DRONE FLYING FOR BEGINNERS

PRECISION FIELD ACADEMY

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Module One

INTRODUCTION

INTRODUCTION

In this technological dispensation of the world, drones have emerged as versatile and dynamic tools contributing invaluable growth to several career spaces, capturing the imagination of enthusiasts, professionals, and hobbyists alike.

This introduction sets the stage for exploring the fascinating world of drones, delving into the diverse types available, elucidating the numerous advantages they offer, and unveiling the wide- ranging applications that make them indispensable in various fields.

Starting the journey of drone piloting opens up a thrilling world of aerial exploration and photography. For beginners, the prospect might seem daunting, but with the right guidance, anyone can master the art of flying drones.

This introduction will provide a roadmap for novices to get started on their drone piloting adventure, covering key aspects from choosing the right drone to understand regulations and master basic flying skills.

The first crucial step for beginners is selecting the right drone. Factors such as purpose, budget, and skill level play a pivotal role. Entry-level drones often come with simplified controls and features, making them ideal for those new to piloting.

Considering the intended use, whether it be recreational flying, photography, or racing, will help narrow down the options and ensure the chosen drone aligns with the pilot's goals.

TYPES OF DRONES

Drones come in various types and configurations, each tailored to meet specific needs and preferences. From compact and user-friendly Multirotors to Fixed-wing drones to Hybrid VTOL to Rotorcraft designed for extended flight durations, understanding the distinctions among these types is crucial for enthusiasts to make informed choices.

Exploring the features and capabilities of different drone models lays the foundation for selecting the one that aligns with individual interests and objectives.

1. Multi rotor drones

DJI MAVIC PRO

2. Fixed wing drones

senseFly eBee X

3. Single rotor drones

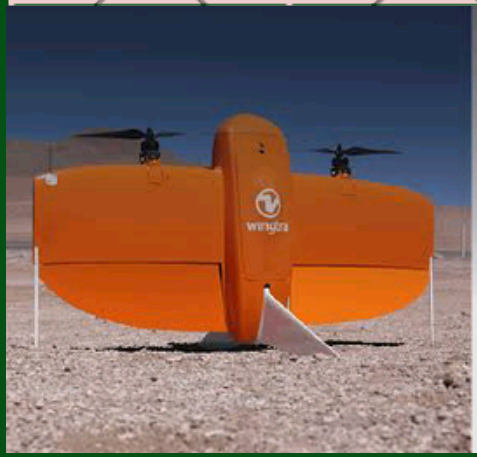
Vapor 55 UAV Helicpoter

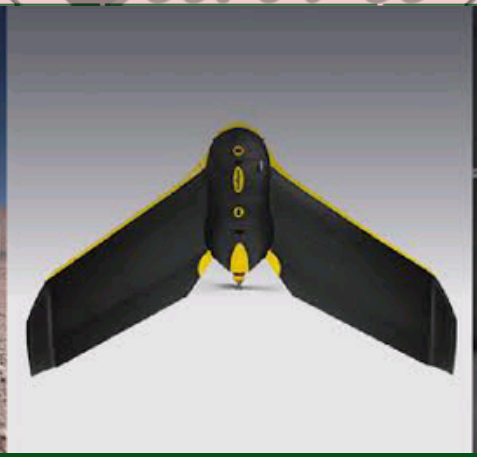
4. Fixed wing hybrid VTOL (vertical take – off and land)

Falcon Vertigo

TYPES OF DRONES

Drone Feature	Multirotor	Fixed-Wing	Hybrid VTOL	Rotocrafts
Flight Time	Shorter Flight Time	Longer Flight Time	Modrate to Long	Short to Moderate
Wind Resistance	Good wind resistance and stability	Low wind resistance	High wind resistance	Low to Moderate
Coverage Areas	Covers small-scale areas	Covers large-scale areas	Extensive land coverage	Limited to Moderate
Flight Mode	Can fly in circular motions therefore good for 3D modeling of terrains and objects	Cannot fly in circular motions only straight	Versatile	Diverse
Rotors	Multi-rotor drones (has four propellers that enable the drone to fly upwards, downwards, sideways, and 360o motions	Usually Single-rotor or has only 2 propellers that enable forward movement only	Multiple rotors with single-engine propulsion	Coaxials or single rotor with Tailrotor
Take-off	Vertical take-off, hovering, and flight	Launched by hand, pulley, or runway	Vertical/Short	Vertical/Short
Cost	Less expensive (consumer-friendly): >=$1500	Very expensive: >=$10,000	Very expensive >=10,000-$15,000	Less expensive around $ 8,000
Terrain	Can fly from and land on difficult terrains	Requires a clear field and level ground for take-off and landing	Varied	Diverse
Cameras	Built-in cameras	Affixed cameras	Varied	Varied/Swappable
Payloads	Small multirotor drones are limited to their original weight and can't carry extra	Can carry extra cameras or sensors required for advanced image capturing e.g. LiDAR, and packages to deliver at already designated points	Light to heavy	Light to medium





CLASSIFICATIONS OF DRONES

Usage	Size	Design	Range	Battery
Hobbyist Drones	Nano	Rotary Drones	Short Range 5 km)	20 Minutes -1 Hour
Commercial Drones	Mini	Fixed wing	Medium range (50km)	Battery: 1.5 hours
Military Drones	Medium	Vetical Takeoff and Landing	Long range (150km)	Battery: 1.5 hours
	Large	Multirotor		

NOTE: From the top of each Column read vertically downward

TYPES OF DRONES AND THEIR CLASSIFICATION

	DJI Phantom 4 Pro	Mavic Air	Mavic Mini
DJI Drone Sensor	Presence of sensors to avoid obstacles	Presence of sensors to avoid obstacles	Absence of sensors
Flight Time	30 mins	31 mins	34 mins
Shutter	Mechanical shutter	Rolling shutters	Rolling shutters
Pricing	$1500	$1500	$400

NOTE: From the top of each Column read vertically downward

ADVANTAGES OF DRONES

Time-Saving: Drones streamline surveying and inspections, saving time with quick deployment and automated flight planning.

