

**Centre of Excellence:**UAV and Electronic Border Security

**Principal Investigator:** Prof. Shweta Srivastava

**Funding Agency:**Directorate of Innovation, Research and Development (JIIT Noida, JUIT Waknaghat, JUET Guna& Jaypee University, Anoopshahr)

**Start-up Research Grant Approved Fund:**Rs.24.5 Lakhs

**Project Flow:Deliverable after one year:**

Simulation of separate acoustic and RADAR system for drone detection.

Design of Compact Smart antenna system using switched beam technology for border security

Design of Blockchain based UAV security system

**Deliverable after two years:**

Developed Acoustic and RADAR system for drone detection.

Fabricated and tested Compact Smart antenna system using switched beam technology for border security

Testing of Blockchain based UAV security system and design of low power UAV's

**Deliverable after three years:**

An integrated drone detection system with all three techniques (acoustic, optical, RADAR)

Complete Smart Antenna system (adaptive) for Electronic Border Security Applications.

Drone ID management, drone trajectory privacy and consensus of drone networks using blockchain along with low power requirement.