



Online FDP on Space Technology, Unmanned Aerial Systems, Defense technology

21st October – 02nd November 2026



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Objective (Electronics & ICT Academy-Phase II)

1) To conduct specialized FDPs for faculty/mentor training in line with the vision of MeitY by promoting emerging areas of technology and other high-priority areas that are pillars of both the "Make in India" and the "Digital India" programs.

2) To promote synergy and collaboration with industry, academia, universities and other institutions of learning, especially in emerging technology areas.

3) To support the National Policy on Electronics 2019 (NPE 2019) which envisions positioning India as a global hub for ESDM sector, including MeitY Schemes/policies such as Programme for Semiconductors and Display Fab Ecosystem; India AI; National Programme on AI, Production Linked Incentive Scheme for IT Hardware & Large-Scale Electronics Manufacturing; EMC; SPECS; Chips to System (C2S); etc.

4) To promote standardization of FDPs through Joint Faculty Development Programmes.

5) To support the vision of the National Education Policy (NEP 2020), which mandates that Indian educators go through at least 50 hours in professional development programmes per year.

6) To design, develop & deliver specialised FDPs on emerging technologies/ niche areas/ specialised modules for specific research areas for Faculty in Higher Education Institutions (HEI), besides FDPs on multi-disciplinary areas connected with ICT tools and technologies and other digital hybrid domains, covering a wide spectrum of engineering and non-engineering colleges, polytechnics, ITIs, and PGT educators.

An intensive 40-hour online Faculty Development Programme (FDP) is being organized for faculty members of engineering and technological institutions. The programme is also open to industry professionals and doctoral scholars from Indian organizations. The FDP focuses on "Space Technology, Unmanned Aerial Systems, Defense technology", covering recent advances, practical applications, and future research directions in AI-driven UAV technologies.

Experts/Speakers-

Dr. Subrahmanyam Saderla, IIT Kanpur	Dr. Subhash Chand Yogi, IIT Roorkee
Dr. Sikha Hota, IIT Kharagpur	Dr. Siddhartha Khare, IIT Roorkee
Dr. Padmini Singh, IIT Jammu	Dr. Vishal Vishnoi, NIT Sikkim
Dr. Raja Vara Prasad, IIIT Sri City Chittoor	Dr. E. Balasubramanian, NITTTR Chennai
Many more experts from IIT/NIT/IIITs and Industries	

Programme Modules:

Module 1: Introduction to UAV/UAS, classification of drones, UAV architecture, flight dynamics, propulsion systems, sensors and payloads, communication systems, ground control stations, and drone regulations
Module 2: Machine learning for UAVs, computer vision and image processing, object detection and tracking, autonomous navigation, path planning, obstacle avoidance, and swarm intelligence.
Module 3: IoT-enabled UAVs, edge AI and onboard intelligence, digital twins, UAV cybersecurity, reinforcement learning, and UAV simulation platforms.
Module 4: Precision agriculture, smart city applications, infrastructure inspection, disaster management, environmental monitoring, healthcare logistics, surveillance, and remote sensing using UAVs.
Module 5: Urban air mobility, drone startups and entrepreneurship, research challenges, future directions in UAV technologies.

Programme Coordinator:

Dr. Mohan Bansal, IIIT Sonepat fdp.academy@mnit.ac.in 7754856788(M)

Registration:

Registration is open to faculty, working professionals, industry persons, doctoral, postgraduate and graduate students from India and rest of the world.

Participants will be admitted on first-come first-served basis. Register online at-

[\(http://online.mnit.ac.in/eict/\)](http://online.mnit.ac.in/eict/)



Registration Fee(excluding GST @ 18%):

Mode of programme	Academia (faculty/Students): India/SAARC/Africa	Others: India/SAARC/Africa	Rest of the world
Online	Rs. 750/-	Rs. 1500/-	US \$ 60/-

(A) Fee once paid will not be refunded back.

(B) The fee covers online participation in the programme, tutorial notes and examination, certification charges etc.

(C) The registration amount may be paid through online mode- NEFT/UPI/Cards/SWIFT, provided at the registration portal.

(D) Detailed schedule will be shared after receiving registration form.

→ For Queries, email us at fdp.academy@mnit.ac.in

MNIT Jaipur one of the oldest NITs, the institute has a rich heritage of sixty years producing world class engineers, managers, architects and scientists. Ranked 43rd nationally in the NIRF ranking-2024 (Engineering), the institute offers learning opportunities for undergraduate, postgraduate students, and researchers in various domains. Having a lush green campus of over 317 acres within the heart of the pink city, close to Jaipur International Airport, the campus offers a safe and lively environment. A world class teaching infrastructure, state-of-art laboratories welcome you at the campus. The institute has a vision to impart education of international standards and conduct research at the cutting edge of technology.