



SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY

Sarvajnik University

OPEN ENDED PROBLEM(2025-2026)

POSTER PRESENTATION

Held On

4th April, 2026 (Saturday)

Time

9:00 AM to 12:30 PM

Venue

SU Seminar Hall

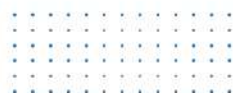
Organized by

R&D Cell, SCET

Dean R&D

Dr. Nirali Nanavati (OEP coordinator)

Dr. Tejal Joshi (OEP coordinator)



Objectives of the Open Ended Problem (OEP) Initiative and the poster presentation:

- The OEP initiative significantly expands students' research interests and fosters a strong culture of collaboration, innovation, curiosity, and research-driven activities.
- The specific objective of the Poster Presentation event was to provide a formal professional platform where students could showcase their finalized or in progress research outcomes and innovative prototypes.
- This event facilitated a rigorous evaluation process where expert jury members assess the technical presentations and the original research ideas of the students and mentors, providing critical feedback on their methodologies and creativity.
- Overall, the event aimed to cultivate a vibrant ecosystem of research, innovation, and professional academic exchange at SCET.

Summary of the Event:

The concept of the Open Ended Program (OEP) was introduced by the Dean, R&D in 2023. Since its inception, the initiative has received an increasingly enthusiastic response every year. This year, **43 student teams** collaboratively worked on innovative ideas and impactful projects with their faculty mentors. The remarkable growth in participation clearly reflects the rising inclination of students toward research-oriented activities and interdisciplinary exploration.

This year's OEP Poster Presentation, held in an unprecedentedly extensive and professional format at **TIFAC Hall**, was organized across **five specialized panels** to facilitate high-level academic engagement. This centralized setup created a high-energy, research-centric atmosphere that transformed the venue into a hub of innovation, allowing for a seamless exchange of ideas between students and industry experts. The event was specifically designed to showcase finalized research outcomes, celebrate student achievements, and provide a prestigious platform for the technical defence of their work.

During the event, out of **43 teams 31 participating teams** presented their finalized research through professional poster sessions, demonstrating not just their theoretical concepts, but their fully realized prototypes and research publications. All teams participated with immense enthusiasm, defending their methodologies and findings before a distinguished panel of **five expert jury members**. These experts conducted a rigorous evaluation of the students' original research ideas

and technical presentations, offering high-value feedback that bridged the gap between academic theory and real-world application.

A notable highlight this year was the dedicated **hardware panel** (Panel V H/W), which featured **five specialized** teams presenting physical prototypes such as the "Smart Water Management System", "Real-Time Biometric Access Control System", "Smart Animal Detection and Deterrent System", "ESP32 Based Multimeter Prototype" and "Personal Cloud". This culmination of the OEP journey successfully elevated the standard of research excellence at SCET, marked by the recognition of top-performing teams and the distribution of certificates to those who achieved full project completion and research publication.

The OEP Poster Presentation event was honored to host a distinguished panel of expert jury members who brought extensive academic and technical expertise to the evaluation process. Their role was pivotal in assessing the innovation, technical rigor, and real-world applicability of the 31 participating research projects, ensuring that the highest standards of research excellence were met.

Jury Details:

The esteemed jury members included:

- **Er. Manan Chevali-**

He is the **Manager – Embedded Systems at REM Electromach Pvt. Ltd.**, with expertise in business development, hardware, and firmware design. Along with which he also brings strong industry experience in embedded systems and practical engineering applications to the table .

- **Mr. Kevin Dankhara-**

Mr. Kevin is the **Founder of D&D Research Lab LLP** and Co-founder & COO at Neurabit Solution LLP, working in the domains of AI, robotics, and aerospace innovation. He is also an **IISc Bengaluru postgraduate**, he has presented research at international platforms like IEEE and IAC.

- **Mr. Anshu Pandey -**

He is the **Executive Director of Blue Data Consulting**, bringing extensive expertise in AI, machine learning, and enterprise data solutions across diverse industries. Under his leadership, he has spearheaded the development of impactful data-driven systems and continues to make meaningful contributions to real-world innovation.

- **Dr. Charmy Patel, SRKI**

She has expertise in cloud computing as well as Big data analytics alongside which she has actively published numerous research publications .

- **Dr. Yesha Mehta, SRKI**

She has expertise in Machine Learning, NLP , and Social Media Analytics. She is also actively engaged in research and has contributed to academic discussions on emerging technologies including blockchain.

