panel Detection Using YOLOv8: A Deep Learning Approach for Efficient Renewable Energy Mapping.
			Vohra keyan	
			Garasiya Hasanali Jamir	
			Patil Nakul	
	TI C 11	SCET	Ronit Tarunbhai Rathod	Car Licence Plate Detection
	The Codeless Men		Manan Ashokbhai Tarsariya	
2d	3,3,3		Dilkhush Yash	
3rd		SCET	Diya Patel	Lossless image compression using different encoding algorithms for various medical images
	MediVision		Afreen Amroliwala	
			Devanshi Jethwa	
	Patil Tanvi .D.	SCET	Patil Tanvi .D.	Image Segmentation
Camaclatta		GEC Bharuch	Hindiya Parth B	Garbage Classification
Consolation	Pixel Pioneers		Krupa Chokhaliya	
			Shah Jaineet Prafulbhai	

Event Glimpses:





































Participant Engagement:

The "InfoPixel Clash" competition kept participants actively engaged through challenging problem-solving rounds, real-time jury interactions, and strategic teamwork. With 108 enthusiastic competitors, the event fostered a high-energy and intellectually stimulating atmosphere. Judges provided feedback, assessed solutions on accuracy and innovation, and encouraged peer learning and technical excellence, making it a truly competitive and rewarding experience.





સ્કેટ કોલેજમાં રાજ્યકક્ષાન

સાર્વજનિક કોલેજ ઓફ જયુરીમાં શાખાએ IEEE Signal IEEE Gujarat Section-11 હતા. સહયોગથી INFOPIXEL લીધો, જેમાં રાજ્યભરની વિવિધ ડેટા ટ્રાન્સમિશન માટે મહત્વપૂર્ણ છે, ભૂમિકા ભજવી.

યબકાર પ્રતિનિધિ, સરત, તા. ૦૩ સંસ્થાઓના વિદ્યાર્થીઓ સામેલ હતા. જેવા વિષયોને આવરી લેવાયા. એન્જિનિયરીંગ એન્ડ ટેક્નોલોજીની ઉદ્યોગજગતના નિષ્ણાતોની સેવા પ્રત્યાસો, હેન્ડ્રસ-ઓન પ્રદર્શન અને ઇલેક્ટ્રોનીક્સ એન્ડ કોમ્યુનિકેશન લેવામાં આવી, જેઓ સ્પર્ધાની જુદાજુદાપડકારોસામેલ હતા,જેના તકનીકી અને વ્યાવસાયિક કારણે સ્પર્ધકોની વિશ્લેષણાત્મક અને Processing Society અને વ્યાખ્યાનોનું સમતુલ્ય મૂલ્યાંકન કરતા. તકનીકી કુશળતા વિકસવા પામી.

શૈક્ષણિક અને સ્પર્ધામાં નવીન સમસ્યા ઉકેલવાની

આ સ્પર્ધાએ માત્ર તકનીકી INFOPIXEL એ નવા ઉત્કૃષ્ટતાને જ પ્રોત્સાહન આપ્યું 2025નું સફળ આયોજન કર્યું હતું. એન્જિનિયરો, સંશોધકો અને નહિ, પણ વિવિધ સંસ્થાઓના આ એક રાજ્ય કક્ષાની સ્પર્ધા હતી, ટેકનોલોજી ઉદ્યમીઓ માટે તેમની વિદ્યાર્થીઓ માટે જ્ઞાન અને જેમાં વિવિધ સંસ્થાઓના વિદ્યાર્થીઓ - ક્રશળતા ૨જ કરવાની ઉત્તમ તક પુરું - સહયોગની- નવી- તકો-ઊભી- કરી. અને સંશોધકોને ઈમેજ પ્રોસેસિંગ, પાડી. ખાસ કરીને ઈમેજ પ્રોસેસિંગ, INFOPIXEL 2025 એ ઇન્ફર્મેશન ટેકનોલોજી અને જે AI, મેડિકલ ઇમેજિંગ અને સિગ્નલ પ્રોસેસિંગ ટેકનોલોજીઓ કોડીગના આધૃનિક ક્ષેત્રોને અન્વેષણ - ડિજિટલ ફોરેન્સિક્સમાં પ્રગતિ લાવી - પ્રત્યે વધતા રસ અને કોમ્યુનિકેશન કરવાની તક મળી. આ ઇવેન્ટમાં શકે, તેમજ ઇન્ફર્મેશન થીયરી અને & ડિજિટલ ઇન્ટેલીજન્સ ક્ષેત્રમાં ૧૦૦થી વધુ ઉત્સાહી સ્પર્ધકોએ લાભ કોડીંગ, જે સુરક્ષિત અને અસરકારક ભવિષ્ય ઘડવા માટે મહત્વપૂર્ણ