Quality Aerial Imaging: Drones capture high-resolution, clear aerial images, offering a unique perspective for mapping, surveillance, and precise analysis.

Easy to Deploy: Portable and adaptable, drones can be deployed swiftly in diverse environments without the need for complex infrastructure.

Security: Drones enhance security through real-time aerial surveillance, supporting border patrol, event security, and rapid incident assessment.

In-Depth and Detailed Data: Drones provide rich datasets for comprehensive analysis, facilitating precise decision-making across various fields.

Flexibility for Quick Inspections: Drones excel in inspecting hard-to-reach
areas, adapting to dynamic needs, and minimizing downtime in assessments.

Environmental Conservation: Drones aid in environmental conservation efforts by monitoring ecosystems, tracking changes in biodiversity, and assessing the impact of human activities.

Cost-Efficiency: Drones reduce operational costs by eliminating the need for expensive aircraft, making tasks more affordable and efficient.

Accessibility to Remote Areas: Drones provide access to challenging locations, aiding environmental research and monitoring ecosystems in remote terrains.

Real-time Monitoring: Drones offer live data streaming for real-time monitoring, crucial in disaster management, surveillance, and decision-making.

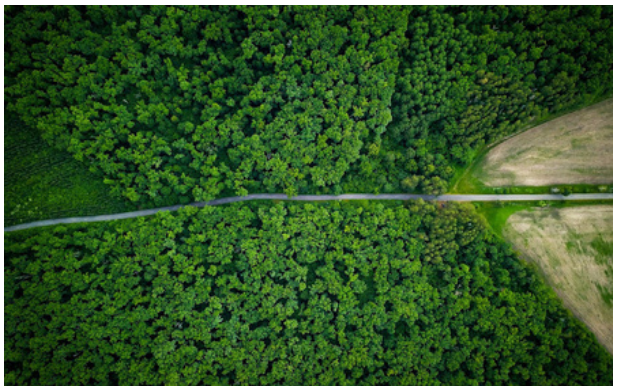
Enhanced Data Accuracy: Drones contribute to accurate data collection through precise sensors and advanced imaging technologies, reducing the likelihood of errors in analyses.

Improved Agricultural Practices: Precision agriculture with drones enables farmers to optimize crop yields, conserve resources, and reduce environmental impact by applying interventions precisely where needed.

Wildlife Monitoring: Drones assist in wildlife conservation by monitoring animal populations, tracking migration patterns, and providing valuable insights into the behavior of various species.

ADVANTAGES OF DRONES

Reducing GHG Emission



Comprehensive Coverage

Early Problem Detection

Precision and Efficiency

Unrestricted Access

Health and Safety

APPLICATIONS OF DRONES

Precision Agriculture: Drones equipped with sensors and cameras are used to monitor and analyze crop health, optimize irrigation, assess field conditions, and improve overall agricultural practices.

Urban Planning: Drones aid in urban development by providing high-resolution aerial imagery, 3D mapping, and data collection for city planning, infrastructure assessment, and environmental impact studies.

Surveying: Drones are employed for land surveying and mapping. They can quickly and accurately collect topographic data, monitor construction sites, and create detailed maps for various industries.

Disaster Management: Drones play a crucial role in disaster response and recovery. They provide real-time situational awareness, assess damage, locate survivors, and deliver supplies in hard-to-reach areas.

Videography: Drones equipped with high-quality cameras capture stunning aerial footage for film production, documentaries, events, and marketing purposes, offering unique perspectives and dynamic shots.

Military and Defense: Drones have a range of military applications, including surveillance, reconnaissance, target acquisition, and even combat roles. They can access areas that are too dangerous for manned aircraft.

Traffic Monitoring: Drones assist in monitoring traffic flow, identifying congestion points, and analyzing road conditions. This information is valuable for optimizing traffic management and improving transportation infrastructure.

Oil and Gas: Drones are employed in the oil and gas industry for pipeline inspections, flare stack monitoring, and infrastructure surveillance, enhancing safety and reducing operational costs.

Logistics: Drones are explored for last-mile delivery, especially in remote or hard-to- access areas. They can efficiently transport small packages, medical supplies, or critical items promptly.

Medical Supplies: Drones facilitate the rapid and efficient delivery of medical supplies, vaccines, and emergency aid to remote or disaster-stricken areas, contributing to healthcare accessibility.

Geography: Drones support geographic research and mapping by collecting spatial data, monitoring ecosystems, and studying changes in land cover, aiding in environmental studies and conservation efforts.

Geology: Drones are employed in geological surveys to study terrain, map geological formations, and assess natural resources. They enhance the efficiency and safety of data collection in challenging landscapes.

