

KVCET **IDEA HACKATHON** 2025

Peer Group Project Internal Selection Round



Whats the deal?

An internal screening to select top peer group projects for inter-college and national innovation contests.



How to participate?

Open to all departments; teams of 4-6 must pitch their idea (oral or PPT) and submit a concept note at registration.



Selection Criteria!

Judging will be based on originality, societal/industrial relevance, feasibility, and team presentation.

Theme

- Smart Automation
- Medtech / Biotech / Healthtech
- Agriculture, Foodtech & Rural Development
- Smart Vehicles
- Robotics and Drones
- Renewable / Sustainable Energy
- Blockchain & Cybersecurity
- Smart Education
- Disaster Management
- Space Technology

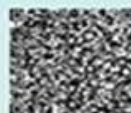
19th August, 2025

10:00 a.m. to 2:00 p.m.

**IoT Laboratory & IQAC Office
KVCET**



Have an idea that can change the future?
Step up. Pitch it. Build it. Register now and make it happen.





KARPAGA VINAYAGA

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai and Accredited by NAAC 'A')
GST Road, Chinnakolambakkam, Madhuranthagam Taluk, Chengalpattu District – 603 308, Tamil Nadu



Report on “IDEA HACKATHON”

Internal Screening for Peer Group Projects (2025–2026)

Academic Year:2025-26

Semester: ODD

Name of the Event	Idea Hackathon - Internal Screening for Peer Group Projects
Date of Event	19.08.2025
Organized by	Karpaga Vinaya College of Engineering and Technology
Type of Event	Idea Hackathon
Event Venue	IQAC Hall & IoT Lab
Resource Person Details	Dr. S. Dinesh Kumar, Associate Dean – Accreditation Dr. R. DelshiHowsalya Devi - Professor and Head/ADSMs.PriyankaChemudugunta – Assistant Professor/RA Ms. K.S.Abbirame- Assistant Professor/BME
Faculty Coordinator	Dr.Karthigairagan/ASP/AUTO Mr.S.Tharmalingam/AP/RA
No. of participants	120
Beneficiary	KVCET Students
Objectives of the event	<ul style="list-style-type: none">✓ To encourage students to propose real-time, problem-solving project ideas.✓ To identify technically strong and innovative concepts for further mentoring.✓ To promote multidisciplinary collaboration among peer groups.✓ To prepare teams for state-level and national-level hackathon participation.✓ To build a culture of innovation, research, and application-oriented learning.

About the Idea Hackathon

The 2025 Idea Hackathon, hosted by Karpaga Vinayaga College of Engineering and Technology (KVCET), is an exciting opportunity for students to showcase their skills in software and hardware development. The Internal Screening for **IDEA Hackathon – Peer Group Projects (2025–2026)** was conducted on **14th August 2025** from **10:00 AM to 03:00 PM** with the objective of identifying innovative, feasible, and socially impactful project ideas from students across various departments. The screening aimed to shortlist potential teams for external participation and to guide them toward prototype development.



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A total of **32 teams** actively participated in the event, representing departments such as Mechanical Engineering, Robotics & Automation, ECE, EEE, CSE, IT, and allied programs. Each team submitted an abstract detailing the problem statement, proposed solution, methodology, and expected outcomes.

The screening process involved two stages—idea submission and presentation. During the presentation round, each team showcased its concept before an expert panel. Projects were evaluated based on **innovation, technical feasibility, societal relevance, clarity in presentation, and scope for implementation.**

After detailed evaluation, the best-performing teams were shortlisted for the next stage. These selected teams will receive mentoring support to refine their concepts, prepare detailed proposals, and compete in state- and national-level hackathons. The shortlisted ideas addressed key areas such as smart agriculture, AI-based monitoring systems, sustainable solutions, robotics automation, and industrial applications.

The event successfully encouraged creativity, teamwork, and interdisciplinary collaboration. It also provided students a platform to convert real-world problems into practical engineering solutions. The Internal Screening concluded with appreciation for the enthusiastic participation of students and the valuable support of faculty members who served as evaluators and mentors.

