MSME Idea Hackathon 5.0 **19-09-2025**

REPORT

The Ministry of Micro, Small and Medium Enterprises (MSME), Government of India, launched the MSME Idea Hackathon 5.0 to identify and support innovative ideas from students, faculty, and entrepreneurs in various domains. As a Host Institute (HI) under the MSME Innovative Scheme, ACS College of Engineering (ACSCE), Bengaluru, organized the screening and evaluation process for ideas submitted under the five major themes to foster innovation in:

1. Low-carbon footprint solutions/technologies
2. Stealth, surveillance and cyber defense technologies
3. Innovation in adoption of Industry 4.0 & 5.0 in MSMEs
4. Innovation for business upliftment & sustainability in coastal and hilly areas
5. Smart and resilient supply chains

Orientation and Planning

An Orientation and Planning Meeting was held on 2nd July 2025 at the ACSCE Board Room to strategize the promotion and participation plan for the MSME Idea Hackathon 5.0. The meeting focused on providing an overview of the Hackathon, outlining the roles and responsibilities of the Host Institute, and devising an effective promotion and registration strategy to ensure widespread participation. Discussions were also held on theme-wise departmental targets and designing a structured approach to encourage active involvement of students and innovators. The session was attended by

1. Dr.A.K. Mariappan (Rector,RRGI)
2. Dr S Meenakshi Sundaram (Registrar,RRGI)
3. Dr. Anandthirtha B.Gudi (Principal,ACSCE)
4. Dr. P.Bhuvaneswari (Incubation Manager)
5. Prof. Manju Davy (Incubation Associate)
6. Dr. Vijaya S M (HOD-ECE)

7. Dr.Nandagopal (HOD- CSE)
8. Dr.B.B.S Kumar (HOD CSE-DS)
9. Dr.Janani (HOD BCA)
10. Mrs.Nagashree Pavan (Asst.Prof -BME)
11. Dr.Hariharasudhan V G (Associate Prof –BME)
12. Mr.Abhishek K (Asst.Prof - BME)
13. Mrs.Sangeetha K P (Asst. Prof –CSE CY)
14. Mrs.Sasikala (Asst Prof – CSE IoT)
15. Dr.Gandimathi (Associate Prof CSE -DS)

As part of the action plan, it was decided to initiate social media promotions by 3rd July, conduct department-wise orientation sessions by 4th July, collect student and innovator data and set up an internal review panel by 10th July to streamline the evaluation process.

Constitution of Screening & Evaluation Committee:

As per MSME guidelines of MSME Idea Hackathon 5.0, a Screening & Evaluation Committee was constituted dated 27th July comprising:

Academicians

- Dr S Meenakshi Sundaram , Registrar, ACS College of Engineering, KAMBIPURA, Mysore Road, Bengaluru, Karnataka 560074
- Dr.Janani, Associate Professor, ACS College of Engineering, KAMBIPURA, Mysore Road, Bengaluru, Karnataka 560074
- Dr. Sivasundarapandian.S, Associate Professor, Dept of ECE, ACS College of Engineering, Kambipura, Mysore Road, Bengaluru, Karnataka 560074
- Dr. Subash Chandrabose, Associate Professor, ACS College of Engineering, KAMBIPURA, Mysore Road, Bengaluru, Karnataka 560074

Sector / Thematic Experts

- Dr.A.K. Mariappan, Rector, ACS College of Engineering, KAMBIPURA, Mysore Road, Bengaluru, Karnataka 560074

- Dr.Nandagopal , Professor, ACS College of Engineering, KAMBIPURA, Mysore Road, Bengaluru, Karnataka 560074
- Dr. Anandthirtha B.Gudi, Principal, ACS College of Engineering, KAMBIPURA, Mysore Road, Bengaluru, Karnataka 560074

Industry Experts

- Mr. S. Shanmugasundaram, Founder, M/S Goldnwelkin Private Limited, Coimbatore
- Mr. E. Sankar – Manager, Inclusive Technology Business Incubator, KR Innovation Centre, Tuticorin District
- Mr. Valluvan – Managing Director, Vyasaka Technologies Pvt. Ltd., Chennai
- Mr. R. Jeyavenkatesh – Project Manager/Audits, CGSGreen, SustainergyPvt. Ltd., Chennai

