



Technical affairs- IIITDM Kancheepuram



Day - 20

IoT Innovation Challenge

Date : 20/07/2025

Duration : 24 Hours

Challenge Brief

An institute generates a significant amount of waste each day. To effectively reduce and recycle this waste, it is important to track both the quantity and types of waste produced by each part of the campus. The next step is to sort the waste at the source, which helps enhance recycling efforts and ensure proper disposal. Your challenge is to design a system that seamlessly integrates IoT technology with other components to monitor waste generation, facilitate sorting, and increase efficiency of the waste collection process.

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Objective

To design an innovative system and come up with a detailed implementation plan to solve the challenge above. Present a proposal, simulation results and hardware prototypes (if possible) to display the feasibility of the solution.

General Guidelines

- Avoid solutions copied from chatGPT. The goal is to find efficient, innovative solutions which are new and implementable.
 - The features to be included in the proposed solution are up to the participants.
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Deliverables

- 1) A document proposal outlining the working of the solution, including
 - List of problems solved by the proposed solution (up to the participants)
 - Flowchart representing the information collected, technology used and actions executed
 - Explanation of the technology used in the implementation
 - Comparison with existing solutions
 - Potential challenges
 - 2) A rough simulation of the proposed model, and if possible, a hardware-demonstration
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Evaluation Criteria

- Innovation and creativity (novelty of proposed solution compared to existing solutions)
- Feasibility of implementation, along with convincing justification
- Details on how the solution will be implemented (Flow of the technology and logistics used)
- Rough simulation/implementation of the proposed solution
- Comparison with already existing solutions, challenges.

Support

For any queries, reach out to:

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WhatsApp Community: <https://chat.whatsapp.com/CEjhrp1QoLYLs1m4OgslMT>

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Submission

Please Submit here - <https://forms.gle/uV7ZXBaHxTNSGAU17>



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<https://forms.gle/UC3RbHfAPRZMuAyZ6>



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