









INSTITUTION'S INNOVATION COUNCIL



MSME HACKATHON 5.0 Internal Screening

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Facebook/Twitter/Instagram/LinkedIn	/set=a.561293142790722			
Program Driven by	Self -driven activity			
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Celebration Activity/Self driven activity				
Event Title	MSME Hackathon	5.0 – Internal S	Screening	
Resource Person	Mr.P. Ashok Ku	mar , CEO –	TECHOWN	
	Mr.Dhamodaran	,		
	Service Delivery	Manager in S.	AP QA. TCS	Chennai
	Mr.Harshvardha			
	Associate princi	ipal , LTIMiı	ndtree	
	Dr.L.Prabhu , AVI	Γ		
Academic year	2024-2025		Quarter	IV
Program Type				
Level 1 - Expert Talk/ Exposure Visit/				
Mentoring Session (2 to 4 Hours)				
Level 2 – Conference / Exposure Visit /	Level 3 – Competition			
Seminar / Workshop (5 to 8 Hours)				
Level 3 – Bootcamp/ Competition/ Demo				
Day/ Exhibition / Workshop (9 to 18 Hours)				
Level 4 – Challenges/ Hackathon/ Tech				
Fest (Greater than 18 hours)				
Program Theme				
IPR & Technology Transfer / Innovation &				
Design Thinking / Entrepreneurship &	Innovation & Desig	n Thinking		
Startup / Pre-Incubation & Incubation				
Management				
Start date & End Date (DD/MM/YYYY)	19/08/2025 20/08/2025			
Duration of the activity (in Mins) & Start				
Time & End Time	450 minutes 9:30 a.m 03:30 p.m		.m	
Participants	Faculties – 12 Students -2			
	teams	teams		
Mode of session	HYBRID			
(online / offline)				
* Online Video Url compulsory				

Event Organizer / Coordinator Faculty Name / Department / Designation	Dr.L.Prabhu , MSME Business Incubator, AVIT
Target Participants	Students & Faculty participation from AVIT, and external MSME sector
Outcome	Applicants may get funding support up to 15 Lakhs if their idea get selected
Benefits in terms of learning/skill/Knowledge obtained (150 letters only)	Incubatee has taken the feedback of the evaluator to refine their ideas further
Expenditure Amount, If any	Rs.5000

Theme - • Low-Carbon Footprint Solutions/Technologies

- Stealth, Surveillance, and Cyber Defense Technologies
- Innovation in Adoption of Industry 4.0 & 5.0 in MSME Ecosystem
- Innovation for Business Upliftment and Sustainability in Coastal and Hilly Areas
- Smart and Resilient Supply Chains

Details of the Ideas

S.	Reference No. of	Incubatee name	Title of Idea	Key Takeaways from the Idea
No	Incubatee			
1	INC25ETN12015 8	RAMU K Sonu Ram Radhika	Onboard Waste	The idea "AI-based Automated KMS—Device to Decision" is unique as it provides a novel, cost-effective, and scalable solution for MSMEs and academia. By leveraging AI, IoT, and BOTs, it automates knowledge capture and decision-making, reduces human dependency, supports differently-abled learning, and ensures efficiency with high social and business impact.
2	INC25ETN07476 1	SARAVANAN M	Waste Segregation	The idea "Smart Onboard Waste Segregation System for Municipal Corporation Vehicles" is highly regarded as it addresses the pressing challenge of unsegregated municipal waste through a cost-effective, retrofittable, and scalable solution. By enabling real-time in-transit segregation with low-cost sensors and modular design, it reduces landfill burden, minimizes manual handling, and

				supports Swachh Bharat Mission and Smart Cities initiatives. With a functional prototype and strong market potential, the project offers both high environmental impact and practical feasibility for MSME adoption.
3	INC25ETN09804 4	DR.SHANMUG ASUNDARAM SARAVANAN	5 DDEDICTION	The idea "PREDVITTAL25 – Prediction of Vital Sign Parameters like Blood Pressure during Dialysis" is innovative as it addresses a critical healthcare challenge of intradialytic hypotension through a novel AI-driven predictive system using optical and ultrasound sensors with ANN mapping. The solution is innovative, patent-supported, and has strong applicability in hospitals and dialysis centers. With high potential to reduce patient mortality, improve dialysis safety, and offer scalable commercialization in the growing medical devices market, it demonstrates both technical novelty and strong societal impact, making it a suitable choice for health care.
4	INC25ETN07186 0	SARAVANA KUMAR M	Design, Fabrication, and Evaluation of a Low-Cost Powered Trolley	The idea "Design, Fabrication, and Evaluation of a Low-Cost Powered Trolley" is very much required in industry as it offers a practical, affordable, and scalable solution for small industries, warehouses, hospitals, and campuses. By using locally available components and simple fabrication methods, it reduces manual labor, improves productivity, and enhances worker safety. With strong market potential in logistics and material handling, the innovation demonstrates feasibility, cost-effectiveness, and social impact, making it a suitable choice under MSME Hackathon 5.0.
5	INC25ETN07470 7	SANGEETHA KRISHNAMOO RTHI	Monitor for Engine Oil Level	The idea "Smart Sense Intelligent Monitor for Engine Oil Level and Viscosity in Two-Wheelers" the need of

