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Foundation Of Drones

Module 1: Introduction to Drones

Session 1: Introduction to Drones

- Learn what drones (UAVs) are, their categories by weight, major components (frame, motors, ESCs, controller, propellers, battery, transmitter), and essential safety & maintenance guidelines.

Session 2: History of Drones

- Trace the evolution of drones from 18th-century prototypes to modern AI-enabled autonomous systems.

Session 3: Applications of Drones

- Explore diverse uses of drones across fields like photography, agriculture, disaster management, logistics, and surveillance.

Session 4: Indian Drone Laws

- Understand DGCA regulations, registration and licensing requirements, flight zones, safety limits, and Digital Sky compliance.

Module 2: Future Scopes & Drone Assembly

Session 5: Future Scopes of Drone Technology

- Discover upcoming trends such as AI-based autonomy, swarm robotics, delivery networks, BVLOS operations, and drone-as-a-service business models.

Session 6: Drone Assembly

- Assemble the drone step-by-step, frame setup, motor installation, battery integration, propeller fitting, controller pairing, pre-flight checks, and first-flight testing.

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