



MGR ASSOCIATION FOR GREAT INNOVATIVE CREATORS

Department of Civil Engineering

Event Title	Alumni Interaction on Drone Technology BY Mr. Maharish Manager, 2017 Batch		
Objective of Event	To induce the knowledge about drone technology		
Chief Guest /Speaker Details	maharish, manger, drone		
Date	24/04/2023	Time	10.00 AM to 12.00 PM
Venue	Civil Smart Class Room	No. of Participants	120

REPORT

TITLE

Alumni lecture of drone

CONTENT

The reason drone technology has been adopted so quickly in construction work is that it presents an array of compelling benefits. These include improved safety, savings, faster data collection, and real-time project and material tracking, among others. Surveying with a drone offers enormous potential to GIS professionals. With a drone, it is possible to carry out topographic surveys of the same quality as the highly accurate measurements collected by traditional methods, but in a fraction of the time. This substantially reduces the cost of a site survey and the workload of specialists in the field. There are two main types of drone platforms:

1. rotor, including single-rotor and multi-rotor, such as tricopters, quadcopters, hexacopters and octocopters; and
2. fixed-wing, which include the hybrid vertical takeoff and landing (VTOL) drones that don't require runways.

Nonmilitary drones are generally either personal and hobbyist ones or commercial aircraft.

GETT

Personal drones often provide video or still-camera capabilities.

Personal drones

Many personal drones are available for consumer use. They have become



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standard Black Friday and Cyber Monday deals, offering HD video and still camera capabilities. Operators are often beginners who are looking to simply fly them for fun or racing. These drones usually weigh 10 pounds or less; they can be as light as under a pound.

Some popular personal drones include the following:

- Autel EVO II offers high-end video.
- DJI FPV Combo is built for racing.
- DJI Air 2S is a good device for novices, with a foldable design and sensor technology.
- DJI Mavic 3 is a powerful camera drone with omnidirectional obstacle sensing.
- DJI Mini 2, at about 242 grams, it's one of the lightest drones.
- Parrot Anafi is compact with advanced stabilization features that make it wind resistant.
- PowerVision PowerEgg X flies in all weather, lands on water, has AI capabilities and converts into a handheld camera.
- Ryze Tello is rated high for beginners.

Commercial drones

Stronger, more capable drones are also available for use in commercial settings. Insitu, a Boeing company, offers the ScanEagle, a UAV with a 10-foot wingspan and weighs 35 pounds. Insitu also builds the Integrator, an 80-pound aircraft with a 16-foot wingspan. Insitu drones do not take off from runways. Instead, they use VTOL capabilities in the company's launchers and recovery system. Sensors available include electro-optic imagers, mid-wave infrared imagers, infrared markers and laser rangefinders.





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To make students interact with alumni and gain contact with outside world of their core department people and increase the chances of placements, internship. Drones have a large number of components, including:

- electronic speed controllers, which control a motor's speed and direction;
- flight controller;
- GPS module;
- battery;
- antenna;
- receiver;
- cameras;
- sensors, including ultrasonic sensors and collision avoidance sensors; accelerometer, which measures speed; and

PHOTOS

Mrs.A.Hemamalini