Rashtriya Raksha University

An Institute of National Importance
Ministry of Home Affairs, Govt. of India

AEROSPACE WORKSHOP

Aerospace Dominance in Modern Warfare: Technology, Strategy and India's Path to Atmanirbharta

19 JANUARY to 23 JANUARY, 2026

Venue:
Rashtriya Raksha University
Lavad-Dahegam,
Gandhinagar – 382305

Organised by-

SCHOOL OF INTERNAL SECURITY, DEFENCE AND STRATEGIC STUDIES

ABOUT THE PROGRAMME

The aerospace sector has evolved into one of the most critical domains for national security and modern warfare. The ability to control the skies and space is now a defining feature of a nation's military power, providing strategic advantages in surveillance, logistics, combat operations, and deterrence. Air power, once restricted to traditional fighter aircraft and bombers, now encompasses an array of technologies such as unmanned systems, cyber warfare, space operations, and hypersonic weapons.

With the emergence of new threats and evolving defence technologies, understanding aerospace's significance is essential for military professionals, policymakers, and academic scholars. The growing importance of aerospace in modern warfare, makes it imperative for professionals in defence and security studies to stay abreast of recent advancements. India, as a major player in regional and global defence, is rapidly expanding its aerospace capabilities through indigenous production and technological innovation.

The contributions of organisations like HAL and DRDO have further solidified India's position in aerospace development, enabling the country to adapt to modern combat and security challenges. Its further advancement is essential to realise the Prime Minister Shri Narendra Modi's vision of "Atmanirbharta" in defence sector.

Against this backdrop, the School of Internal Security, Defence and Strategic Studies (SISDSS) at Rashtriya Raksha University, Gujarat is organising an Aerospace Workshop from 19th to 23nd January 2026. This initiative aims to offer a comprehensive platform to discuss and analyse the contemporary challenges and advancements in aerospace and defence technologies.

The week will bring together military veterans, aerospace experts, and representatives from leading defence organisations, providing invaluable insights into the operational, strategic, and technological aspects of air and space power. This includes the discussion around, but not limited to, Transport Aircraft & Operation HADR and the role of aerospace in Defence Production.

In addition to this, Representatives from DRDO & HAL will provide critical insights into Aerospace Defence Production and Defence R&D in India, highlighting the indigenous advancements in technology. As the event unfolds, sessions on Cyber and Air Warfare and Space and Hypersonic Technologies will provide a holistic view of the air and space domains.

One of the highlights of the week will be a session on Space Operations, where the role of space as a critical frontier for military applications will be discussed in depth.
The Workshop seeks to fill the knowledge gap by facilitating discussions on critical topics such as transport and fighter aircraft operations, space warfare, electronic warfare, and hypersonic technologies. Furthermore, it aims to bridge the gap between theoretical knowledge and practical applications in the aerospace domain; facilitate discussions on India's current aerospace capabilities and future goals, with inputs from veterans and defence professionals.

Through a mix of contemporary perspectives and forward-looking analysis, participants will gain an understanding of strategic importance of the growing reliance on unmanned aerial systems, the emerging field of space warfare and the next generation of technologies.

TOPICS

- Evolution of Air Power
- Fighter Operations
- Transport Aircraft & Operation HADR
- Helicopter Operations
- Air & Defence Diplomacy UN Operations
- Electronic Warfare
- Aerospace Defence Acquisition
- Cyber Warfare
- Defence R&D in India
- Aeroengine Technologies & Complexion
- Unmanned Aerial Systems & Loitering Munitions
- Hypersonic Weapons
- Directed Energy Weapons

IMPORTANT INFORMATION:

- The programme will be conducted in offline mode at RRU Gandhinagar Campus.
- Upon successful completion, participants will receive a certificate.
- Accommodation will be available on a payment basis.

For any query, please contact:

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Registration Link:

https://rise.rru.ac.in/Course/33/0

Organising Committee

PATRON-IN-CHIEF

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