APPLICATIONS OF DRONES

AERIAL DELIVERY

MILITARY APPLICATION

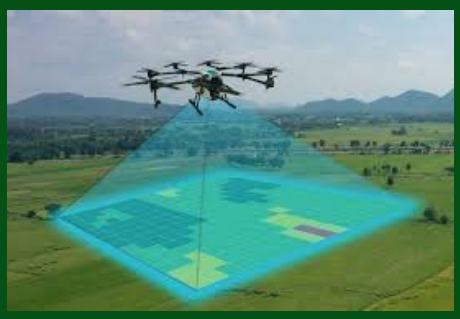
FIRE FIGHTING

POWERLINE INSPECTION

AERIAL SURVEYING

LAW ENFORCEMENT

CROP SPRAYING



LAND MAPPING

MINING SITE MONITORING

WINDMILL INSPECTION

CONSTRUCTION SITE SURVEILLANCE

OIL AND GAS APPLICATION

ENVIROMENTAL SIGHT SEEING

AERIAL PHOTOGRAPHY

HEALTHCARE FIRST AID SERVICE

Module Two

Getting Started With Drone Piloting

What's in the box?

Case study:

- DJI Phantom 4 Pro Drone and Mavic 3 Drone
- Charger (for controller and battery)
- Remote controller
- Batteries
- Gimbal protector
- Propeller blades

UNDERSTANDING DRONE COMPONENTS

Camera: Captures still images and video footage during flight. The camera is a crucial component for various applications, such as aerial photography, videography, and surveillance.

Sensors: Sensors include gyroscopes, accelerometers, magnetometers, and barometers. They collect data about the drone's orientation, acceleration, magnetic heading, and altitude, contributing to stability, navigation, and overall flight control.

Batteries: Power the drone's motors, electronics, and other systems. Lithium- polymer (LiPo) batteries are commonly used for their high energy density and lightweight properties.

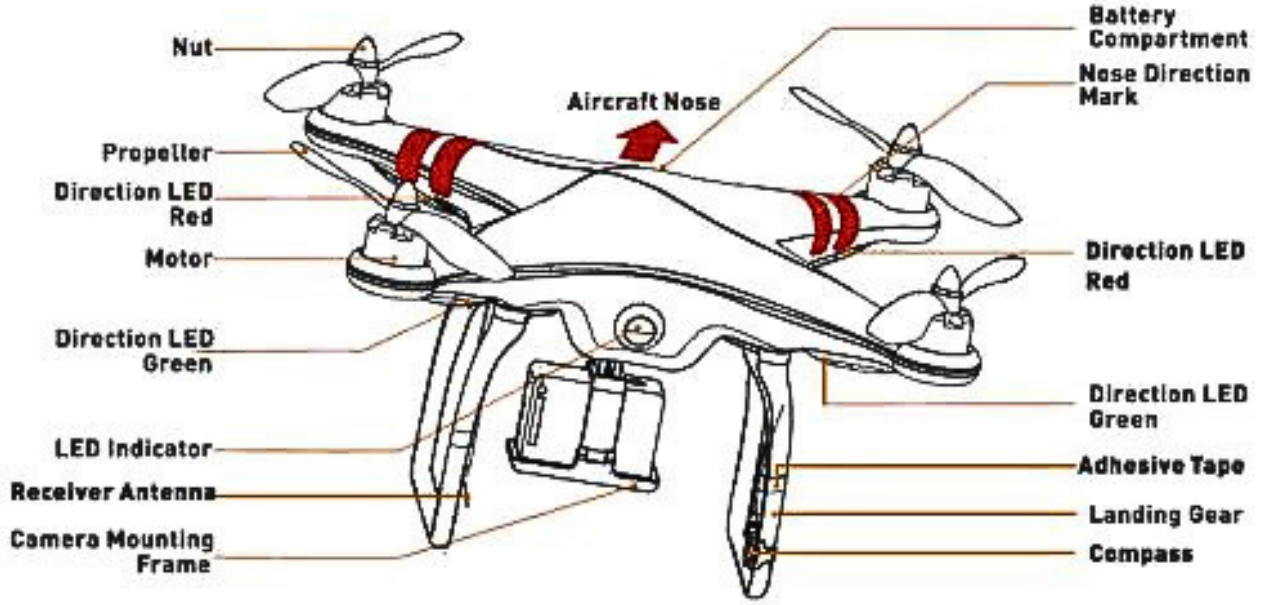
Propellers: Generate thrust to lift the drone off the ground and control its movement. The combination of motor speed and propeller rotation determines the drone's flight characteristics.

Frame: The structural framework that holds all the components together. Frames are typically made from materials like carbon fiber or lightweight metals to ensure durability and minimize weight.

Flight Controller: It processes input from the operator, sensors, and GPS to control the drone's motors and stabilize its flight. It plays a critical role in maintaining balance and responding to external factors.

Motors: Power the propellers, translating electrical energy from the batteries into mechanical energy to generate thrust and control the drone's movement.

Global Positioning System: Provides accurate positioning data, enabling features like autonomous flight, waypoint navigation, and return-to-home functions.



UNDERSTANDING DRONE COMPONENTS

Gimbal: Stabilizes the camera during flight, reducing vibrations and allowing for smooth and steady capture of photos and videos.

Communication System: Facilitates communication between the drone and the remote controller, allowing the operator to send commands and receive real-time data.

