







SARVAJANIK UNIVERSITY SARVAJANIK COLLEGE OF ENGINEERING & TECHNOLOGY

REPORT of EVENT

"Open Ended Problem Meetup for Innovative Ideas"

0n 20th and 21st December, 2024

ORGANIZED BY

IIC CELL SCET

AND R&D CELL - SCET

Event Highlights

The Team

Faculty Coordinator : Dr. Utpal Pandya, Dr. Nirali Nanavati, Dr. Tejal Joshi

IIC Cell – SCET : Dr. Utpal Pandya, President, IIC-SCET

Dr. Dhruti Sharma, Convener, IIC- SCET

Student Coordinators : NA

Details of Event

Event Type : University / Institute Level Program

Event Platform : Sarvajanik College of Engineering & Technology

(SCET)

Category : IIC - Innovation activity for Quarter – 2 (2024-25)

,R&D Cell Activity for 2024-25

Schedule : 20,21st December, 2024

ACL Lab, Embedded Lab

Aspirants : UG students and faculty of Sarvajanik College of

Engineering & Technology, SCET

Accessibility : Open to all (Students/Faculty members)

Registered Entry : Selected Open Ended Problems were presented

Participated Entry : Around 15+ Faculties and 31 OEPs with each group

have 2 -6 students.

About the Event

Topic of the Event: Open Ended Problems Presentation and Discussion

Date & Day: 20th, 21st December, 2024

Time: 10:00 AM to 4:00 PM

Venue: ACL Lab, Embedded Lab

Coordinator: Prof.(Dr.) Utpal Pandya, Prof. (Dr.) Nirali Nanavati, Prof. Tejal Joshi

Summary of the Event:

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The concept of the Open Ended Problem was introduced by Dean R&D in 2023. We received a very promising response and we have now a registration of 31 different OEPs wherein faculty mentors and students are working together on different ideas and projects. This meetup was held for the first time in SCET so that the students would get motivation and suggestions from the mentor faculty members present at the event and their OEPs could be evaluated.

The Meetup started with an introduction about OEPs by Dean R&D, Prof.(Dr.) Utpal Pandya. He shared certain interesting examples of innovation and certain statistics about the OEPs encouraging inter disciplinary OEPs as well. Prof. Utpal Pandya also promised that all the students working sincerely on the OEP would be given certificates of appreciation for the same. This was followed by Prof.(Dr.) Nirali Nanavati who discussed how the research and ideation work could be transformed to get tangible results in terms of research papers, patents, startups..

In this meetup for every OEP group, each team member/leader was asked to explain in brief (10 min) the following: the ideas explored/work done till now, the deliverable expected and the research bottleneck that they were facing. All the student groups present, enthusiastically presented their ideas and work they had carried out. Further, the faculty members present gave valuable suggestions and encouraged the students to follow through with their work in the right direction.

The OEP Meetup proved to be beneficial in establishing a conducive research atmosphere and inspiring the student teams. Collaboration and motivation are key components in fostering a productive and innovative atmosphere, especially in research settings. We will continue to have periodic OEP meetups to guide and motivate the student teams.

We extend our sincere gratitude to our honorable principal Dr. Hiren Patel for permitting us to organize this session. His constant support and guidance inspire us to organize such enlightening events for our fellow students and colleagues. We are also thankful to Dr. Utpal Pandya, Dean, R&D for encouragement and support always. We express our sincere appreciation to all the faculty members who enthusiastically volunteered to mentor students for the OEPs.

Sincere thanks to all the student volunteers and attendants for making necessary arrangements for this session. We would also like to thank the R&D cell members for ideation regarding the OEP initiative. Last but not the least, we are very thankful to all the faculties and student participants for their active presence during the session

List of OEPs presented for 24-25:

