



DEPARTMENT OF MECHANICAL ENGINEERING, NHCE

Presents

DRONE SHOW (DRONE LABORATORY INAUGURATION)

EVENT NAME: DRONE SHOW (DRONE LABORATORY INAUGURATION)

DATE: 28.09.2026

TIME: 12:30 PM

VENUE: Open Stage, New Horizon Knowledge Park

FACULTY COORDINATORS:

Dr. Ananth Pai, Assistant Professor, NHCE

Dr. Srinath M K, Associate Professor, NHCE

Prof. Hanamant Y, Assistant Professor (Sr.), NHCE

Prof. Raghu Tilak Reddy, Assistant Professor (Sr.), NHCE

Prof. Rajesh A, Assistant Professor (Sr.), NHCE

CONVENOR:

Dr. D.V. Sreekanth [HoD-ME],

GUESTS:

Mr. Dhermesh Manghnani [President]

Dr. R.J. Anandhi [Vice Principal - Academics]

Dr. Manjunatha [Principal]

INDUSTRY RESOURCE PARTNER: NeoSky India Pvt. Ltd, Bengaluru

TARGET AUDIENCE: Students and Faculty

NEW HORIZON COLLEGE OF ENGINEERING
SILVER JUBILEE CELEBRATION

DRONE SHOW

DRONE LABORATORY INAUGURATION

FLY | INNOVATE | INSPIRE

“Remember the race is for the skilled and the strong; we cannot hope to succeed if we expect to prosper without acquiring the scientific precision, the inventive faculty, the thoroughness, the discipline, and restraints of modern civilisation..”

— Sir Mokshagundam Visvesvaraya

28 Sep 2026
12:30 PM
Open Stage

INNOVATING AVIATION

DRONE DEMONSTRATIONS | OPEN TO ALL DEPARTMENTS | BEST DRONE AWARD | STUDENT INNOVATION | COLLABORATE ACROSS DISCIPLINES

Let Ideas Take Flight

AN INITIATIVE BY
DEPARTMENT OF MECHANICAL ENGINEERING

EXPLORE | CREATE | COLLABORATE | BUILD A BRIGHTER TOMORROW

QR CODE: @MECH_NHCE

EVENT REPORT

Objectives

The Drone Show was organized with the following objectives:

- To provide students with practical exposure to different types of drones and their applications.
- To demonstrate the capabilities of student-built and industry-developed unmanned aerial systems.
- To showcase practical applications such as aerial surveying, mapping, video recording and aerial payload delivery.
- To demonstrate different flight manoeuvres and drone configurations through live operation.
- To encourage students to develop interest in drone design, fabrication, flight control and autonomous systems.
- To provide a platform for student innovation and hands-on learning in drone technology.
- To strengthen industry-academia interaction through collaboration with NeoSky India Pvt. Ltd.
- To create awareness about the newly established Drone Technology Laboratory and its potential for student projects, experimentation and innovation.

Report

The Drone Show commenced at the Open Stage of New Horizon College of Engineering on 28 September 2026 with convenors inspecting the drones placed on the stage, while interacting with the students. The programme formed part of the inauguration of the Drone Laboratory and the Silver Jubilee celebrations of the institution.

The event featured a series of live demonstrations involving student-built drones, micro and nano drones, an indigenous drone developed by the industry partner, and an FPV drone. The demonstrations were designed to expose students to different drone configurations, applications and flight manoeuvres.

A major highlight of the event was the participation of rookie student pilots who demonstrated drones developed and operated by students. The demonstrations illustrated the practical application of concepts related to drone design, fabrication, propulsion, flight control and operation.

Drone Demonstration Sequence

The opening demonstration featured Aphx 1, a multipurpose drone built by the students of the Department of Mechanical Engineering. Operated by Harshit, the drone demonstrated controlled aerial payload delivery by releasing flowers and chocolates from the air. The demonstration showcased how a student-built UAV can be adapted for practical applications involving the controlled carrying and release of lightweight payloads.

The next major demonstration featured DoPo. DoPo is an indigenous drone developed by the department's industry partner, NeoSky India Pvt. Ltd., and was demonstrated for survey and mapping applications. The demonstration provided students with an opportunity to observe an industry-developed UAV designed for application-oriented operations and helped highlight the potential of drone technology in areas requiring aerial data collection and spatial mapping.

