



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



**VINAYAKA MISSION'S  
RESEARCH FOUNDATION**  
(Deemed to be University under section 3 of the UGC Act 1956)



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**&**

**DEPARTMENT OF BIOMEDICAL ENGINEERING**

*In association with*

**Institution Innovation Council, IEEE Student Chapter- AVIT & IETE students Forum**

**ORGANIZE**

**Bootcamp on Problem Solving Ideathon**

<b>Event Title</b>	<b>Bootcamp on Problem Solving Ideathon</b>		
<b>Resource Person</b>	<b>Mr. Vigneshwar Jayabalan</b> General Manager Gmed Healthcare  <b>Dr. R. Jaichandran</b> Professor – CSE Department & Deputy Director Research, VMRF		
<b>LINK</b>	<a href="https://www.facebook.com/share/p/1HiufFYuY2/">https://www.facebook.com/share/p/1HiufFYuY2/</a>		
<b>Academic year</b>	2025-2026		
<b>Program Type</b> (Workshop / Motivation speech / Field Visit / Competition / Others)	Others		
<b>Program Theme</b> (IPR / R&D and Innovation / Start-up / Entrepreneurship / Design Thinking / Incubation & Pre - Incubation / others)	Design Thinking		
<b>Start date &amp; End Date</b> (DD/MM/YYYY)	30.10.25	31.10.2025	
<b>Duration of the activity (in Mins) &amp; Start Time &amp; End Time</b>	Duration: Mins.	Start Time: 10:00 AM	End Time: 3.00 PM
<b>Participants</b>	Students: 40	Faculty: -	External: -
<b>Mode of session</b> (online / offline)	Offline		
<b>Event Organizer / Coordinator</b> Faculty Name / Department / Designation	<b>Dr.A. Keerthika, Asst.Prof (GR-II), ECE Department</b>		
<b>Target Participants</b>	IV Year students of BME, ECE		



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## Outcome

The two-day Bootcamp on Problem Solving Ideathon was a highly impactful and engaging event. On Day One, expert talks on startup ideas and innovation ecosystems inspired students by providing insights into problem identification, solution design, funding opportunities, and entrepreneurial pathways. On Day Two, the Inventathon enabled students to apply these concepts practically by developing and showcasing innovative prototypes addressing real-world problems. The event enhanced students' critical thinking, teamwork, and prototyping skills, while fostering an entrepreneurial mindset. Overall, the bootcamp successfully bridged the gap between theoretical knowledge and practical implementation, motivating students to pursue innovation-driven solutions and startup initiatives. Students collaborated to develop impactful solutions addressing real-world challenges. The event enhanced problem-solving, teamwork, and technical skills, fostering a culture of innovation and entrepreneurship within the institution.



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## EVENT BROCHURE



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY  
Vinayaka Missions Chennai Campus





**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of HRD Initiative)

**Department of Electronics & Communication Engineering &  
Department of Biomedical Engineering**

*Presents a Seminar Series on*

### Bootcamp on Problem Solving Ideathon



**Mr. Vigneshwar Jayabalan**  
General Manager  
Gmed Healthcare



**Dr. R. Jaichandran**  
Professor – Department of CSE &  
Deputy Director Research, VMRF-DU

📅 30 & 31 October 2025 ⌚ 10:00 AM - 03:00 PM

📍 Smart Classroom, AVIT



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UETI



**IEEE**



**IGIEC**  
GANESAN INCUBATION AND  
ENTREPRENEURSHIP CENTER  
(A Section 8 Company, Tamil Nadu, India)



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Vinayaka Missions Chennai Campus





**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of HRD Initiative)

**Day 1** 📅 30 October 2025

**Topic**

### Innovation Begins with the Right Problem

**Resource Person**  
**Mr. Vigneshwar Jayabalan**  
General Manager  
Gmed Healthcare



🕒 10:00 AM - 03:00 PM

📍 Smart Classroom, AVIT



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INNOVATION  
COUNCIL**  
(Ministry of HRD Initiative)