Onboard Computer/Processor: Processes data from sensors and manages flight parameters. It supports advanced features such as obstacle avoidance and autonomous flight modes.

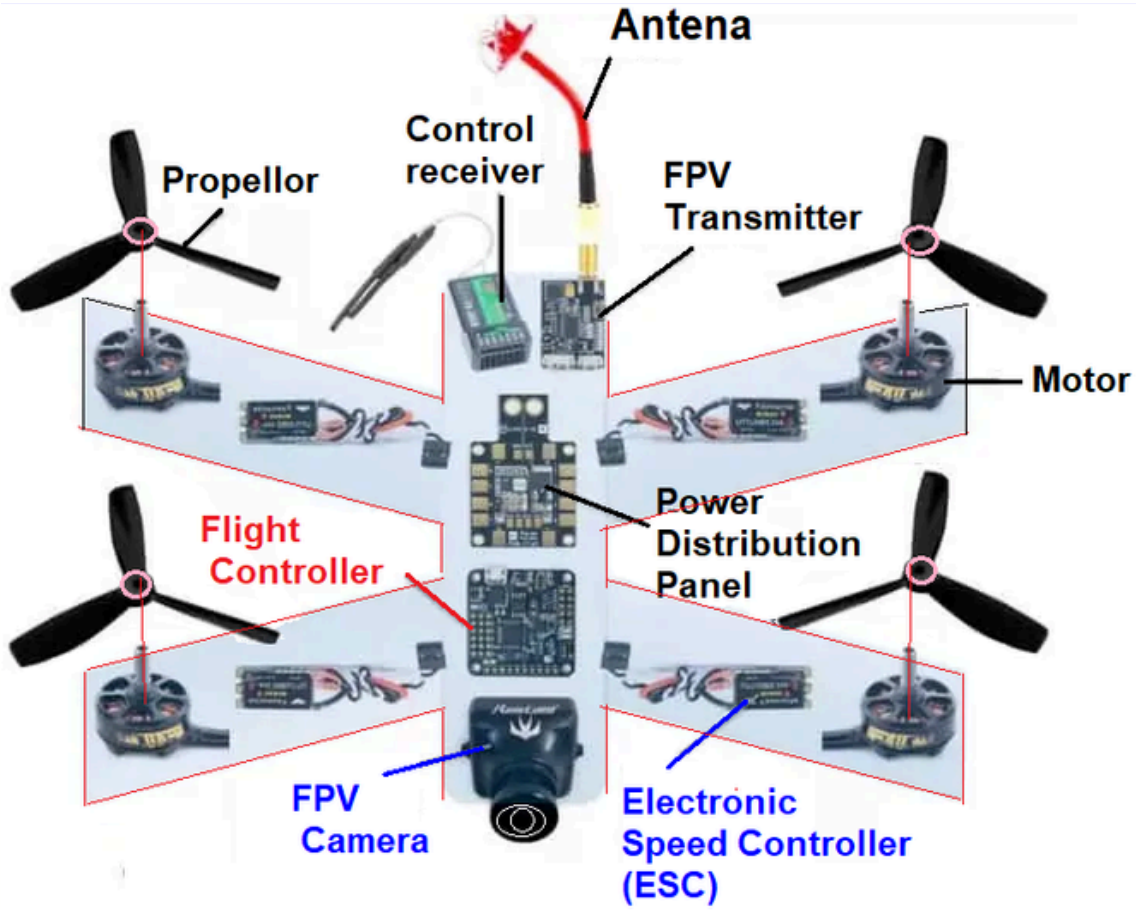
Landing Gear: Provides a stable platform for takeoff and landing, protecting the drone's components from ground contact.

LED Lights: Enhance visibility, especially during low-light conditions, and may serve as indicators for various operational states, such as battery level.

MicroSD Card Slot: Allows storage of captured media directly on the drone for later retrieval.

These components collectively form a sophisticated drone system, combining hardware and software to deliver a range of functionalities for recreational and professional drone applications.

Parts of a Drone



Module Three

Pre-flight Preparations

DRONE FLIGHT PLANNING

SETTING UP YOUR DRONE

- Attach propellers to the rotors, aligning them with the colors indicated on both the propellers and following the specified direction for installation.
- Securely attach the drone battery by holding the top and bottom, ensuring proper fixation.
- Remove the Gimbal protector from the camera to free it up.
- Press the power button once to display the battery life and press twice to activate the drone.
- Attach the antennas to the controller and power it on.
- Establish a connection between your chosen device and the drone by using a pre-installed drone flight application (DJI GO 4).

FLIGHT PLANNING

- Consult the weather forecast for the day of the flight and plan accordingly.
- Download an app on your device to check for geofencing limitations, including restricted areas and safe zones for drone flight.
- Avoid flying within 50m of residential and commercial areas with people, especially if the drones weigh between 250g and 500g.
- Adhere to the permissible flying height of 400ft or 120m.
- Verify the battery life of both the drone and controller.
- Ensure proper calibration of the drone by holding it upright and turning it 360 including sideways, while maintaining a stationary position.

