



4th ANNUAL WEBINAR ON ADVANCED TECHNOLOGIES IN AERO GAS TURBINE ENGINES IN INDIAN SCENARIO

**SAVE THE
DATES**

**26th - 27th
SEPTEMBER 2025**

Registration is Free

Last date for Registration: 15th Sept. 2025

Organised by



Design Division, The Aeronautical Society of India



Gas Turbine Research Establishment, DRDO



DIA-CoE, IIT Bombay



National Council for Air Breathing Engines

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This is the fourth edition of the webinar on aero gas turbine engines in Indian scenario. Following the success of the first webinar (held on January 28th and 29th, 2022), second webinar (held on July 21st and 22nd, 2023) and the third webinar (held on August 23rd and 24th, 2024) in virtual mode, the organising committee is excited to continue the initiative. The webinar will address a range of topics including large fighter aero-engines, small gas-turbine engines, and turbo-shaft engines. It will emphasize the technological requirements and the technology readiness levels necessary for the development of next-generation aero-engines in India. This event is being jointly organized by the Design Division of The Aeronautical Society of India (AeSI), Gas Turbine Research Establishment (GTRE), DRDO Industry Academia Centre of Excellence (DIA-CoE, IIT Bombay) and the National Council for Air Breathing Engines (NCABE), focusing on role of aero gas turbines in Indian scenario.

Key topics encompass

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| 1 Gas Turbine Engines | 5 More Electric Engines |
| 2 Combustion & Fuels | 6 AI-ML & Digital Twin Technology |
| 3 Advanced Materials | 7 Stealth Technology |
| 4 Compressors, Fans, and Turbines | 8 Engine Accessories and LRUs |



Design Division, The Aeronautical Society of India

The Design Division of AeSI at Bangalore is aimed at leading and elevating aerospace design professionals. This division promotes inter-organisational exchange of ideas, showcases professional contributions, and facilitates global networking. It also fosters learning through collaboration with industry experts ensuring continuous professional development and knowledge enhancement.

Gas Turbine Research Establishment, DRDO

As one of the leading laboratories of the Defence Research & Development Organisation (DRDO) under the Ministry of Defence, Government of India, GTRE is primarily tasked with the design and development of aero gas-turbine engines for military applications. In addition, GTRE is engaged in specialised research on advanced aero gas-turbine technologies. GTRE is also responsible for establishing essential testing and prototype manufacturing facilities to enable full-scale engine development.



DRDO Industry Academia Centre of Excellence (DIA-CoE), IIT Bombay

Established to achieve high international repute and stature among professionals, this centre is dedicated to developing futuristic gas turbine technologies through cutting-edge research initiatives. It aims to collaborate with leading experts from academia and industries worldwide, addressing the technological challenges to bolster the country's defence sector.

National Council for Air Breathing Engines (NCABE)

The National Council for Air Breathing Engines was established in 1992 as a trust to foster and stimulate R&D activities in aerospace propulsion within India. The trust organises and co-organises major technical events, such as NAPC, at various aerospace institutions across the country, attracting widespread participation from the Indian aerospace community. The NCABE trust also serves as India's counterpart to the International Society for Air Breathing Engines (ISABE).



PROGRAMME SCHEDULE

DAY 1 | FRIDAY, 26th SEPTEMBER 2025

09:00 - 10:00 AM : Inaugural Session

Inauguration of Webinar and Inaugural Address : Dr. Samir V Kamat
Secretary, Dept. of Defence R&D and Chairman, DRDO

Keynote Address : Dr. K Rajalakshmi Menon
Distinguished Scientist, Director General (Aeronautical Systems), DRDO

SESSION 1 : Role of Aero Gas Turbines in Indian Defence Scenario

SESSION 2 : Advanced Technologies for Future Gas Turbine Engines

SESSION 3 : High Specific Strength Materials and Advancements in Materials

SESSION 4 : Stealth Technology for Aero-Engine Systems

SESSION 5 : Aero Gas Turbine Research in Academic Institutions

SESSION 6 : Panel Discussion: Gas Turbines in Indian defence for Aatmanirbharta

DAY 2 | SATURDAY, 27th SEPTEMBER 2025

SESSION 7 : Aero Engine Control Systems & Engine Health Monitoring

SESSION 8 : More Electric & All Electric Aero Gas Turbine Engines

SESSION 9 : Panel Discussion: Test Facilities Development For Gas Turbines/ Condition Monitoring

SESSION 10 : Advanced Manufacturing Technologies

SESSION 11 : Design & Development of System Accessories and LRUs

SESSION 12 : Digital Twin Technology Augmented by AI-ML

SESSION 13 : Indian Industry in Aero Gas Turbine Engine Development

PATRONS

Dr. Samir V Kamat

Dr. V Narayanan

Dr. D K Sunil

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Chairman, ISRO & Secretary of the Department of Space

Chairman and Managing Director, HAL

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Director General, Aeronautical Development Agency

Former Program Director - LCA, ADA

Former Director General - Aeronautical Systems, DRDO

Former Director, GTRE

Chairman, NCABE & Professor (Retd.), IISc Bangalore

Director, Aeronautical Development Establishment, DRDO

Chief Executive, CEMILAC, DRDO

Director, Gas Turbine Research Establishment, DRDO

Director, Defence Metallurgical Research Laboratory, DRDO

Director, NAL-CSIR

Chairman Design Division - AeSI & Professor, IIT Bombay

Assistant Chief of Air Staff (Plans), Air HQ(VB)

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