

Organisers



Min. of Earth Sciences



Ideas for Viksit Bharat - S&T Hackathon



INDIA
INTERNATIONAL
SCIENCE
FESTIVAL
6 - 9 DEC 2025

**Vigyan Se Samruddhi-
For Aatmanirbhar Bharat**

Innovation. Aatmanirbharta. India for Global Good

Co-organisers



Hosted at
Panjab University, Chandigarh

Coordinating Institute
Indian Institute of Tropical Meteorology, Pune

Introduction :

The S&T Hackathon: Ideas for Viksit Bharat is a dynamic platform under IISF 2025 designed to ignite innovation and problem-solving among India's youth. Organized by Panjab University, Chandigarh, in collaboration with national science and technology ministries, the event invites students and innovators to develop technology-driven solutions addressing societal, environmental, and industrial challenges. By nurturing creative thinking and entrepreneurial spirit, the hackathon directly contributes to the vision of Viksit Bharat @2047, aligning with the national missions of Atmanirbhar Bharat, Digital India, and Startup India. In true spirit of "Vigyan Se Samruddhi," it celebrates the transformative power of science and technology as key enablers of sustainable progress and self-reliance.

- What is the event about?

The S&T Hackathon: Ideas for Viksit Bharat is a national-level innovation challenge that encourages students, researchers, and young entrepreneurs to design and prototype science- and technology-based solutions for real-world problems. It promotes creativity, teamwork, and practical innovation aligned with India's developmental priorities. Key Themes / Focus Areas

- How does it connect to national science missions or the vision of Viksit Bharat 2047?

The hackathon supports the vision of **Viksit Bharat @2047** by channeling youth innovation towards economic growth, sustainability, and self-reliance. It aligns with national science missions such as **Atmanirbhar Bharat, Digital India, Startup India, and Make in India**, reinforcing the IISF 2025 theme "Vigyan Se Samruddhi – For Atmanirbhar Bharat."

Objectives :

Concise, action-oriented goals that highlight what the event aims to achieve.

1. Ignite innovation and problem-solving among students.
2. Promote cross-disciplinary collaboration for real-world challenges.
3. Identify implementable solutions for national development.
4. Foster entrepreneurship through mentoring and incubation support.

Key Themes :

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| 1. Sustainable Energy & Environment - | Green energy, air quality, carbon capture, waste-to-energy. |
| 2. Smart Cities & Digital Governance - | E-governance, transparency tools, urban data analytics. |
| 3. AgriTech & Food Security- | Smart irrigation, soil monitoring, farmer-market platforms. |
| 4. Healthcare & Well-being - | Affordable diagnostics, AI-based health screening, telemedicine. |
| 5. Education & Skilling - | AR/VR learning, AI-based tutoring, vernacular content tools. |
| 6. Rural Innovation & Livelihoods - | Local manufacturing, water management, rural crafts. |
| 7. Culture, Heritage & Inclusivity - | Digital heritage mapping, accessibility technologies, tourism tools. |
| 8. Artificial Intelligence - | Vision and Impact Towards 2047 - Exploring the role of AI in information security, transformative technologies, AI-enabled IoT applications, and emerging trends in smart cities and healthcare. |

*Participants may also propose open innovation ideas aligned with the Viksit Bharat 2047

Participants :

The hackathon is open to:

- **School Innovators (Class 10–12):** Teams of 2–4 students with a teacher mentor; submit an idea proposal and concept sketch.
- **Higher Education Students:** Teams of 3–5 UG/PG/engineering students with an optional mentor; submit a concept note with prototype or software design.
- **Start-ups & MSMEs:** Laghu Udyog and MSMEs with innovative, technology-driven solutions supporting Viksit Bharat @2047.