FLIGHT EXECUTION

- Check the controller for the drone's flight time and allow an extra 10-minute buffer for potential return.
- Carry extra batteries for extended missions beyond a single battery's capacity.
- Create a flight plan on the app and ensure the drone application displays "ready to go GPS.
- Power the drone by pulling the left and right thumb sticks towards each other or using the start button on the application.
- Initiate a return to home when the battery is less than half its full range.
- Maintain visual contact with the drone for control purposes.
- Ensure airspace safety at all times.
- Bring the drone down to the home position by long-pressing the left thumbstick or using the home button on the controller.
- Capture site images for additional accuracy.

WHY FLIGHT PLANNING?

Meticulously, pre-flight preparations are the cornerstone of successful drone piloting. Understanding the components, adhering to a preflight checklist, thoughtful flight planning, thorough ground preparation, and precise flight execution collectively contribute to a safe, enjoyable, and rewarding drone piloting experience. Regular practice and adherence to these guidelines will enhance your skills and confidence as you navigate the skies with your drone.

On-Field Trainings at PFA

Module Four

Basic Flying Skills

BASIC FLYING SKILLS

Mastering basic flying skills is essential for anyone venturing into the world of drone piloting. This section will focus on fundamental flight techniques designed to help beginners navigate their drones confidently and safely.

Flight Techniques for Beginners:
Hovering Practice: Start by mastering the art of hovering. Begin in a controlled environment, lifting the drone a few feet off the ground. Practice maintaining a stable hover using the throttle control. This foundational skill forms the basis for more advanced maneuvers.

Altitude Control: Gradually increase altitude while maintaining stability. Practice ascending and descending smoothly, getting a feel for the throttle control's sensitivity. Establishing precise altitude control is crucial for varied aerial activities.

Basic Maneuvers: Experiment with basic maneuvers like forward and backward movements, left and right strafing, and turning. These maneuvers enhance your ability to control the drone's orientation and position.

Yaw Control: Yaw control involves rotating the drone horizontally. Practice rotating the drone clockwise and counterclockwise, ensuring a smooth transition. Yaw control is pivotal for capturing panoramic shots and changing flight directions.

Figure 8s and Circles: Advance your skills by practicing figure 8s and circular flights. These maneuvers incorporate coordinated movements, requiring a combination of pitch, roll, and yaw controls. Mastering these shapes enhances overall control and maneuverability.

Wind Compensation: Flying in varying wind conditions is inevitable. Practice adjusting your controls to compensate for wind, maintaining stability and control during gusts. This skill is crucial for safe flights in real-world conditions.

Emergency Landing: Learn to execute emergency landings in case of unexpected issues. Practice slowly descending and landing your drone safely. This skill can prevent damage in challenging situations.

Orientation Awareness: Develop a keen sense of orientation by understanding the drone's front, back, left, and right. This awareness is vital for maintaining control, especially when the drone is at a distance.

Consistent practice of these flight techniques gradually builds confidence and proficiency in drone piloting. As a beginner, focus on mastering these fundamental skills in a controlled and open environment before advancing to more complex maneuvers. Regular practice, patience, and a methodical approach will pave the way for an enjoyable and rewarding drone piloting experience.

Module Five

Advance Flying Maneuvers

EXPLORING ADVANCED DRONE MOVES

Flips and Rolls: Take your piloting skills to new heights by experimenting with flips and rolls. Execute forward or sideways flips, and incorporate rolls for dynamic aerial displays. This requires precise coordination of pitch and roll controls, enhancing your mastery over the drone's movements.

Power Loops: Power loops involve flying upward in a half loop and then completing the loop by descending. This impressive maneuver showcases the drone's agility and adds a thrilling element to your flight. Mastering power loops requires a combination of throttle control and pitch adjustments.

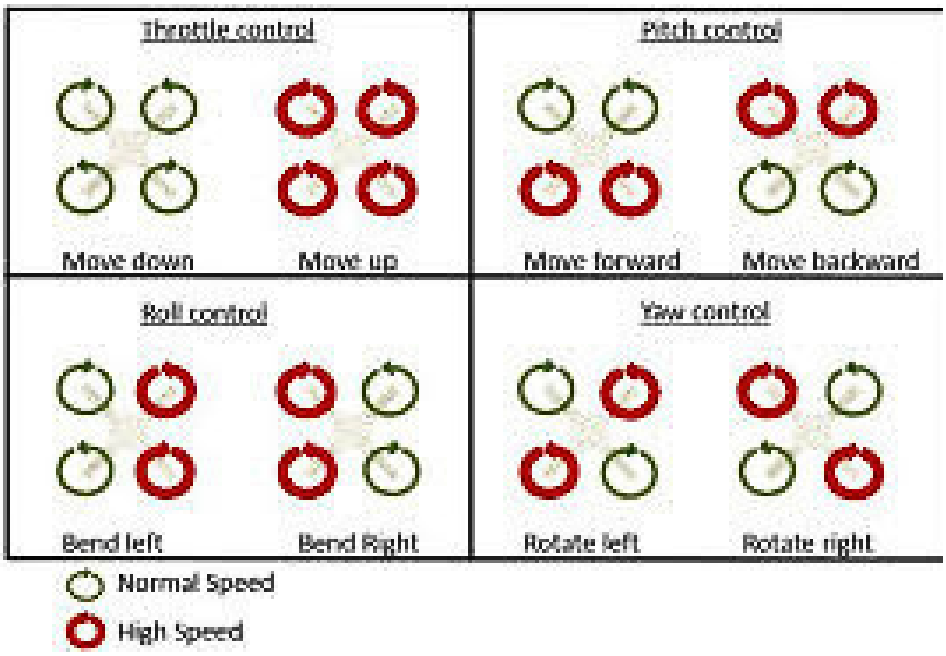
Inverted Flying: Challenge your orientation skills by flying your drone upside down. Inverted flying adds a unique perspective to your aerial footage and demands heightened spatial awareness. Practice this maneuver in a controlled environment to avoid potential mishaps.