S.N.	OEP LD.	Name of Principal Investigator	Title of the OEP	Name of Student	Location
	1		Automated Identification of Lasions	Anika Mehta	
1	P-1-MM-CO-24-	Dr. Mayuri Mehta	of Traumatic Brain Injury	Srushti Patel	Advance Control Lab - IC
		9		Taashna Jariwala	Advance Control Lab - IC
2				Premied Mehts	
			Self-supervised learning for 3D	Pooja Pandit (ET21BTCO071	
			light-sheet microscopy image	ahera Saiyed(ET21BTCO113	A CONTRACTOR OF THE PROPERTY OF THE PARTY OF THE PARTY.
3	P-2-MM-CO-24-		wagmantation	sraha Sankar (ET21BTCO12)	
	11		boulders from Orbiter High Resolution Camera (OHRC) Images using AI/ML techniques	Shreya Patel (ET22BTCO100)	Advance Control Lab - IC
4	4 P-3-MM-CO-24			Kirya Shah (ET228TCO117)	
	0	18 - 1		Devanshi Trivedi (ET22BTCD134)	
			Weakly Supervised Cell	Shruti Gajera (ET328TCO120)	Advance Control Lab - IC
5	P-4-MM-CO-24-	Dr. Mayuri Mehta	Segmentation in Multi-modality High-Resolution Microscopy Images	Meet Jariwala (ET228TC0046)	
				kumar Navinchandra (ET 238TC)	
6			Kidney and Kidney Tumor	Yashesh Pariel (ETZ38TCD045)	Advance Control Lab - IC
	P-5-MM-CO-24-	Dr. Mayuri Mehta	Segmentation	unwarvijay Singh (ET23BTC005:	
	-10000000000000000000000000000000000000	es entretto cattivite	- ZOPOTELIONE S	Archi Gozdar	
			1 3	Pratham Desai	
			Dental Implant Identification using	Devanshu Mangal	1
7	P-1-NN-CO-24-2	Dr. Nirali Nanavati	AVML		Advance Control Lab - IC

			8	Prerna Gattani	3
8	1 1		l î	Fenil Patel	Advance Control Lab - IC
	1 1			Tisha Tandel	
	1 1		Visual Story Telling using	Riddhi Patel	
	P-2-NN-CO-24-2	Dr. Nirali Nanavati	Generative Al	Aakash Jaiswal	
		Dr. Nirali Nanavati	Circular Economy approach for the	Ayush Kayasth	Advance Control Lab - IC
9	P-2-NN-CO-23-2		Surat Textile Market	Vrund Raval	
		- 1		Manan Parekh	
	1 1			Parth Patel	
	1 1		Trust and Transparency using Explainable AI in Healthcare	Anmol Aufre	
10	P-3-NN-CO-24-2	Dr. Nirali Nanavati	Systems	Vaidehi Lad	Advance Control Lab - IC
				Krishna Panwala	1/
	1 1			Chapadia Vansh	Advance Control Lab - 10
	1 1			Shah Parva	
			Machine Learning Driven clinical	Heer Mehta	
11	EP-1-KD-IT-24-2	Dr. Krishna Delvadia		SIE AS	
		POSCOPERA INC.	-	Bhavya bavisi	Advance Control Lab - K
	1 1			Prapti mehta	
	1 1			Kunj Desai	
	1 1			Amaan payak	
12			Machine Learning Driven clinical	Vidhi doctor	
	EP-1-KD-IT-24-2	Dr. Krishna Delvadia	decision support system	Disha bhatia	
				Krishna Patel	2
				Moradiya Mili	
			Automatic Sercasm Detection in	Kuvadiya Dhruvi	
13	EP-1-MD-IT-24-2	Dr. Mitali H.Desai	Code Mixed Data with Emotions	Sarah Shaikh	Advance Control Lab - IC

				Satyam Tiwari	
				Jainil Tailor	-6
			AayuBot: The Smart Healthcare	Krish Tejani	Advance Control Lab - IC
14	EP-1-DK-CO-24-2	Dr. Dipali Kasat	Assistant	Aryan Sutariya	
	Fig. 10 company to the company to the	PI: Dr. Pariza Kamboj	Automated Chatbot System For	Manendra Jadeja	Advance Control Lab - K
		t: Prot Jayesh Chaud	Gujarat Medical Services Corporation Limited	Archi Gazdar	
15				000000000000000000000000000000000000000	
		PI: Dr. Pariza Kamboj	Design And Develop An Ai-Powered	Manthan Lad	
	(P-2-PK-CO-23-)	1: Prof. Jayesh Chaud	Chatbot For The Technical	Preet Jogani	- 01
16			Education Department		Advance Control Lab - IC

