



Mangalmay Institute of Engineering & Technology

AN INSTITUTION OF MANGALMAY FOUNDATION TRUST

Campus: 8, Knowledge Park-II, Greater Noida (U.P.)

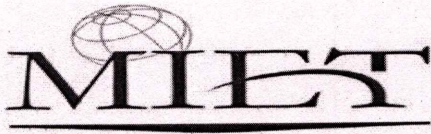
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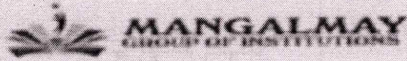


**INSTITUTION'S
INNOVATION
COUNCIL**

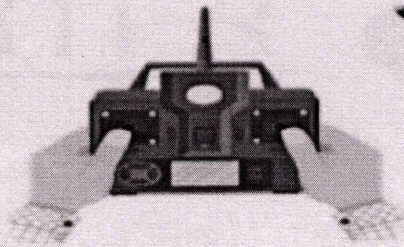
(Ministry of Education Initiative)



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of HRD Initiative)



DRONE WORKSHOP



Experience the future of
technology in our drone workshop

On May 1, 2023

@ MIET Seminar Hall, Block A

mietengineering.org

U. Palya
Director
Mangalmay Institute of Engineering & Technology
Greater Noida (U.P.)-201310
(College Code-786)

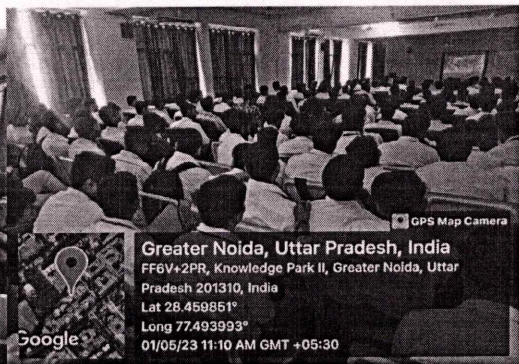
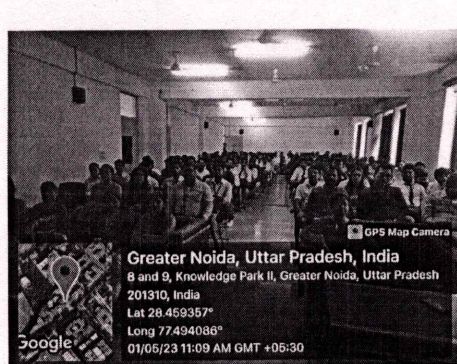
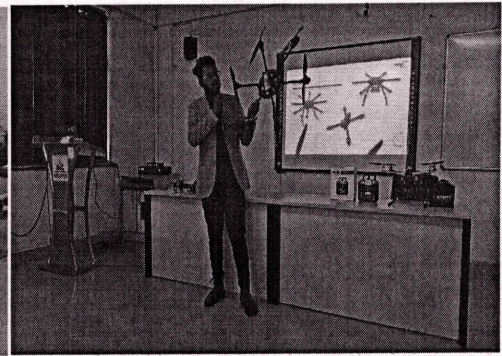
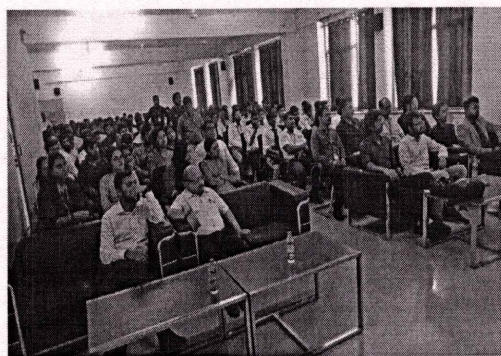
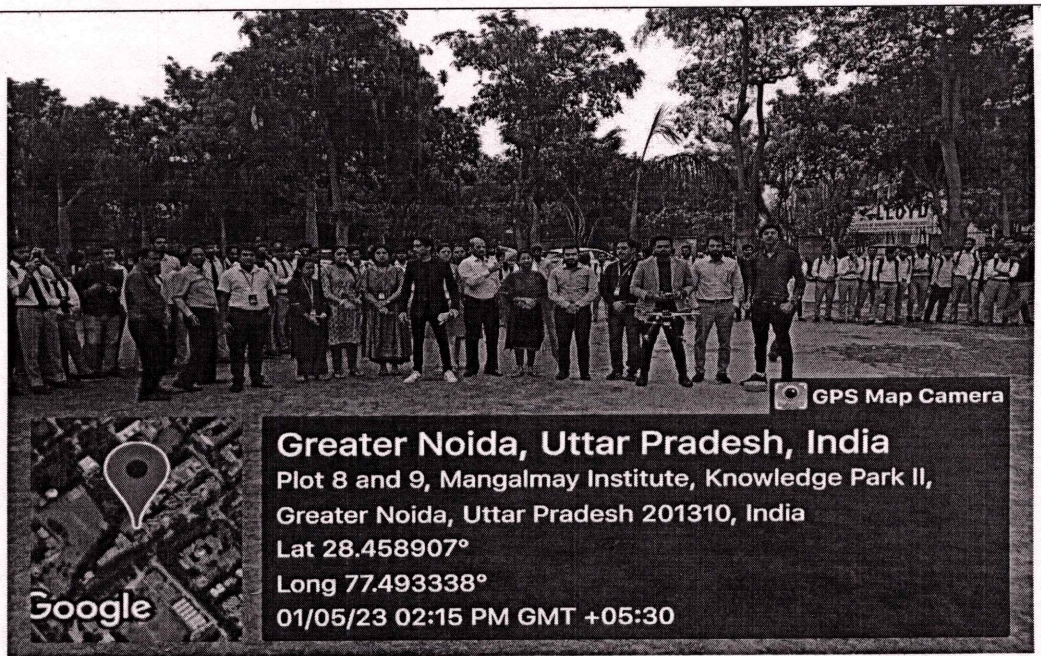


