

## 2 DAYS WORKSHOP ON DRONE TECHNOLOGY



### Table of Contents

Introduction .....	1
Workshop Overview .....	2
2.1 Workshop Details .....	2
2.2 Objectives .....	2
2.3 Key Features .....	3
2.4 Workshop Activities .....	3
2.5 Event Coordinators .....	4
Participation Details .....	5
3.1 List of Participants .....	5
3.2 Volunteers .....	6
Overall Feedback Summary .....	7
4.1 Day 1 Summary .....	7
4.2 Day 2 Summary .....	8
Conclusion .....	9
Workshop Glimpses .....	10



## 1. INTRODUCTION

The Drone Technology Workshop organized by NOTARC and the KSIT Association with VTU was conducted to provide students with a comprehensive understanding of modern drone systems. This workshop aimed to bridge the gap between theoretical knowledge and practical application in the field of aerial robotics. Drones have become an essential part of various industries including surveillance, agriculture, delivery systems, and disaster management.

The session introduced participants to the basic concepts of drone technology, including its components, working principles, and control mechanisms. Students were familiarized with key drone movements such as throttle, pitch, roll, and yaw. The workshop emphasized experiential learning through simulation and real-time demonstrations.

A major highlight of the event was the hands-on session, where participants got the opportunity to operate drones under expert guidance. This practical exposure helped students understand flight stability, control sensitivity, and safety measures. The interactive nature of the workshop encouraged active participation and curiosity among students.

Overall, the workshop served as an excellent platform for students to explore emerging technologies and develop an interest in drone engineering and innovation.

## 2. WORKSHOP OVERVIEW

### 2.1 WORKSHOP DETAILS:

- **Workshop Name:** Drone technology with Hands on Session.
- **Collaborator:** NOTARC (National Objects and Transport Administration with Research Center).
- **Host:** Garut Aerobatics Club, Dept of ECE.
- **Date:** 10<sup>th</sup> and 11<sup>th</sup> April 2026.
- **Venue:** K.S INSTITUTE OF TECHNOLOGY.

### 2.2 OBJECTIVES:

- **Understanding Drone Technology:** To provide participants with fundamental knowledge of drone components, working principles, and flight mechanisms.
- **Hands-on Learning:** To enable students to gain practical experience through simulation and real-time drone flying sessions.
- **Skill Development:** To enhance technical skills related to drone operation, control systems, and basic troubleshooting.
- **Industry Exposure:** To bridge the gap between academic learning and real-world applications through collaboration with industry experts from NOTARC.
- **Encouraging Innovation:** To inspire students to explore innovative ideas and applications in the field of drone technology and aerial robotics.



### **2.3 KEY FEATURES:**

- **Expert Guidance:** The workshop was conducted by professionals from NOTARC, providing valuable industry insights.
- **Hands-on Experience:** Participants were given the opportunity to operate drones and understand flight controls practically.
- **Simulation Training:** Safe learning environment through drone simulators before real-time flying.
- **Interactive Sessions:** Engaging explanations and doubt-clearing sessions encouraged active participation.
- **Industry Exposure:** Participants gained knowledge about real-world applications of drones.
- **Certificates:** E-certificates were provided to all participants.

### **2.4 WORKSHOP ACTIVITIES:**

- The workshop included the following sessions:
  - Introduction to Drone Technology
  - Understanding Drone Components
  - Drone Control Mechanisms (Throttle, Pitch, Roll, Yaw)
  - Simulation Training Session
  - Hands-on Drone Flying Session.

### **2.5 EVENT COORDINATORS:**

- **Resource Persons:**
  1. Vikas P M (CEO founder of NOTARC)
  2. Adhi S P
  3. Prajwal K V
- **Faculty Coordinator:** Mr. Christo Jian [Garut club Co-Ordinator]
- **Student Coordinators:**
  1. Kavya M [6<sup>th</sup> Sem, ECE]
  2. Shalini S [6<sup>th</sup> Sem, ECE]

## Participation Details



### ➤ List of Participants:

TEAM NAME	NAMES	USN	DEPARTMENT	SEM	SECTION
NEXUS	HARSHITHA.S HANDE	1KS25EC038	ECE	2nd	G
	GAANIKA K S	1KS25EC029	ECE	2nd	G
	INCHARA R	1KS25EC042	ECE	2nd	G
	ARPITHA R	1KS25EC015	ECE	2nd	G
	ESHWAR M R	1KS25EC027	ECE	2nd	G
	GOURAV H.N	1KS25EC032	ECE	2nd	G
SKY TITANS	VAMSHI .U	1KS24EC112	ECE	4th	B
	VRISHAB BHANDARI	1KS24EC116	ECE	4th	B
	P . BHUVAN SAI	1KS24EC068	ECE	4th	B
	TARUN P	1KS24EC106	ECE	4th	B
	PRAJWAL	1KS24EC072	ECE	4th	B
	MOUDGALYA				
	NITHIN	1KS24EC066	ECE	4th	B
ARTEMIS	PAVITHRA.G	1KS24EC0115	ECE	4th	B
	VISHWAS	1KS24EC105	ECE	4th	B
	THANU SHREE	1KS24EC110	ECE	4th	B
	SHASHANK	1KS24EC090	ECE	4th	B
	NIKHIL	1KS24EC064	ECE	4th	A

