DRONE

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Introduction to Drone Operation

- Good Practices, Safety and Hands-on Skills

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Course Objectives

- - Understand the basic components of a drone.

- - Learn to operate a drone safely and responsibly.

- - Discover practical applications in photography, mapping, and education.

- - Practice basic flight maneuvers.

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What Is a Drone?

- A drone (or UAV - Unmanned Aerial Vehicle) is an aircraft without a human pilot, controlled remotely or autonomously.

- Main Types:
- - Multirotor (quadcopters)
- - Fixed-wing
- - Hybrid drones

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Drone Components

- - Frame and propellers
- - Battery and power system
- - Flight controller
- - GPS module
- - Camera or sensor
- - Remote control / transmitter

- Tip: Knowing each part helps detect and prevent issues.

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Safety and Legal Rules

- - Check local regulations before flying.

- - Keep visual line of sight.

- - Do not fly near airports or crowds.

- - Respect privacy and property.

- - Fly only in safe weather conditions.

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Pre-Flight Checklist

- ✅ Check battery and propellers
- ✅ Calibrate compass and GPS
- ✅ Verify take-off area is clear
- ✅ Test remote control connection

"Safety first – every flight, every time"

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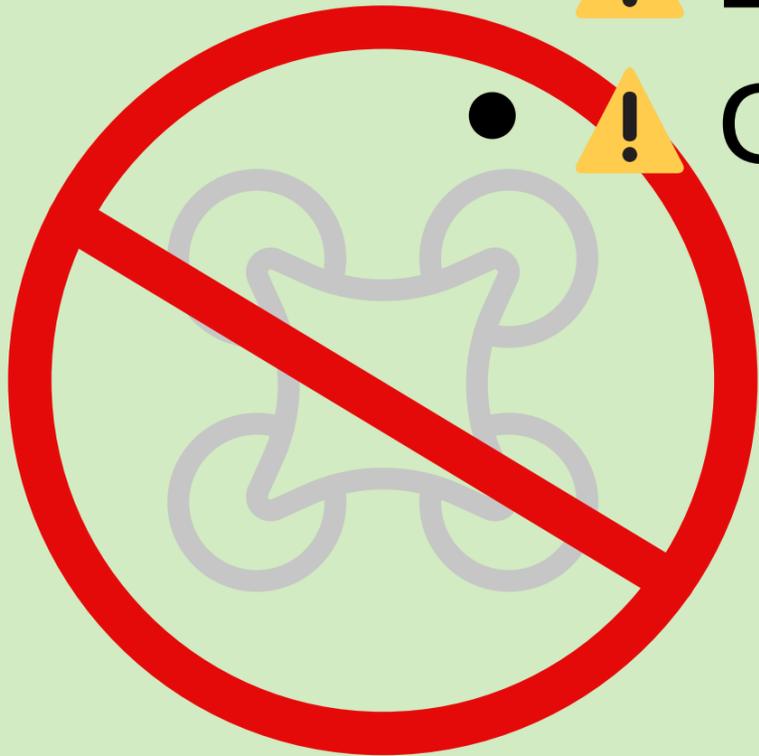
Basic Maneuvers

- - Take-off and landing
- - Hovering
- - Forward, backward, and lateral flight
- - Turns and orientation control

- Activity: Practice.

Drone activity

Common Mistakes to Avoid

- ⚠️ Flying indoors or near people
- ⚠️ Ignoring low-battery warnings
- ⚠️ Losing orientation
- ⚠️ Overconfidence without practice

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Practical Applications

- - Aerial photography and videography

- - Agriculture and land monitoring

- - Environmental studies

- - Infrastructure inspection

- - Educational projects

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Conclusion

- Drones are tools of creativity and innovation – mastering them starts with safety and responsibility.