Hardware Tracks:The Journey to a Smarter World

The world is changing fast, and technology is at the center of it all. However, there are still big challenges to solve. Industries need smarter systems, everyday life could use more creative gadgets, and there's always room for bold, new ideas.

This competition invites you to step up and create hardware solutions that make life better. From improving industrial processes to building fun and imaginative gadgets, or even exploring completely new possibilities, the stage is yours.

1.Industrial Automation: Smarter Systems for a Better Tomorrow

Industries are essential to the world, but many still rely on outdated systems. Your task is to build hardware that improves efficiency, reduces waste, or solves real problems in factories, warehouses, or logistics

Example Challenges:
- Build a robotic arm for simple tasks like sorting or assembling.

"This is just one idea—feel free to create any hardware solution that could make industries smarter or more efficient."

2. DIY Fun Gadgets: Bringing Joy Through Creativity

Life can be stressful, and we all need a little fun. This track is all about creating gadgets that amaze, entertain, or inspire creativity. Think of devices that bring a smile to people's faces or make everyday life a little more exciting.

Example Challenges:
- A box that can only be opened after solving a sequence of tasks, like pressing buttons in order.

"Let your imagination run wild—build anything that adds fun or sparks creativity."

3. Open-Ended Problems: Imagine the Future

This track is for your wildest ideas. You can solve a real-world problem, create a futuristic gadget, or explore something completely unique. The only limit is your imagination.

Example Challenges:
- Develop a drone-based home security system.

*"No boundaries here—your idea can be as bold and unique as you want.***"**

Student Head(Hardware Competition):
Nainesh Gurav
Arya Kavani

Datathon Online Submission Guidelines

(Hardware Tracks)

Submission Requirements

Participants must submit the following:

1. **A short video** demonstrating the working of their project.
   - **Maximum File Size:** 100 MB
   - **Format:** MP4
   - If the video exceeds 100 MB, upload it to **YouTube** and submit a **TXT file** with the video link.
   - **TXT File Naming Format:** `TeamName_ProjectName.txt`
2. **A brief PowerPoint presentation (PPT) (Max: 20 MB)** explaining the project, including:
   - **Project Overview**
   - **Methodology and Approach**
   - **Results and Key Insights**
   - **Conclusion and Future Scope**
3. **A PDF document (Max: 5 MB)** (optional) with any additional supporting information, such as circuit diagrams, code snippets, or documentation.
4. **Team Details:**
   - Name & Email Address of Each Member

Submission Process

- **Submission Deadline:** 📅 **February 10**
- **Google Drive Submission Link:** [Click Here](#)

  https://drive.google.com/drive/folders/1g_I5nXgFZpImFstsVsxw2-HBBJRGfIEq?usp=drive_link

- **Folder Creation:**
  - Participants must **create a folder under "Hardware Track"** using their **team name (as registered in the event)**.
  - Upload **all required files** inside this folder.
- **File Naming Format:**
  - **Video:** `TeamName_ProjectName.mp4`
  - **PPT:** `TeamName_ProjectName.pptx`
  - **PDF (if applicable):** `TeamName_ProjectName.pdf`
  - **YouTube Link (if applicable):** `TeamName_ProjectName.txt`

Evaluation & Shortlisting

- Submissions will be **reviewed by a panel of judges**.
- The best entries will be **shortlisted** and invited to **showcase their project at SCET**.
- Shortlisted teams will receive **email notifications**.
- Selected teams must **demonstrate their project in offline mode** for final evaluation and awards.

Contact & Support

For any queries or submission-related issues, please contact:

📞 **Arya Kavani** - 9909812119
📞 **Ayush Jariwala** - 9512131555
📞 **Nainesh Gurav** - 7874241979

We look forward to seeing your **innovative projects!** 🚀 Best of luck!

DATATHON
Hardware Track
Competition Rule Book

Event Guidelines for Demonstration at SCET

Model Preparation

Participants are required to prepare their models in advance before the competition.

Venue Demonstration

At the competition venue, participants will showcase their prepared models to the judges for evaluation.

Resource Requirements

- If participants require any additional resources, they must inform the organizing team beforehand.
- Power supply can be provided **if requested in advance.**
- A soldering iron will be available on-site if needed.
- Sensors, controllers, development boards, and other electronic components will **NOT** be provided—**participants must arrange these on their own.**

Evaluation Criteria

Models will be evaluated based on the following parameters:

Criteria	Points
Uniqueness	5 points
Relation with Theme	5 points
Cost Effectiveness	5 points
Power Efficiency	5 points
Presentation	10 points
Demonstration	10 points

Awards

- For each theme under the **Hardware Track**, there will be **2 winners**.

Queries and Assistance

- For queries and assistance, please contact:

Arya Kavani (9909812119)

Nainesh Gurav (7874241979)

Ayush Jariwala (9512131555)

Note: Non-compliance with rules may lead to disqualification.