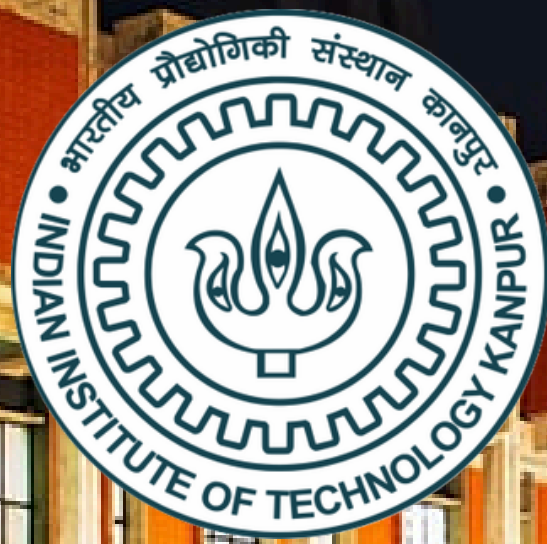




Indian Institute of Technology Kanpur भारतीय प्रौद्योगिकी संस्थान कानपुर

Workshop on

Next Generation Stealth Antennas and Reconfigurable Electromagnetic Structures for Strategic Airborne Applications

under the aegis of

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

Organized by

Department of Electrical Engineering, IIT Kanpur

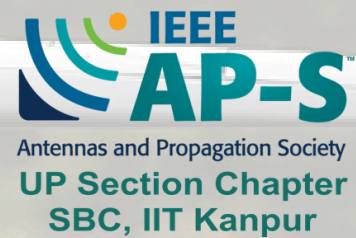
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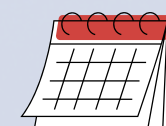
Anusandhan
National
Research
Foundation



IEEE
UP SECTION (INDIA)



Outreach Auditorium, IIT Kanpur



18 to 20 September 2026

About the Workshop

This workshop offers a comprehensive exploration of stealth technologies for airborne platforms, emphasising their critical role in modern combat. Participants will examine the basic science of electromagnetic stealth, focusing on the latest methods to reduce radar cross-section (RCS). The workshop includes specific subjects such as metamaterials, frequency-selective surfaces (FSSs), and the combination of stealth-friendly antennas and radomes. This program bridges the gap between theoretical concepts and practical design strategies for next-generation aerial defense.

About the Organizers

The world-renowned Electrical Engineering department was established in 1960 when IIT Kanpur first opened. It offers a complete spectrum of academic programs B.Tech, M.Tech, dual-degree (B.Tech + M.Tech), M.S. (R), eMasters and PhD across all EE specializations.

The RF and Microwave group at IIT Kanpur solves critical research challenges for the industry, defense, and space sectors. Their extensive expertise covers a wide array of technologies, including antennas, RF circuits, MMIC, metamaterials, RF sensors, microwave imaging, power amplifier, computational electromagnetics, and EMI/EMC.



<https://home.iitk.ac.in/~raghvendra/meta2026>

Learning Objectives

This three-day workshop is designed to provide participants with in-depth knowledge and practical insights into the following key areas of stealth, reconfigurable electromagnetic structures and antennas:

- Radar Cross-Section (RCS), Metamaterials and FSS for stealth applications.
- Reconfigurable electromagnetic structures for airborne systems.
- Modern techniques for reducing RCS.
- Design of low-observable antenna for modern combat.

Key Topics to be Addressed

- Modern Antennas
- Metamaterials for RCS Reduction
- Stealth Antennas
- Phased Array Antennas
- mmWave Circuits and Systems
- Reconfigurable Absorbers
- Reconfigurable Intelligent Surfaces
- Stealth Materials/Coating
- FSS-based Radomes for Defense Application
- Additive Manufacturing

Resource Persons

- Academia, DRDO Scientists, and Industry personals will share their expertise and insights.

Registration Fee & Procedure

- Register and pay for the workshop:
<https://home.iitk.ac.in/~raghvendra/meta2026>
- The fee mentioned includes GST.

*Please note that there is a **No Refund** policy for fees

Personnel	Non IIT Kanpur	IIT Kanpur
Student	INR 7080	INR 3000
Faculty	INR 11080	INR 5000
Participant from Industry	INR 21240	

Sponsorship Opportunities

★Platinum Sponsor	★Gold Sponsor	★Silver Sponsor
INR 2,00,000	INR 1,50,000	INR 100,000

Coordinators

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