




SARVAJANIK EDUCATION SOCIETY  
Sarvajanik College of Engineering &  
Technology

.....Towards Progressive Civilization  
(A Constituent Institute of SARVAJANIK  
UNIVERSITY)


Dr. R. K. Desai Marg, Athwalines, Surat-395001  
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# REPORT ON PROJECT DERBY

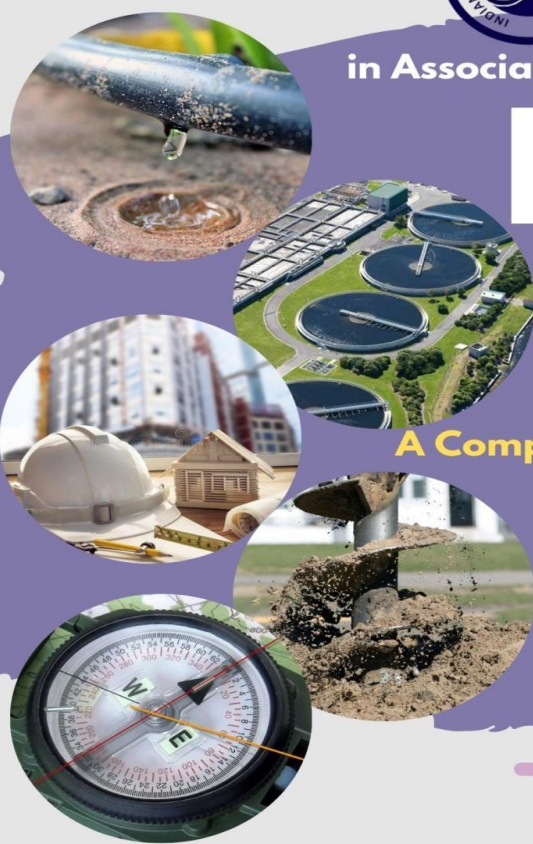


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**Sarvajanik College of Engineering & Technology**  
(A Constituent Institute of SARVAJANIK UNIVERSITY)  
Dr. R. K. Desai Marg, Athwalines, Surat-395001  
**Department of Civil Engineering**






in Association with **ISTE**




# Project DERBY


**2024**  
**A Competition of Civil Projects**



**21/10/2024**



**10 AM onward**



**Department of  
Civil Engg.**


**First 3 winners will be given  
prizes and certificates**

**Student Coordinators**  
Mahesh Rayaka  
Pawan Mahato

**Dr. Manisha Vashi**  
Assistant Professor  
Faculty Coordinator

**Prof. Himanshu Padhya**  
Associate Professor  
Faculty Coordinator

**Dr. Mehali J. Mehata**  
Head & Associate Professor

@scetcivilengineering 

**About the event:**

An Academic Event “Project DERBY” was organised by the Department of Civil Engineering, SCET on October 21, 2024 in order to expose the students with the current field practices and contemporary trends in Civil Engineering. Veteran teachers from other prestigious institute, experienced professional working in field and an alumni of department were invited as esteemed jury member for the event.

This academic event provided students with an opportunity to present their project to a diverse audience, including industry professionals, academic experts, and fellow students. This platform fostered a collaborative learning environment where students could gain valuable feedback, refine their presentations, and gain insights into potential career paths.

The presentations covered a wide range of topics within the field of civil engineering, including structural design, geotechnical engineering, transportation planning, and environmental engineering. Students presented their work in a professional manner, using visual aids and engaging delivery techniques to effectively communicate their projects to the audience.

The participation of industry and academic experts was a key highlight of Project DERBY. These experts brought valuable insights and real-world experience to the event, providing constructive feedback and mentorship to the students.

Industry professionals from leading construction firms and engineering consultancies shared their perspectives on current trends and challenges in the industry. They offered guidance on the practical applications of the student research and emphasized the importance of innovation and problem-solving skills in the profession.

Academic experts from various universities and research institutions provided insights on the latest advancements in civil engineering, fostering a dialogue between academia and industry. Their presence enriched the event by providing students with access to cutting-edge research and encouraging them to pursue further academic exploration.

