



A J INSTITUTE OF ENGINEERING AND TECHNOLOGY

NH-66, Kottara Chowki, Mangaluru -575006, D. K District, Karnataka, INDIA.

A Unit of Laxmi Memorial Education Trust® (Approved by AICTE, New Delhi. Affiliated to

Visvesvaraya Technological University, Belagavi)

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Date:27/09/2025

Department of Mechanical Engineering

Report on "SIH-2025 Internal Hackathon"

Name of the Program:	SIH-2025 Internal Hackathon	Program Dates & Timings:	17-09-2025 2.00 PM
Name & Details of the Resource Person:	Dr. Sunil Kumar S Associate Professor, Department of Mechanical Engineering		
Organized by (Clubs/ Dept.)	Student project committee	In Association with (clubs)	
Number of Participants	60	Students	60
Program Outcome (PO) Mapping	PO1, PO2, PO5, PO9, PO10, PO12		
Coordinators	Dr. Vighnesha Nayak, Mr. Sudesha Shetty M		

About the Program: The Smart India Hackathon (SIH-2025) Internal Hackathon was organized at A J Institute of Engineering and Technology on 17th September 2025. The primary objective of the program was to identify innovative solutions and nurture the creative ideas of students, preparing them to compete at the national level hackathon.

The event provided a platform for students to collaborate, brainstorm, and develop prototypes addressing real-world problem statements in alignment with the SIH vision.

Objectives: The program session enabled students to

1. To encourage students to participate in the Smart India Hackathon 2025.
2. To identify and shortlist the best ideas and teams for representing the institution at the national-level SIH competition.
3. To foster innovation, teamwork, and problem-solving skills among participants.
4. To strengthen industry-academia collaboration through problem-driven solutions.



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Program Flow

- 1. Inaugural Session** (Class Room B208)
 - Welcome address by the coordinator, **Dr. Vighnesha Nayak**.
 - Brief introduction to **SIH-2025**, its objectives, and guidelines.
- 2. Team Registration and Problem Statement Allocation**
 - 10 teams were registered for the internal hackathon.
 - Teams presented their solutions to problem statements in the allocated venues (Class Room B208).
- 3. Evaluation Process**
 - Each team was evaluated by internal juries comprising faculty members.
 - The evaluation was based on **idea novelty, technical feasibility, innovation, presentation, and implementation strategy**.
- 4. Presentation and Demonstration**
 - Teams showcased their ideas, prototypes, and solutions in the respective venues.
 - Constructive feedback was given to students for further improvement.
- 5. Concluding Session**
 - Declaration of shortlisted teams for SIH-2025 National Round.
 - Vote of thanks delivered by the coordinator.

Judging Process:

Describe the process used for judging the hackathon projects.

- Projects are initially evaluated by a jury panel composed of experts from academia and industry.
- Teams submit their ideas with comprehensive details including description, feasibility, innovation, presentation, and a prototype or demonstrable solution.
- Judging criteria typically include novelty of the idea, technical complexity, clarity, feasibility, sustainability, impact, user experience, and potential for progression.
- Experts review submissions and assign scores based on the criteria, often using a set percentage weight (e.g., innovation 20%, technical difficulty



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20%, impact and sustainability 20%, Presentation & Communication skill 20% and Team Coordination 20%).

- Top teams are shortlisted for the grand finale based on cumulative scores, and winners are announced if their projects meet or exceed expectations of the problem statement creators.

S.No.	Evaluation Criteria	Description	Weightage
1	Innovativeness of the solution	Novelty and uniqueness of the solution/idea.	20%
2	Technical approach	Feasibility, technical depth, and correctness of implementation.	30%
3	Feasibility & Scalability	Scope for real-world application, user-friendliness, and scalability.	20%
4	Presentation & Communication skill	Effectiveness of presentation and teamwork.	20%
5	Team Coordination	Collaboration, role distribution, and overall team synergy	20%
		Total	100%

Outcomes: On successful completion of program, the student should able to:

1. Apply problem-solving and critical thinking skills to real-world problem statements.
2. Communicate and Work effectively as a team to generate innovative ideas and solutions.
3. Demonstrate technical knowledge and creativity in developing prototypes.

