

Seminar on
**Advances in
Unmanned Aerial Vehicle
Design and Technology**



Old Hindustan Management Academy,
Suranjan Das Road, Jeevan Bima Nagar,
Bengaluru, Karnataka 560017

18th September 2026

Organized by:



THE AERONAUTICAL SOCIETY OF INDIA
Bangalore Branch



About the Seminar:

Unmanned Aerial Vehicles have rapidly emerged as one of the most transformative technologies in modern aerospace, reshaping applications across defence, surveillance, logistics, agriculture, and civil aviation. As India strengthens its focus on indigenous design, development, and manufacturing capabilities in the UAV domain, this seminar brings together R&D organizations, academia, industry leaders and Armed Forces representatives to deliberate on the technologies and trends shaping the future of unmanned flight.

About The Aeronautical Society of India:

The Aeronautical Society of India (AeSI), was established in 1948, under the patronage of the Hon'ble Prime Minister of India, with a vision to spearhead the growth of aeronautics & aerospace in the country. The objective of the Society is to promote the advancement and dissemination of knowledge of Aeronautical & Aerospace Sciences/Technologies. With 18 branches across the nation, a dedicated Journal Office, two Design Divisions, and with a robust membership exceeding 15,000 professionals, over 10,000 student members and 66 corporate members, AeSI has been at the forefront, pioneering advancements in aeronautics & aerospace and fostering a connected ecosystem of Services, R&D organisations, industry & academia, propelling India towards global leadership.

About The Aeronautical Society of India, Bangalore Branch:

The Bangalore Branch of the Aeronautical Society of India (AeSI) is one of its most active and prominent regional centers, playing a key role in advancing the Society's vision of promoting aeronautics and aerospace in India. Situated in the hub of India's aerospace ecosystem, the Bangalore Branch actively collaborates with R&D organizations, academia, and industry to promote innovation and knowledge sharing. It regularly organizes technical lectures, workshops, and major events like the Aero India International Seminar. Through its initiatives, the Bangalore Branch significantly contributes to India's growth as a global aerospace leader.

Programme Schedule

09:00 - 09:30 Registration
09:30 - 10:00 Inaugural Session

10:00 - 10:30 High Tea

Session 01: UAV Technology and Propulsion

10:30 - 11:00 UAV Technologies and Flight Testing
Shri. Christi V. Jacob, Sc. G, ADE

11:00 - 11:30 Propulsion System Technologies for UAVs
Shri. Sharad Kapil, Sc. G, GTRE

11:30 - 12:00 Design Methodology for UAVs
Prof. H. K. Narahari, Formerly ADA & MSRUAS

12:00 - 12:30 Tea Break

Session 02: Aerodynamics and CFD Analysis

12:30 - 13:00 Aerodynamics and Performance Considerations
Shri. Saravanan B., Sc. F, ADE

13:00 - 13:30 CFD Analysis of UAV Configurations
Shri. R. Kannan, Chief Manager, ARDC, HAL

13:30 - 14:30 Lunch Break

Session 03: Avionics and Flight Testing

14:30 - 15:00 Avionics, Flight Controllers, Sensors and Payload Integration
Dr. PVS Murthy, Principal Scientist, CSIR-NAL

15:00 - 15:30 Testing, Performance Evaluation and Engine Data Analysis
Shri. Nagaraja Betageri, Sc. G, GTRE

15:30 - 15:45 Tea Break

Session 04: Future of UAV Technology

15:45 - 16:15 Autonomous Swarms with Multi-Agent Reinforcement Learning
Shri. Praveen Nayak, Director-AI Systems, Amber Wings Co

16:15 - 16:45 Next-Generation UAV Propulsion
Shri. Gurushankara K. C., CEO, Dheya Engineering Technologies

16:45 - 17:00 Valedictory and High Tea

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Contact: +91 95133 96177

aesibangalore75@gmail.com

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