




India's 1st Drone Forensic Lab



Why in News?

In a first-of-its-kind initiative in the country, a **drone forensic lab** has been established at the **Uttar Pradesh State Institute of Forensic Science (UPSIFS)** in Lucknow.

UP'S TECH SHIFT

- From four labs in 2017, UP now has 12
- Forensic technology is serving as a tool to curb cybercrime
- Under NAFIS, UP secured first position on NCRB dashboard





- Over 4,00,000 fingerprints have been digitized so far
- Establishment of new labs is underway in Ayodhya and 6 other districts

Key Points

- **About:** The lab was inaugurated by **Uttar Pradesh Chief Minister** Yogi Adityanath and is conceptualized and established by **Milind Raj**, an expert in robotics and drone technology, also known as the '**Drone Man of India**.'
- **Functions:** The lab will enable police to **track, decode, and investigate drones** in real-time, helping forensic experts determine the **drone's flight path, take-off location**, payload capacity, and potential hazards like explosives.

- It will facilitate **forensic postmortems of drones** to assess their intent and threat potential, helping law enforcement understand drones used in **unlawful activities**.
- **Training:** The lab will serve as a **training center for police personnel** and forensic experts, offering hands-on experience with **unmanned aerial vehicles (UAVs)**.
 - It will help build a **dedicated drone force within UP Police**, enabling swift responses to incidents involving drones for security surveillance, crowd monitoring, and potential criminal activities.
- **Technological Innovation and Future Impact:** The lab is equipped with advanced data acquisition tools, **reverse-engineering systems**, customized kits, and hi-tech computing systems, making it possible to trace and analyze drones used in unlawful activities.
- **Applications:** The lab's applications include **safeguarding sensitive zones like borders**, prisons, and airports, as well as aiding in **disaster management** and search-and-rescue operations.

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