Entrepreneurs

- Mr. Manohar – Founder, Mano Innovation Club, Kovilpatti
- K P Ajay Sabargireessh Director AsKabhi Technologies Pvt Ltd
- Mr. Arun Venkatesh – Founder, M/s Karyoun Innovation Pvt. Ltd., Tiruppur
- Mr. K. P. Ajay Sabarigireessh – Director, Askabhi Technologies Pvt. Ltd.
- Mr. Ajay Ganesh – Founder, Blaze Delivery Pvt. Ltd., Sivakasi

Finance Experts

- Dr. Sowmya G – Associate Professor, Dept. of MBA, Rajarajeswari College of Engineering, Bengaluru
- Ms. S. Sushma Rawath – Assistant Professor, Dept. of MBA, Rajarajeswari College of Engineering, Bengaluru
- Ms. Subha R – Assistant Professor, Dept. of MBA, Rajarajeswari College of Engineering, Bengaluru
- Ms. Deepika N – Assistant Professor, Dept. of MBA, Rajarajeswari College of Engineering, Bengaluru

Screening and Evaluation Process

- Evaluation meetings were conducted between 11th August to 2nd September 2025 in online and offline modes.
- Each idea was reviewed by a panel of 3–5 experts as per MSME's evaluation guidelines.
- Experts evaluated on innovation, feasibility, sustainability, scalability, and socio-economic impact.
- Scores are recorded and 50 ideas were selected from various themes and intimated through google forms and finally 40 ideas were selected and remarks were uploaded on the MSME Innovative MIS portal before 15th September 2025.

External Mentorship by Dr.G.Vinoth

Dr. G. Vinoth, Chief Start-up Designer, Pongu Ventures Private Ltd., Chennai, and Mrs.Preethi ,Co Founder, Pongu Ventures Private Ltd., Chennai played a vital role in guiding the external evaluation process. At the initial stage, he provided a compilation of 100 innovative idea concepts along with their objectives and unique features, which was circulated among all departments of ACSCE. This served as a strong motivational base for students and innovators to actively participate in the MSME Idea Hackathon 5.0. He supported with the industry experts, financial experts and entrepreneurs for scrutinising the final 50 shortlisted ideas through online/offline evaluation sessions. The online meetings through Google Meet were held on 04.07.2025, 07.08.2025, 11.08.2025, and 20.08.2025, along with several follow-up discussions through phone calls. He also visited our Institution in person on 03.09.2025, 04.09.2025 and provided hands-on guidance to the student teams in refining their idea submissions and guided the faculties in completing the MSME portal uploading procedures including making Minutes of Meeting (MoM) for all 5 different themes. With his support, all the shortlisted ideas were successfully reviewed, refined, and uploaded on the MSME portal before the due date of 15.09.2025, ensuring quality and compliance in the final recommendations.