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Articulation Matrix:

Course Outcomes	Program Outcomes											
	1	2	3	4	5	6	7	8	9	10	11	12
1	3	1	-	-	-	-	-	-	-	-	-	2
2	-	-	-	-	2	-	-	-	3	2	-	2
3	3	1	-	-	-	-	-	-	-	-	-	2
Average	3	1	-	-	2	-	-	-	3	2	-	2

Photos:



Coordinators

HOD

Dean Academics

Principal



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Participation List:

Si. No	Team ID	Team Name	USN	NAME	Problem Statements	Problem ID	MENTOR
1	AJIET_ME_01	Team Elite	4JK23ME027	Mohammed Thanveer	Design and implementation of solar powered dewatering in mining operation.	SIH25072	Mr. Sudhir Kini K Dr. Sunil Kumar S
			4JK23ME030	N Karthik			
			4JK23ME032	Pawan A Kotian			
			4JK23ME040	Shravan			
			4JK23ME041	Suhas			
			4JK23ME042	Sweedal Jenisha Pinto			
2	AJIET_ME_02	Mechnizers	4JK24ME401	Anaghranj	Smart waste segregation and recycling system	SIH25046	Mr. Sudesha Shetty M Dr. Sreejith B K
			4JK24ME407	Rishikesh			
			4JK24ME411	Swasthik			
			4JK24ME413	Vishanth Shetty			
			4JK24ME046	Supritha			
			4JK24ME049	Vaishali. N			
3	AJIET_ME_03	Marvel	4JK23ME003	Adhil Raj	Renewable Energy monitoring system for micro grids	SIH25051	Dr. Sreejith B K Mr. Sudhir Kini K
			4JK23ME007	Alen Mathew			
			4JK23ME013	Devnand S R			
			4JK23ME020	Mahammad Rasheed			
			4JK23ME025	Mohammed Kalandar Shafi			
			4JK23ME039	Saniya Nath M N			
4	AJIET_ME_04	Team infinity	4JK23ME012	Deeksha R V	Implementation of Smart Agriculture for Efficient Cultivation in Hilly Regions	SIH25062	Dr. Nithesh K Dr. Vighnesha Naik
			4JK23ME014	Gnaneshwar V			
			4JK23ME018	Karthik Raj Rai			
			4JK23ME044	Varun D			
			4JK23ME045	Varun M Anchan			
			4JK24ME403	Nishan S Suvarna			

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5	AJIET_ME_05	Black Squad	4JK23ME023	Manju R	Real life solutions for waste Management	SIH25060	Dr. Sunil Kumar S Mr. Prasad B. G
			4JK23ME024	Mohammad Ziyana			
			4JK23ME031	Nithin K B			
			4JK23ME035	Raghavendra I Bhajantri			
			4JK23ME047	Yusuf Navid			
			4JK24ME021	Kushi Palai			
6	AJIET_ME_06	Neptune	4JK23ME004	Adithya	Development of sensor for detection of micro plastics	SIH25036	Mr. Prakhyath Mr. Nithin Shet
			4JK23ME028	Muhammed Sinan N M			
			4JK23ME029	Muhammed Sinan P			
			4JK23ME048	Zeeshan Sabeer			
			4JK24ME404	Omkar Ramachandra Shetti			
			4JK24ME034	Roksha			
7	AJIET_ME_07	Fresh Root	4JK23ME001	Abhi Tomy	Improved Onion Storage Technology for Enhancing Shelf Life	SIH25053	Mr. Prashantha D A Mr. Sudesha Shetty M
			4JK23ME002	Aboobacker Siddik			
			4JK23ME006	Akash Jose			
			4JK23ME008	Allen Babu			
			4JK23ME009	Ashwath R			
			4JK24ME013	Apeksha S A			
8	AJIET_ME_08	A J Throan	4JK23ME005	Akash	Indian railways employ track recording cars (DRCS) FOR A Periodic Assessment of track geometry to ensures safety, right comfort and operational efficiency	SIH25020	Mr. Harold J Souza Dr. Nithesh K
			4JK23ME017	Kalash Kumar Alva			
			4JK24ME408	Sharath Shetty G			
			4JK24ME409	Sivananda Dyavappa Kuri			
			4JK24ME410	Shravanesh V S			
			4JK24ME030	Praseedha S Urva			
9	AJIET_ME_09		4JK23ME015	Hardeep Kumar			Mr. Prasad B. G Dr. Vighnesha Naik
			4JK23ME019	Madike Shiva			



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		Sky saviors	4JK23ME021	Mahammad Riham	Disaster Response Drone for Remote Areas	SIH25047	
			4JK23ME043	Thilak			
			4JK24ME400	Abdul Sattar			
			4JK24ME032	Rakshitha			
10	AJIET_ME_10	Jupiter	4JK23ME016	Hasan Faizal	Block chain-based supply chain transparency for agriculture produce	SIH25045	Mr. Nithin Shet Mr. Prakhyath
			4JK23ME033	Pradeep Nayak			
			4JK23ME034	Prajwal			
			4JK24ME405	Prajeeth Das			
			4JK24ME412	Tejas K			
			4JK24ME044	Sinchana B Chowta			

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