Loopty-Loop: Combine a loop with a barrel roll for an intricate and visually stunning maneuver known as the loopy-loop. This advanced move requires precise control over pitch, roll, and yaw, creating a captivating spectacle in the sky.

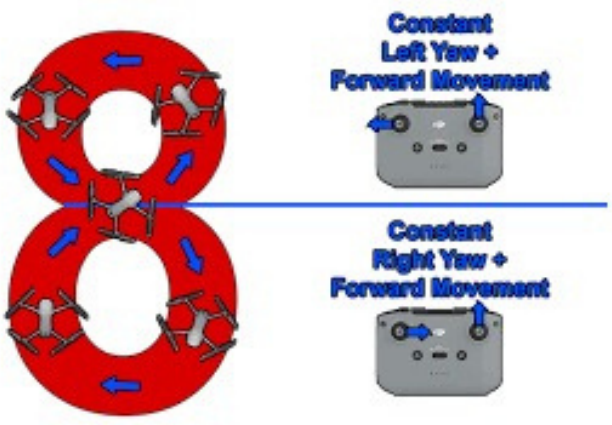
Knife Edge: Achieve a sideways orientation by flying your drone along its side, creating a knife-edge effect. This challenging maneuver showcases precision control and is a favorite among experienced pilots seeking to push their skills to the limit.

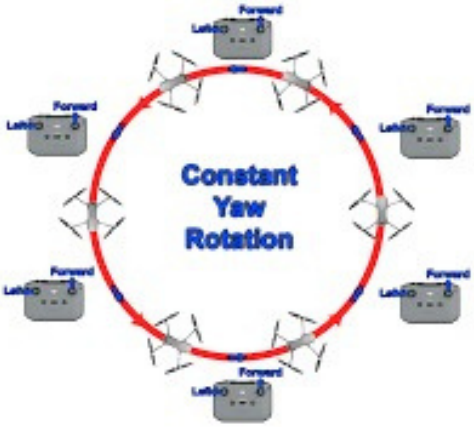
Orbiting: Elevate your cinematography skills by mastering orbiting maneuvers. Fly your drone in circular paths around subjects or points of interest, creating cinematic and captivating footage. Perfect orbiting demands a delicate balance of yaw, pitch, and roll controls.

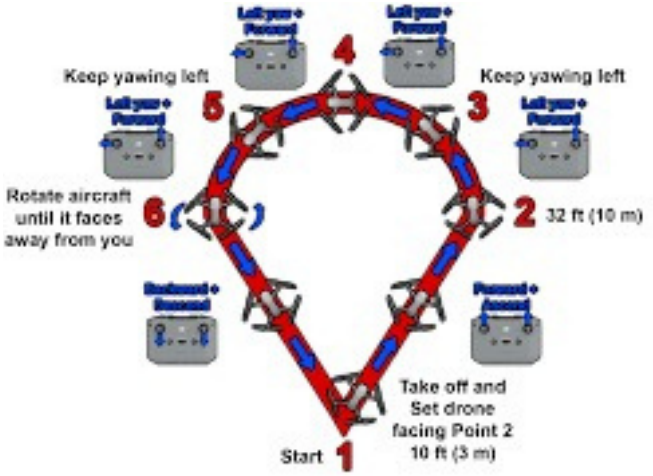
While exploring advanced drone moves, it's crucial to prioritize safety and practice in open spaces away from obstacles. Regular practice and a gradual approach to advanced maneuvers will enhance your skills, ensuring a seamless integration of creativity and precision in your drone piloting endeavors.

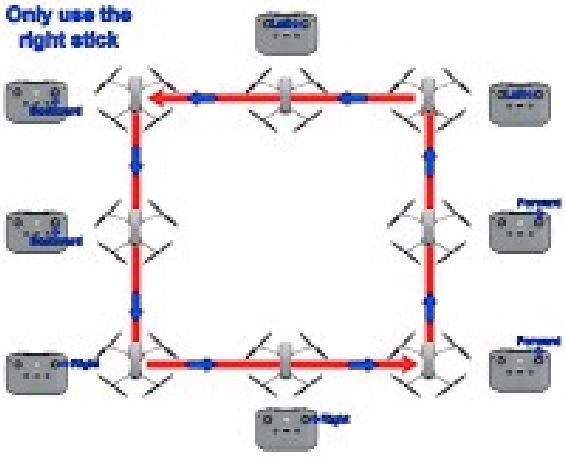


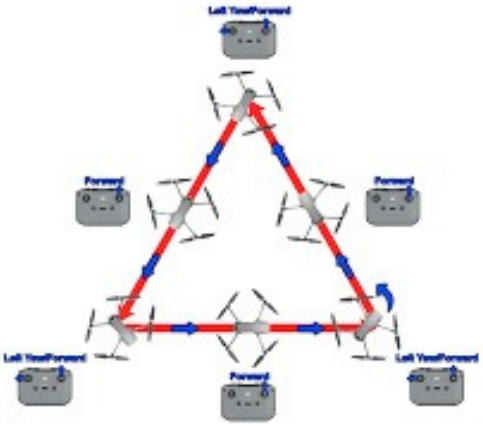
EXPLORING ADVANCED DRONE MOVES











Module Six

Drone Photography and Videography

Drone Photography and Videography

Drone technology has revolutionized the world of photography and videography, providing enthusiasts and professionals with unprecedented access to breathtaking aerial perspectives.