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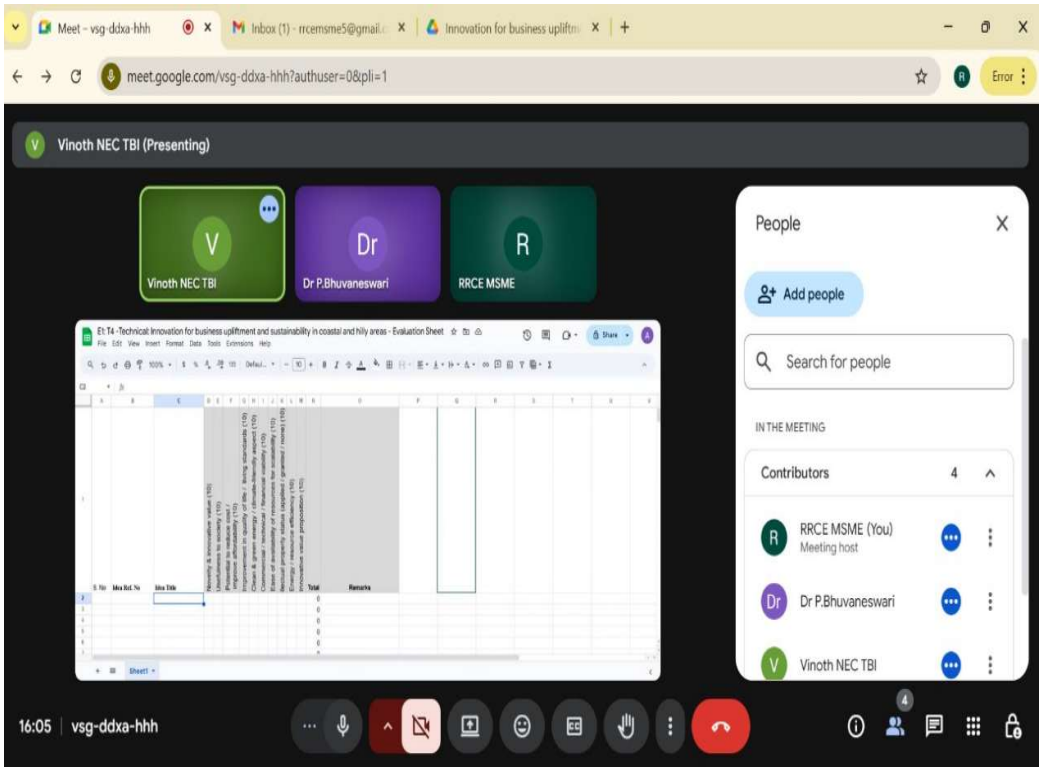

Online Meeting held on 11.08.2025

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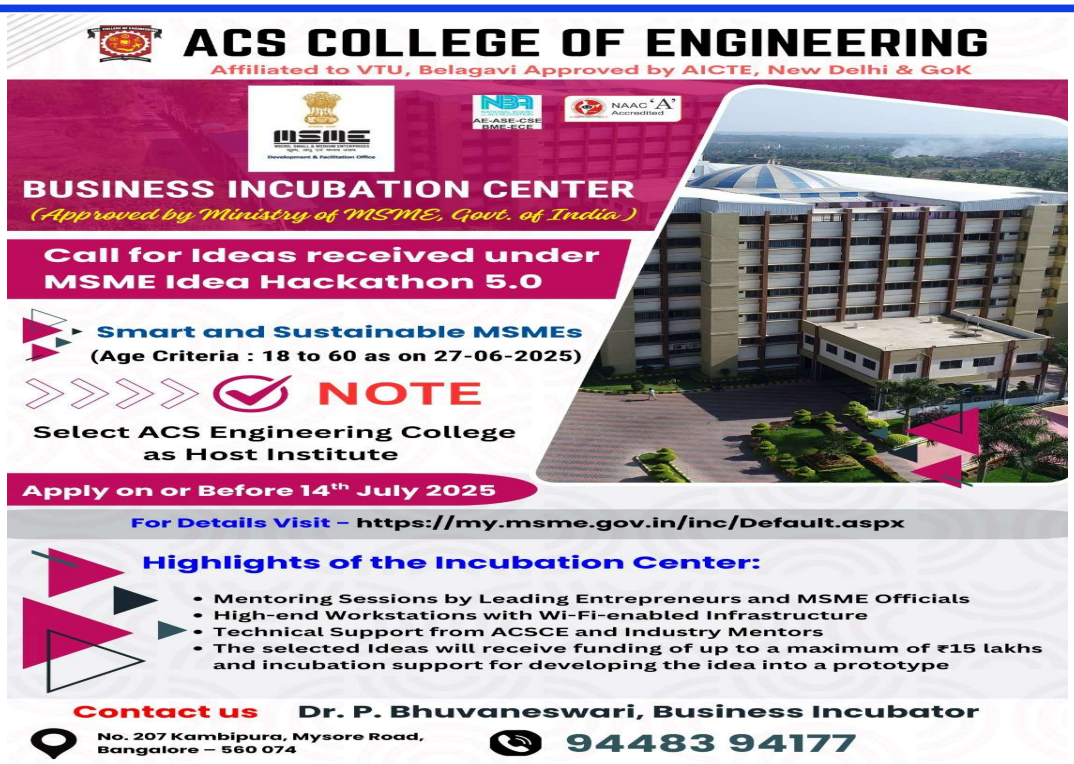