	MOURYA	1KS24EC054	ECE	4th	A
AETHER	SOUNDARYA . A	1KS25EC104	ECE	2nd	H
	SAMSKRUTHI VADIRAJ KULKARNI	1KS25EC093	ECE	2nd	H
	PUNITHA.V	1KS25EC076	ECE	2nd	H
	SHRUTHI.M	1KS25EC101	ECE	2nd	H
	PREETHI.K	1KS25EC073	ECE	2nd	H
	ANAGHA.A	1KS25EC009	ECE	2nd	G
NEON VOLT	SHALINI S	1KS23EC095	ECE	6th	B
	KHUSHI JAGTHAP	1KS23EC044	ECE	6th	A
	POOJA CHAWAN	1KS23EC075	ECE	6th	B
	LAHARI M	1KS23EC054	ECE	6th	A
	HUSNA FATHIMA	1KS23IC023	CSE ICB	6th	H
	J YAGNESH ANUGA	1KS23IC016	CSE ICB	6th	H
INNOSPARK	KAVYA M	1KS23EC043	ECE	6th	A
	DISHA R	1KS23EC030	ECE	6th	A
	KRUTHI M	1KS23EC047	ECE	6th	A
	KHUSHI R	1KS23EC045	ECE	6th	A
	MEGHANA K	1KS23EC061	ECE	6th	A
	BHANU PRIYA D N	1KS23EC016	ECE	6th	A

➤ **Volunteers:**



NAMES	USN	DEPARTMENT	SEM	SECTION
SHASHANTH NAIDU	1KS23EC041	ECE	6TH	A
SUSHMITHA PAI S	1KS24EC102	ECE	4TH	B
YASHASWINI M N	1KS24EC119	ECE	4TH	B

## 2.6 Overall Feedback Summary:

### Day 1 Summary :

- Day 1 focused on introducing the basics of drones.
- Participants learned about drone components and their functions.
- Flight demo simulations helped visualize drone operation.
- Hands-on sessions allowed students to build drones.
- Most participants rated the sessions as excellent.
- The workshop was highly interactive and engaging.
- Students enjoyed assembling and understanding the hardware.
- Practical exposure made concepts easy to understand.
- A few suggested improving explanation of basic concepts.
- Overall, Day 1 was successful in building strong fundamentals.

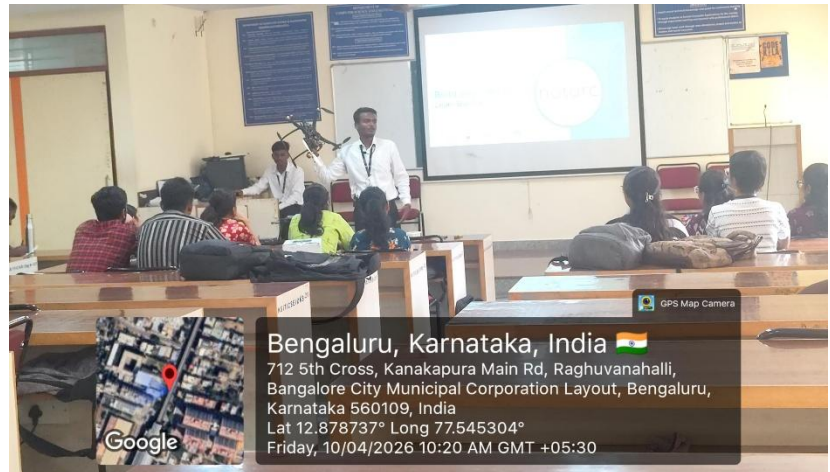
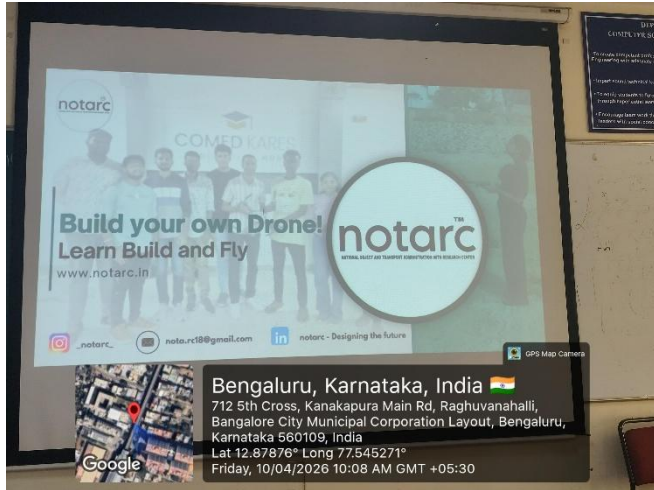
### Day 2 Summary :

- Day 2 focused on advanced concepts like coding and calibration.
- Participants learned about code testing and drone programming.
- Flight sessions provided real-time practical experience.
- Calibration sessions helped in understanding drone setup.
- Most participants gave excellent feedback.
- Students appreciated the practical and technical depth.
- Some faced difficulty in understanding coding concepts.
- Suggestions included better explanation of code logic.
- Participants recommended smaller groups for better involvement.
- Overall, Day 2 was impactful with scope for technical improvements.