The student-built drones Smaug, operated by Ricky Hanish, Nazgul, operated by Allen Kissinger, and Nekron piloted by Dhruv demonstrated coordinated Infinity flight manoeuvres. The manoeuvres involved controlled movement of the drones through a defined flight pattern, demonstrating the pilots' ability to maintain orientation, position and flight control while executing continuous movements. The demonstrations also highlighted the practical experience gained by students through the development and operation of their own UAV platforms.

The Aphx 2 micro drone, operated by Pravin, demonstrated its application for aerial video recording. Its compact form factor provided an example of how smaller UAV platforms can be used for aerial imaging and recording. The demonstration introduced students to the use of drones beyond conventional flight manoeuvres, particularly in applications where a compact aerial platform is advantageous.

The Eternal, operated by Chirdeep, Aphx 3, operated by Paul, and TRex, operated by Lohan, were student drones based on the F450 platform. These drones were used for a series of general flight demonstrations, allowing the audience to observe the operation of a larger and commonly used multirotor configuration. The demonstrations highlighted the students' practical involvement in assembling, configuring and operating multirotor platforms.

The Rookie nano drone, operated by Bipash, demonstrated the capabilities of a highly compact UAV platform. The demonstration provided a contrast to the larger F450-based drones and illustrated the range of drone sizes and configurations being explored by the students of the department.

Big Hero 6, operated by Alan, was a micro drone that performed a 3D flip. The manoeuvre involved a rapid change in the drone's orientation during flight and provided an engaging demonstration of aerial manoeuvrability. The performance showcased the precision and control required to execute dynamic flight manoeuvres using a compact drone platform.

The demonstration sequence concluded with Aphx Pro, operated by Pravin, which presented an FPV (First-Person View) demonstration. The FPV system provided the pilot with a direct aerial perspective during flight, allowing the audience to experience a different mode of drone operation. The demonstration featured FPV flight manoeuvres and highlighted the growing interest of students in advanced drone operation and immersive aerial systems.

As the concluding highlight of the Drone Show, the drones demonstrated during the programme were flown together in the sky as a collective display representing the Drone Technology initiatives of the Department of Mechanical Engineering. The simultaneous flight of multiple student and industry-associated UAV platforms created a striking aerial presentation and brought together the different drone systems demonstrated during the event.

The collective flight symbolized the hands-on learning, student innovation, technical skills and collaborative efforts of the Department of Mechanical Engineering in the field of UAV technology. Seeing multiple drones operated together provided the audience with a visual representation of the department's growing capabilities in drone design, fabrication, integration and flight operations.

The finale also served as a showcase of the Drone Technology Laboratory, demonstrating the range of platforms and practical activities that students can engage with through the department. The event concluded with the drones of the Mechanical Engineering Department taking to the sky together, marking a memorable culmination to the Drone Show and the inauguration of the Drone Laboratory.

Learning Outcomes:

The Drone Show provided students with practical exposure to:

- Different types and configurations of multirotor UAVs.
- Student-level drone design, fabrication and integration.
- Basic principles of drone flight and pilot control.
- Flight manoeuvres involving controlled changes in position and attitude.
- Application of drones for survey and mapping.
- Aerial video recording using compact drone platforms.
- Payload delivery using multipurpose drones.
- FPV-based drone operation.
- Differences between nano, micro and larger multirotor platforms.
- Industry-developed indigenous drone technology.
- Practical challenges associated with operating UAVs in real-world environments.

Conclusions

The Drone Show successfully provided a practical and engaging demonstration of UAV technology to students and faculty at New Horizon College of Engineering. The programme showcased a diverse range of drones, including student-built multipurpose drones, F450-based platforms, micro drones, a nano drone, an FPV platform and an indigenous industry-developed drone.

The demonstrations of aerial payload delivery, survey and mapping, video recording, controlled flight manoeuvres, 3D flipping and FPV operation provided students with a broad overview of practical UAV capabilities.

The event also highlighted the importance of hands-on learning, student innovation and industry collaboration in developing practical skills in emerging technologies. The Drone Show therefore served as an important activity associated with the inauguration of the Drone Technology Laboratory and the institution's Silver Jubilee celebrations.

GLIMPSES OF THE EVENT























