



THE NEWS LETTER

ISSUE DEDICATED TO:
Drone Technology

DRONE TECHNOLOGY

A drone is an unmanned aircraft that doesn't have a human pilot on board (UAV). It has a controller on the ground and a way for the two to talk to each other. UAV flights can be run in different ways: 1. Remote control by a human operator 2. Autonomously by onboard computers 3. Piloted by an autonomous robot UAVs are automated i.e. they can reach their goals on their own, but they still need human operators or some kind of control. But an autonomous drone is also a UAV, but it can run without any help from a person i.e. take off, fly, hit the target, and land all on their own. Drones use a lot of advanced technologies, like cloud computing, computer vision, artificial intelligence, machine learning, deep learning, and thermal sensors, to give this kind of control.



Also, it can be classified as low altitude (< 1 km), medium altitude (1–10 km), high altitude UAV (> 10 km) UAV regarding the maximum flying height of the UAV. In addition, UAVs can not only fly in the air but also move on water surfaces or underwater. The overlap of these classification methods will produce different effects. For example, the widely used miniature short-range quad-rotor UAVs can be used to complete aerial photography tasks.



In terms of weight, UAVs are divided into three groups: micro, miniature, and heavier UAVs. Micro UAVs weigh less than 1 kg and are often used for small, short-range tasks. Miniature UAVs, weighing between 1 and 25 kg, are more versatile and can carry additional equipment or sensors. This classification system helps in choosing the appropriate UAV type based on specific operational requirements and mission goals.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)
 PEO 1. Graduates will have initiate their careers in industry, government and private sector, research organizations or become an entrepreneur
 PEO 2. Graduates will pursue higher education in electrical engineering or other fields of their comfort
 PEO 3. Graduates will work in a team with leadership quality, show ethical values, express with effective communication, concern to environment and commitment to safety and development of society in the field they choose to pursue

VISION OF THE DEPARTMENT (DV):
 To impart technical knowledge, develop skills for research and innovation and prepare graduates with a great human value to meet the industry and societal needs.

DEPARTMENTAL MISSION (DM):

DM1-To impart quality engineering education with holistic development and to produce engineers, technologists, scientists and citizens who will contribute meaning fully to the growth and development for future generation of the country.

DM2-To promote interdisciplinary research work and opportunity to work in a team through collaborative research and project work to meet the future challenges for society.

DM3-To inculcate professional ethics focus on excellence in curricular, co-curricular and extracurricular activities and moral responsibility for a better society.

DEPARTMENTAL EVENTS...



GROUP DISCUSSION SESSION



ONE DAY WORKSHOP ON CONSERVATION OF ENERGY



TECH QUIZ 2K22



PC ASSEMBLING FOR BEGINNERS



ONLINE DEBATE COMPETITION

FUN FACTS!

1. THE LARGEST MANUFACTURER AND EXPORTER OF MILITARY AND DEFENSE DRONES IS ISRAEL.
2. THE MOST EXPENSIVE MILITARY DRONE IS THE US-MADE MQ 9 REAPER, WHICH COSTS AROUND 14 MILLION USD.
3. PASSENGER CARRYING DRONE IS THE CHINA - MADE EHang 184, WHICH COSTS AROUND 300,000 USD.
4. DRONES ARE USED FOR HUMANITARIAN CAUSES AS WELL, SUCH AS DELIVERING FOOD AND AID TO REMOTE AREAS.

GLIMPSE OF NAAC VISIT...



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DEPARTMENT OF ELECTRICAL ENGINEERING

SOME OF OUR STUDENTS PLACED IN THE YEAR 2023-2024



**AND THE LIST
CONTINUES...**

SOME OF OUR RECRUITERS