				improves engine life, reduces repair costs, and supports sustainability through optimized oil usage. With strong market potential across OEMs, aftermarket, and fleet operations, and backed by advanced prototype development and clear IPR strategy, the solution is both impactful and commercially viable.
6	INC25ETN09346 0	Padmapriya Arumugam	Smart Carbor Traps Biomass- Derived Nanocomposites for India Net- Zero Future	The idea "Smart Carbon Traps—Biomass-Derived Nanocomposites for India's Net-Zero Future" is a sustainable, innovative, and scalable solution for carbon capture and pollution control. By transforming banana waste into carbon quantum dots integrated with MOFs, the project ensures waste valorization, low-cost production, and multifunctional applications such as CO ₂ capture pollutant sensing and IoT-
7	INC25ETN09350 5	S.Sona	Aspholt- Waste to Way Binder for Greener Infrastructure	Deriormance road binder mai emiances
8	INC25EAP100154	N.V.S.R SANNIDH	NIKOLA – True Wireless Air Charging Technology	The idea "NIKOLA – True Wireless Air Charging Technology" is a novel, app- controlled RF-based charging system that eliminates the limitations of wired and contact-based charging. With a large target

11	INC25ETN094103	Thiyagarajan Purushotham	Carbon capture for Atmanirbhar Bharat Nanotech from Agricultura waste	The idea "Carbon Capture for Atmanirbhar Bharat" introduces a green nanotechnology solution that converts agricultural waste into carbon quantum dot—based composites for efficient CO ₂ capture. This sustainable
10	INC25ETN108180	Keerthi P	Development of Solar-Integrated Hybrid Cooling Panels with Waste Oil-Derived Phase Change Materials and Machine Learning-Based Performance Prediction	The idea "Development of Solar-Integrated Hybrid Cooling Panels with Waste Oil-Derived Phase Change Materials and Machine Learning-Based Performance Prediction" introduces a unique, sustainable cooling technology by converting waste oils into bio-based
9	INC25ETN101691	P.SUBATHRA	Development of Sustainable Composite eco Bricks from Demolition Waste, Polycarbonate, and Nutmeg Powder	strong commercial potential and technological uniqueness, making it a high-impact solution under MSME Hackathon 5.0. The idea "Sustainable Composite Eco-Bricks from Demolition Waste, Polycarbonate, and Nutmeg Powder" offers a novel, eco-friendly, and cost-effective construction solution that converts waste into value. By integrating demolition debris, recycled plastics, and bio-based nutmeg powder, the bricks achieve high strength, thermal insulation, antimicrobial resistance, and reduced carbon footprint. With strong potential in housing, healthcare, smart cities, and green infrastructure, the innovation aligns with circular economy, waste-to-wealth initiatives, and SDGs, making it highly impactful and scalable for MSME adoption.
				market of smartphone users, first-mover advantage in India, and scalability toward EVs and IoT devices, the innovation holds

12	INC25ETN070794	PA SURIYA		The idea "Carbon Capture in Urban Green Spaces" presents a sustainable civil engineering solution that integrates vertical gardens, green roofs, and bioswales with IoT and GIS-based monitoring systems. It addresses critical urban challenges such as air pollution, heat islands, and stormwater management while enabling real-time measurement of carbon capture. Scalable and adaptable for smart cities, campuses, and industrial zones, the concept strongly aligns with SDGs on sustainable cities and climate action, offering both environmental and societal impact.
13	INC25EAP079680	velpui venkat narayana	EchoSions Let	EchoSigns is an Al-powered mobile application that bridges the communication gap for deaf and speech-impaired individuals through real-time sign detection, voice-to-sign, and text-to-speech translation with English and Telugu support.
14	INC25ETN076691	Vidya J	Micro Factory for Wash and cosmetic products	The proposed micro factory introduces a sustainable, container-based model powered by 100% green energy with zero liquid discharge, using locally sourced herbal ingredients and biodegradable packaging. It creates employment for marginalized women and tribal

Tiruporur, Chengalpattu, 603104, Tamil Nadu, India

Latitude 12.657852° Local 11:21:43 AM Altitude 8, GMT 05:51:43 AM Tuesday, 1 Note: MSME Kackathon 5.0-Initial Screening

Longitude 80.173850° Altitude 8.4 meters Tuesday, 19-08-2025

GPS (GPS Tiruporur, Chengalpattu, 603104, Tamil

Nadu, India

Latitude 12.655750°

Longitude 80.168542° Local 11:12:49 AM Altitude 8.4 meters GMT 05:42:49 AM Tuesday, 19-08-2025 Note: MSME Kackathon 5.0-Initial Screening



Tiruporur, Chengalpattu, 603104, Tamil Nadu, India

Latitude 12.656251° Local 11:12:38 AM Altitude 8.4 meters GMT 05:42:38 AM Tuesday, 19-08-2025 Note: MSME Kackathon 5.0-Initial Screening

Longitude 80.169717°



Tiruporur, Chengalpattu, 603104, Tamil Nadu, India

Latitude 12.658592°

Local 11:04:53 AM GMT 05:34:53 AM

Longitude 80.172772° Altitude 8.4 meters Tuesday, 19-08-2025

Note: MSME Kackathon 5.0-Initial Screening