S.N.	OEP LD.	Name of Principal Investigator	Title of the OEP	Name of Student	Location
	1			Sej Amitkumar Desai	
				Hitarth Nilesh Lekhadia	1
			Electric Vehicle charging for solar	Kenil Pravinbhai Lathiya	1
1	OEP-1-59-CD-24-25	Dr. Shabbir Bohra	powered bike park	Dharmi Rajpara	Embedded System Late - IC
				Smit Manishbhai Prajapati	
				tainish (shvarbhai Patel	1
			Optimal Management of Electric Vehicle	Preya Kalgeshbhai Khalasi	Embodded System Late - IC
2	O1F-2-58-CD-24-25	Dr. Shabbir Bohra	charging for solar powered bike park	Shubham Rana	
		-	ElderGuardian: Smart Health & Safety for Seniors	Dîrxanî Mehulbhai Maktuporia	Enbodded System Lab - C
				Kuldeep kailashbhai Kevat	
	OEP-1-V5-EC-23-24	Dr. Vandana Shah		Archi Pradeep Gazdar	
3				Neel Khanpara	
				Pratham Pindiwala	San Co-culturate to
			1 1	Shihab Garasia	
				Om Kumbhare	1
			1 1	Manaswi Mehta	1
4	0£5:150-E0:24-25	Dr. Sarosh Dastoor	All based Self Driving Car	Dushyant Prajapati	Embedded System Lab - IC
				Preet Shah	
				Hardik Suthat	1
			5 C-5/19 0 (C C C C C C C C C C C C C C C C C C	Ronit Rathod	
	N/0-0507/1547	and the same		Predictive Maintenance of Machine	Predictive Maintenance of Machine Dhoirya Praja;
5	OEF-2-SD-EC-24-25	Dr. Sarosh Dastoor	Health and tracking using AR	Priyanshi Singh	Embedded System Lab - C
				Shubham Gupta	

	1	1	1 .	Harsh Charsandiya	
			Irrietagent Recommendation System for	Yash Mintry	
	OEF-2-MP-IT-24-25	Frot Mulesh Patel:	Graduate Course Selection	Altesh Jatowal	Embedded System Lab - C
		1000-7170-000-000	poconia con concess.	Arrest Single	
	GEP-2-MP-(7-30-28		house when meaning and	Vir diapsa	
7		Frot Musech Patel	Intelligent Recommendation System for Graduate Course Selection	Aryan Aryanden Sana	
		0.00000000000000000000000000000000000	Juliadatio Course Selection	Vegad Hot Rameshbhai	
				Patel Dev Vinodicamar	Crobadded System Lab - C
			I		-
			Automated /semiautomated waste		
8	06F-5-05-(T-24-25	Dr. Ketki Pathak	management system		Erroedted System Lab - II
	1			Dev Sadtsetsomala	
		1	Quetion Paper leokage prvention	Kuldeep Keyat	
				Othern Makingorie	
#	0EF-2-06-IT-24-25	Dr. Dhrub Sharma	mechanism using blockchain technology	Meet Coa	Circustat System Lab - K
				Angelt Jartwalla	
			Adjustit Fitel Diguel Shotaski Secure sharing of EHR with role based Riguer Adjustic	Andponsiti Fatel	
				Digrani Shelanki	
				7	
10	OEP-3-05-(T-24-25	Dr. Dhruti Sharma	search mechanism	Hambita Satariya	Simpensed System Lab - 5
				Meet Chelant	
	11	1	Robust Full Detection System for Elderly Feople in Ambient Assisted Living	Voiblaw Panchel	-
				Der Butuni	
33	DEP-0-AP-IT-29-25	Frot. Ankit Futut	Environment	Dhyer Godhethrtyn	Systematical System Lab - II
				Parth Hathiwole	
			Les constants and a second of	Authorit (olowe)	
			Leveraging Generative Al for Automated - Assignment Greeting and Detailed	Viral 5 Shah	
12	0EP-3-TG-IT-24-25	Froil Turbay Godel, Book	4 Peedback in Academic Institutions	Vishesh V Chaudhort	Embedded Bysley Lab - C

15	DEP-1-UP-IC-23-24	Dr. Utgal Pandya, Dr. Tejal	Portable PUC Machine	Namya Hekkad Saakshi Champaneria	Embedded System Lab - IG
			I	Harkinit Sandhu	
			I	Aaryamaan Mehra	
			I	Søger Neidu	-
			I		-
				Mishant Shah	The second second
14	0EP-1-UP-IC-23-24	Dr. Utpai Pendya	Undefined Shape Bottles/Tank	Vidhi pathak	Embedded Sindert Lab - K
		8	Volume Measurement of Fluid in	Chinton Baraiya	
				Hiteshme Varshale	
				Jay Patel	20
13	0EP-1-TG-IT-24-25	Prof. Tushar Gohil, Prof.	Leveraging Generative All for Automated Assignment Grading and Detailed Feedback in Academic Institutions	Shreya Chopra	Embedded System Lab - IC
		I		Jay Projapati	<u> </u>
				Nidhi Patel	-33 -33
				Pranami Patel	
				Het Rajpara	

Photos:

