In this section, we explore techniques for capturing stunning aerial shots and delve into the art of mastering drone videography.

Capturing Stunning Aerial Shots

Composition is Key: Apply the principles of composition to your aerial shots. Experiment with the rule of thirds, leading lines, and framing to create visually appealing and well-balanced images. Consider the unique vantage point that drones offer to capture landscapes, cityscapes, and intricate patterns from above.

Utilize Altitude and Angles: Play with different altitudes and angles to discover the most compelling perspectives. Low-altitude shots can emphasize details, while higher altitudes provide expansive views. Experiment with oblique and straight-down angles to add depth and variety to your aerial photography.

Golden Hour Magic: Leverage the magic of the golden hour for stunning aerial photography. The warm, soft light during sunrise and sunset enhances colors and textures, creating a cinematic atmosphere. Plan your flights to coincide with these times for captivating and visually striking results.

HDR and Bracketing: Manage challenging lighting conditions by utilizing High Dynamic Range (HDR) and bracketing techniques. This involves capturing multiple shots at different exposures and blending them to achieve a balanced and detailed image, especially useful when dealing with contrasting light and shadows.

Mastering Drone Videography

Smooth and Controlled Movements:
Achieve cinematic results by focusing on smooth and controlled drone movements. Gradual and deliberate pans, tilts, and tracking shots contribute to a professional look. Practice precision in your controls to eliminate jerky movements that can detract from the viewing experience.

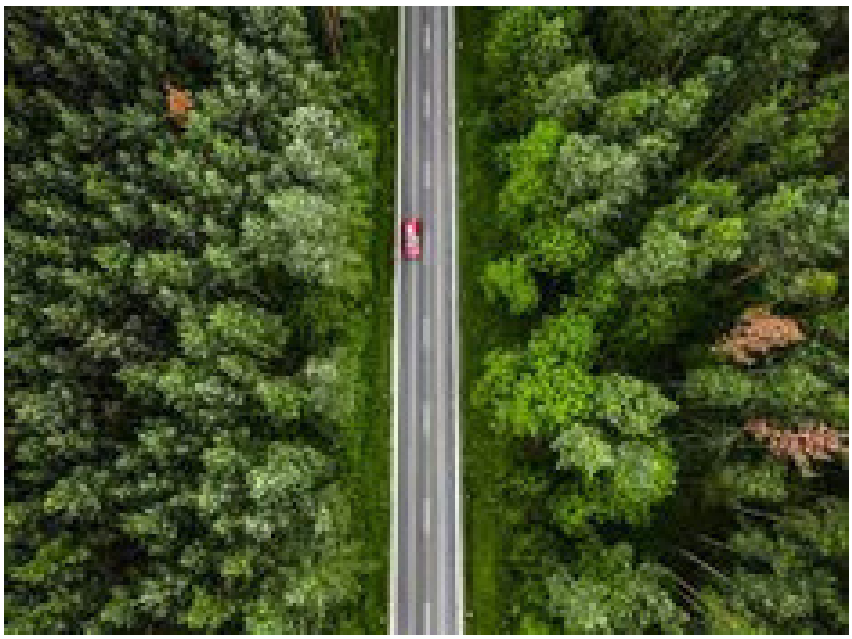
Storytelling Through Movement: Use your drone as a storytelling tool through intentional movement. Create dynamic sequences that guide the viewer through a narrative. Combine aerial perspectives with ground-level shots to add variety and depth to your storytelling.

Drone Photography and Videography

Cinematic Camera Settings: Tailor your camera settings for cinematic quality. Opt for a higher frame rate, such as 24 frames per second, for a cinematic feel. Adjust shutter speed, aperture, and ISO to achieve the desired exposure in different lighting conditions.

Editing Techniques: Enhance your drone footage through post-processing and editing. Experiment with color grading to evoke specific moods, add music or sound effects to enhance the atmosphere, and trim footage for a polished final product.

Mastering drone photography and videography involves a blend of technical expertise, creativity, and an understanding of the unique capabilities drones offer. By honing these skills, you can unlock a world of artistic possibilities and create captivating visual stories from above.



Module Seven

Drone Regulations and Safety

DRONE REGULATION AND SAFETY

As the popularity of drones continues to soar, drone pilots must be well-versed in regulations and adhere to strict safety guidelines. This section explores the importance of understanding drone regulations and provides essential safety guidelines for responsible and secure drone piloting.

Understanding Drone Regulations:

Local Regulations: Familiarize yourself with local drone regulations as they vary across regions. Different countries and even municipalities may have specific rules governing drone flights, including altitude limits, no-fly zones, and registration requirements. Stay updated on any changes in regulations to ensure compliance.

Airspace Regulations: Respect airspace regulations to ensure the safety of manned aircraft. Obey altitude restrictions and be aware of controlled airspace areas. Some regions have designated zones for drone flights, and it's crucial to adhere to these boundaries to prevent interference with other air traffic.

