

Ideathon 2025 Rulebook & Guide

Event Date: November 21, 2025

Venue: New Horizon College of Engineering, Bengaluru

Hey innovators! Welcome to the Ideathon! This rulebook contains everything you need to know for the event, including the official problem statements. Please read it carefully.

1. Registration & Fees

- **Eligibility:** The ideathon is open to **all students from any college, university, or domain**.
 - **Registration Deadline:** The deadline for registration is **November 15, 2025**. All teams must register online through the official link before this date.
 - **Required Documents:** All participants **must carry their valid college ID card** for verification at the venue on the day of the event.
 - **Registration Fee:** A non-refundable registration fee of **₹300 per team** is required to confirm your spot.
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2. Team Formation

- **Team Size:** Teams can consist of **1 to 6 members**. You can register as a solo innovator or as a team.
 - **Interdisciplinary Teams:** We highly encourage forming teams with students from different branches of study.
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Problem Statements

Instructions: Your team must choose **ONE** of the following 25 problem statements to work on.

Domain 1: Disaster Management

- **PS-1A: AI-Driven Fake News Filter:** Design a system that automatically detects and flags the spread of misinformation on social media during a disaster to prevent panic.
- **PS-1B: Dynamic Evacuation Routing System:** Create a real-time navigation tool for survivors and first responders that suggests the safest and fastest evacuation routes.

- **PS-1C: Digital System for Missing Persons:** Develop a platform to quickly identify, track, and reunite missing persons with their families during mass disasters.
 - **PS-1D: Crowd Stampede Prevention:** Propose a tech-based solution that uses real-time data to monitor crowd density, predict stampede risks, and alert authorities.
 - **PS-1E: Blockchain for Aid Transparency:** How can blockchain be used to create a transparent, corruption-free system for tracking and distributing relief funds and supplies?
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Domain 2: Fintech (Financial Technology)

- **PS-2A: Inclusive Digital Credit Assessment:** Develop an alternative credit scoring system for individuals without a formal credit history (e.g., students, gig workers) to enable fair access to micro-loans.
 - **PS-2B: AI-Enabled Fraud Detection in UPI:** Design an AI-powered solution to detect and prevent fraudulent UPI and wallet transactions in real-time.
 - **PS-2C: Voice-First Banking for Rural Users:** Create a secure, voice-enabled banking solution in regional languages for populations with low digital literacy.
 - **PS-2D: Gamified Financial Literacy Platform for Gen Z:** Build an engaging mobile platform with challenges and rewards to teach Gen Z users about budgeting, saving, and investing.
 - **PS-2E: Cross-Border Tuition Payment System:** Create a low-cost, fast, and transparent cross-border payment system to simplify tuition fee transfers for international students.
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Domain 3: Sustainable Energy Management

- **PS-3A: Smart Campus Energy Management:** Design an IoT-based system for a college campus to monitor energy consumption, detect wastage, and intelligently manage resources.
- **PS-3B: Affordable Solar Energy Storage:** Propose an innovative and affordable energy storage solution for households with rooftop solar panels.
- **PS-3C: Community Waste-to-Energy Solution:** Design a small-scale system that converts organic waste from a residential community into usable energy (biogas) or compost.
- **PS-3D: Green Finance Tracking Application:** Create a fintech solution that analyzes a user's spending to calculate their carbon footprint and suggests sustainable alternatives.

- **PS-3E: Vertical Axis Wind Turbines for Cities:** Propose an efficient design for vertical axis wind turbines that can be installed on rooftops or highways in urban environments.
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Domain 4: Space Tech

- **PS-4A: Remote Sensing for Precision Agriculture:** Using satellite imagery and AI, design a tool to help farmers in Karnataka monitor crop health and optimize water usage.
 - **PS-4B: NAVIC-Based Emergency Services:** Propose a solution using India's NAVIC navigation system to improve the response time of emergency services in remote areas.
 - **PS-4C: Geospatial Data for Urban Planning:** Create a platform using satellite data to help city planners in Bengaluru monitor urban sprawl and identify optimal locations for new public infrastructure.
 - **PS-4D: Early Warning System for Cloudbursts:** Develop a system that uses meteorological satellite data and machine learning to provide timely warnings for extreme weather events like cloudbursts.
 - **PS-4E: Space Debris Mitigation Strategy:** Conceptualize a technology or system for tracking, monitoring, or mitigating the growing problem of space debris in low-Earth orbit.
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Domain 5: Smart Vehicles & Transportation

- **PS-5A: AI for Traffic Flow Optimization:** Develop an AI-powered system to dynamically control traffic signals and reduce congestion in a high-traffic area of Bengaluru.
 - **PS-5B: Smart Parking Solution:** Design a system that provides a real-time map of available parking spots, allowing drivers to book a spot in advance.
 - **PS-5C: Intelligent EV Charging Network:** Propose a smart network of EV charging stations that can predict demand and optimize charging schedules to reduce strain on the power grid.
 - **PS-5D: Affordable EV Retrofit Kits:** Design a standardized and affordable kit to convert popular models of gasoline-powered two-wheelers or auto-rickshaws into EVs.
 - **PS-5E: Smart Driver Assistance for Accident Prevention:** Create a low-cost device that can be installed in any vehicle to provide real-time alerts for potential collisions or driver drowsiness.
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3. Submission & Pitching Guidelines

- **Deliverable:** A **pitch deck** of no more than **10 slides**.
 - **Pitch Time Limit:** **7 minutes** to present, followed by a **3-minute Q&A** with the judges.
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4. Judging Criteria

- **Innovation & Originality (30%)**
 - **Impact & Social Value (25%)**
 - **Feasibility & Viability (25%)**
 - **Presentation & Clarity (20%)**
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5. Code of Conduct

- **Originality:** Your idea must be your own work, developed for this event.
- **Respect:** Treat all participants, mentors, judges, and organizers with respect.
- **Final Decision:** The decision of the judging panel will be final.