

Endurance

“Endurance” is the amount of time that a drone can stay in the air on one load of fuel tank or a full charge battery.

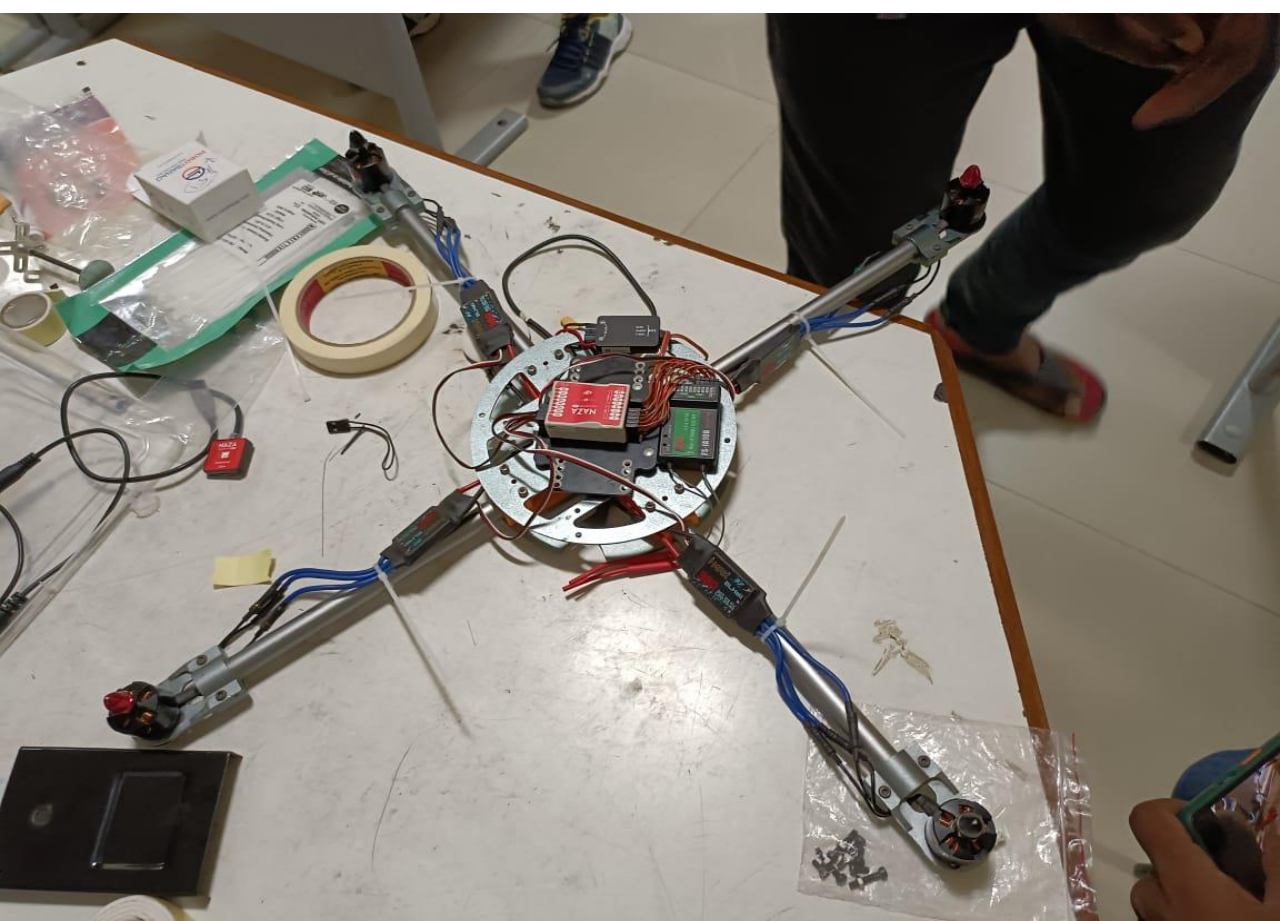
Range

“Range” is the total distance with respect to the ground covered by a drone on one load of fuel tank or a full charge battery.

Payload

Total additional weight carried in an aircraft. Ex: - a camera and gimbal to your drone is the payload.