**List of Esteemed Jury Members**

- 1. Dr Jignesh Patel (President, CREDAI, Surat)**
- 2. Dr Namrata Jariwala (Associate Prof, SVNIT)**
- 3. Er Shubham Lekhadia (Proprietor, Shujal Construction; Alumni of Civil, SCET)**

**List of Projects**

Sr No	Enrollment No.	Name	Domain	Allotted Faculty Guide	Title of Project to be Fixed with Faculty Guide
1	ET22BTCL811	Milind Parekh	Water Resource Engineering	Prof Payal Zaveri	Planning of Continuous Water Supply System: A Case Study of Surat City, Western India
	ET22BTCL813	Kevin Dandiwala			
	ET21BTCL045	Mahesh Rayaka			
	ET22BTCL824	Jay Mohite			
2	ET22BTCL817	Gunjan Patil	Town Planning	Prof Himanshu Padhya	Planning a Samrt Village : A Case Study of Village 'Vanz' in Gujarat State, Western India
	ET22BTCL812	Aaryan Modi			
	ET22BTCL816	Vastav Patel			
	ET22BTCL818	Dip Prajapati			
3	ET22BTCL804	Jiya Chaudhari	Geotechnical Engineering	Dr Pratima Patel	Experimental Study on Modification of Expansive Soil Reinforced with Textile Polyester Fibers
	ET22BTCL805	Khushi Chaudhari			
	ET22BTCL809	Unnati Jariwala			
	ET22BTCL815	Maitri Patell			
4	ET22BTCL821	Jeet Shah	Structure Engineering (Winner-1 <sup>st</sup> )	Dr Jigar Sevalia	Translucent Concrete by using Optical fibres
	ET22BTCL054	Malay Tamakuwala			
	ET21BTCL803	Jay Baraiya			
	ET22BTCL819	Krunal Rathod			
5	ET22BTCL825	Krish Tirmale	Concrete Technology (Winner-2 <sup>nd</sup> )	Prof Ratna Jadvani	Enhancements in the properties of paver blocks using blast furnace slag
	ET22BTCL802	Ayush Bakaraniya			
	ET22BTCL808	Aniket Italiya			
	ET22BTCL901	Karsh Kunt			
6	ET21BTCL023	Pawan Mahato	Geotechnical Engineering	Dr Khushbu Gandhi	Effect of plastic waste on strength characteristics of expansive soil at study area
	ET21BTCL027	Darshan Parmar			
	ET21BTCL039	Meet Patel			
	ET21BTCL040	Mit Patel			
7	ET21BTCL041	Pranshu Patel	Structural Engineering / Concrete Technology	Prof Dharmesh Bhagat	Experimental Study on Property of Concrete using Polypropylene Fibers
	ET21BTCL021	Sujal Kahar			
	ET21BTCL025	Nikhil Mojidra			
	ET21BTCL037	Kunj Patel			
	ET21BTCL031	Patel Divya			
	ET21BTCL038	Patel Malhar			