Outcomes of the Screening

- ✓ Identification of student teams with strong potential to compete in external hackathons.
- ✓ Motivation among students to develop technically viable prototypes.
- ✓ Enhanced innovation culture across departments.
- ✓ Strengthened interdisciplinary learning through peer group collaboration.
- ✓ Foundation laid for further mentoring, training, and proposal development.



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JURY PANEL MEMBERS



Dr. S. Dinesh Kumar, Associate Dean – Accreditation at Karpaga Vinayaga College of Engineering and Technology, is a distinguished academican with over 25 years of teaching and research experience in the field of Mechanical Engineering. He has been instrumental in enhancing curriculum standards, promoting outcome-based education, and strengthening academic quality across the institution. His expertise covers core mechanical engineering as well as interdisciplinary research domains. Dr. Dinesh Kumar has guided numerous UG, PG scholars and has published several impactful papers in reputed national and international journals. He plays a key role in accreditation processes, academic auditing, and strategic academic planning. Known for his dedication to innovation, academic excellence, and continuous improvement, he contributes significantly to the growth and reputation of the institution.



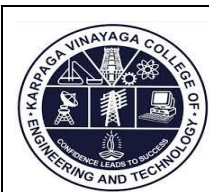
Dr. R. Delshi Howsalya Devi is a professor and head of the Department of Artificial Intelligence and Data Science at Karpaga Vinayaga College of Engineering & Technology. She holds a PhD in Information and Communication Engineering from Anna University and has 18 years of teaching experience. With 59 conference publications, 35 journal articles, and 28 patents, her research interests include data mining, big data analytics, AI, machine learning, and deep learning. She has received the national “Young Educator and Research Scholar” award and actively contributes to various journals and conference



Ms. Priyanka Chemudugunta is an Assistant Professor with over 12 years of academic and research experience, primarily in the fields of Mechatronics, Robotics, and Automation. She completed her M. Tech in Mechatronics from VIT University, Vellore, and a B. Tech in Electronics and Communication Engineering from JNTU Anantapur. Throughout her career, she has filed two patents, published 11 research papers, and organized two workshops. Priyanka has made significant contributions to robotics, including the establishment of a Robotics Lab at VIT Chennai and leading projects such as the LIBBOT, a robot for library monitoring. She has also served as the faculty advisor for the Robotics Club at VIT and participated in multiple robotic competitions like ROBOCON. Her research interests lie in automation, robotic prosthesis, MEMS, and unmanned vehicles.



Ms. K.S. Abbirame is an accomplished Assistant Head in the Department of Biomedical Engineering with 10 years of teaching and research experience. She has contributed significantly to student learning and academic growth through her expertise in biomedical instrumentation and healthcare technology. Actively guiding innovative student projects in robotics and automation for healthcare, she has published in reputed journals and presented at conferences. Known for her mentoring and leadership skills, she encourages students to explore interdisciplinary solutions and fosters a culture of innovation. She has also played a key role in curriculum development and laboratory enhancements. Her dedication to education and research continues to inspire both students and colleagues.