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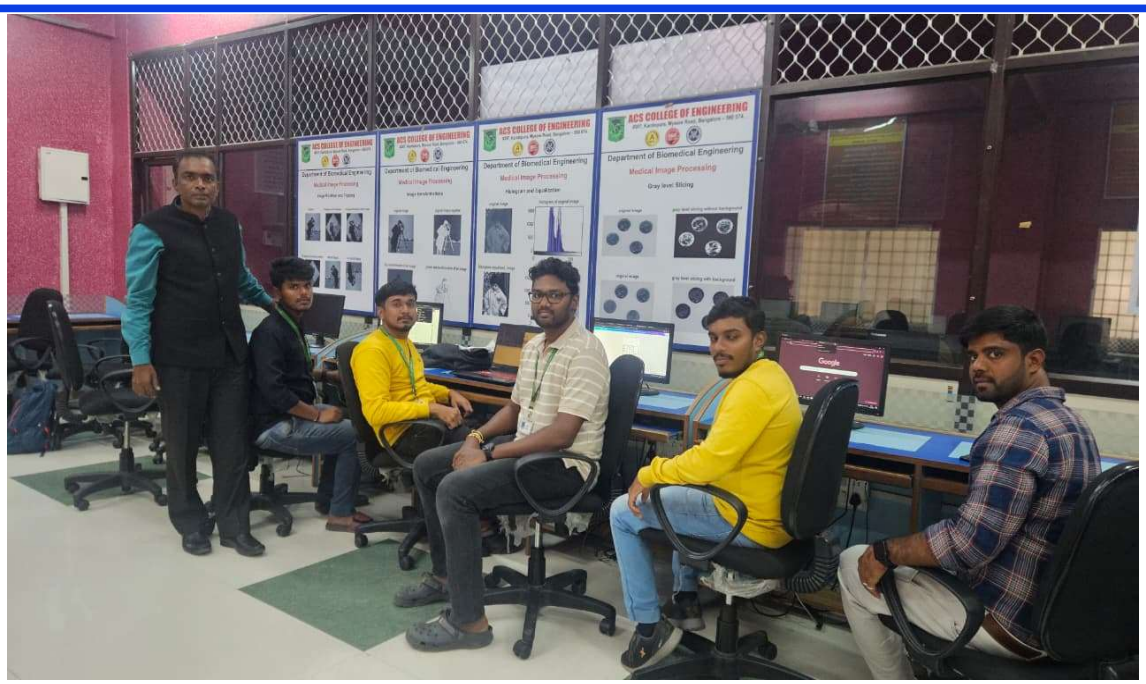
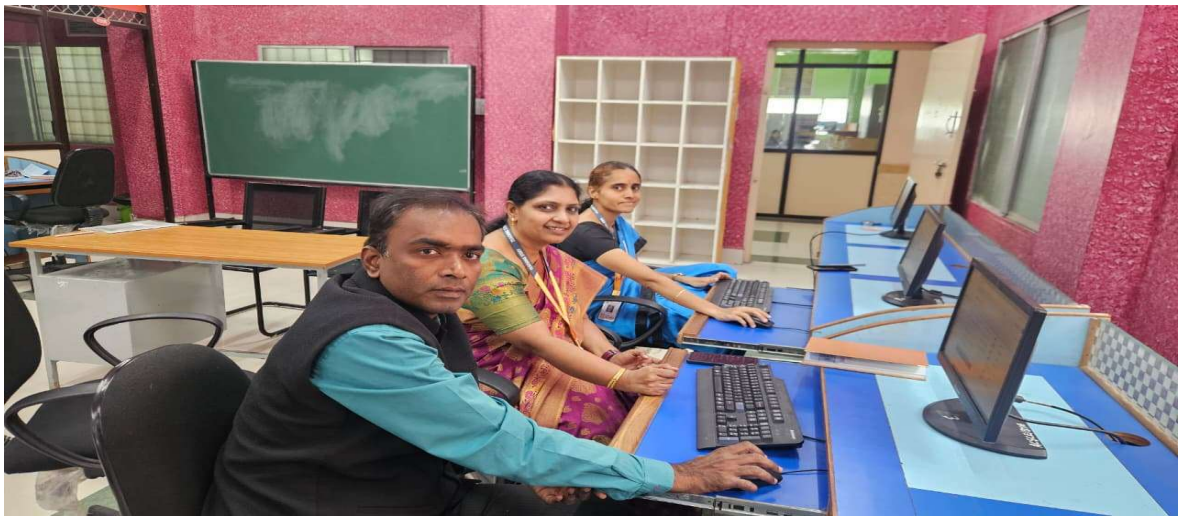


