



CSMSS
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Approved by AICTE New Delhi, DTE (Govt. of Maharashtra) and affiliated to Dr. BATU, Lonere (Raigad). **DTE Code: 2533**

Department of Electrical Engineering
Research & Development Cell (R&DC) and Institution Innovation Council Activity Report

Name of the event:	DEPARTMENT LEVEL INTERNAL HACKATHON 2026					
Date:	02-09-2026					
Under the Initiative:	Department Level Innovative Project Idea Internal Hackathon - Research & Development Cell (R&DC) and Institution Innovation Council Activity					
Team Details:	Registered: 02	Participating: 02	Software Teams : 00	Hardware Teams : 02	Shortlisted: 02	Waitlisted: 00
Names and designations of Jury Members	Name: Dr. M. G. Aush Designation: Head of Department		Name: Prof. N. N. Nikam Designation: Assistant Professor		Name: Prof. A. D. Salpe Designation: Assistant Professor	
Target Audience:	Students of Electrical Engineering Department					
Registration Link:	https://forms.gle/S4BUMnKWbnJiiW8E7					
Venue / Platform / Mode:	Activity conducted at Electric Vehicle Lab, Electrical Engineering Department in Offline Mode.					
Dept. Coordinator:	Prof. R. R. Gadappa- Electrical Engineering Dept.					
Objective:	The primary objective of this department-level hackathon round was to evaluate, mentor, and shortlist the most innovative and technically viable student groups to represent the college at the national-level Smart India Hackathon (SIH) 2026.					
Overview	The Electrical Engineering Department organized an evaluation round where student teams presented their proposed solutions, architectural designs, and initial prototypes for their chosen SIH 2026 problem statements. An expert panel comprising senior faculty members assessed the solutions based on innovation, technical complexity, cost-effectiveness, and potential societal impact.					
Participation	Teams of Electrical Engineering Department.					
Key Outcomes:	The evaluation panel successfully identified the core strengths of the presenting teams. i) The First team successfully demonstrated a clear architectural roadmap integrating IoT-based sensors with an automated filtration unit. ii) The Second team proposed an innovative, portable cooling mechanism designed to operate on low power. The design effectively addresses the immediate spoilage window faced by off-grid dairy farmers.					
Key observations,	During the technical presentations and Q&A sessions, the evaluation panel noted several key points: i. Both teams demonstrated a solid understanding of the hardware required for their respective domains. ii. The problem statements chosen are highly relevant to the Indian					

recommendations

demographic, giving both projects a strong competitive edge for the national SIH evaluation criteria. iii. Both solutions target rural areas meaning cost effectiveness is important. The panel strongly recommended groups that they rigorously optimize their Bill of Materials to ensure the final product falls within an affordable price bracket for rural consumers. The water purification team should ideally test their sensor calibration using actual contaminated water samples. The milk chilling can team must perform a strict power consumption analysis to prove the device can run on accessible rural power sources.

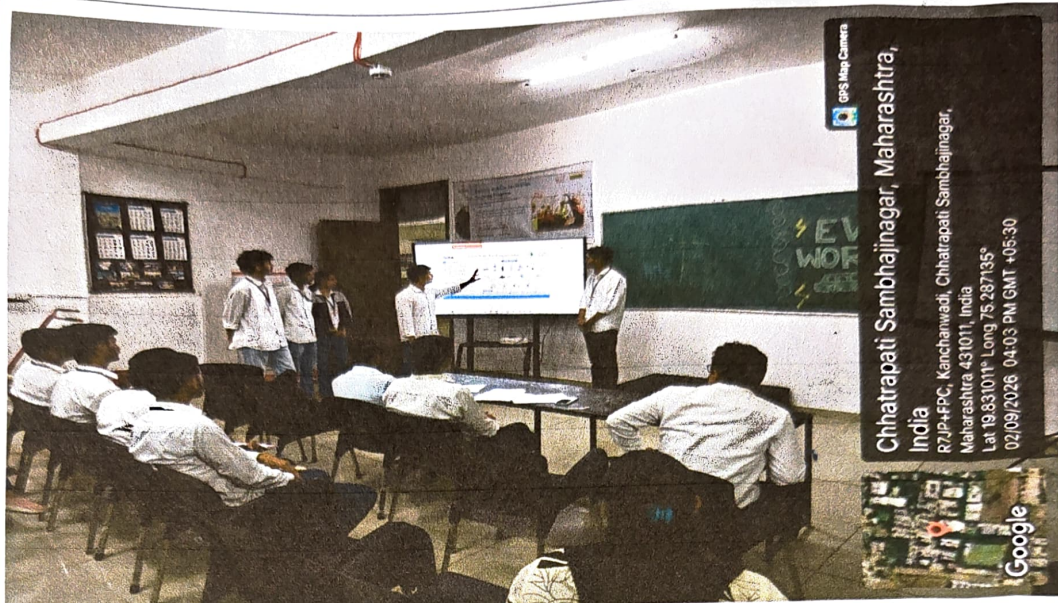
Conclusion:

The department-level round for SIH 2026 was highly successful in surfacing high-quality engineering talent. The shortlisted projects—focusing on clean water and dairy preservation—show immense potential not just for the hackathon, but as viable start-up prototypes. These teams are well-prepared to represent the institution at the national level.



Photo:





Geotag - Photographs of Department Level Innovative Project Idea Internal Hackathon on 02nd September 2026.

Enclosure:

1. Copy of Official Event Circular .

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Acitivity Report
Prepared by
 Prof. R. R. Gadappa
 Dept. Coordinator

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 HOD

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 Prof. P. D. Sathya
 SIH - SPOC

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Approved By
 Dr. G. B. Dongre
 Principal