



**Maharaja Agrasen Institute of Technology, Delhi**  
PSP Area, Plot No. 1, Sector-22, Rohini, Delhi-110086  
**Department of Mechanical Engineering**

**Event Report**

<b>Name of the Activity:</b>	Workshop on “Drone Technology”	
<b>Resource Person:</b>	Ministry of Information & Broadcasting	
<b>Date:</b> 18 <sup>th</sup> October, 2024	<b>No. of Participants:</b> 32	

On 18th October 2024, the Department of Mechanical Engineering (ME) at Maharaja Agrasen Institute of Technology (MAIT), in association with the Department of Broadcasting, Govt. of India, successfully organized a One-Day Workshop on **Drone Technology**. This workshop aimed to provide students with a comprehensive understanding of UAV capabilities in aerial photography, mapping, and advanced drone applications, preparing them for emerging advancements in the field. The workshop focused on the application of drone technology in an upcoming competition being organized by BECIL, Ministry of Information and Broadcasting.

The session featured expert presentations, interactive discussions, and hands-on demonstrations covering various aspects of drone design, aerial photography, mapping, and industrial applications. Esteemed speakers from the Ministry of Information & Broadcasting provided valuable insights into the integration of mechanical, automation, and aeronautical engineering principles in modern drone technology, offering students a comprehensive interdisciplinary perspective. The workshop covered fundamental aspects of drone technology like aerodynamics and propulsion systems, Control systems and navigation, aerial photography and mapping, industrial and commercial applications. A special segment on the BECIL Drone Competition provided participants with valuable insights into competition guidelines, requirements, and skill-building strategies. Overall, the workshop offered an enriching learning experience, equipping students with practical knowledge and industry-relevant skills in drone technology.

The workshop covered key topics from the engineering academic curriculum, such as the principles of lift, drag, and propulsion systems, enabling students to connect theoretical concepts with real-world drone applications. It also explored the role of AI and machine learning in autonomous drone operations, providing insights into how these advanced technologies enhance navigation, control, and decision-making in modern aerial systems.

Under the guidance of Dr Kanchan Mudgil, Faculty Advisor- Team Aerostar, the following students worked on the initiative:

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