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Aerobot Research and Innovative Engineering Solutions LLP

FPV DRONE BUILD
& PILOT TRAINING

Admission Brochure
2025-26

AEROBOTLABS.COM

Launch Your FPV Journey with Aerobot Labs

Design | Build | Fly | Master FPV Drone Racing & Freestyle

Experience the thrill of flight like never before. Aerobot Labs introduces the FPV Drone Build & Pilot Training Program—a complete, hands-on pathway into the world of First-Person View drones. From custom frame builds to advanced piloting maneuvers, this course is designed for enthusiasts, racers, aerial filmmakers, and aspiring FPV professionals.

Rule the Skies in First Person: FPV Drone Mastery Begins Here

Course Duration: 15 days (Full-Time)

Eligibility: 12th pass with technical aptitude | Diploma & BE Holders in Engineering / Tech fields | Hobbyists with strong interest in drones
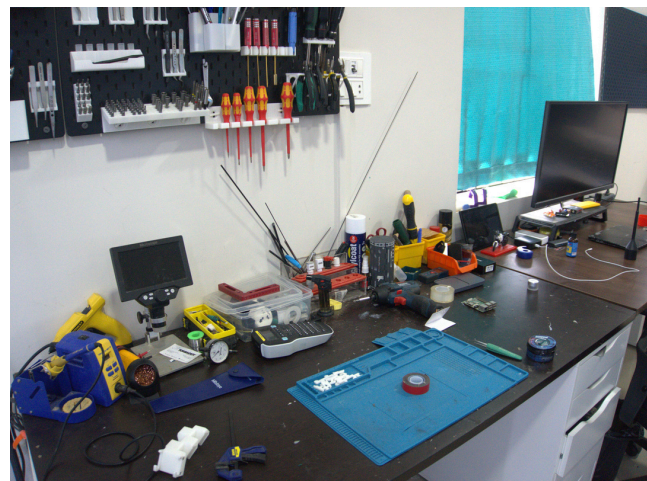
Certification: Aerobot Labs Certified FPV Drone Builder & Pilot

What You'll Learn:

- Understand FPV systems: frames, motors, flight controllers, VTX & goggles
- Build and solder custom FPV drones (3-inch cinewhoop + 5-inch freestyle quad)
- Configure Betaflight and tune drones for optimal performance
- Master manual piloting, racing lines, freestyle tricks, and cinematic moves
- Learn safety protocols, troubleshooting, and repair techniques
- Record HD footage and optimize for aerial videography

Certification and Outcome:

Upon completion, you'll earn the Aerobot Labs FPV Drone Builder & Pilot Certificate, preparing you for FPV racing, drone videography, freestyle competitions, and content creation careers.

Why Choose Aerobot Labs for FPV Training?

Aerobot Labs is a trailblazer in FPV drone building and piloting, delivering:

- Hands-On FPV Builds: Assemble two high-performance FPV drones from scratch
- Expert Mentorship: Learn directly from seasoned FPV racers and drone engineers
- Immersive Flight Training: Progress from simulator sessions to real-world flying
- Pro Tools & Gear: Training on Betaflight, TBS, DJI FPV systems, and industry-standard simulators
- Career Support: Guidance for entering drone racing leagues, YouTube content creation, aerial filming, and professional drone services

Career Support and Opportunities

Graduates of this program are equipped for roles in:

- FPV Drone Racing & Freestyle Competitions
- Aerial Videography & Content Creation
- Drone Cinematography for Films, Ads & Events
- Drone Repair & Custom FPV Builds
- Freelance FPV Drone Services & Consulting

Course Duration & Syllabus

- **Total Duration: 15 Days**
- **Mode: Full-Time, On-Campus**

⊕ Training Schedule

Core Modules	Module Highlights
Module 1	Intro to FPV drones, frame types, safety, regulations, simulator basics
Module 2	Drone assembly, soldering, Betaflight configuration, radio setup
Module 3	Manual flight training, racing maneuvers, PID tuning, freestyle basics
Module 4	Cinematic flying, troubleshooting, repairs, capstone FPV flight project

⊕ Syllabus Overview

FPV Drone Hardware
- Frames, motors, ESCs, VTX, goggles, HD cams

Flight Configurations
- Betaflight setup, firmware flashing, tuning

Piloting Skills
- Simulator drills, acro mode mastery, racing/freestyle lines

Cinematic FPV
- Smooth flight paths, shooting & editing FPV footage

Capstone Project
- Build, tune, and perform a live demo flight showcasing freestyle and cinematic control

Related **Courses**

Advance Your
Skills

Aerobot Labs is not only an RPTO for basic drone pilot licensing; we also offer advanced training programs and workshops to cater to specialized interests in the drone field. After completing your Remote Pilot Certificate, you may consider these additional courses to further expand your skill set.

After certification, explore:
- Drone Engineer Course : Build & program drones
- FPV Drone Build & Pilot Training
- Agri-Drone Training: Drone spraying, crop imaging & smart farming

`Beginner`

📖 10 Lessons   👤 5 Students

⭐⭐⭐⭐✬

Drone Engineer Certificate Course

Master drone tech from basics to advanced programming and design in our all-in-one Drone Engineer Course.

`Beginner`

📖 5 Lessons   👤 20 Students

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DGCA-Authorized Drone Pilot Training Course
(Small Category)

Get DGCA certified with our Drone Training Course — covering flight ops, safety, and hands-on piloting.

`Intermediate`

📖 10 Lessons   👤 4 Students

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Agri Drone Operations Course

Learn precision spraying, mapping, and field monitoring in our Agri Drone Operations Course etc.

ARIES

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