UAV- Unmanned Aerial vehicle

UGV- Unmanned Ground vehicle

USWV- Unmanned Surface water vehicle

UUWV- Unmanned under water vehicle

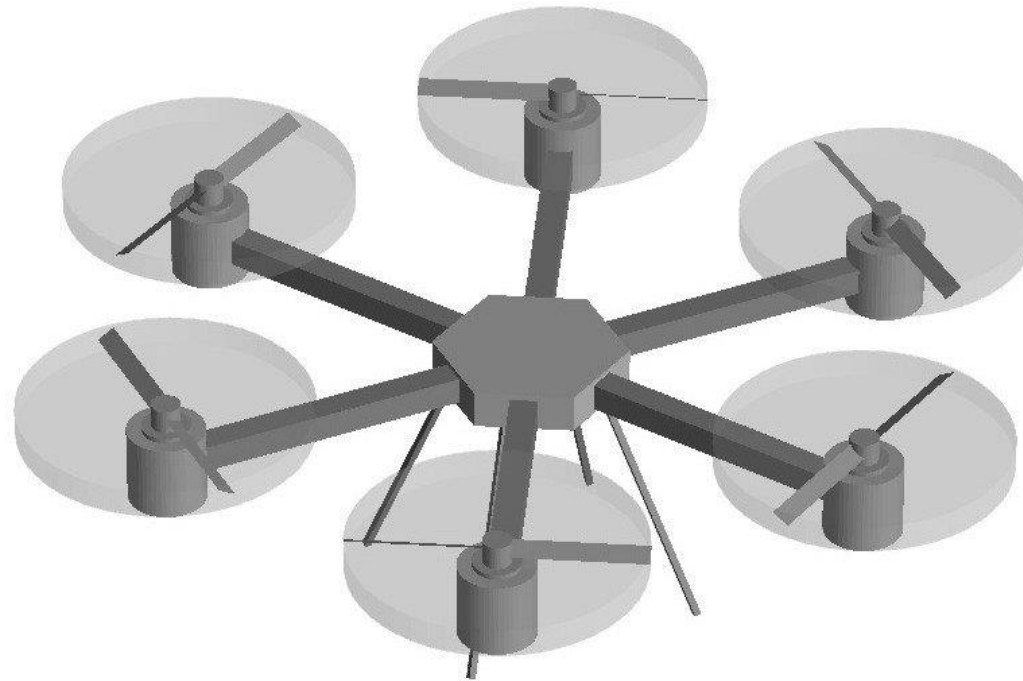
UCAV – Unmanned compact Aerial vehicle

UAV – They have 4 type

1. Multi-Rotor
2. Fixed-Wing
3. Helicopter
4. Hybrid (Multi-Rotor and Fixed-Wing)

