



**Rashtriya Raksha University's**

# **AEROSPACE WEEK**

**ADVANCED EXPLORATION AND  
RESOURCE OPTIMISATION FOR  
STRATEGIC PROTECTION OF AIR &  
CYBER ENHANCEMENT**



**18 NOVEMBER TO  
22 NOVEMBER, 2024**

**Venue:**

**Rashtriya Raksha University  
Lavad-Dahegam,  
Gandhinagar – 382305  
Phone No. – 079-68126800**

**SCAN HERE**



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**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, especially with its integration with cyber capabilities, unmanned systems, and space technologies, 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 (Hindustan Aeronautics Limited) and DRDO (Defence Research and Development Organisation) 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 Narendra Modi's objective 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 Week from 18th to 22nd November 2024. 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. The participants will range from professionals from defence and industry to students and academicians, thereby making it into a melting pot of multifarious expertise, experiences and perspectives of various stakeholders space and defence ecosystem.

During the course of the week, the various domain experts from defence, industry and academia will deliver the lectures on various topics related to aerospace and defence. This includes the discussion around, but not limited to, Transport Aircraft & Operation HADR Air First Mover and the role of aerospace in Defence Production.



In addition to this, Representatives from HAL and DRDO 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 Helicopter Operations, Cyber and Air Warfare, and Space and Hypersonic Technologies will provide a holistic view of the air and space domains. Experts will delve into the Evolution of Air Power, detailing the transformation of air operations and how air power continues to shape military doctrines. Other crucial discussions will focus on unmanned systems, loitering munitions, and directed energy weapons, providing participants with an understanding of the cutting-edge technologies redefining air warfare. 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. Topics such as Electronic Warfare, Aeroengine Technologies, and Complexion in Aerospace will also provide practical insights into the technical challenges and innovations in this field.

This Aerospace Week 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 provide a detailed understanding of air and space operations, with a focus on technological advancements; 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; promote awareness of emerging trends such as hypersonic flight, unmanned systems, and cyber warfare and encourage networking among defence professionals, scholars, and industry representatives to foster collaboration and innovation.

Through a mix of historical perspectives and forward-looking analysis, participants will gain an understanding of strategic importance of controlling the airspace domain, the growing reliance on unmanned systems, the emerging field of space warfare, and the next generation of technologies like hypersonic and directed energy weapons. This program will not only enhance academic knowledge but also contribute to shaping future military and defence strategies, particularly in the Indian context. By offering a platform for discussion and knowledge exchange, this Aerospace Week will equip participants with the necessary tools and insights to contribute effectively to India's aerospace and defence ecosystem.

# TOPICS

- Domain & Dynamics of Air & Space
- Evolution of Air Power and Air Operation
- Fighter Operation
- Transport Aircraft & Operation HADR Air First Mover
- Helicopter Operation
- Air & Defence Diplomacy UN Operation
- Electronic Warfare
- Aerospace Defence Production (Representative of HAL)
- Cyber Warfare
- Defence R&D in India
- Aeroengine Technologies & Complexion
- Unmanned System Drones, LM
- Hypersonic Flight and Weapons
- Weapons, Loitering Munitions and Directed Energy Weapons

# SPEAKERS

- Air Vice Marshal DV Khot, AVSM, VM
- Air Commodore Eric Janiclass Anthony, VSM
- Air Vice Marshal S Srinivasan, AVSM, VSM (TBC)
- Air Vice Marshal Rajesh Isser AVSM, VM
- Air Vice Marshal Suresh Singh, AVSM, VSM
- Gp Capt Amitabh Mathur

# COURSE CURATOR

**Air Marshal Anil Chopra, PVSM,  
AVSM, VM, VSM**

**Emeritus Resource Faculty  
School of Internal Security, Defence  
and Strategic Studies**



# FEE STRUCTURE

RRU Student	₹ 5000/-
Research Scholar	₹ 5000/-
RRU Employee	₹ 5000/-
Govt. Official - Serving	₹ 10000/-
Govt. Official - Retired	₹ 10000/-
Corporate	₹ 10000/-
Other	₹ 10000/-

## IMPORTANT INFORMATION:

- The programme will be conducted in **offline mode** at **RRU Lavad Campus**.
- Upon successful completion, participants will receive a certificate.
- Accommodation will be available on a payment basis with both twin-sharing and single occupancy options.



## CHIEF PATRON



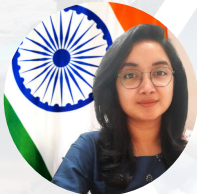
**Prof. (Dr.) Bimal N. Patel**  
Vice-Chancellor  
Rashtriya Raksha University

## ORGANISER



**Maj Gen (Dr) RK Raina, Sena Medal (Veteran)**  
Director  
School of Internal Security, Defence  
and Strategic Studies

## CONVENER



**Ms. Nasima Khatoon**  
Assistant Director & Assistant  
Professor (Research)  
School of Internal Security,  
Defence and Strategic Studies



**Dr. Ashutosh Mukund Pandey**  
Assistant Professor (Research)  
School of Internal Security,  
Defence and Strategic Studies



# **RASHTRIYA RAKSHA UNIVERSITY**

(An Institution of National Importance)

Pioneering National Security and Police

University of India