



NOTICE

NIDAR प्रतियोगिता/कार्यक्रम में विद्यार्थियों की सहभागिता हेतु सूचना

समस्त विद्यार्थियों को सूचित किया जाता है कि **NIDAR** द्वारा आयोजित विशेष प्रतियोगिता/कार्यक्रम में विद्यार्थियों को अपनी प्रतिभा, रचनात्मकता एवं नवाचार को प्रदर्शित करने का अवसर प्रदान किया जा रहा है। इच्छुक विद्यार्थी इस कार्यक्रम में पंजीयन कर सक्रिय रूप से भाग ले सकते हैं।

इस कार्यक्रम का उद्देश्य विद्यार्थियों में रचनात्मक सोच, नवाचार, समस्या-समाधान क्षमता एवं प्रतिस्पर्धात्मक भावना को प्रोत्साहित करना है। विद्यार्थियों के लिए यह अपनी प्रतिभा को व्यापक मंच पर प्रस्तुत करने तथा विभिन्न स्तरों पर पहचान प्राप्त करने का एक उपयोगी अवसर है।

कार्यक्रम की प्रमुख विशेषताएँ

- विद्यार्थियों के लिए प्रतियोगिता एवं सहभागिता का अवसर।
- अपनी रचनात्मकता एवं प्रतिभा प्रदर्शित करने का मंच।
- उत्कृष्ट प्रदर्शन करने वाले प्रतिभागियों को पुरस्कार एवं सम्मान प्रदान किए जाएंगे।
- विभिन्न श्रेणियों/स्तरों पर आकर्षक पुरस्कार उपलब्ध हैं।
- विद्यार्थियों को अपनी उपलब्धियों एवं प्रतिभा को आगे बढ़ाने का अवसर मिलेगा।

पंजीयन कैसे करें?

इच्छुक विद्यार्थी NIDAR की आधिकारिक वेबसाइट पर जाकर ऑनलाइन पंजीयन कर सकते हैं:

पंजीयन लिंक:

www.nidar.org.in

पंजीयन QR:



सभी इच्छुक विद्यार्थियों को सलाह दी जाती है कि वे कार्यक्रम की पात्रता, नियम एवं शर्तें, प्रतियोगिता की प्रक्रिया तथा पुरस्कार संबंधी विस्तृत जानकारी आधिकारिक वेबसाइट पर ध्यानपूर्वक देखें और निर्धारित समय-सीमा के भीतर पंजीयन पूर्ण करें।

अतः सभी इच्छुक विद्यार्थियों से अपील है कि वे इस अवसर का लाभ उठाते हुए अधिक से अधिक संख्या में पंजीयन कर कार्यक्रम में सहभागिता सुनिश्चित करें।



इलेक्ट्रॉनिक्स एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY



NIDAR

NATIONAL INNOVATION CHALLENGE FOR
DRONE APPLICATION AND RESEARCH

REGISTER NOW FOR INDIA'S LARGEST STUDENT DRONE COMPETITION

Mission 1

RescueSwarm



Build autonomous drones. Find survivors. Deliver critical aid.

Mission 2

AirMouse



Build an indoor navigation drone. Map the unknown. Find survivors.

Mission 3

VEGAPilot



Build indigenous drone autopilot powered by India's VEGA Processor.

Win prizes worth

INR 65+ LAKHS

Get mentorship, industry access, incubation

opportunities and national recognition

REGISTER NOW





Concept Note for NIDAR 2026-27

**National Innovation Challenge for Drone Application & Research
Under the SwaYaan initiative of MeitY, the Government of India**

Background:

The National Innovation Challenge for Drone Application & Research 2025-26 (NIDAR 2025-26) is organised by Drone Federation India (DFI) in collaboration with the Ministry of Electronics and Information Technology (MeitY) under Project SwaYaan, as a national platform for student-led innovation in drone technologies.

The first edition of NIDAR was launched by the Secretary, MeitY, in the presence of the Chairman, AICTE, and leading industry stakeholders, and attracted **participation from 3,448 students across 22 States and 4 Union Territories, spanning 109 cities.**

The problem statements of the 1st Edition of the competition focused on **Disaster Management and Precision Agriculture** and successfully demonstrated the importance of hands-on innovation, indigenous capability development, and real-world problem-solving through drones.

93 teams qualified for the Grand Finale in the 1st Edition, culminating in the recognition of 24 winners, who received prizes worth ₹40 lakh and several other goodies.

NIDAR 2026-27:

Building on the success and national response, this year's competition is envisioned as a **larger national innovation platform to advance autonomous drone systems, indigenous avionics, autonomous navigation, and critical drone components.**

The **next phase of drone innovation will be shaped not only by airframes but also by autonomy stacks, embedded avionics, flight controllers, secure communication, mission software, and indigenous electronic subsystems.**

With the rapid growth of India's drone ecosystem and the increasing strategic importance of autonomous systems, **there is a strong need to encourage student-led innovation in areas such as GPS-denied navigation, collaborative drone operations, indigenous flight-control systems, and core electronic design.**

Objectives of NIDAR 2026-27

- To create a national innovation platform for student-led research and development in autonomous drone systems and indigenous avionics.

- To promote innovation in collaborative drone systems, GPS-denied navigation, indoor autonomy, and mission planning technologies.
- To encourage indigenous design and development of drone flight controllers, processors, and critical electronic subsystems.
- To strengthen collaboration between academia, government, defence, and industry.
- To provide students with hands-on exposure to real-world operational and strategic challenges in drone operations.
- To support India's vision of technological self-reliance and indigenous capability development in emerging technology sectors.

Mission 1 - NIDAR RescueSwarm

Under this challenge, teams will be required to develop **two or more fully autonomous collaborative drones capable of identifying survivors, geotagging locations, and delivering medical or survival kits within a disaster-affected area without relying on external communication networks.** The challenge focuses on multi-drone coordination, autonomous mission execution, collaborative scouting, and aid delivery in time-critical emergency scenarios.

Mission 2 - NIDAR AirMouse

This challenge focuses on **autonomous indoor drone navigation in GPS-denied environments.** Teams will develop autonomous aerial systems capable of navigating confined indoor spaces, generating 2D or 3D maps, detecting survivors, and tagging survivor locations inside damaged or collapsed structures. The challenge promotes innovation in indoor autonomy, mapping, obstacle avoidance, and localisation technologies for disaster response and industrial inspection applications.

Mission 3: NIDAR VEGAPilot

Under this challenge, teams will be required to **design and develop an indigenous drone flight controller and autopilot system built around the VEGA Processor platform.** The challenge aims to encourage innovation in integrating indigenous processors, autopilot architectures, embedded systems, mission planning, and reliable drone control systems, all using **non-Chinese electronic components.** Teams will demonstrate stable flight, mission execution, telemetry integration, and autonomous operations on standard multirotor platforms.

As part of the selection process, teams will submit detailed technical proposals and participate in online technical evaluations before a jury panel. Based on this evaluation, **only the top 100 teams across the country will be shortlisted and provided with two VEGA Processors** each for development, testing, and final integration.

This mission is expected to significantly strengthen India's indigenous drone electronics ecosystem and advance domestic capabilities in flight control systems, embedded avionics, and semiconductor-linked drone technologies.

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