NITTTR BHOPAL

GUJ-38/2026-2027
Drone and Drone Applications
16-11-2026 to 20-11-2026
EC Ahmedabad

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Rationale

Drones are more formally known as Unmanned Aerial Vehicles (UAVs) or unmanned aircraft systems (UAS). Applications of drones in the practical field are very much evident and are growing by many folds with the integration of various upcoming technologies like advanced sensors, imaging and data analysis, 5G and other wireless communications, AI and ML, IoT, etc. The innovative use of drones for various applications like traffic monitoring, surveillance, defense applications, crop monitoring and other agriculture activities, telemedicine, construction site monitoring logistics, etc., indicates the need for a multidisciplinary research approach. This FDP/program aims to inspire and motivate faculty as well as research scholars for the learning and innovation in cutting-edge technologies like drones and their application for the betterment of society and the Nation.

Programme Outcomes

•Describe the working of the building blocks of the Drone system.
•Explain functions of various sub systems of the Drone .
•DGCA rules and regulations for Drone operations in India.
•Use of Drones for various applications.
•Drone Control through IoT platform.

Programme Content

Basic component of drone systems, functions of Subsystems of drones, analyze modeling and simulation of drone systems, flight/Aerodynamics concept, sensors and actuators used for drones, drone parameters and applications, DGCA rules for drone, and IoT for drones, drone simulator hands on practice.

Target Group

Faculty of all disciplines

Coordinator & Co-Faculty

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