Registration and Licensing: Many Civil Aviation require drone owners to register their devices and obtain licenses for commercial use. Ensure your drone is properly registered, and if applicable, acquire the necessary licenses or certifications. This not only ensures compliance with the law but also promotes responsible drone piloting.

Safety Guidelines for Drone Pilots

Drone Regulations and Safety:

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Safety Guidelines for Drone Pilots

Pre-flight Check: Perform a comprehensive pre-flight check before each operation. Inspect the drone's components, including propellers, motors, and battery connections. Confirm that the remote controller is functioning correctly, and double-check all settings. This routine check reduces the risk of malfunctions during flight.

Weather Considerations: Be mindful of weather conditions before taking your drone airborne. Strong winds, rain, or low visibility can compromise the safety and stability of the drone. Check weather forecasts and avoid flying in adverse conditions.

Maintain Line of Sight: Always maintain a visual line of sight with your drone during flight. This helps you avoid obstacles and ensures you have control over the device. If using first-person view (FPV) technology, have a spotter to assist in maintaining situational awareness.

Respect Privacy: Exercise discretion when flying your drone, especially in residential areas. Respect the privacy of individuals and avoid capturing images or videos in spaces where people have a reasonable expectation of privacy.

Emergency Procedures: Be prepared for unforeseen circumstances. Familiarize yourself with emergency procedures such as executing an emergency landing and know how to respond if the drone loses signal or encounters other technical issues.

Understanding and adhering to drone regulations, coupled with strict safety guidelines, is fundamental to the responsible and ethical practice of drone piloting. By prioritizing safety and compliance, drone enthusiasts contribute to the positive integration of drones into the airspace and help mitigate potential risks associated with their operation.

Module Eight

Troubleshooting

Troubleshooting

Even the most well-maintained drones may encounter occasional issues, and being adept at troubleshooting is a key skill for drone pilots. This section focuses on troubleshooting common problems that drone operators may face during their flights.

Troubleshooting Common Issues:
GPS Signal Loss: If your drone experiences GPS signal loss, it may affect its stability and position accuracy. Check for any nearby interference sources, ensure a clear view of the sky, and recalibrate the GPS if necessary.

Battery Issues: Monitor battery levels closely and land the drone before it reaches critically low levels. If your drone unexpectedly loses power, inspect the battery for damage or wear, and consider recalibrating it. Always use manufacturer-approved batteries.

Propeller Malfunctions: Uneven flight or erratic behavior can be attributed to propeller issues. Check for any damage or debris on the propellers and replace damaged ones. Ensure the propellers are correctly installed, matching the designated motor.

Connection Problems: If you experience connectivity issues between the drone and the remote controller, check for interference from other electronic devices. Ensure both devices are properly paired and that the drone firmware and controller software are up to date.

Gimbal Troubles: A malfunctioning gimbal can impact the quality of your aerial footage. Verify that the gimbal is securely attached, properly calibrated, and free of any obstructions. If problems persist, consult the manufacturer's guidelines for further troubleshooting.

Being proficient in identifying and resolving these common issues empowers drone pilots to troubleshoot effectively and enjoy a seamless and trouble-free flying experience. Regular maintenance, staying updated on firmware, and a systematic approach to problem-solving contribute to the overall reliability of drone operations.

Module Nine

Future Trends in Drone Technology

Future Trends in Drone Technology

As drone technology continues to evolve, several emerging innovations hint at the exciting possibilities shaping the future of unmanned aerial systems.

Advanced AI integration, such as machine learning algorithms, promises enhanced autonomous navigation and obstacle avoidance.

The miniaturization of components is fostering the development of more compact and lightweight drones with extended flight times.

Beyond visual line of sight (BVLOS) operations are becoming more feasible, unlocking new potential for applications like delivery services and infrastructure inspection.

Collaborative swarming capabilities, where multiple drones work together seamlessly, are on the horizon, expanding the scope of drone applications.

Additionally, advancements in battery technology and energy efficiency are poised to address current limitations and further propel the integration of drones into various industries, from agriculture to healthcare and beyond.

The future of drone technology holds a landscape of innovation, offering unprecedented capabilities and expanding the role of drones in our daily lives.

Future Trends in Drone Technology

In the Nigerian Drone Industry Ecosystem drone pilots and enthusiasts can find valuable resources tailored to the local landscape.

Organizations like the Nigerian Civil Aviation Authority (NCAA) provide up-to-date regulations and guidelines for drone operations in the country.

Local drone communities, such as Nigeria Drone Pilots Forum, offer platforms for networking and sharing experiences.

Online courses from institutions like Precision Field Academy (PFA) cover drone technology, regulations, and applications.

Exploring resources from local drone service providers and attending workshops organized by organizations like the Dronetecx conference enriches an understanding of the industry landscape and the skills needed to be a professional.

Staying informed through Nigerian aviation news outlets and engaging with local experts ensures a comprehensive understanding of drone technology within the unique Nigerian context.

Key Things Needed To Fast Track Your Drone Career Growth

1. Take additional courses and ratings to advance your skills.
2. Read books and sign up for industry newsletters.
3. Subscribe to YouTube channel of Drone Influencers.
4. Attend Conferences, Workshops and Webinars.
5. Join Drone Professionals Network,Forums or Communities.
6. Follow Industry Leaders and Stakeholders on Social media.
7. Practice Consistently and Embrace upgrades.

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