



SMART INDIA HACKATHON 2025



INTERNAL HACKATHON REPORT

About the Event: The event aimed to foster innovation, creativity, and problem-solving skills among our students, while preparing them to participate effectively in the national-level Smart India Hackathon 2025.

The main objectives of Internal Hackathon:

- **Innovation** – Generate creative solutions to real-world problems.
- **Collaboration** – Build teamwork and enhance technical skills.
- **Networking** – Connect with mentors, professionals, and opportunities.

As a proud winner of SIH 2024, Shri K. J. Polytechnic, Bharuch organized the Internal Hackathon for Smart India Hackathon (SIH) 2025 on 20th September 2025 in offline mode on our campus. Registrations were closed on 17th September 2025; however, spot registrations were also permitted due to the addition of new PS IDs. A total of 12 teams participated in the Internal Hackathon, with most teams selecting two PS IDs. Notably, more than 50% of the participants were female students, highlighting strong gender representation.

It is a one of kind opportunity for our students to represent at such National level event.





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About the Problem Statement: A total of 12 different PS Id's & 7 themes were targeted.

Sr. No.	PS Id & Title	Theme
1	SIH25003 Low-Cost smart transportation solution for Agri produce from remote farms to nearest motorable road in NER Region	Transportation & Logistics
2	SIH25013 Real-Time Public Transport Tracking for Small Cities	Transportation & Logistics
3	SIH25014 Waste Segregation Monitoring System for Urban Local Bodies	Clean & Green Technology
4	SIH25036 Development of Sensor for Detection of Microplastics	Miscellaneous
5	SIH25046 Smart Waste Segregation and Recycling System	Clean & Green Technology
6	SIH25060 Real life solutions for Waste Management.	Clean & Green Technology
7	SIH25062 Implementation of Smart Agriculture for Efficient Cultivation in Hilly Regions	Agriculture, FoodTech & Rural
8	SIH25081 AI-Driven Train Induction Planning & Scheduling for Kochi Metro Rail Limited (KMRL)	Smart Automation
9	SIH25090 Grey water management and reuse wet land management water conservation	Clean & Green Technology
10	SIH25094 One-Stop Personalized Career & Education Advisor	Smart Education
11	SIH25145 Development of a Smart Blind Stick for Enhanced Mobility and Safety of Visually Impaired Persons	MedTech / BioTech / HealthTech
12	SIH25186 Design of a Sustainable, Low-Cost Geocell Road System for Landslide-Prone Rural Areas in North East India	Disaster Management



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Event Photos:



Hack for BHARAT, Build for the World



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Participating Teams:



Hack for **BHARAT**, Build for the World



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Judging Process: The event was divided into three sessions.

- First round – Mentoring
- Second round – Judging & Assigning Task
- Final round – PPT Presentation.

Judging was based on following weighted evaluation rubric.

SHRI K. J. POLYTECHNIC BHARUCH							
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Weighted Jury Evaluation Rubric							
Team Name:							
PSID:							
PSID Title:							
Criteria	Weight (%)	1 - Poor	2 - Fair	3 - Good	4 - Very Good	5 - Excellent	Marks
Novelty & Innovation	15	Lacks originality, no creativity	Slight originality, limited creativity	Somewhat innovative, moderate creativity	Strongly innovative, unique approach	Highly original, breakthrough idea	15/12/09/06/03
Feasibility & Practicability	20	Unrealistic, impractical	Weak feasibility, limited application	Somewhat feasible with challenges	Practical, clear application path	Highly feasible, strong implementation roadmap	20/16/12/08/04
Complexity & Detail	15	Superficial, lacks depth	Limited detail, vague	Adequate technical depth, some gaps	Strong technical detail, mostly complete	Comprehensive, deeply technical, well-documented	15/12/09/06/03
Sustainability & Scalability	15	No sustainability or scalability	Weak sustainability, limited scalability	Moderately sustainable and scalable	Strong potential for long-term and scaling	Highly sustainable, easily scalable across contexts	15/12/09/06/03
User Experience	10	Confusing, not user-focused	Limited usability, weak user focus	Usable but room for improvement	Intuitive, user-friendly	Exceptional, highly user-centered	10/08/06/04/02
Impact & Potential	20	Minimal or no real impact	Narrow effect, limited potential	Moderate impact in specific area	Significant impact, growth potential	Transformative, wide-reaching societal benefit	20/16/12/08/04
Teamwork & Coordination	5	Poor collaboration	Limited teamwork	Adequate teamwork	Strong coordination	Excellent synergy, outstanding collaboration	05/04/03/02/01
TOTAL	100						