Dr.G Vinoth visited our Institution in person on 03.09.2025 hands-on guidance to the student teams in refining their idea submissions and guided the faculties in completing the MSME portal uploading procedures



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Dr.G Vinoth visited our Institution in person on 04.09.2025 hands-on guidance to the student teams & faculties in refining their idea submissions and guided the faculties in completing the MSME portal uploading procedures

Summary of Ideas Evaluated

Particulars	Count
Total Ideas Received at HI Level	140
Ideas Recommended for Next Stage	40
Ideas Not Recommended	100

Summary of Ideas Received

Particulars	Count
Total Ideas Received by students	28
Total Ideas Received by faculty	9
Total Ideas Received by entrepreneur	3

Ideas Recommended for MSME Hackathon 5.0

S. No	Reference No. of Incubatee	Incubatee Name	Title of Idea
1	1INC25EKR118865	Tarun Raj	Bio-Restorable Thermoplastic Polymer Based
2	INC25EKR089741	Kavya VK	Agri Weave -Eliminating Waste in 2 sectors with one solution
3	INC25ETN119452	Vinoth	The Unified Digital Platform for Climate and Environmental Credit Trading
4	INC25EKR084702	Nagashree Pavan	Compostable Biodegradable Packaging for Medicines
5	INC25EKR115267	Shiva Shakthi S	Bio Inspired Cooling Systems
6	INC25EKR094699	Bilvashree D S	Self Healing AI Driven UAV for Autonomous Aerial Surveillance and Damage Recovery
7	INC25ETN114632	Sundar Ram R	SkyGuardian Avian Friendly Unauthorized Drone Catcher Using Advanced Suction Technology
8	INC25EKR083877	Sweta Pathak	Real Time DDoS Attack Detection and Mitigation
9	INC25EKR099731	Mohammed Abdul Haseeb	Stealth Drone Medical Delivery System for Hostile and Disaster Hit Areas
10	INC25EKR078391	Vidya Hegde	Mini Reconbot For Soldiers To Navigate Rugged Spaces
11	INC25EKR084550	Nagashree Pavan	End to end encrypted platforms with block chain based access control for storing and sharing sensitive biomedical/genetic data

12	INC25EKR085918	Supriya R	Secure Farm AI Powered Drone Surveillance for Smart Agriculture
13	INC25EKR078384	Asiya Mansoor Dau	AI Enabled Combat Rescue Drone System for Battlefield Support
14	INC25EKR083614	Varsha Basavaraj	Bio Inspired Aerodynamics Mimicking Butterfly Scales To Reduce Aircraft Drag With Cfd Analysis And Wind Tunnel Validation
15	INC25EKR083373	Shivacharan Holla N	Surveillance drone system to monitor illegal mining and deforestation activities
16	INC25EKR081633	P.Bhuvaneswari	Revolutionizing Healthcare Efficiency and Communication with Autonomous Multi functional Robots
17	INC25EKR094521	Sharan C	Integrated Stealth, Surveillance, and Cyber Defense Technologies to enhance security in defense and information space
18	INC25EKR093393	Sandeep A S	Sugarcane Harvesting Micro Machines and Tool for Marginal and Small Scale Farmers
19	INC25ETN117467	Balamurugan Mariappan	TOUCH TALK Low Cost AI Powered Touch-to Talk Device for the speech impaired.
20	INC25EKR107165	Reshma B	AR Anatomy Explorer Interactive 3D Anatomy Learning
21	INC25EKR093206	Gayathri L	AID meter A smart, portable medical device blood sugar, hemoglobin, and cholesterol monitoring
22	INC25EKR117810	Vaishnavi Sarvottam Hodlur	DETECTO RECO a deep learning IOT model for blind people Visualization
23	INC25EKR085698	Avani K S	Smart Helmet For Factory Workers For Health Monitoring