Acknowledgement:

We extend our heartfelt gratitude to our honorable Provost, **Dr. Kiran Pandya** and Registrar Sir, **Shri. Ashish Desai** for gracing the event. We would also heartily thank Principal, **Dr. Hiren Patel**, for permitting and supporting the organisation of this event. We would also like to thank Dean R&D, **Dr. Utpal Pandya** for this initiative. His constant encouragement inspires us to plan meaningful initiatives for students and faculty alike. Our sincere appreciation goes to all faculty mentors who volunteered their time and expertise to guide the students.

We also thank the student volunteers (Bhargavi Patel, Nyasa Sapariya, Twisha Sorathiya, Jenny Patel, Nidhi Malankya, Varada Surve, Vraj Parekh, and Vansh Manjawala) for their dedicated efforts in coordinating the Poster Presentation event at TIFAC Hall. Gratitude is also extended to the R&D Cell members for brainstorming and shaping the OEP initiative into a professional platform. Last but not least, we wholeheartedly thank all expert jury members, faculty mentors, and student participants for their active and enthusiastic presence, which made this event a resounding success.

We expect and encourage continued student participation from students and faculties in the years to come as well to encourage and keep the research culture active at SCET.

Pictures of the event:



Felicitations of the Jury



OEP Completion Certificate distribution to student groups



Interaction and poster presentation



Posters across 5 panels

Panel 1



Panel 2



Panel 5



Panel 3,4





Felicitation of the winning teams

OEP Winners List:

OEP Poster Presentation - 2025-26 - OEP Winner's List				
PANEL -I				
Rank	Name of Principal Investigator	OEP Id	Title of the OEP	Student
1	Prof. Rachana Oza	OEP-2-RO-25-26	Automated anatomy/organ segmentation from the surgical videos/images	Jeel Donga
				Dhyey Desai
2	Dr. Nirali Nanavati	OEP-3-NN-25-26 - Group 2	Business Intelligence and Strategic Equilibrium in trending OTT Or Food-Delivery Platforms.	Sarah Shaikh
				Krishna Patel
				Nyasa Sapariya
PANEL -II				
Rank	Name of Principal Investigator	OEP Id	Title of the OEP	Student
1	Dr. Dipali Kasat	OEP-1-DK-25-26	Whisper-Based Voice Liveness Detection	Satyam Tiwari
				Anika Mehta
				Srushti Patel
2	Dr. Mitali Desai	OEP-3-MD-25-26	LLM-Augmented Reflective Journaling from Passive Data Cues	Krishna Rana (Team Leader)
				Siddhi Salunke
				Manya Shah
PANEL -III				
Rank	Name of Principal Investigator	OEP Id	Title of the OEP	Student
1	Dr. Mayuri Mehta	OEP-1-MM-25-26 - Group 2	Mitosis Detection and Classification from Microscopy Images (Group 2)	Dhvani Maktuporia
				Kuldeep Kevat
PANEL -IV				
Rank	Name of Principal Investigator	OEP Id	Title of the OEP	Student
1	Dr. Mayuri Mehta	OEP-3-MM-25-26	Multimodal Information Fusion for Enhanced Diabetic Retinopathy Diagnosis using Explainable AI (Group 1)	Khamir Desai
				Sree Saicharan Vadapalli
PANEL -V H/W				
Rank	Name of Principal Investigator	OEP Id	Title of the OEP	Student
1	Prof. Nchal Shah	OEP-3-NNS-25-26	Smart Water Management System using IoT & Data Analytics	Rushabh Solanki
				Yash Thummar
				Parthiv Patel

Attendance Sheet (Students Panel wise):

OEP Poster Presentation - 2025-26 - OEP list with Id(PANEL I)