8	ET21BTCL047	Shah Kavish	Construction engineering and management	Prof Ankita Parmar	Analysis and design of bunglow by using REVIT BIM software
	ET22BTCL822	Dev Tolat			
9	ET21BTCL046	Brijesh Rupareliya	Design and materials of building	Dr Kamlesh Dalal	Innovations in construction chemicals according to design of concrete
	ET21BTCL005	Meet Bombaywala			
	ET21BTCL018	Meet Jariwala			
	ET21BTCL032	Harsh Patel			
10	ET22BTCL827	Hiten Thakur	Environmental Engineering	Dr Mehali Mehta	Comprehensive Water Conservation Systems for Urban Areas
	ET22BTCL801	Akshat Vekariya			
	ET22BTCL810	Krutaganasinh Kathiya			
	ET22BTCL826	Darshan Ghaskata			
11	ET21BTCL011	Pal Desai	Construction Management (Winner-3 <sup>rd</sup> )	Prof Hemali Jardosh	Construction project management of residential building by Clickup
	ET21BTCL033	Jinnith Patel			
	ET22BTCL807	Darshan Ganjawala			
	ET22BTCL822	Nitansh Ravatka			
12	ET21BTCL024	Meet Maniya	Transportation Engineering and Management	Prof Mitali Shah	A Review Of Traffic Signal Design In Urban Area
	ET21BTCL012	Rushi Dhameliya			
	ET21BTCL055	Daksh Ukani			
13	ET21BTCL034	Juhi Patel	Construction Management	Dr Manisha Vashi	Impact of Modular Construction of Project Schedule Performance
	ET21BTCL013	Shreya Dhimar			
	ET21BTCL017	Zeel Jain			
14	ET21BTCL010	Nisarg Chhatrola	Structural Engineering (Winner-3 <sup>rd</sup> )	Dr Minakshi Vaghani	Structural Health Monitoring of R.C. Beam using sensors
	ET21BTCL003	Harsh Bhadesiya			
	ET21BTCL048	Sanjana Shah			
	ET21BTCL019	Rajvi Jariwala			
15	ET21BTCL014	Aanchal Engineer	Transportation engineering	Prof Sejal Bhagat	Improving Efficiency and Reliability of Bus Rapid Transit System, Surat City.
	ET21BTCL008	Divya Chauhan			
	ET21BTCL026	Jack Mukherji			
	ET21BTCL022	Parth Kathrodiya			

### Winner Details:

<b>Sr. No.</b>	<b>Rank</b>	<b>Domain</b>	<b>Title of Project</b>	<b>Group member</b>	<b>Faculty Coordinator</b>
<b>1</b>	<b>1st</b>	<b>Structural Engineering</b>	<b>Study on light generating concrete</b>	<b>Jeet Shah</b>	<b>Dr Jigar Sevalia</b>
				<b>Malay Tamakuwala</b>	
				<b>Krunal Rathod</b>	
<b>2</b>	<b>2<sup>nd</sup></b>	<b>Concrete Technology</b>	<b>Enhancements in the properties of paver blocks using blast furnace slag</b>	<b>Krish Tirmale</b>	<b>Prof. Ratna Jadvani</b>
				<b>Ayush Bakaraniya</b>	
				<b>Aniket Italiya</b>	
				<b>Karsh Kunt</b>	
<b>3</b>	<b>3<sup>rd</sup></b>	<b>Structural Engineering</b>	<b>Structural Health Monitoring of R.C. Beam using sensors</b>	<b>Nisarg Chhatrola</b>	<b>Dr Minakshi Vaghani</b>
				<b>Harsh Bhadesiya</b>	
				<b>Sanjana Shah</b>	
				<b>Rajvi Jariwala</b>	
<b>4</b>	<b>3<sup>rd</sup></b>	<b>Construction Management</b>	<b>Construction project management of residential building by Clickup</b>	<b>Pal Desai</b>	<b>Prof Hemali Jardosh</b>
				<b>Jinnith Patel</b>	
				<b>Darshan Ganjawala</b>	
				<b>Nitansh Ravatka</b>	

### **Key Takeaways and Outcomes**

For the students, the event served as a crucial platform for gaining confidence, developing their presentation skills, and receiving constructive feedback from industry and academic professionals. This experience proved invaluable for shaping their future career trajectories and promoting their professional development.

For the broader civil engineering community, Project Derby showcased the talent and innovation emerging from the next generation of engineers. The event highlighted the importance of continued investment in research and development, the need for collaboration between academia and industry, and the essential role of events like Project Derby in fostering a vibrant and thriving civil engineering ecosystem.

Student Development: Confidence building, presentation skills, professional development.

Industry Insights: Understanding current trends and challenges in the industry.

Academic Connections: Exposure to cutting-edge research and collaboration opportunities.

### **Sincere Acknowledgements**

**Sarvajanik University**

**Dr Hiren Patel, Principal, SCET**

**Dr Mehali Mehta, Head of the Civil Engineering Department**

**Dr Himanshu Padhya and Dr Manisha Vashi; Faculty Coordinators**

**Mahesh Rayka and Pawan Mahata; Student Coordinators**

### **Photo Gallery**



