

Kr8athon: Innovation Unleashed



Overview

As India advances toward the vision of Viksit Bharat @ 2047, innovation in technology and embedded systems plays a crucial role in shaping future-ready solutions. The Kr8ivity League presents Kr8athon – Innovation Unleashed. A high-intensity 24-hour national hackathon where teams strategize, design, and build a fully functional prototype within just 24 hours. Kr8athon evaluates participants across coding, electronics fundamentals, circuit design, embedded programming, system integration, and real-time problem-solving. The competition not only tests technical expertise but also strategic decision-making, adaptability, teamwork, and innovation under dynamic constraints.

Problem Statement

More than just a build challenge, **Kr8athon – Innovation Unleashed** empowers teams to transform bold ideas into impactful technological solutions aligned with the vision of **Viksit Bharat 2047**. Participating teams must select **at least one of the themes** listed below. All essential materials and components required for development will be provided exclusively during the competition, ensuring a level playing field while introducing a strategic dimension to the challenge. Kr8athon evaluates participants across coding, electronics fundamentals, circuit design, embedded programming, system integration, and real-time problem-solving. The competition not only tests technical expertise but also strategic thinking, adaptability, teamwork, and innovation under dynamic constraints.

Themes Aligned with Viksit Bharat @ 2047

- **Smart & Sustainable Energy Systems**
 - Innovative solutions to reduce energy wastage, improve energy monitoring, and promote efficient power usage.
- **Smart Cities & Infrastructure**
 - Technologies that enhance urban living through intelligent systems for safety, environment monitoring, and automation.
- **Clean India & Sustainable Environment**
 - Solutions that improve waste management, pollution monitoring, and environmental sustainability.
- **Agriculture & Food Security**
 - Technologies that support smart farming, efficient irrigation, and plant health monitoring.
- **Safety, Security & Disaster Management**
 - Embedded systems that enhance public safety, surveillance, and emergency response systems.
- **Smart Healthcare & Assistive Technology**
 - Technologies that improve healthcare accessibility, patient monitoring, early disease detection, and assistive solutions for elderly and differently-abled individuals.
- **Digital Governance & Smart Public Services**
 - Solutions that enhance transparency, efficiency, and accessibility of government services through digital systems, automation, and data-driven decision making.
- **Smart Media, Communication & Information Systems**
 - Innovative technologies for efficient information sharing, digital communication, content management, and combating misinformation through intelligent systems

Rules and Regulations

- Only working professionals from STEM Industry such as STEM Coaches, STEM Mentors, STEM Program Managers, Product Managers are eligible to participate.
- Teams must select **at least one theme** from the officially announced themes. Projects may align with multiple themes if relevant.
- Each team can have a maximum of 3 participants.
- It is mandatory for every team to bring **at least one laptop for coding, programming, and development purposes**. Internet would be provided at the venue.

- Teams must design and develop their prototype strictly within the 24-hour hackathon duration.
- All materials, components, and development resources will be provided exclusively by the event host during the competition.
- Use of external hardware components is not permitted.
- The final prototype must be fully functional and demonstrated during the evaluation round.

Guidelines

- The hackathon duration is strictly 24 hours, and teams must adhere to the official schedule announced by the organizers.
- Teams are expected to maintain proper workspace discipline and handle provided equipment responsibly. Any damage due to negligence may lead to penalties.
- Collaboration between teams is not permitted. Each team must independently design and develop its solution.
- Final prototypes must be demonstrated live before the judging panel within the allocated presentation time.
- Judges' decisions regarding evaluation and awards will be final and binding.

Evaluation Criteria

- Idea & Problem Relevance (15 points)
- Working Prototype (35 points)
- Logic & Design (20 points)
- Impact on society (10 points)
- Innovation & Creativity (20 points)