Sr. No.	Name of Principal Investigator	OEP Id	Title of the OEP	Student	Sign
✓ 2	Dr. Krishna Delvadia	OEP-1-KD-25-26 - Group 2	Machine learning-driven clinical decision support system (Group-2)-Fetus health monitoring system	Krishna Panwala	[Signature] ✓
				Chapada Vansh	
				Shah Parva	
				Heer Mehta	
5	Prof. Dhatri Pandya	OEP-2-DP-25-26 - Group 1	Modeling Plant VOC Emissions for Space Habitats using AI/ML Approaches (Group 1)	Hmanshi Borad	[Signature]
6	Prof. Dhatri Pandya	OEP-2-DP-25-26 - Group 2	Modeling Plant VOC Emissions for Space Habitats using AI/ML Approaches (Group 2)	Devanshi Trivedi	[Signature]
				Vishva Gohil	[Signature]
				Yashvi Dikhora	[Signature]
19	Dr. Nirali Nanavati	OEP-2-NN-25-26 - Group 2	AI-Based Ingredient Recognition in Indian and Global Dishes	Drashti Kalathya	[Signature]
				Suhani Gohil	[Signature]
				Charvi Desai (Team Lead)	[Signature]
21	Dr. Nirali Nanavati	OEP-3-NN-25-26 - Group 2	Business Intelligence and Strategic Equilibrium in trending OTT Or Food-Delivery Platforms.	Yesha Patel	[Signature]
				Bhavya Tagadia	[Signature]
				Sarah Shaikh	[Signature]
				Krishna Patel	[Signature]
23	Dr. Pariza Kamboj, Prof. Dhatri Pandya, Prof. Vandana Joshi	OEP-2-PK-DP-VJ-25-26	Cross-Breed Generalization in Video-Based Canine Emotion Recognition Systems	Nyasa Sapariya	[Signature]
				Thumber Palak	[Signature]
				Patel Sujal	[Signature]
				Siddhi Patel	[Signature]
24	Prof. Rachana Oza	OEP-2-RO-25-26	Automated anatomy organ segmentation from the surgical videos images	Jannu Jarwala	[Signature]
				Kavya Patel	[Signature]
				Jeel Donga	[Signature]
				Dhivy Desai	[Signature]
25	Prof. Vandana Joshi, Prof. Dhatri Pandya, Dr. Pariza Kamboj	OEP-1-VJ-DP-PK-25-26	Dust, Data, and Decisions: A Spatiotemporal Analysis of India's Air Quality	Vishal Shingala	[Signature]
				Shekh Mohammad Abrar	[Signature]
				Darshil Moradiya	[Signature]
				Vatsal Modi	[Signature]
				Chahat Vora	[Signature]
40	Prof. Jaydeep Gheewala	OEP-1-JG-25-26	Development of an AI based research agent	Het Tejani	[Signature]
				Jarwala Zeel	[Signature]
				Rajput Prathmesh	[Signature]
				Ronak Talaviya	[Signature]
41	Prof. Ketki C. Pathak	OEP-2-KCP-25-26	Auto Xpert:Crops, Pure Food, Trusted AI	Khushi Patel	[Signature]
				Aryan Sariya (Team Leader)	[Signature]
				Het Vegad	[Signature]
				Abhi Suthar	[Signature]
				Jannu Jarwala	[Signature]
				Dev Patel	[Signature]

OEP Poster Presentation - 2025-26 - OEP list with Id(PANEL II)

Sr. No.	Name of Principal Investigator	OEP Id	Title of the OEP	Student	Sign
7	Dr Dipali Kasat	OEP-1-DK-25-26	Whisper-Based Voice Liveness Detection	Satyam Tiwari	<i>[Signature]</i>
				Anika Mehta	<i>[Signature]</i>
				Srushti Patel	<i>[Signature]</i>
8	Dr Dipali Kasat	OEP-2-DK-25-26	A Personalized Dysarthric-to-Fluent Voice Transformer with Emotion	Krish Tejani	<i>[Signature]</i>
				Satyam Tiwari	<i>[Signature]</i>
				Akshar Prajapati	<i>[Signature]</i>
10	Dr Keyur Rana, Prof. Dhatri Pandya	OEP-2-KR-DP-25-26	MediGPT: An AI-Powered Medical Question Answering System Using Indian Medical Guidelines and Literature	Umang Kaklotar	<i>[Signature]</i>
				Zeel Jarwala	<i>[Signature]</i>
				Prathmesh Rajput (Team Leader)	<i>[Signature]</i>
11	Dr. Keyur Rana	OEP-1-KR-25-26	A Language Model Trained on Engineering Educational Content	Ramjeet	<i>[Signature]</i>
				Shaikh Yami Vaid	<i>[Signature]</i>
				Pawankumar	<i>[Signature]</i>
18	Dr. Nirali Nanavati	OEP-2-NN-25-26 - Group 1	AI-Based Ingredient Recognition in Indian and Global Dishes	Yash Dikshush (Team Lead)	<i>[Signature]</i>
				Yansh Sadavwala	<i>[Signature]</i>
				Vadid Shaikh (Team Lead)	<i>[Signature]</i>
20	Dr. Nirali Nanavati	OEP-3-NN-25-26 - Group 1	Business Intelligence and Strategic Equilibrium in trending OTT Or Food-Delivery Platforms	Yashesh Patel	<i>[Signature]</i>
				PawanKumar	<i>[Signature]</i>
				Parthiv Vashnav	<i>[Signature]</i>
27	Dr. Ketki C Pathak	OEP-1-KCP-25-26	Smart Pharmacy Inventory Management System	Abhishek Boricha	<i>[Signature]</i>
				Vibhuti Pansari	<i>[Signature]</i>
				Tej Patel	<i>[Signature]</i>
33	Dr. Mitali Desai	OEP-1-MD-25-26	Automatic Sarcasm Detection in Code-mixed Data with Emoticons	Mahek Ranka	<i>[Signature]</i>
				Krishna Patel (Team Leader)	<i>[Signature]</i>
				Sarah Shaikh	<i>[Signature]</i>
32	Dr. Dhruvi P Sharma, Prof. Mukesh Patel	OEP-3-DS-MMP-25-26	Intelligent Course Recommendation	Vegad Het	<i>[Signature]</i>
				Patel Dev	<i>[Signature]</i>
				Amrit Singh	<i>[Signature]</i>
35	Dr. Mitali Desai	OEP-3-MD-25-26	LLM-Augmented Reflective Journaling from Passive Data Cues	Aryan Saraya	<i>[Signature]</i>
				Vir Gupta	<i>[Signature]</i>
				Krishna Rana (Team Leader)	<i>[Signature]</i>
35	Dr. Mitali Desai	OEP-3-MD-25-26	LLM-Augmented Reflective Journaling from Passive Data Cues	Siddhi Salunke	<i>[Signature]</i>
				Manya Shah	<i>[Signature]</i>