Participation Statistics:

- Total number of students – 72
- Total number of teams – 12
- Male Students – 46
- Female students – 26
- Total PS Id's – 12
- Total Theme – 07



SMART INDIA HACKATHON 2025



Judges Information:

	Name: Mr. Satish Bhati Designation: Research Engineer Company: Jekson Vision Pvt. Ltd. Ahmedabad Education: Pursuing PhD in EC Engg. (IIT Roorkee) Details & Achievements: Mentor of team represented India at ABU Robocon 2013, Winner of Pedagogical Innovation award GTU, E-Yantra member 2019 at IIT-Bombay, Expert at GTU Robocon team.
	Name: Mr. Prashant Mishra Designation: Director of Software Engineering Company: Loti, USA Education: B Tech CSE Details & Achievements: Chief Technology Officer Xcitech Technologies, Full stack developer, Member in various Startups, Winner Gujarat Industrial Hackathon 2019.
	Name: Dr. Payal Patel Designation: Head of Department, Electrical Engg. Company: SVMIT, Bharuch Education: Ph.D. in Electrical Engg. Details & Achievements: > 20 Publications, IIC member with National Infotech, Surat on 2 Projects, PLC Trainer, Author & Technical Software expert



SMART INDIA HACKATHON 2025



Nominated Top Teams: Judges nominated the teams based on Concept & novelty of Idea, Innovations, Feasibility & scalability of Idea. Team coordination & composition was also given importance. Each team member was also judge on language proficiency & fluency, in-depth knowledge, his role & coordination with other team members. Jury decided to nominate a total of 6 teams with novel idea but with some changes in team configuration and members.



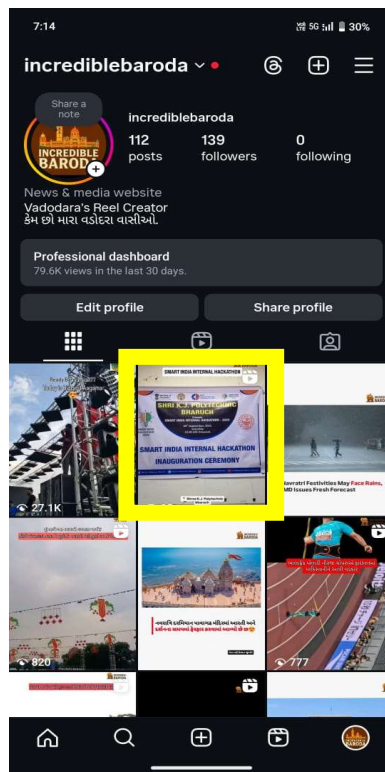
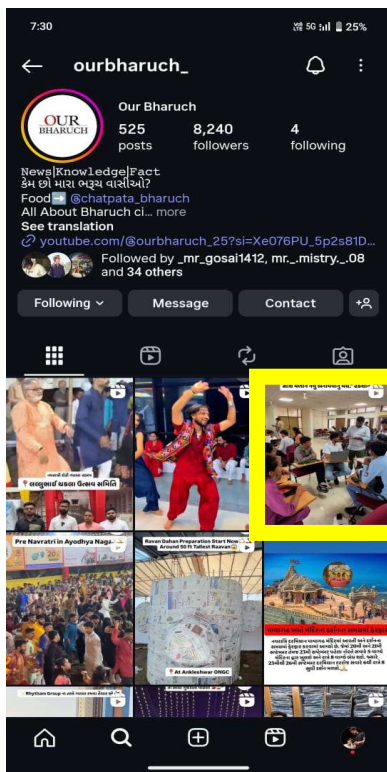
Sr. No.	PS Id & Title	Team Name
1	SIH25014 Waste Segregation Monitoring System for Urban Local Bodies	Sankalpam – Swachh Bharatam
2	SIH25036 Development of Sensor for Detection of Microplastics	Blue Gaurdians
3	SIH25081 AI-Driven Train Induction Planning & Scheduling for Kochi Metro Rail Limited (KMRL)	Code Crusaders
4	SIH25090 Grey water management and reuse wet land management water conservation	Nature Protectors
5	SIH25145 Development of a Smart Blind Stick for Enhanced Mobility and Safety of Visually Impaired Persons	Netra Sakha



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Social Media Coverage:



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