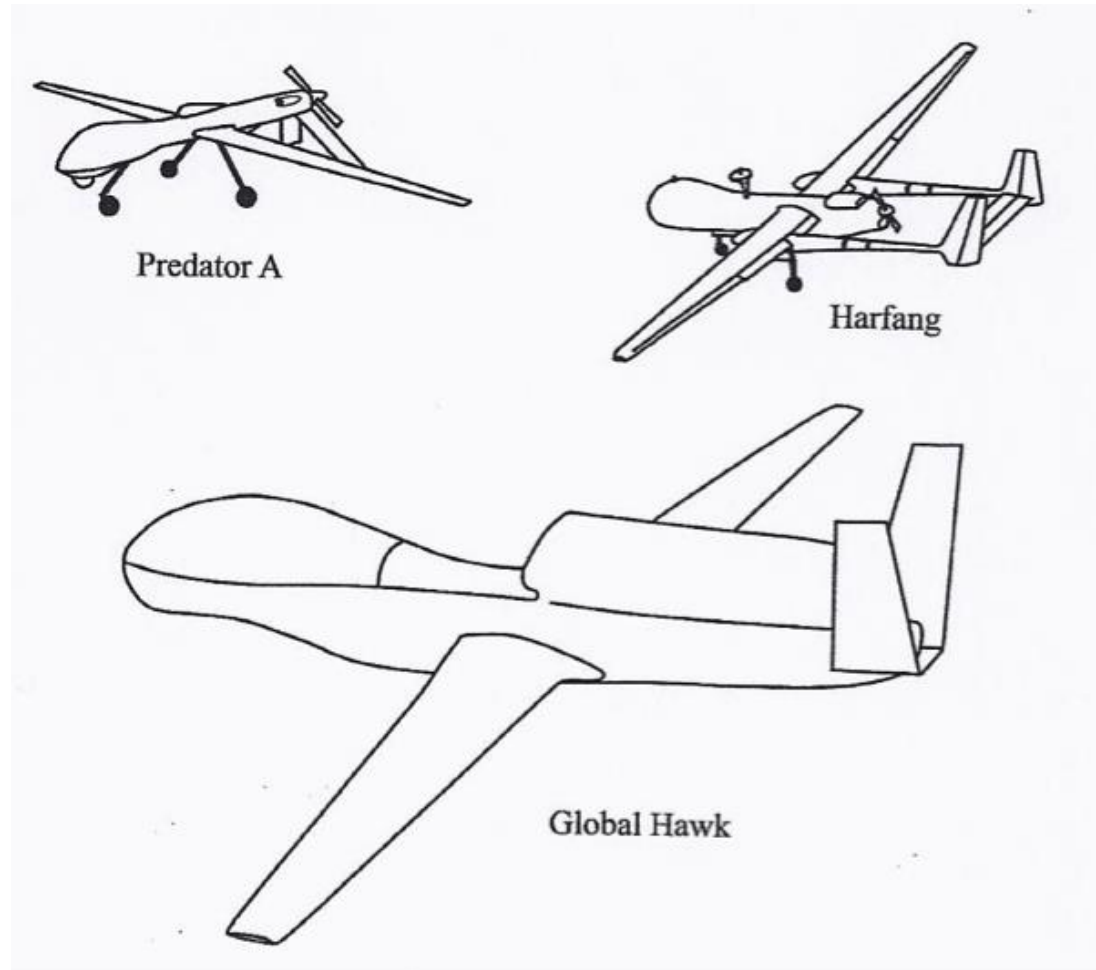
Multi-Rotor

A multirotor or multicopter is a rotorcraft works on rotor mechanics

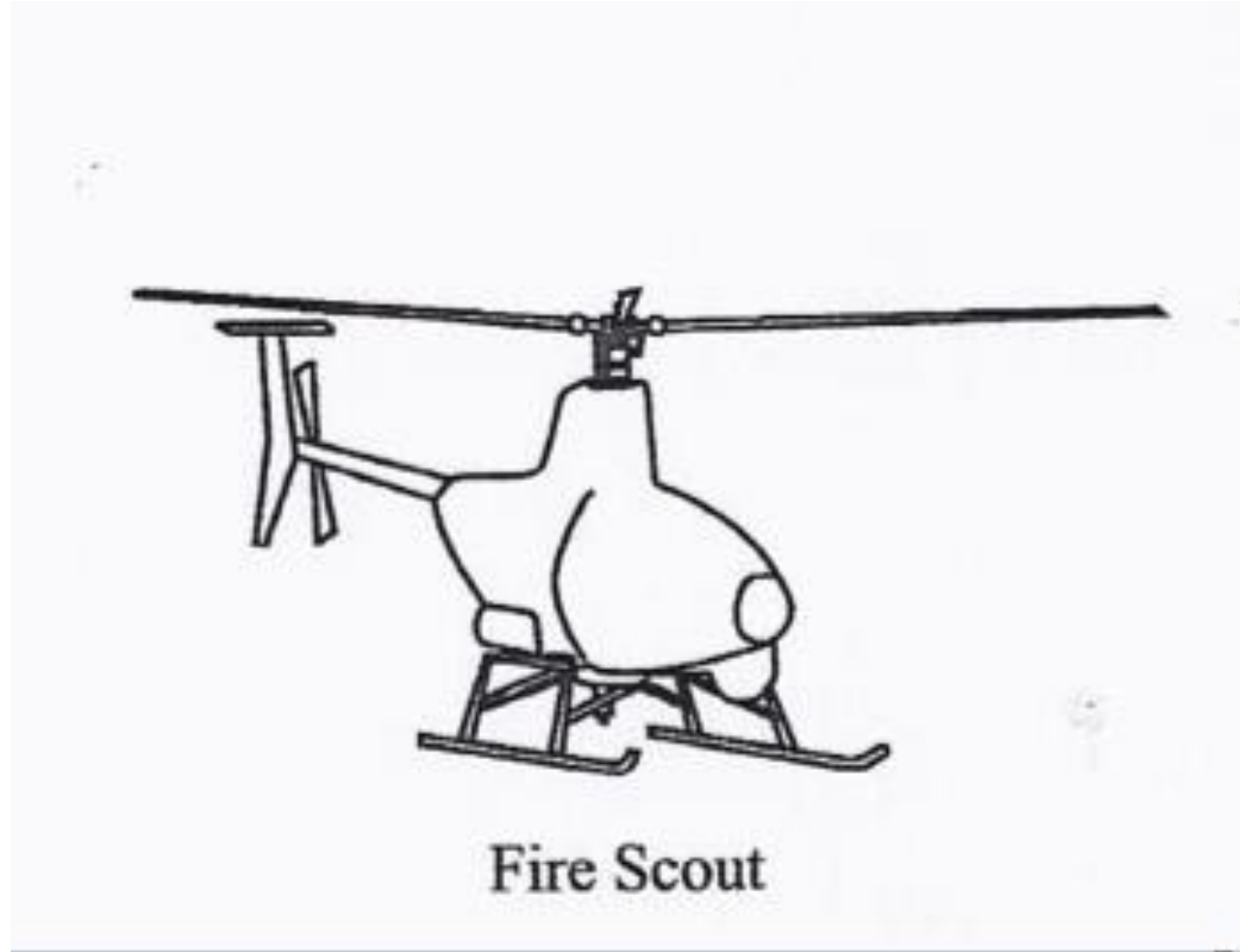


Fixed-Wing

A fixed-wing aircraft is a heavier-than-air flying machine, such as an airplane, which is capable of flight using wings that generate lift.

