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A Report on
"Drone Technology and Its Career Opportunities"
Evolution and Engineering Design Perspectives Under
AICTE – Distinguished Professional Scheme (DPS)
Organized by
Department of Mechanical Engineering
on 06.03.2026.

Report Submitted by: Dr. G. Bala Narasimha, Assistant Professor, Department of Mechanical Engineering
Resource Person Details: Dr. Rama Seshan Satagopan, Professor
Mode of Conduct: Offline
Report Received on 25.03.2026.

Inaugural Session and Technical Address (09: 30 a.m.)

The workshop started with the welcome address by the anchor, who welcomed the dignitaries, resource person, faculty members, and students to the Drone Technology Seminar. This was followed by the coordinator's welcome address delivered by Dr. G. Bala Narasimha, who formally welcomed the gathering and highlighted the importance of drone technology and its growing applications in various fields.

Following the welcome address by the coordinator, the Head of the Department Dr. S. Baskaran addressed the gathering and highlighted the importance of drone technology in the present scenario. He explained how drones are rapidly transforming various sectors such as agriculture, surveillance, disaster management, mapping, and infrastructure inspection. He encouraged students to explore emerging technologies like Unmanned Aerial Vehicles (UAVs) and develop skills relevant to modern engineering applications.

Subsequently, Dr. Dipankar Roy, Dean, School of Engineering, addressed the participants and spoke about the growing role of drone technology in logistics, defense, and industrial applications. He emphasized how drones are being widely used for parcel delivery, border surveillance, military operations, and emergency response, making them an important technology for the future. He motivated the students to take interest in such advanced technologies and pursue innovation in this field.

Session – I - Evolution and History of Drones (10:00 a.m. – 11:15 a.m.

After the welcome address, the resource person Dr. Rama Seshan Satagopan conducted the technical session on drone technology. During the session, the resource person explained the evolution and development of drone technology. The session covered the history of Unmanned Aerial Vehicles (UAVs), starting from their early use in military applications to their present-day utilization in civilian and commercial sectors. The speaker also discussed the advancements in drone technology, sensors, communication systems, and automation, highlighting how drones have become an important tool in fields such as agriculture, surveillance, aerial photography, logistics, and disaster management.

Session – II - Design Aspects of Drones (11:30 a.m. – 1:00 p.m.)

The second session focused on the design aspects and components of drones. The resource person explained the structure and working of a drone using a physical model, demonstrating the role of components such as frame, motors, propellers, electronic speed controllers (ESC), flight controller, battery, and GPS module. The session helped students understand how these components work together to achieve stable flight and control. The session was interactive, with students actively engaging in discussions and clarifying their doubts regarding drone assembly, control mechanisms, and design considerations.

Session – III - Design Aspects of Drones (11:30 a.m. – 1:00 p.m.)

The third session highlighted the skills required to build a career in drone technology. The resource person discussed the importance of knowledge in aerodynamics, electronics, programming, and flight control systems for working in the UAV industry. Students were also informed about the growing career opportunities in drone-based services such as aerial mapping, agriculture monitoring, surveillance, logistics, cinematography, and drone maintenance. The session concluded with an interactive discussion where students asked questions regarding career paths, higher studies, and industry opportunities in the field of drone technology.

Valedictory Session

The workshop concluded with the vote of thanks delivered by the coordinator, who expressed sincere gratitude to the resource person for sharing valuable knowledge and insights on drone technology. The coordinator also thanked the Dean, Head of the Department, faculty members, and students for their active participation and support in making the workshop successful.

As a token of respect, the resource person was felicitated by the University and the Department, acknowledging his valuable contribution and efforts in conducting the informative and interactive sessions. The program ended on a positive note with students gaining useful knowledge about drone technology, its design aspects, and future career opportunities.

Student Feedback:

Feedback on the Seminar was collected from the participants based on a set of predefined questions to evaluate the effectiveness of the workshop. The questions were designed to assess the content delivery, usefulness of the sessions, clarity of explanation, and overall satisfaction of the participants.

1. How would you rate the overall quality of the expert talk?				
a) Excellent	b) Very Good	c) Good	d) Average	e) Poor
2. How relevant was the talk to your academic or career interests?				
a) Highly Relevant	b) Relevant	c) Neutral	d) Slightly Relevant	e) Neutral
3. How informative was the session in improving your knowledge about the topic?				
a) Highly Informative	b) Informative	c) Moderate	d) Less Informative	
4. How would you rate the interaction during the session (questions, discussion, engagement)?				
a) Excellent	b) Very Good	c) Good	d) Average	e) Poor
5. Did the session motivate you to learn more about this field or career area?				
a) Yes	b) No			
6. How satisfied are you with the organization and management of the event?				
a) Highly Satisfied	b) Satisfied	c) Neutral	d) Dissatisfied	
7. What was the most useful or interesting part of the session?				
Ans.				
8. Any Suggestions				
Ans.				

Google Form Link: https://forms.gle/w86s2Tu96LXksuZZ6. The responses provided by the students were compiled and analyzed, and their feedback is presented below.