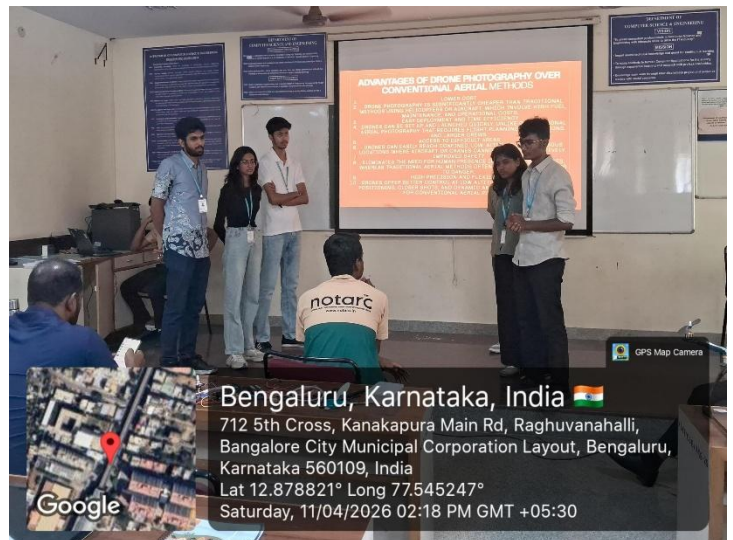
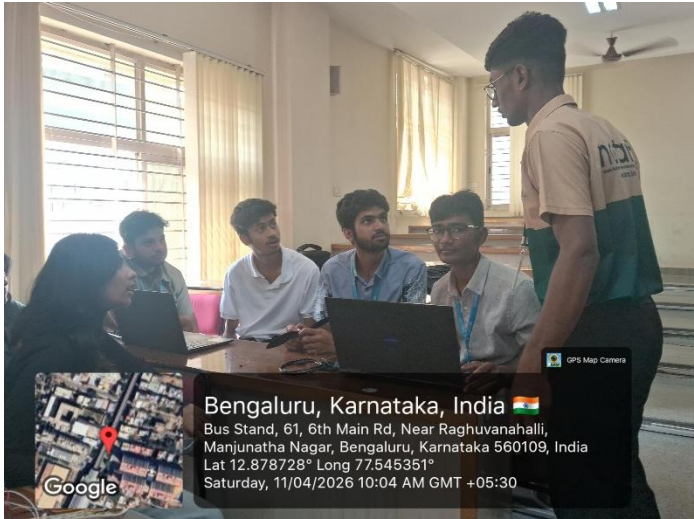
## 2.7 CONCLUSION:

The Drone Workshop served as an informative and engaging platform for students to explore the fundamentals and applications of drone technology. Through a combination of theoretical learning, simulation, and hands-on experience, participants gained valuable insights into aerial robotics. The workshop successfully fostered interest, enhanced technical skills, and provided exposure to real-world drone applications.

## 2.8 WORKSHOP GLIMPSES: DAY-1



# DAY-2





Bengaluru, Karnataka, India  
712 5th Cross, Kanakapura Main Rd, Raghuvanahalli, Bangalore City Municipal Corporation Layout, Bengaluru, Karnataka 560109, India  
Lat 12.878834° Long 77.54516°  
Saturday, 11/04/2026 03:09 PM GMT +05:30



Bengaluru, Karnataka, India  
Manjunath Nilayam, Raghuvanahalli, Bangalore City Municipal Corporation Layout, Bengaluru, Karnataka 560109, India  
Lat 12.879359° Long 77.544452°  
Saturday, 11/04/2026 05:26 PM GMT +05:30



Bengaluru, Karnataka, India  
Manjunath Nilayam, Raghuvanahalli, Bangalore City Municipal Corporation Layout, Bengaluru, Karnataka 560109, India  
Lat 12.879467° Long 77.544487°  
Saturday, 11/04/2026 04:02 PM GMT +05:30



Bengaluru, Karnataka, India  
Manjunath Nilayam, Raghuvanahalli, Bangalore City Municipal Corporation Layout, Bengaluru, Karnataka 560109, India  
Lat 12.879369° Long 77.544418°  
Saturday, 11/04/2026 05:09 PM GMT +05:30

### CO/PO&PSO Mapping

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Mapping strength	3	3	3	3	3	-	2	2	3	3	-	3



Faculty Coordinator




HOD



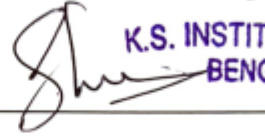
Principal  
- PRINCIPAL

K.S. INSTITUTE OF TECHNOLOG  
BENGALURU - 560 109.



Student Coordinator

Kavya.M



Student Coordinator

Shalini.S