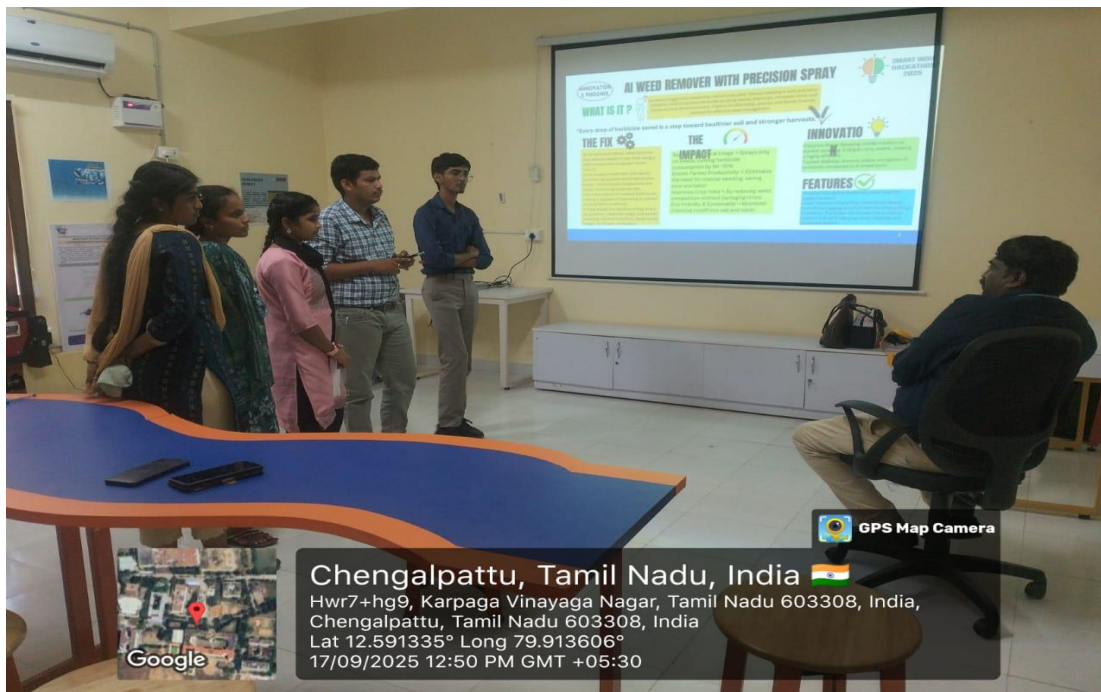
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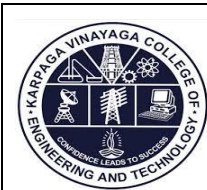
PHOTOS



Expert evaluation in action: Dr. S. Dinesh Kumar, Associate Dean – Accreditation, guiding innovative minds at the Idea Hackathon.



Focused evaluation by Ms. K.S. Abhirame, Head/BME, at the Idea Hackathon 2025



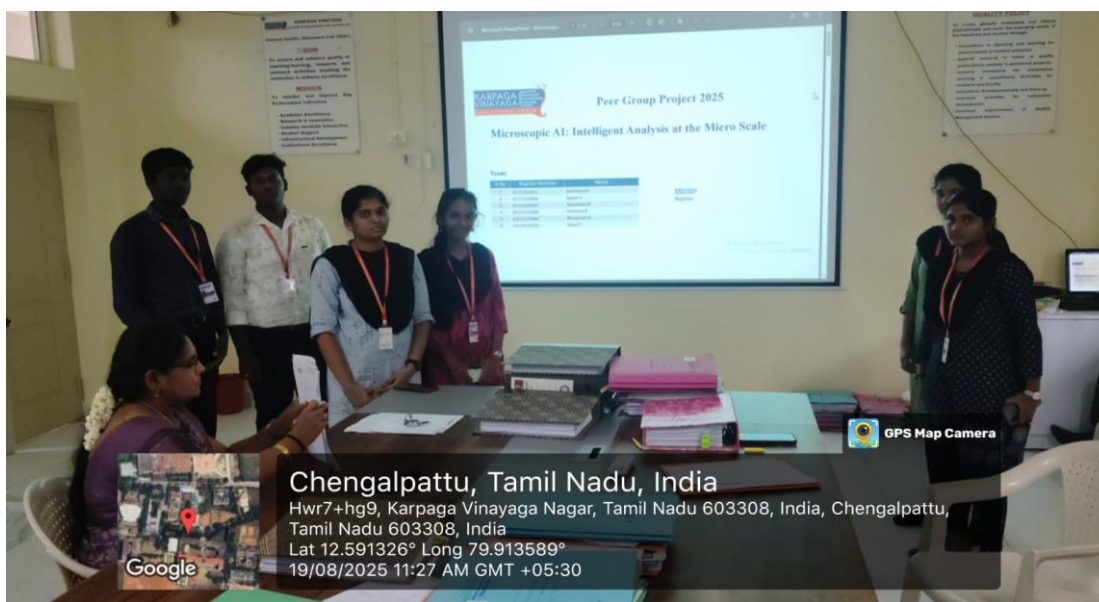
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Ms. Priyanka Chemudugunta, Assistant Professor/RA, engaging with participants to evaluate breakthrough ideas.



