

Department of Aeronautical Engineering

Organized

NAGASTRA – 1: Technical Talk Report

Poster



Title: NAGASTRA-1: The Silent Warrior of Operation Sindoor

Organized By: Department of Aeronautical Engineering, GCEM

Date: 29th September 2025

Venue: 6th Floor Seminar Hall, Gopalan College of Engineering and Management, Hoodi, Bangalore – 560048

Resource Person

Mr. Anil Kumar M V Senior General Manager – Projects & Operations ZAS – Zmotion Autonomous Systems

Organizer

Prof. Likhith Raj R Assistant Professor, GCEM

Convener

Dr. Manjunath S V Associate Professor, GCEM

Event Schedule

1. Welcome Address

- Ms. Chaitanya, 7th Semester Aeronautical Engineering student, extended a warm welcome to the dignitaries, faculty, and students.



2. Dignitaries on Stage

- The stage was honored by the presence of the Head of the Department (Aeronautical Engineering), Dr. Manjunath S V (Convenor), and the esteemed guest speaker Mr. Anil Kumar M V.



3. Inauguration

- The event was inaugurated with the symbolic act of watering a plant, signifying growth, sustainability, and continuous learning.
- Saplings were also presented to the dignitaries as a token of respect and tradition.



4. Technical Talk

- Mr. Anil Kumar M V delivered an insightful lecture on “NAGASTRA-1: The Silent Warrior of Operation Sindoor”.
- He shared his vast experience in UAV R&D, manufacturing, and defense operations, highlighting the role of autonomous systems in strengthening national security.



5. Interactive Session

- The talk was followed by an engaging Q&A session.
- Students asked questions about UAV technology, hybrid drones, defense acquisition processes, and career prospects.
- The guest answered in detail, motivating students to pursue innovative research in aerospace and defense technologies.



6. Felicitation

- To mark gratitude and appreciation, the guest speaker Mr. Anil Kumar M V was honored with a memento by the organizers and faculty members.



Event Summary

The technical talk effectively bridged academic learning with industrial expertise, focusing on NAGASTRA-1 and its operational role in Operation Sindoor. The inauguration with the watering of a plant symbolized growth and continuous learning, setting an inspiring tone for the session.

Mr. Anil Kumar shared insights from his vast experience — from UAV test pilot to Senior GM of Projects and Operations at ZAS — highlighting the design, manufacturing, and deployment of advanced autonomous systems. The discussion emphasized project execution, regulatory compliance, and innovation in UAV technologies.

Key Takeaways

- Exposure to indigenous UAV technologies and their defense applications.
- Insights into canister-launched UAV systems, hybrid drones, and surveillance-based platforms.
- Understanding project management, quality assurance, and regulatory compliance in defense manufacturing.
- Motivation for students to pursue careers and research in aerospace, UAVs, and autonomous systems.

- Symbolic value of growth and sustainability, highlighted through the inaugural watering of the plant.
- Recognition of industry expertise through felicitation with a memento.

Conclusion

The technical talk was highly informative and motivational. The structured flow — beginning with the welcome, dignitaries, inauguration, technical session, interactive discussion, and felicitation — ensured a meaningful and memorable learning experience.

The session successfully connected theoretical knowledge with practical industry insights, inspiring students to explore emerging opportunities in aerospace and defense technology.

Acknowledgments

Special thanks to the leadership of Gopalan College of Engineering and Management for their continued encouragement and support:

- Dr. Arun Vikas Singh, Principal, GCEM
- Dr. C Prabhakar, General Secretary & Director, Gopalan Foundations
- Mrs. Sunitha Prabhakar, Director, GCEM

Their guidance and support were instrumental in the successful organization of this technical talk.

We also extend heartfelt thanks to all the **event coordinators** for their dedicated efforts in making this program successful:

- Ms. Chaitanya, 7th Semester Aeronautical Engineering
- Mr. Sidharth, 7th Semester Aeronautical Engineering
- Ms. Vyshnavi, 5th Semester Aeronautical Engineering
- Mr. Shiva Prasad, 5th Semester Aeronautical Engineering
- Mr. Akash, 5th Semester Aeronautical Engineering
- Mr. Vinod, 5th Semester Aeronautical Engineering
- Mr. Rovin, 5th Semester Aeronautical Engineering
- Ms. Ramya M, 5th Semester Aeronautical Engineering