**Day 2** 📅 31 October 2025

**Topic**

### Inventathon: Where Ideas Come Alive

**Resource Person**  
**Dr. R. Jaichandran**  
Professor – Department of CSE &  
Deputy Director Research, VMRF-DU



🕒 10:00 AM - 03:00 PM

📍 Smart Classroom, AVIT



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## EVENT REPORT

The Department of Electronics & Communication Engineering and Department of Biomedical Engineering in association with **Institution Innovation Council (IIC)**, **IEEE Student Chapter- AVIT & IETE students Forum** organized the two days event **“Bootcamp on Problem Solving Ideathon” on 30.10.2025 & 31.10.2025** was organized to actively engage students and faculty in identifying real-life challenges and developing innovative, practical, and socially relevant solutions. The bootcamp aimed to strengthen problem-solving and critical thinking skills while fostering teamwork, innovation mindset, and entrepreneurial orientation among participants.

**On 30.10.2025**, the event commenced with an expert talk delivered by an invited guest **Mr. Vigneshwar Jayabalan**, General manager, Gmed healthcare, who shared insights on structured problem-solving approaches, design thinking, innovation strategies, and the importance of aligning solutions with local, national priorities and the **United Nations Sustainable Development Goals (SDGs)**. The session provided participants with clarity on identifying meaningful problems and converting ideas into impactful solutions.

Following the expert talk, students were actively engaged in brainstorming sessions to identify real-world challenges. A total of **30 problem statements** were identified across domains such as healthcare, education, environment, agriculture, and smart technologies. Based on these problem statements, students were divided into **15 multidisciplinary teams** to encourage collaborative learning and diverse perspectives.

**On 31.10.2025**, event focused on ideation, solution development, and prototype building and the Chief guest **Dr. R. Jaichandran**, Professor – CSE Department & Deputy Director Research, VMRF delivered the special address to the students and served as a judge for the showcased prototypes in Inventathon: where idea come alive

Each team worked on analyzing root causes and developing innovative solutions. The teams successfully showcased their **working prototypes**, demonstrating feasibility, creativity, and social relevance. Faculty mentors evaluated the outcomes and provided constructive feedback. The bootcamp effectively nurtured innovation, teamwork, and entrepreneurial thinking among participants.



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The event received enthusiastic participation from students from final years. Teams presented innovative ideas related to sustainable technology, healthcare devices, smart systems, and digital solutions. Faculty members and technical mentors guided the participants throughout the event. A panel of judges evaluated the prototypes based on innovation, feasibility, and impact.

The *Inventathon* event successfully inspired students to convert their ideas into tangible prototypes. It improved their design thinking, communication, and technical skills. The event also encouraged interdisciplinary collaboration and laid the foundation for future project development and research initiatives within the department.

The event proved to be an enriching experience for both participants and organizers. The event strengthened the department's commitment to fostering innovation and creativity among students and promoting hands-on learning through prototype development. Mementos were presented to the winners during the valedictory program as a token of appreciation for their outstanding performance and Manasa from III yr BME concluded the event by delivering the Vote of Thanks with group photo.

## EVENT GALLERY

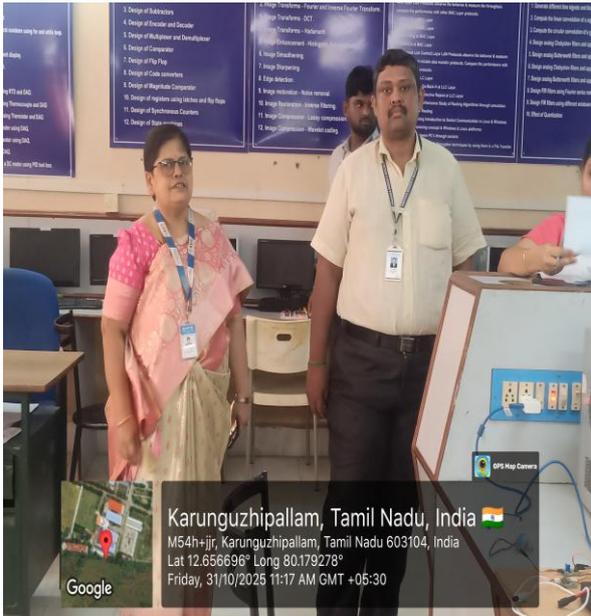




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M54h+jjr, Karunguzhipallam, Tamil Nadu 603104, India  
Lat 12.656696° Long 80.179278°  
Friday, 31/10/2025 11:17 AM GMT +05:30