OEP Poster Presentation - 2025-26 - OEP list with Id(PANEL III)

Sr. No.	Name of Principal Investigator	OEP Id	Title of the OEP	Student	Sign
1	Dr. Krishna Delvadia	OEP-1-KD-25-26 - Group 1	Machine learning-driven clinical decision support system (Group-1)-Breast Cancer diagnosis system	Bhavya Bavisi	<i>[Signature]</i>
				Prapti Mehta	<i>[Signature]</i>
				Kunj Desai	<i>[Signature]</i>
3	Dr. Krishna Delvadia	OEP-1-KD-25-26 - Group 3	Machine learning-driven clinical decision support system (Group-3)-cardiac arrest prediction system	Manan Shah (Team Leader)	<i>[Signature]</i>
				Sohan Patel	<i>[Signature]</i>
				Manav Avatiya	<i>[Signature]</i>
4	Prof. Dhatri Pandya, Dr. Pariza Kamboj, Prof. Vandana Joshi	OEP-1-DP-PK-VJ-25-26	AI for Early Oral Cancer Detection	Krishna Dhola (Team Leader)	<i>[Signature]</i>
				Rudri Desai	<i>[Signature]</i>
				Khevana Vasani	<i>[Signature]</i>
12	Dr. Mayuri Mehta	OEP-1-MM-25-26 - Group 1	Mitosis Detection and Classification from Microscopy Images (Group 1)	Saloni Rana	<i>[Signature]</i>
				Vasu Jivani	<i>[Signature]</i>
				Harsh Radadiya	<i>[Signature]</i>
13	Dr. Mayuri Mehta	OEP-1-MM-25-26 - Group 2	Mitosis Detection and Classification from Microscopy Images (Group 2)	Dhvani Maktuporia	<i>[Signature]</i>
				Kuldeep Kevat	<i>[Signature]</i>
				Mit Makavana	<i>[Signature]</i>
16	Dr. Mayuri Mehta	OEP-4-MM-25-26 - Group 2	Self-supervised learning for 3D light-sheet microscopy image segmentation (Group 2)	Manav Patel	<i>[Signature]</i>
				Vatsal Parmar	<i>[Signature]</i>
				Amrit Singh (Team Lead)	<i>[Signature]</i>
17	Dr. Nirali Nanavati, Dr. Mitali Desai	OEP-1-NN-MD-25-26	Hallucination and bias in conversational AI systems.	Aayushi Tamakwala	<i>[Signature]</i>
				Hervi Master	<i>[Signature]</i>
				Ritu Vamja	<i>[Signature]</i>
22	Dr. Pariza Kamboj, Prof. Dhatri Pandya, Prof. Vandana Joshi	OEP-1-PK-DP-VJ-25-26	Data-Driven Classification and Analysis of River Water Quality in India	Masoom Viral Parekh	<i>[Signature]</i>
				Umang Kaklotar	<i>[Signature]</i>
				Pratik Kanadiya	<i>[Signature]</i>
26	Prof. Vandana Joshi, Prof. Dhatri Pandya	OEP-2-VJ-DP-25-26	Mindful Metrics: An AI-Powered Platform for Proactive Mental Wellness	Aenish Gohil	<i>[Signature]</i>
				Ronit Rathod	<i>[Signature]</i>
				Manan Tanwariya	<i>[Signature]</i>