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24	INC25EKR100647	Akash M	Vortex Verify AI Powered Micro Fraud Detection for MSME Digital Payments
25	INC25EKR088584	Manju Davy Ezhekadan	Smart Self Cleaning Toilet System for Trains
26	INC25EKR077330	Dhanush P	Smart MSME Dashboard Real Time Business Intelligent using Data Analytics
27	INC25EKR075139	Vimal Vardhan	Smart Safety System with Collaborative Robots for MSME industries
28	INC25EKR087136	P.Bhuvaneswari	Techno Socio Interventions for Tribal Empowerment and Sustainable Livelihoods in hilly regions
29	INC25EKR096240	K.P.Sangeetha	Smart Cold Storage Box for Micro Farmers Using IoT & Solar Power
30	INC25EKR081870	Arbin Fathima	Blue Resilience Model AI driven climate modeling and sensing for ocean adaptation
31	INC25EKR113857	P.Bhuvaneswari	Development of an Automated Instrument for Real Time Groundwater Monitoring and 3D Aquifer Mapping
32	INC25EKR076289	Kevin Rufus Kumar	Implementation of a Solar Powered Hydroponic System for Sustainable and Resource Efficient Agriculture
33	INC25EKR092264	Rishabh Ranjan	A Hyper local Early Sensitive Regions Warning & Business Continuity System for MSMEs in Climate
34	INC25EKR073015	Chaitra Gubbi	Smart Voice Enabled Pill Box for Rural Elderly and Alzheimer's Patients
35	INC25EKR097421	Hariharasudhan	Development of a voice enabled smart assistive system for elderly and visually impaired individuals in challenging terrains

36	INC25EKR078274	Vidya Hegde	Safe Step – Smart Walking Stick with Emergency Alert (PHYSICALLY DISABLED)
37	INC25EKR085835	Abhishek K	Harnessing Ocean Based Renewable Energy for Clean Power and Coastal Resilience
38	INC25EKR084179	Shantanu Gorai	Rural Route Making villages strong and self through smart delivery planning
39	INC25EKR080760	Lisha S	RFID (Radio frequency identification) enabled storage racks in pharmacies and hospitals for automatic real time tracking of stock levels and expiry
40	INC25EKR087631	Navaneetha M	Green and Smart A Framework for Eco Resilient Supply Chain Management

Instructions to Host Institute (HIs) for shortlisting ideas received under MSME Idea Hackathon 5.0. (Download)

Formats for Constitution of Screening & Evaluation Committee and Minutes of Meeting of Evaluation Commitee. (Download)

In case after evaluation , If no ideas is found to be recommended at HI level, then upload minutes of meeting of the evaluation committee. click here

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Outcomes and Impact

- ACSCE identified and recommended 40 innovative ideas from 140 submissions.
- Enabled innovators to become eligible for MSME funding up to ₹15 lakhs.
- Built an institutional ecosystem fostering entrepreneurship and sustainable innovation.
- Enhanced student-industry interaction and visibility at the national level.

The MSME Idea Hackathon 5.0 at ACS College of Engineering has been successfully executed in line with the MSME Innovative Scheme objectives, contributing to smart, sustainable, and low-carbon innovations.We extend sincere thanks to our management, Dr.S.Usha, MSME Incubation SPOC,RRGI ,Dr.G.Vinoth,External Mentor and all experts, mentors, faculty coordinators and students who contributed to this initiative.

19/9/25

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