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CIVIL ENGINEERING DEPARTMENT

Delighted to share that my students — **Shantanu Bhosale, Tamanna Samal, Mohammed Sadiq Shaikh, and Yash Rajput** — have had their project “*Non-Invasive IoT-Based Device for Detection of Sewerage System Clogging*” accepted for initial funding at the **La Trobe Innovation Challenge!**

A special shout-out to **Abhijit Nadgouda** for guiding them through the IoT aspect of this impactful innovation, and heartfelt appreciation to **Dr. Hansa Jeswani** for mentoring the team throughout their journey. Their solution leverages **ultrasonic sensing and IoT** to detect sewer blockages **non-invasively** — a smart, sustainable approach to one of the most pressing **urban infrastructure issues**. What is especially inspiring is that these students began working on this idea right from their **first semester** in the courses *Design Thinking and Innovation* and *Programming for Problem Solving* under the **Civil Engineering Department (CED), Sardar Patel College of Engineering (SPCE), Mumbai.**

This achievement truly reflects their **engineering insight, teamwork, and commitment** to solving real world problems. Huge congratulations to the entire team!

Sustainable Development Goals (SDGs) aligned with this project:

- **SDG 6 – Clean Water and Sanitation**
- **SDG 9 – Industry, Innovation and Infrastructure**
- **SDG 11 – Sustainable Cities and Communities**

For more information, watch their initial video:

🎥 <https://www.youtube.com/watch?v=J50OgLpQYWg>



“Non-Invasive IoT-Based Device for Detection of Sewerage System Clogging”