Activity Report	
Academic Year	2022 - 2023
Name of Activity	Workshop on Drone Technology
Date of Activity	01/05/2023
Organized by	Mangalmay Institute of Engineering and Technology, Greater Noida
Resource Person	Mr. PriteshAnand, UddhavVashud (Co-Founder, StarX 91)
Objective	<ul style="list-style-type: none">This workshop provides foundational knowledge about drone technology and its business applications. Drone technology can be used for personal, commercial and security purposes. It's also used in artificial intelligence applications like emergency management, surveillance and homeland security.
Brief Report	<p>Mangalmay Institute Of Engineering And Technology (MIET), organized by a "Workshop on Drone technology" at 1/05/2023 in Block A MIET Campus. StarX 91 Company organized this workshop. In this workshop Mr. PriteshAnand, UddhavVashud (Co-Founder, StarX 91) focused on the technology used in making drones, they focused on making drones, their uses, and weight depends on the carrying capacity. Experimental drone flying session was also organized at the end of the theory session. The main objective of the workshop was, how to build, how to fly as well as how to use this technology as a business and self-employment.</p> <p>More than 350 engineering students participated in this workshop and asked a lot of questions. On this occasion, the Chairman of the group Mr. AtulMangal, Vice Chairman Mr. AyushMangal and Executive Director Ms. PrernaMangal along with Head of Department Computer Science and Engineering Dr. Sanjay Pachauri, Coordinator B.Tech. Dr. GarimaSrivastava, Event Coordinator Mr. GhanshyamYadav were also present. On this occasion, the Chairman of the group Mr. AtulMangal told the students that this is one area where there are a lot of job opportunities available nowadays including being a licensed and trained drone pilot. The students were so excited and were demanding more sessions on this workshop. College will arrange more sessions for the students in the near future also. The session began with technical and theoretical aspects of aviation. The speakers gave a presentation and spoke about the Wright brothers- who were the first ones to commercialise the plane. A timeline of the development of human flight over time was also shown. The instructors then lectured about the technical nitty-gritties of flight. Then, they spoke about the three main movements axes of flying- roll, pitch and yaw. Concepts of fluid mechanics such as Bernoulli's Principle and the Coanda Effect were also covered.</p> <p>On covering all the required details of aviation, for the second half of the day, the participants were asked to pair up in groups of two and were provided with the</p>