Registration and Selection process :

Mode of Registration (Online): www.iisf2025.in

Eligibility Criteria: Students, Researchers, Startups, etc. can participate

Phase	Activity	Timeline
Phase 1	Awareness & Launch	5 Nov 2025
Phase 2	Registration & Institutional Screening	5 - 11 November 2025
Phase 3	Blind Peer Review	11 - 15 November 2025
Phase 4	Pre-Presentation Screening	15 - 20 November 2025
Phase 5	Intimation to Selected Teams	20 - 23 November 2025
Phase 6	National Finale (IISF 2025)	06-08 December 2025
Phase 7	Post-Event Mentorship & Reporting	Post Event

Event Format :

- National S&T Hackathon under IISF 2025, hosted at Panjab University, Chandigarh (06-08 December 2025).
- 24-hour innovation marathon blending ideation, prototyping, exhibition, and mentoring.
- Two participation tracks: School Innovators (Class 10-12) and Higher Education Students (UG/PG/Engineering/Start-Ups).
- Themes aligned with Viksit Bharat 2047, including energy, smart cities, agritech, health, education, and sustainability.
- Awards, mentoring, and incubation support through CSIR, DST, Startup India, and NITI Aayog programs.

Schedule :

Day 1: 06 December 2025 (Saturday): (Kick-off & Ideation)

Time	Session Title	Details / Purpose
02:00 – 03:00 PM	Registration, Team Verification & Workspace Allocation	Hackathon Hall / Panjab University
03:00 – 03:30 PM	Inaugural Ceremony & Welcome Remarks	Chief Guest / Organizing Team
03:30 – 04:00 PM	Hackathon Briefing (Rules, Schedule, Evaluation Criteria)	Organizing Committee
04:00 – 05:00 PM	Team Setup, Mentor Assignment, Theme Confirmation	Mentors & Teams
05:00 – 06:30 PM	Rapid Design Thinking / Pitch Workshop	Interactive Session
06:30 – 07:00 PM	Mentor Q&A & Team Consultations	Informal Mentoring
07:00 – 08:00 PM	Dinner & Networking	Refreshment Zone
08:00 PM – 12:00 Midnight	Hackathon Build Phase Begins	Continuous Development
Overnight	Optional Workspace Access	Mentors available in shifts

Day 2 – 07 December 2025 (Sunday): (Build, Test & Finalise)

Time	Session Title	Details / Purpose
08:00 – 09:00 AM	Morning Briefing & Daily Targets	Hackathon Hall
09:00 – 01:00 PM	Development / Coding / Hardware Integration	Build Phase
01:00 – 02:00 PM	Lunch Break	Cafeteria
02:00 – 05:00 PM	Mentor Checkpoints 1 & 2 (Scheduled Slots)	Feedback Sessions

Time	Session Title	Details / Purpose
05:00 – 06:30 PM	Testing & Troubleshooting	Mentor Support
06:30 – 07:30 PM	Pitch Polishing Workshop (Presentation Tips)	Training Session
07:30 – 08:30 PM	Dinner Break	—
08:30 – 10:00 PM	Final Demo Setup & Submission	Hackathon Ends – 10:00 PM

Day 3 – 08 December 2025 (Monday): (Jury Evaluation & Awards)

Time	Session Title	Details / Purpose
09:00 – 10:00 AM	Shortlisted Teams Setup	Judging Hall
10:00 AM – 01:00 PM	Jury Evaluation – Round 1 (Live Demos & Q&A)	Jury Panel
01:00 – 02:00 PM	Lunch Break	—
02:00 – 04:00 PM	Jury Deliberation & Final Scoring	Closed Session
04:00 – 05:00 PM	Awards & Result Declaration	Valedictory & Prize Distribution
05:00 PM onwards	Photo Session & Networking	Closing Ceremony

Expected Outcomes :

- 60+ prototypes addressing real-world challenges aligned with Viksit Bharat 2047.
- Cross-linkage between school, college, and research ecosystems.
- Creation of a youth innovation repository for nationwide visibility.
- Strengthened culture of entrepreneurship and scientific problem-solving.

Coordinators :

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Organisers



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