



RC TriCopter Drone Workshop

Introduction to DRONE/UAV Industry

- Industry insights
- Applications of DRONES/UAVs
- Type of DRONES/UAVs
- Future aspects of Industry
- Rules & Regulations in India

Theoretical Design Session

- Fundamentals of Rotor Dynamics.
- Various components of a TriCopter Drone.
- Stability and Control of a TriCopter Drone.
- Application Based TriCopter Designing
- Study of Materials

Hands-On Manufacturing Session

- Manufacture TriCopter from raw materials based on the Design (Cutting, Drilling etc.)
- Quality check and procedure for fine manufacturing
- Learn best manufacturing techniques by experienced Mentors.



Electronics Session (Detailed Study of)

- Motors
- ESCs
- Propeller design and mfg.
- Sensors (IMU, GPS, Barometer etc.)
- Batteries
- Flight Controller Board

Hands on Electronics Integration Session

- Logical integration of Electronics
- Torque balance mechanism integration
- Wiring and weigh balance

Virtual Flying Simulation Session

- RC Flight lessons to become professional pilots from TechEagle Pilots
- Individual Experience of flying an RC Tricopter in a Flight Simulator
- Flight tips from licensed pilots of TechEagle Pilots

PID Algorithm and Tuning

- Learn the algorithm to stabilize and control a DRONE
- Master the way to tune your DRONE perfectly
- Understand the Safety precautions
- Understand the coding of a DRONE



IIT Bhubaneswar

The Annual Techno Management Fest

WISSENAIRE

Real Ground Flying Session

- Making your RC Tricopter RTF (Ready to Fly) - Weight Balance, Pre Flight Checks.

Hands-on learning of the PID Tuning

- Learn the professional way of Flying DRONES
- Test Flight of All DRONES
- Get Live Video feed to your Smartphone
- Safety Precaution while conducting Flying Session