



**SOMAIYA  
VIDYAVIHAR**

**K J Somaiya Institute of Engineering and Information Technology**  
An Autonomous Institute Permanently Affiliated to the University of Mumbai  
Accredited by NAAC with 'A' Grade (3.21 CGPA), Approved by AICTE, New Delhi

**Report of Workshop on**  
**Agricultural Robots, drones & AI Technology and Trends**



**SOMAIYA  
VIDYAVIHAR**

K J Somaiya Institute of Engineering & Information Technology

**Workshop on**

**"Agricultural Robots, Drones & AI Technology and Trends"**

Organized By:

**National Innovation and Startup Policy (NISP)**

In association with

**Institution's Innovation Council (IIC)**



**Resource Personage:**



**Mr. Soraj Behera**

Master Trainer on IOT  
Robotics



**Mr. Abhinash Panda**

Master Trainer in drone and  
aircraft design

- Registration Link: <https://forms.gle/m8yRttr0vvpXHZWPA>
- No Fees
- E-Certificate to Active Participants
- Session Link: <https://somaiya-edu.zoom.us/j/97673187207?pwd=bWQ1bjBGTUFDZDRHZeZlE5ZSUFTVExdz09>

January 18, 2022 - Monday  
04:00 PM IST onwards  
Online Mode - Zoom

For Queries, Contact Student Coordinator: **Dharita Desai** - 9769107491

[kjsieit.somaiya.edu/en](http://kjsieit.somaiya.edu/en)

KJSIEIT: kjsieit\_22 kjsieitofficial kjsieitofficial **IIC:** iic\_kjsieit iic\_kjsieit

The Dr. Hariram Chavan of K. J. Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Workshop on "Agricultural Robots, drones & AI Technology and Trends" on January 18, 2022 at 16:00.

**Objective(s):**

1. To understand the current state and key technology trends in the field of agricultural robotics.
2. To discuss a case study of autonomous tractors and robotic fresh fruit picking.

**Beneficiaries:** Students & Faculties

**No. of Participants:** 120

**Venue/Mode:**

**Resource Personage:**

Soraj behera - Master Trainer on IOT Robotics, 7 Years Industry Experience, 1 Year in Skyryder Institution.

Abhinash Panda - Master Trainer in drone and aircraft design, 5 Years Industry Experience, 1 year in Skyryder Institution.

**Key Points:**

The speaker of the day Mr. Soraj Behera Spoke about the importance of Machine learning and Artificial Intelligence and also shared his thought about Machine learning and data science from the perceptive of an

industry expert. He also spoke about the different types of machine learning and gave various real-life examples too. He further spoke about the applications of Data Science and Machine learning in the industries like agriculture.

Second speaker of the session Mr. Abhinash Panda talked on application of Drones in agriculture industries and its futures.

Mr. abshinash shared information of various type of drones which are available in market and its working.

**Outcome(s):**

Able to understand the current state and key technology trends in the field of agricultural robotics.

**MAPPING OF EVENT OUTCOME WITH POs/PSOs:**

#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
LO1						1	1				2	2		

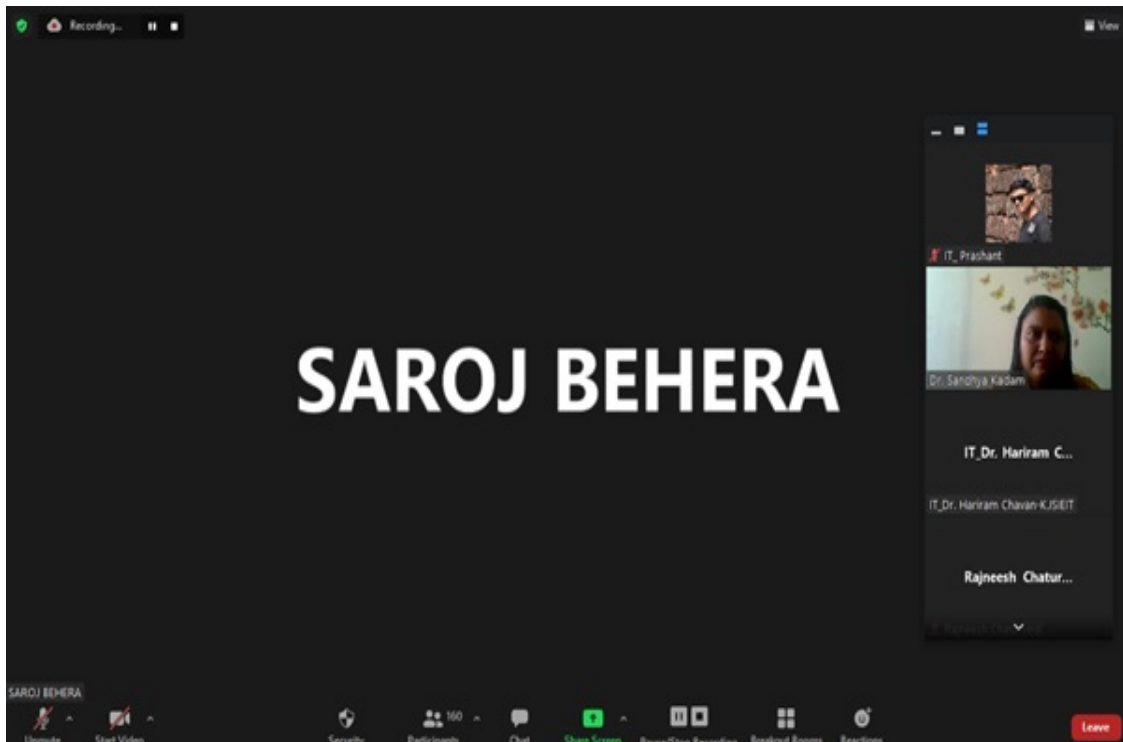
**Glimpse of the Event:**

The screenshot shows a Zoom meeting interface. At the top, there is a header with three colored bars: orange for 'EMPOWER', blue for 'GROWTH', and green for 'PROSPERITY'. Below the header, the word 'Content:' is written in a large font. Underneath, a bulleted list of topics is displayed:
 

- Introduction
- Objectives
- Need of Robots in Agriculture
- Types of Robots in Agri.
- Applications in Agriculture
- Future Scope
- Advantages & Disadvantages
- Conclusion

 At the bottom of the slide, there is a blue gradient bar. Below the slide, the Zoom meeting toolbar is visible, showing icons for Mute, Start Video, Security, Participants (154), Chat, Share Screen, Pause/Stop Recording, Breakout Rooms, Reactions, and a red Leave button.

*Content*



*Speaker*

**Why Agri. Robots?**

- Labor cost is rising
- Labor is core cost
- Unreliable
- Slow work

www.skyrider.com

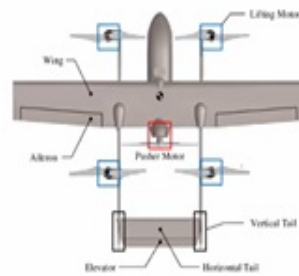
*Session Details*



# FIXED WING HYBRID VTOL

- **WHAT IS VTOL**

VTOL stands for **vertical take-off and landing**. It describes aircrafts and drones (unmanned aerial vehicles / UAVs) able to take off, hover and land vertically, like a helicopter. The most common type of VTOL UAVs are multicopter drones.



*drone*

**Event Coordinator(s):**

Dr.Hariram Chavan,