

MULTIROTOR DRONE PILOT COURSE	MULTIROTOR DRONE PILOT COURSE	FIXED WING UAV PILOT COURSE
<b>3 days</b> <b>Course fee: Rs. 14900 plus 18% GST</b> <b>(Basic Multirotor Drone Training)</b>	<b>5 days</b> <b>Course fee: Rs. 49000 plus 18% GST</b> <b>(small category drones between 2kg – 25 kg)</b>	<b>7 days</b> <b>Course fee: Rs. 49000 plus 18% GST</b> <b>(Basic Fixed wing Drone Training)</b>
<b>Day - 01</b> 1. Regulations of DGCA, Civil Aviation - 1 hour Classification. Basic Air. Regulations. Salient points. Do's and Don'ts.  2. Basic principles of flight - 2 hour Fundamentals of flight Aerodynamics. Take-off, flight, and landing. Manoeuvres, turns and circuit pattern. Practice Session in Radio applications and Operations. Advantages/ Disadvantages over multirotor Drones.  3. Multi rotor introduction - 2 hours Basic drone terminology Types of drones, material used and size of drones. Motors and propellers Electronic Speed Controller (ESC), flight Controllers. Operation and Applications of drones (METAR).  4. Drone equipment maintenance - 1 hour  Maintenance of drone, flight control box, ground station.	<b>Day - 01</b> 1. Regulations of DGCA, Civil Aviation - 1 hour Classification. Basic Air. Regulations. Salient points. Do's and Don'ts.  2. Basic principles of flight - 2 hour Fundamentals of Flight. Aerodynamics. Take-off, flight, and landing. Manoeuvres, turns And circuit pattern. Practice Session in Radio applications And operations. Advantages/ Disadvantages Over multirotor Drones.  3. Multi rotor introduction - 1 hour Basic drone Terminology. Types of drones, material used and size of drones. Motors and propellers Electronic Speed Controller (ESC), flight Controllers. Operation and Applications of drones (METAR).  4. Radio Telephony - 1 hour	1. Regulations of DGCA, Civil Aviation - 1 hour Classification. Basic Air. Regulations. Salient points. Do's and Don'ts.  2. Basic principles of flight - 2 hour Fundamentals of Flight. Aerodynamics. Take-off, flight, and landing. Manoeuvres, turns And circuit pattern. Practice Session In Radio applications And operations. Advantages/ Disadvantages Over multirotor Drones.  3. Multi rotor introduction - 1 hour Basic drone Terminology. Types of drones, material used and size of drones. Motors and propellers Electronic Speed Controller (ESC), flight Controllers. Operation and Applications of Drones (METAR)

<p>Maintenance of ground equipment, batteries and payloads.  Scheduled servicing  Repair of equipment  Fault finding and Rectification.</p>	<p>Understanding ATC Operations.  Airspace Structure and Airspace Restrictions with knowledge of No Drone Zones.  Communicating with ATC including Position and Altitude Reporting.  Flight Planning.  Collision avoidance  Radio Telephony (RT) techniques  Standard radio terminology and RT Phraseology.  Practice Session in Radio Communication</p> <p>5.Fixed wing operations and aerodynamics - 1 hour  Types of fixed wing drones, make, parts and terminology.  Operation and manoeuvres of fixed wing drones.</p>	<p>4.Radio Telephony - 1 hour  Understanding ATC Operations.  Airspace Structure and Airspace Restrictions with knowledge of No Drone Zones.  Communicating with ATC including Position and Altitude Reporting.  Flight Planning.  Collision avoidance  Radio Telephony (RT) techniques  Standard radio terminology and RT Phraseology.  Practice Session in Radio Communication</p> <p>5.Fixed wing operations and aerodynamics - 1 hour  Types of fixed wing drones, make, parts and terminology.  Operation and manoeuvres of fixed wing drones.</p>
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<p><b><u>Day - 02</u></b></p> <p>1. Final test - Theory - 1 hour.</p> <p>2. Introduction to flight simulator - 2 hours Basic operating features of simulator. How to select different aircrafts and aerodromes. Demo flight.</p> <p>3. Flight simulator training - 2 hour Pre-flight checks and start-up. Preparation cum coordination for flight. Take-off and flight stage. Approach and landing After flight checks. Practical flying with</p>	<p><b><u>Day - 02</u></b></p> <p>1. Emergency identification and handling - 1 hour In flight emergencies Loss of link. Fly- always (Straying) Loss of power Control surface Failures.</p> <p>2. Payload, installation and utilization - 1 hour  Types of payloads. Parts of payloads. Installation. Features of Payloads. Utilization.</p> <p>3. Image and video interpretation - 1 hour Principles of</p>	<p><b><u>Day - 02</u></b></p> <p>1. Emergency identification and handling - 1 hour In flight emergencies Loss of link. Fly- always (Straying) Loss of power Control surface Failures.</p> <p>2. Payload, installation and utilization - 1 hour  Types of payloads. Parts of payloads. Installation. Features of Payloads. Utilization.</p> <p>3. Image and video interpretation - 1 hour Principles of</p>