OEP Poster Presentation - 2025-26 - OEP list with Id(PANEL IV)

Sr. No.	Name of Principal Investigator	OEP Id	Title of the OEP	Student	Sign
19	Dr. Mayuri Mehta	OEP-3-MM-25-26	Multimodal Information Fusion for Enhanced Diabetic Retinopathy Diagnosis using Explainable AI (Group 1)	Khamir Desai	
				Sree Saicharan Vadapalli	
20	Dr. Mayuri Mehta Dr. Dhruvi P Sharma, Prof. Mukesh Patel	OEP-4-MM-25-26 - Group 1	Self-supervised learning for 3D light-sheet microscopy image segmentation (Group 1)	Karankumar Mehta	
				Kashyapbhai Vaghasiya	
31	Dr. Dhruvi P Sharma, Prof. Mukesh Patel	OEP-2-DS-MMP-25-26 - Group 2	Auto Attendance Generator (Group 1)	Karan Mehta	
				Yashvi Dihora	
				Dhruvil Gopani	
				Jeet Patel	
34	Dr. Mitali Desai	OEP-2-MD-25-26	Data-Driven Knowledge Repository for Capturing and Organizing Learning Journeys	Shivam Dubey	
				Abhiraj Gahlot	
36	Dr. Vivaksha Jariwala/ Dr. Vibha Patel	OEP-1-VJ-VP-IT-AIDS-25-26 - Group 1	ChatBot for Sarvajani University Website (Group 1)	Harshil Gajipara (Team Leader)	
				Krishna Keraliya	
37	Dr. Vivaksha Jariwala/ Dr. Vibha Patel	OEP-1-VJ-VP-IT-AIDS-25-26 - Group 2	ChatBot for Sarvajani University Website (Group 2)	Ishika Gadhwal	
				Vanshika Kapadia	
38	Dr. Gayatri Kapadia, Dr. Mayank Jain	OEP-1-GK-MJ-25-26	InfraDesk for SCET	Soham Patel	
				Manan Shah	
				Karan Mehta	
				Meet Kapadiya	
29	Dr. Dhruvi P Sharma, Prof. Mukesh Patel	OEP-1-DS-MMP-25-26	Intelligent Document Classification(Group 1)	Golwala Krishna	
				Raval Kashish	
29	Dr. Dhruvi P Sharma, Prof. Mukesh Patel	OEP-1-DS-MMP-25-26	Intelligent Document Classification(Group 1)	Tanisha Agarwal	

OEP Poster Presentation - 2025-26 - OEP list with Id(PANEL V H/W)

Sr. No.	Name of Principal Investigator	OEP Id	Title of the OEP	Student	Sign
28	Prof. Nehal Shah	OEP-2-NNS-25-26	Real-Time Biometric Access Control System with Facial and Fingerprint Authentication	Riddhi J Kapadia	
				Sharda Kelvin D	
				Sondigala Bhavyakumar H	
39	Prof. Nehal Shah	OEP-3-NNS-25-26	Smart Water Management System using IoT & Data Analytics	Rushabh Solanki	
				Yash Thummar	
				Parthiv Patel	
				Rudra Baruwala	
9	Dr. Dipali Kasat, Dr. Purvi Tandel	OEP-4-DK-PT-25-26	Smart Animal Detection and Deterrent System Using Computer Vision and Ultrasonic Sound	JIT PRAJAPATI (Team Leader)	
				MANGALYA DESAI	
				AARAV PATEL	
				KRUTARTH PATEL	
H			ESP32 Based Multimeter Prototype	FALGUN RATHOD	
				Nitant Desai	
C H			Personal Cloud (P.C.) :- The Future of Wireless Computing	Om Sonani	
				Adarsh Gupta	
				Dhruvil Umrigar	
				Nishant Rajput	
				Ayush Kale	
				Shihab Garasia	