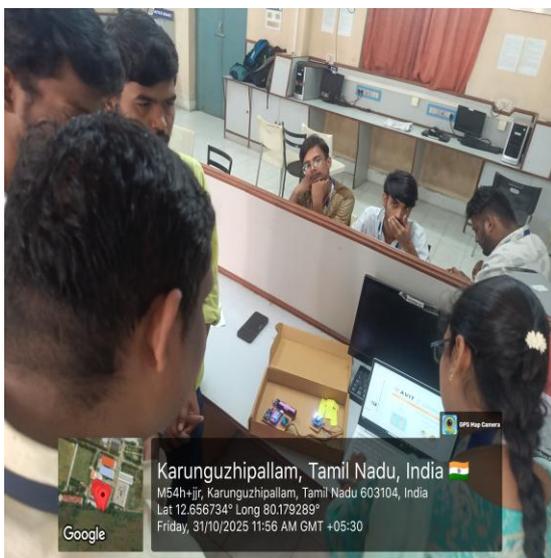
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M54h+jjr, Karunguzhipallam, Tamil Nadu 603104, India  
Lat 12.656727° Long 80.179212°  
Friday, 31/10/2025 11:33 AM GMT +05:30



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M54h+jjr, Karunguzhipallam, Tamil Nadu 603104, India  
Lat 12.656691° Long 80.179259°  
Friday, 31/10/2025 11:37 AM GMT +05:30



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M54h+jjr, Karunguzhipallam, Tamil Nadu 603104, India  
Lat 12.656716° Long 80.179264°  
Friday, 31/10/2025 11:40 AM GMT +05:30



Karunguzhipallam, Tamil Nadu, India 🇮🇳  
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Karunguzhipallam, Tamil Nadu, India 🇮🇳  
M54h+jjr, Karunguzhipallam, Tamil Nadu 603104, India  
Lat 12.656718° Long 80.179266°  
Friday, 31/10/2025 11:41 AM GMT +05:30



**LIST OF PARTICIPANTS**

AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY  
 Department of Electronics and Communication Engineering  
 & Department of Biomedical Engineering  
 Innovation-2025

Date: 31.10.2025 Time: 10.00 AM

S.NO	NAME OF THE STUDENT	PROJECT TITLE	SIGN
1.	Alisa Jayan Srinivasan	6ixp strength measurement monitoring system	[Signature]
2.	Nandini A Alumini D Diyalbarti	IoT-enabled smart health monitoring system for remote management of COPD	[Signature]
3.	V. Lakshmi T. Sanjay velmurugan	Non-Invasive Abnormal Glucose Detector	[Signature]
4.	Rajapathy R Vasanthakumari Elumalai M	Thermal sensor with SENSITIZE UNIT	[Signature]

S.NO	NAME OF THE STUDENT	PROJECT TITLE	SIGN
5	Pallavi Anitha Anusha Kavayalangi	Non-invasive blood level detection device	[Signature]
6	Darsha Suresh Rishi Aashu	REFLEXOMETER WITH SOUND MODULE	[Signature]
7	Pranavitha Chhotu Kumar Saru Kumar	A real-time cardiac monitoring using a multi-sensory smart IoT system	[Signature]
8	Ajith Albert Muhammed Sameem	Pacific Thermometer	[Signature]
9	Afsal S Rafi Anzil	Foot pressure monitor	[Signature]
10.	Laxmanray Dhirraj Kumar Godhandaraman	Smart Neck band for health monitoring and woman safety	[Signature]