<p>instructor.</p>	<p>Observation.          Interpretation of image/video.          Analysis.</p> <p>4. Final test - Theory - 1 hour</p> <p>5. Introduction to flight simulator - 1 hour          Basic operating features of simulator.          How to select different aircrafts and aerodromes.          Demo flight.</p> <p>6. Flight simulator training - 1 hour</p> <p>Pre-flight checks and start-up.          Preparation cum coordination for flight.          Take-off and flight Stage.          Approach and Landing.          After flight checks.</p>	<p>Observation.          Interpretation of image/video.          Analysis.</p> <p>4. Final test - Theory - 1 hour</p> <p>5. Introduction to flight simulator - 1 hour          Basic operating features of simulator.          How to select different aircrafts and aerodromes.          Demo flight.</p> <p>6. Flight simulator training - 1 hour</p> <p>Pre-flight checks and start-up.          Preparation cum coordination for flight.          Take-off and flight Stage.          Approach and Landing.          After flight checks.</p>
<p><b><u>Day - 03</u></b>          1. Practical flying with instructor/solo flying.</p>	<p><b><u>Day -0 3</u></b>          1. Flight simulator training - 2 hours          Pre-flight checks and start-up.          Preparation cum coordination for flight.          Take-off and flight Stage.          Approach and</p>	<p><b><u>Day -0 3</u></b>          1. Flight simulator training - 2 hours          Pre-flight checks and start-up.          Preparation cum coordination for flight.          Take-off and Flight stage.          Approach and</p>

	<p>Landing. After flight checks</p> <p>2. Practical lessons in Lab - 2 hours</p> <p>Assembling of Drone. De-assembling. Integration of sub-sections/ modules Integration of engine/propulsion system. Fault finding and Rectification. Repair maintenance and documentation. Practical flying with Instructor.</p>	<p>Landing. After flight Checks.</p> <p>2. Practical lessons in Lab - 2 hours</p> <p>Assembling of Drone. De-assembling. Integration of sub-sections/ modules Integration of engine/propulsion system. Fault finding and Rectification. Repair maintenance and documentation. Practical flying with Instructor.</p>
	<p><b><u>Day -0 4</u></b></p> <p>1. Practical flying with instructor/solo flying - 6 hours</p>	<p><b><u>Day – 04</u></b></p> <p>1. Basic manual manoeuvres training in a drone flight - 3 hours.</p> <p>2. simulator both in first- and third-person view.</p>
	<p><b><u>Day - 05</u></b></p> <p>1. Practical flying with instructor/solo flying - 6 hours</p>	<p><b><u>Day – 05</u></b></p> <p>1. Pre-flight post flight checks and Test on flight simulator - 2 hours</p> <p>2. Basic manual manoeuvres training with real drone flights in the UAV Test Site Airfield - 2 hours</p> <p>3. Basic manual manoeuvres training with real drone flights in the UAV Test Site Airfield, Basic repair &amp; maintenance - 2 hours</p>
		<p><b><u>Day – 06</u></b></p> <p>1. Visual Line Of Sight (VLOS) operations,</p>

		Extended Visual Line Of Sight (EVLOS) operations, Beyond Visual Line Of Sight (BVLOS or BLOS) operations, First Person View (FPV), Beyond line-of-sight mission simulation using a ground control centre - 6 hours
		<b><u>Day – 07</u></b>  1. Practical flying with instructor/solo flying - 6 hours