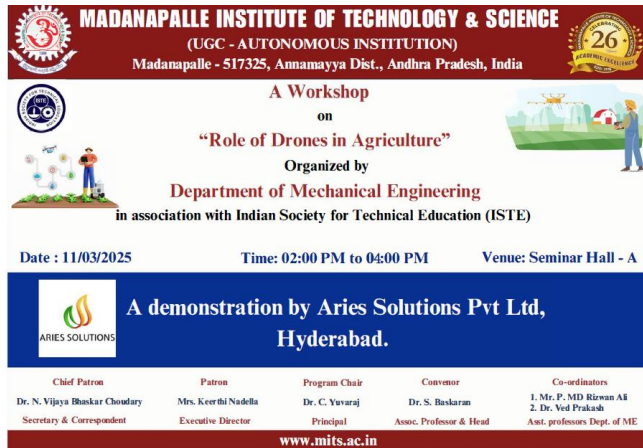


## A Report on Workshop “Role of Drones in Agriculture” Organized by Department of Mechanical Engineering on 11.03.2025



**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
(UGC - AUTONOMOUS INSTITUTION)  
Madanapalle - 517325, Annamayya Dist., Andhra Pradesh, India

**A Workshop**  
on  
“Role of Drones in Agriculture”  
Organized by  
**Department of Mechanical Engineering**  
in association with Indian Society for Technical Education (ISTE)

Date : 11/03/2025      Time: 02:00 PM to 04:00 PM      Venue: Seminar Hall - A

**A demonstration by Aries Solutions Pvt Ltd, Hyderabad.**

<b>Chief Patron</b> Dr. N. Vijaya Bhaskar Choudary Secretary & Correspondent	<b>Patron</b> Mrs. Keerthi Nadella Executive Director	<b>Program Chair</b> Dr. C. Yavuraj Principal	<b>Convener</b> Dr. S. Baskaran Assoc. Professor & Head	<b>Co-ordinators</b> 1. Mr. P. MD Rizwan Ali 2. Dr. Ved Prakash Asst. professors Dept. of ME
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**Report Submitted by: Dr. Ved Prakash, Assistant Professor, Department of Mechanical Engineering; Mr. P. MD Rizwan Ali, Assistant Professor, Department of Mechanical Engineering.**

**Resource Person Details: D. Chandrashekhar, Engineer & Drone Pilot, Aries Solutions Private Limited, Hyderabad; Mr. Subedar Ravi, Drone Pilot, Aries Solutions Private Limited, Hyderabad.**

**Venue: Seminar Hall A, Demonstration – MITS Open Ground Attendance: 98**

**Mode of Conduct: Offline**

**Report Received on 08.04.2025.**

The Department of Mechanical Engineering, in association with the ISTE Student Chapter, successfully organized a one-day demonstration workshop on "Role of Drones in Agriculture" on 11th March 2025 at Madanapalle Institute of Technology & Science. The workshop aimed to provide participants with practical insights into recent drone technologies, its utilization in the field of agricultural activities with demonstration.

### **Inauguration Session (11th March 2025)**

The workshop commenced with an inaugural ceremony held at Seminar Hall-A, South Block, at 2:00 PM. The event was graced by distinguished guests, the Head of the Department (Mechanical Engineering), resource persons, faculty members, and enthusiastic students.

The ceremony began with a welcoming address by Mr. P. MD Rizwan Ali (Coordinator), who extended a warm greeting to all the participants and dignitaries. Following this, Dr. Ved Prakash (ISTE Coordinator, ME), Dr. I. Arun (Professor, ME) and Dr. S. Baskaran (HOD, ME) formally welcomed the attendees and set the tone for the workshop.

During his address, Dr. Ved Prakash highlighted the various applications of drone technology across different fields. He emphasized the growing significance of drones in modern warfare and their critical role in defense operations. He also shared his insights on the potential of developing drone technology for agricultural purposes, acknowledging that a large portion of India's GDP relies on agricultural products. Dr. Ved Prakash stressed the need to focus on indigenous technological advancements to develop cost-effective agricultural drones that could benefit farmers, thereby enhancing agricultural productivity and efficiency.

Dr. I Arun, during their address, highlighted the potential use of drones focusing on agricultural activities. He emphasis on development of new technologies in the area of drones to help farmers to get higher yield. He congratulates the department, ISTE student chapter MITS and coordinators to conduct program in such trending areas.

Dr. S. Baskaran (HOD, ME), in his address, provided a brief overview of the applications of drones in agricultural activities. He highlighted how drones can be effectively used for pesticide spraying, disease identification in plants, and crop field inspection. He encouraged the participants to explore and innovate drone technologies that could significantly improve agricultural practices. Additionally, Dr. S. Baskaran motivated the students to consider taking up their B.Tech final year projects in such trending and impactful areas to contribute to technological growth and societal development. Later, he congratulated the ISTE student chapter and coordinators for organizing such an insightful event and given his consent to help in formation of School of Drones in the department.

### **Session 1: Video presentation of drone technologies (2:00 PM)**

The workshop on "Role of drone in agriculture" began with Session 1 by Mr. D Chandrashekhar, who provided the video presentation on recent trends and diverse activities performed by drones in the present scenario. The presentation included the present time utilization of drones in various sectors like in modern war, transportation, and surveillance. It also included the vision of Prime Minister of India to develop and adopt advanced drone technologies in the different field specially focused on agricultural activities. The presentation then highlighted the various applications of drones in advanced agricultural activities to increase the crop yield with less effort.

### **Session 2: Drone demonstration (3.00 PM)**

A drone demonstration and flight activities were conducted in the open field at MITS in the presence of students, participants, faculty members, program coordinators, and the Head of the Department (Mechanical Engineering). The drones were flown and skillfully controlled by Mr. D. Chandrashekhar and Mr. Subedar Ravi, who provided hands-on training to the participants. They guided the participants on how to effectively operate agricultural drones for various farming activities.



### **Valedictory Ceremony (4:00 PM):**

The valedictory session of the workshop was concluded by Mr. P. MD Rizwan Ali, who addressed the participants and expressed gratitude to all contributors. A special note of appreciation was given to Dr. C. Yuvraj (Principal, MITS) and Dr. S. Baskaran (HOD, ME) for their constant support in organizing this event. He also thanked Dr. Ved Prakash (ISTE Coordinator, ME) for their efforts in coordinating and managing the workshop successfully. He also emphasized the role of the ISTE Student Chapter in organizing the workshop and its significant contribution to the students' learning and professional growth. The event concluded with a heartfelt vote of thanks, acknowledging the efforts of everyone who contributed to the successful organization of the workshop.