Dhabkar - 04-04-2025

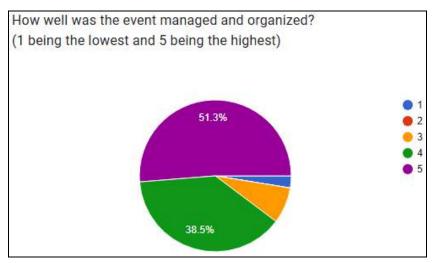
સાર્વજિનક એન્જિનિયરિંગ કોલેજમાં સ્પર્ધાનું આયોજન

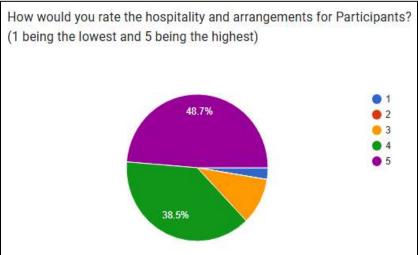


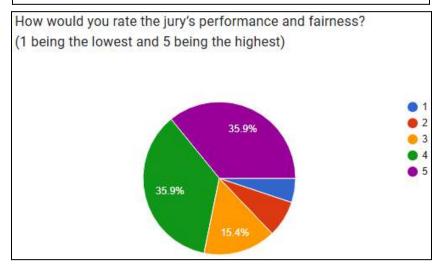
સાર્વજનિક કોલેજ ઓક એન્જિનિયરીંગ એન્ડ ટેકનોલોજાની ઇલેક્ટ્રોનીક્સ એન્ડ કોમ્યુનિકેશન શાખાએ જેઇઇઇ સિંગલ પ્રેસેસિંગ સોસાયટી

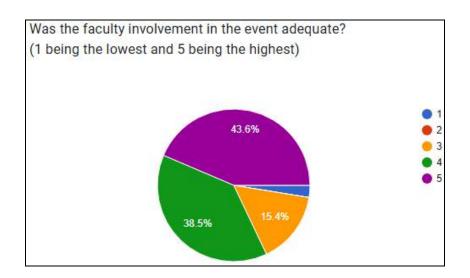
અને જેઇઇઇ ગુજરાત સેક્શનના સહયોગથી INFOPIXEL ૨૦૨૫નું સફળ આયોજન કર્યુ હતું. સ્પર્ધામાં વિવિધ સંસ્થાઓના વિદ્યાર્થીઓ અને સંશોધકોને ઈમેજ પ્રોસેસિંગ, ઇન્ફર્મેશન ટેકનોલોજા અને કોડીંગના આધુનિક ક્ષેત્રોને અન્વેષણ કરવાની તક મળી હતી. જેમાં ૧૦૦થી વધ્ ઉત્સાહી સ્પર્ધકોએ લાભ લીધો. જેમાં રાજ્યભરની વિવિધ સંસ્થાઓના વિદ્યાર્થીઓ સામેલ હતા. જ્યુરીમાં સ્પર્ધાની તકનીકી અને વ્યાવસાયિક વ્યાખ્યાનોનું સમતુલ્ય મુલ્યાંકન કરવા શૈક્ષણિક અને ઉદ્યોગજગતના નિષ્ણાતોની સેવા લેવામાં આવી હતી. INFOPIXEL નવા એન્જિનિયરો, સંશોધકો અને ટેકનોલોજી ઉદ્યમીઓ માટે તેમની કુશળતા રજૂ કરવાની ઉત્તમ તક પૂરું પાડી શકે તેવા વિષયોને આવરી લેવાયા હતા. Sandesh : 04-04-2024

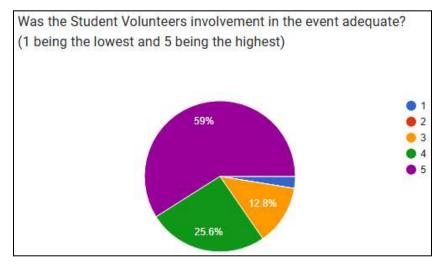
Feedback:

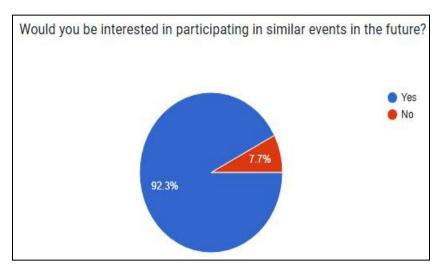












Conclusion:

The "InfoPixel Clash" competition, organized under the banner of IEEE SCET SB, IEEE SPS SCET SB, and IEEE CS SCET SB, successfully provided participants with a platform to apply their technical knowledge, enhance problem-solving skills, and tackle real-world challenges in Image and Video Processing and Information Theory Coding. With 108 enthusiastic participants, expert evaluation by Dr. Vipul Mistry and Dr. Sunil Kumar, and a highly competitive atmosphere, the event fostered innovation, teamwork, and learning. The competition concluded on a high note, reinforcing the IEEE SCET SB's commitment to fostering technical excellence and knowledge sharing among students.

Report Compiled by:

Hardik Suthar, Event Coordinator

Manasvi Mehta, Event Coordinator