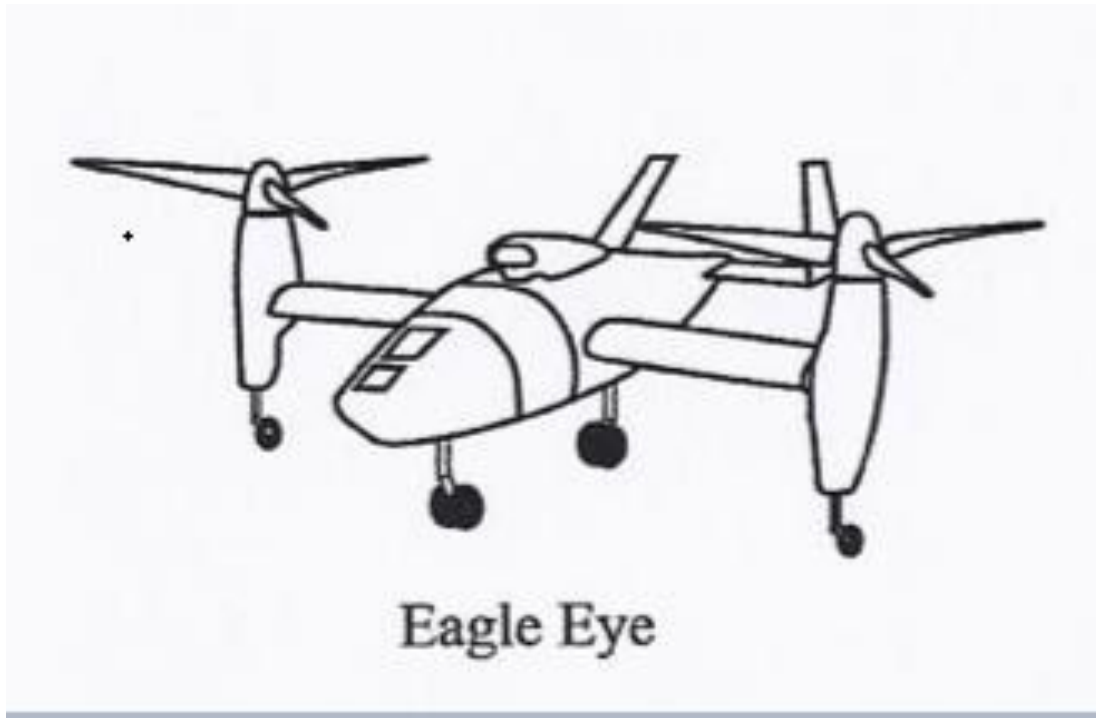


Helicopter



Hybrid Drone

- It is a combination of Multi-Rotor and Fixed-Wing



Types of Multi-Rotor

- Bi-copter
- Tri-copter
- Quad-copter
- Hexa-copter
- Octa-copter

Glossary

AAI	Airports Authority of India
ADS-B	Automatic Dependent Surveillance Broadcast
AGL	Above Ground Level
ATC	Air Traffic Control
BCAS	Bureau of Civil Aviation Security
CAR	Civil Aviation Requirements
DGCA	Directorate General of Civil Aviation
DGFT	Directorate General of Foreign Trade
FTO	Flying Training Organization
GPS	Global Positioning System
IAF	Indian Air Force
ICAO	International Civil Aviation Organization

MTOW	Maximum Take-off Weight
NPNT	No Permission-No Take off
PPL	Private Pilot License
RF-ID	Radio Frequency Identification
RPA	Remotely Piloted Aircraft
RPAS	Remotely Piloted Aircraft System(s)
RPS	Remote Pilot Station(s)
SIM	Subscriber Identity Module
UA	Unmanned Aircraft
UAOP	Unmanned Aircraft Operator Permit
UAS	Unmanned Aircraft System(s)
UIN	Unique Identification Number

VFR Visual Flight Rules

VLOS Visual Line-Of-Sight

VMC Visual Meteorological Conditions

ARC Aviation Research Centre

FIR Flight Information Region

GNSS Global Navigation Satellite System

GPS Global Positioning System

ICAO International Civil Aviation Organization

IFR Instrument Flight Rules

MoCA Ministry of Civil Aviation