Insightful feedback by Dr. R. DelshiHowsalya Devi, Professor & Head/ADS, during project assessments at the Hackathon.



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The following teams have participated in Internal Hackathon

SIH ID/THEME	IDEA TITLE	TEAM NAME
Assistive Technology / AI	Automated Motorized IV Infusion Control System	Medibotics
Green / Sustainable Tech	A-Rox - Printing Automation	A-ROX
Assistive Technology / AI	Smart Ration Booking (App)	BrightMinds
Green / Sustainable Tech	Nextgen Hospital ERP System	HMS Innovators
IoT / Communication Technology	Smart Question Generator	Hufflepuff
Smart Automation / AI	Microscopic AI: Intelligent Analysis at the Micro Scale	GRYFFINDOR
MedTech / HealthTech	Chat To Sql: Natural Language For Db	Windbreakers
Biotech / HealthTech	Ai Powered Student Chatbot For Academic Assistance	EDUNOVA
Entrepreneurship / Innovation	TrivionMentorbot - An Emotional Support And Guidance Companion	Trivion
Smart Automation / AI	Sign2speech: Ai-Powered 2d Animated Sign Language Translator	ChiroVox
Green / Sustainable Tech	Testify	QuantumEdge
AI / Smart Surveillance	Smart Wearable Device For Hemiplegia Patients With AI	Neurospark
Digital Services / AI	Smart Glove For Sign Language To Speaker Conversion	Alpha 4
Biotech / HealthTech	Smart Glove For Sing Language To Speaker Conversation	Alpha 4
AI / Digital Services	Smart Glove For Sign Language To Speaker Conversion	Alpha4
AI / Digital Services	Sustainable Ph -Responsive Drug Packaging	Smart Gurd pH
AI / Educational Technology	Smart Glove For Sign Language To Speaker Conversation	Alpha4
MedTech / HealthTech	Ecosmart Roof – Smart Sustainable Roofing System	ROBOTMINDS
Assistive Technology / AI	Lora-Based Peer-To-Peer Messaging System For Smartphone	VIJAY & TEAM
Green / Sustainable Tech	Swarm Drones For Border Surveillance	JazzyPredators
Assistive Technology / AI	Smart Wearable Patch ForNon InvasiveBilirubineAnd Vital Signs Monitoring InNeonatal	Infacare
Green / Sustainable Tech	Integration Of Biotechnological Methods InThe Development OfA Guava Leaf Bioactive Gel For Skin Tissue Repair	HerbaHeal Innovators
IoT / Communication Technology	Business Models And Commercialization	Achievers team
Smart Automation / AI	Smart Drone System For Safety Monitoring	Kanshi
MedTech / HealthTech	Eco Friendly Edible Film From Banana Peel For Smart Packaging	Ecopeel innovators



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Biotech / HealthTech	Deep Learning Based Anomaly Detection In Real Time Video Project Implementation	Codebots
Entrepreneurship / Innovation	World E-Shopping Directory	Future Creators
Smart Automation / AI	Formulate Syrups Using Bio-Preservative And Anti-Precipitant Agent	SYRUPSAFE SOLUTION TEAM
Green / Sustainable Tech	Smart Ordering Menu	Techno crates
AI / Smart Surveillance	Hopemate	Team Z
Digital Services / AI	Ai Career Navigator & Interview Simulator	Pathpro
Biotech / HealthTech	Automated Motorized IV Infusion Control System	Medibotics