



## Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 9001-2015 Certified

Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.

Phone No. 08645 - 350200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2577715, 2576129.

### Department of Mechanical Engineering

## Report on One day Workshop on Drone Technologies Conducted by SAE Student Chapter

**Event:** One day Workshop on Drone Technologies

**Organized by:** SAE Student Chapter, Department of Mechanical Engineering, KLEF

**Date:** 27<sup>th</sup> March 2024

**Venue:** M003

**Introduction:** The SAE Student Chapter of the Department of Mechanical Engineering at K L Deemed to be University (KLEF) organized a comprehensive Drone Technologies Workshop that aimed to educate and provide hands-on experience to students in the field of Drone Technology. The workshop was conducted in Room No. M003, KLEF, and witnessed active participation from 50 students of the Mechanical Engineering department.

The poster is for a 'ONE DAY WORKSHOP ON DRONE TECHNOLOGIES' held on 27th March 2024 from 10 AM to 5 PM. It is organized by the SAE Student Chapter of the Department of Mechanical Engineering at K L Deemed to be University (KLEF). The workshop is open for all departments and is led by Mr. Mohaseen Jassim, Technical Services Manager, and Mr. V. Yuvaraj, Design & Manufacturing Engineer. The venue is M003. The poster also features logos for SAE INDIA, DSA, and GPS Map Camera. A Google Maps location pin is shown for Vaddeswaram, Andhra Pradesh, India, with coordinates CJRF+545, K L UNIVERSITY, Vaddeswaram, Andhra Pradesh 522303, India. The date and time are 27/03/24 10:11 AM GMT +05:30.

### Event Highlights:

- 1. Inauguration:** The workshop commenced with an online lamp lighting and prayer song, where the esteemed delegates Mr. Mohaseen Jassim, Technical Services Manager and

Mr. V. Yuvaraj, Design & Manufacturing Engineer from DecaDrives were joined along with faculty members and student participants from the Mechanical Engineering department.



**2. Interactive Session:** The workshop began with an engaging and interactive theoretical session, where the delegates explained the fundamentals of drones and their wide-ranging applications in modern engineering. This introduction set the stage for a deeper



exploration of the topic.

Drone technology, also known as unmanned aerial vehicle technology, has seen rapid advancement and adoption across various industries in recent years. Drones are versatile



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devices that can be remotely controlled or operate autonomously using onboard sensors and GPS technology. Drones come in various shapes and sizes, ranging from small quadcopters to larger fixed-wing.



Quadcopters are a type of unmanned aerial vehicle characterized by their four rotors arranged in a cross or "+" configuration. Understanding the dynamics of quadcopters is essential for their control and operation. Quadcopters achieve flight through the interaction of their rotors with the surrounding air. By varying the speed and direction of rotation of each rotor, a



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quadcopter can generate lift, thrust, and control moments to maneuver in three-dimensional space.

- 3. Workshop Lunch:** A well-deserved lunch break provided an opportunity for participants to discuss their experiences, and recharge for the afternoon session.
- 4. Post-Lunch Session:** In the post-lunch session, attendees were treated to a video presentation showcasing drone technology techniques and their real-world applications. This visual representation enriched their understanding of the subject matter.



- 5. Hands-On Practice:** Following the theory session, the participants had the unique opportunity to engage in hands-on practice. They learned the art of assembling and operating drones.



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**Key Takeaways:** The workshop left a lasting impact on the 50 participants, providing them with valuable knowledge and practical skills. They gained insights into drone technologies and applications.

Delegates conducted quiz and presented prizes to winners.



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**Felicitations:** At the conclusion of the workshop, the delegates from DecaDrives, Mr. Mohaseen Jassim, Mr. V. Yuvaraj were felicitated for their invaluable contribution. The ceremony was graced by the presence of Dr. T. Vijaya Kumar, Dr. D.V.A Ramasastry, Dr. S. N. Padhi, Dr. S. S. Rao, Dr. Priyaranjan Sharma, Dr. K. Sai Sarath and Mr. S. Ramesh Kumar who recognized the importance of the workshop in enhancing students' knowledge.



**Vote of Thanks:** Dr. Priyaranjan Sharma extended a warm vote of thanks to all participants,



the organizing team, and the guests for making the workshop a resounding success.

**Student Impressions:** Several students had the opportunity to share their impressions of the workshop, highlighting the practical skills they gained and the inspiration they drew from the event.

**Feedback:** Both the participants and the guests from DecaDrives provided valuable feedback, expressing their appreciation for the workshop's content and organization.

The drone technology workshop organized by the SAE Student Chapter at KLEF was a significant step towards empowering students with knowledge and hands-on experience in the field of drones. It provided a platform for learning, interaction, and inspiration, leaving a positive impact on all those who attended. Such initiatives are crucial in preparing the next generation of engineers for the challenges of modern engineering.

**Dr. T. Vijaya Kumar**  
**Head of the Department**