TWO DAY WORKSHOP ON

DRONE TECHNOLOGY

ORGANISED BY

Department of Mechanical Engineering

November 03-04, 2022

NSRIT

Autonomous

ASME

SETTING THE STANDARD

NSRIT STUDENT SECTION

Vision

- To train the students to be professional and competent Mechanical Engineers to take up the challenges in the society and strive continuously for excellence in education and research

Dr. P.N.E. Naveen
Head of the Department

Mission

- To provide quality education for successful career and higher studies in Mechanical Engineering
- To emphasize academic and technical excellence in the profession
- To take up consultancy and research in solving the problems related to Mechanical Engineering

PROGRAM EDUCATIONAL OBJECTIVE (PEOs)

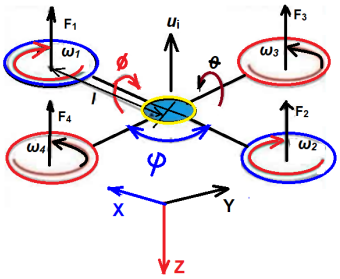
The PEOs are the educational goals that reflect Professional and Career Accomplishments that a graduate hould attain after 4 – 5 years of his/her graduation.

The graduates of Mechanical Engineering of NSRIT will

1. PEO #1: Continue to excel in professional mechanical related careers or chosen career path that apply 21 st century skills following ethical standards and practices contributing towards sustainable development by providing feasible and viable technical solutions catering the real-time engineering problems
2. PEO #2: Engage in experiential learning through their professional practices and adapt to changing skills sets in the pursuit of lifelong learning
3. PEO #3: Continue to demonstrate the skill sets that are very much essential to work successfully for a rewarding career in a multidisciplinary setting

What is a Drone ?

A drone is an unmanned aircraft. Drones are more formally known as unmanned aerial vehicles (UAVs) or unmanned aircraft systems. Essentially, a drone is a flying robot that can be remotely controlled or fly autonomously using software-controlled flight plans in its embedded systems, that work in conjunction with onboard sensors and a global positioning system (GPS).



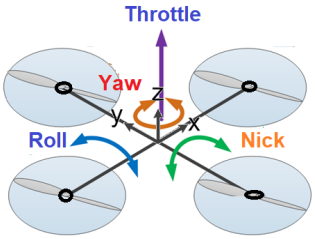
How do drones work?

Drones have two basic functions: flight mode and navigation.

To fly, drones must have a power source, such as battery or fuel. They also have rotors, propellers and a frame. The frame of a drone is typically made of a lightweight, composite material to reduce weight and increase maneuverability.

Drones require a controller, which lets the operator use remote controls to launch, navigate and land the aircraft. Controllers communicate with the drone using radio waves, such as Wi-Fi.

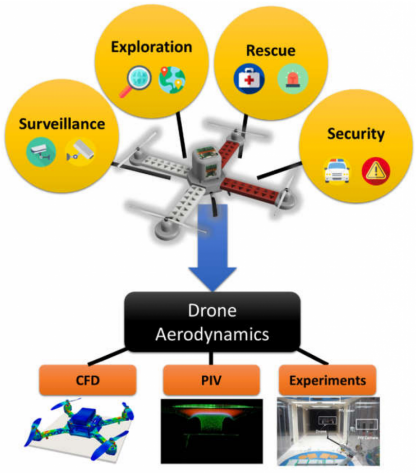
What types of drones are available?

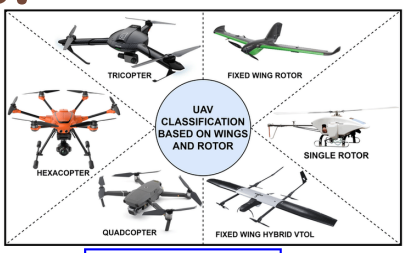


There are two main types of drone platforms:

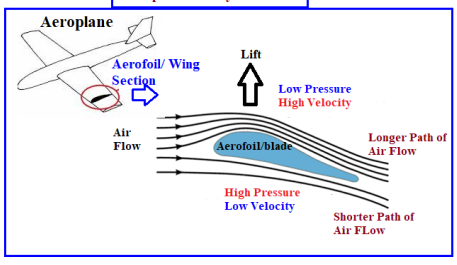
rotor, including single-rotor and multi-rotor, such as tricopters, quadcopters, hexacopters and octocoptors; and
fixed-wing, which include the hybrid vertical takeoff and landing (VTOL) drones that don't require runways.
Nonmilitary drones are generally either personal and hobbyist ones or commercial aircraft.

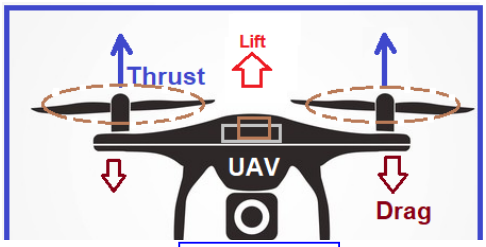
Why use drones?



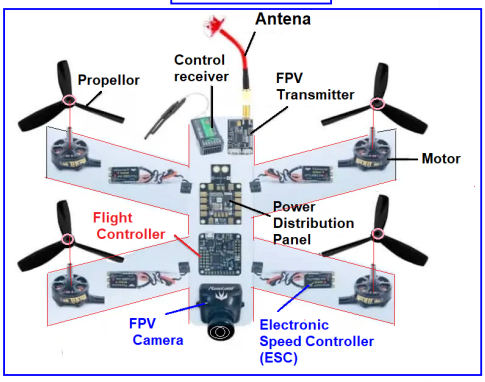


Principle of Aerodynamic Lift





Parts of Drone



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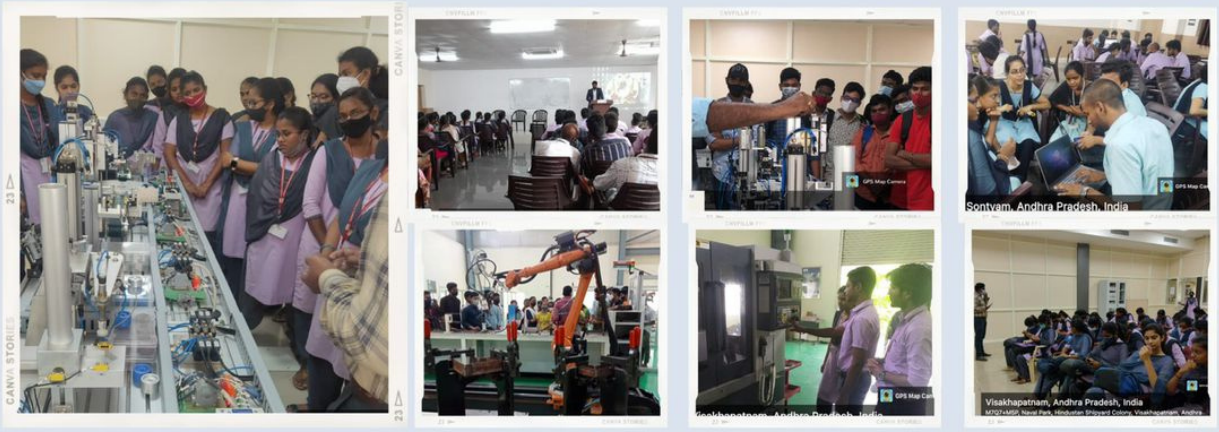

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