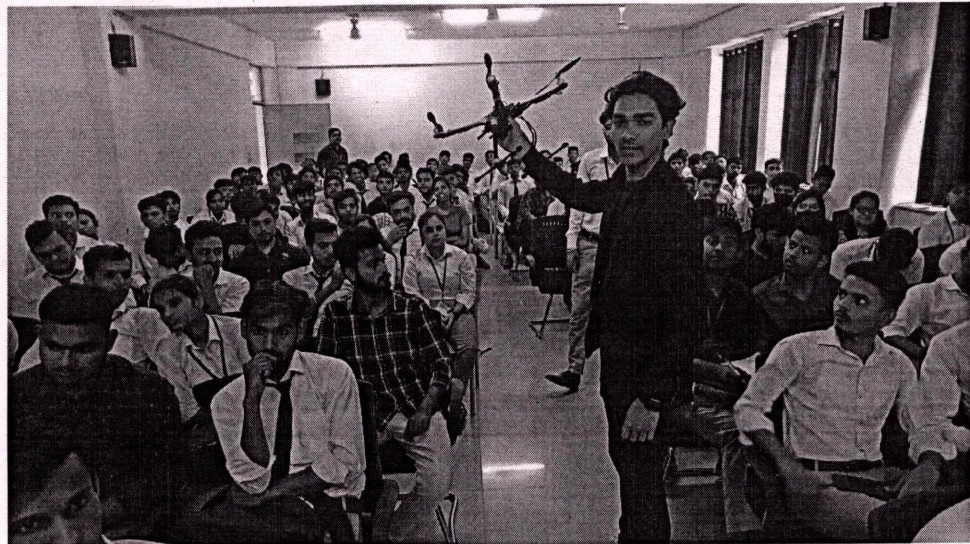
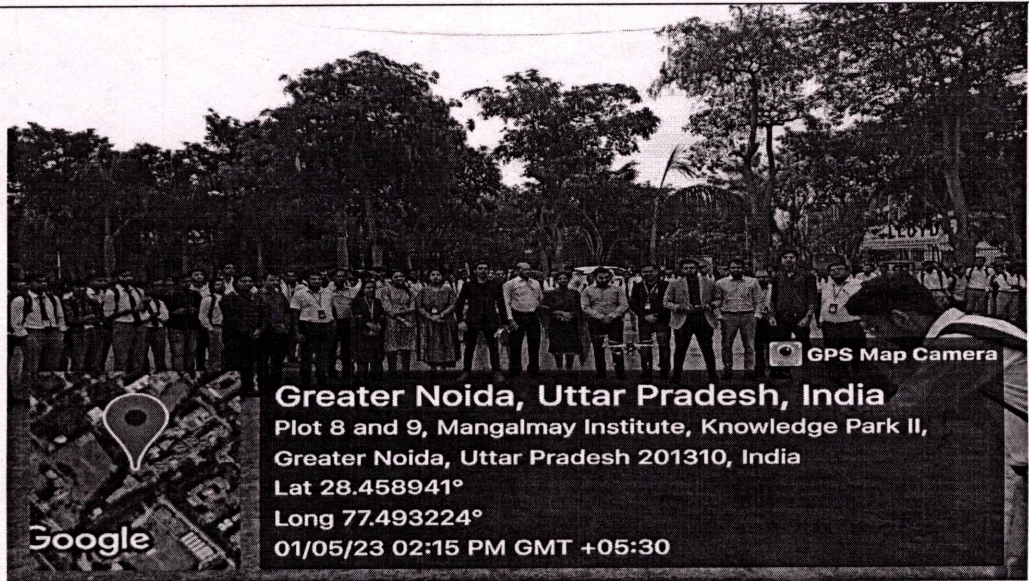
Director *[Signature]*
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	<p>necessary components to assemble a drone. This included a flight control board, sensors such as accelerometer, gyroscope, magnetometer, an ESP 8266 Wi-Fi module, brushless DC motors, etc. The Eduvance drone application was given to the students that involved augmented reality technology for easy understanding of building a drone.</p> <p>The Speakers began the session by talking about the various components of a drone that included the flight control board, the sensors like an accelerometer, gyroscope, magnetometer, the electronic speed controller, etc. The materials of the various frames used for assembly, the different carbon composites were discussed.</p> <p>For the next half of the day, the students were given a drone simulator using their PC and VR so that they get used to controlling the drone, move the drone while in flight, get it to rotate and keep it levitating in air. The students were taken to an open area of the campus and begin the actual aviation session of the drone, after which the students had got a hold over controlling the drone and the session was concluded for the day.</p>
<p>Outcome</p>	<ul style="list-style-type: none"> ● Learning outcomes · Make a career as Drone Pilot · Create a low investment, highly demanded, trending drone-based business model. · Learn to use drones ethically. ● In future, drones will transport supplies to the remote or inaccessible areas. They will deliver medical supplies and vaccines to remote locations, dangerous places, inaccessible places as well as places affected by war or contagious diseases. ● Using drones and flying objects in covert or overt operations is crucial for safety and achieving the desired mission objectives. They can be vital in gathering actionable data and intelligence pertaining to any ground, air or sea operations, so learning and adapting to new technologies is crucial.
<p>Volunteer Students</p>	<ol style="list-style-type: none"> 1. Bhavya Joshi (Ist Year) 2. Neha Das (Ist Year) 3. Prince Yadav(Ist Year) 4. Simran Bhatt (3rd Year DS) 5. Ayush (3rd Year CSE) 6. Deepika (2nd Year CSE) 7. Devesh Singh Negi (2nd Year CSE) 8. DiskyMavi (2nd Year AI) 9. PrashantRai (2nd Year AI) 10. Vishal (3rd Year DS)

Photographs/
 News Papercutting



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 Director
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