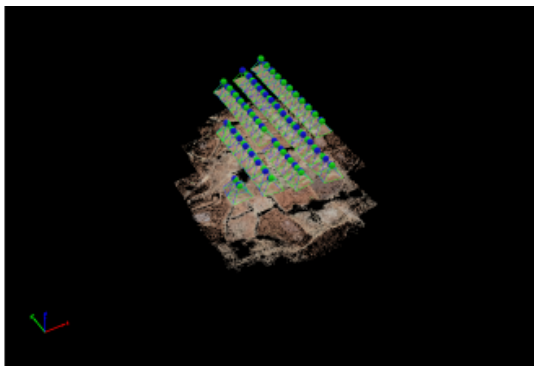


Workshop on Emerging Technologies Photogrammetry and LiDAR



Participants engaging in practical sessions



3D modelling



Participants pose for a photo

OVERVIEW	
Flying Labs	India Flying Labs
Location	MKSSS Institute of Sustainability and Development Studies (ISDS) Campus, Pune, India
Date	October 9th - 10th 2024
Length (number of days)	2 days
Sector program (optional)	DevRobotics , YouthRobotics .
Format	In-Person

Co-organizer if applicable	-
SDGs	GOAL 4: Quality Education GOAL 9: Industry, Innovation and Infrastructure GOAL 11: Sustainable Cities and Communities

SCOPE & OUTCOMES	
Type of training	Sector-specific training of professionals
Goal of the training	<ol style="list-style-type: none"> 1. Develop drone data acquisition skills 2. Develop drone data analysis skills 3. Train and empower youth and professionals in emerging technologies
Expected outcome for participants	<p>Participants expected to gain practical knowledge in the use of photogrammetry, drones, and LiDAR technologies. The hands-on sessions aimed to equip them with the skills to process aerial data and apply these technologies to industries like surveying, construction, and heritage conservation.</p>
Confirmed outcome after training	<p>Participants gained competency in using PIX4Dmapper and the Matterport Pro 3 LiDAR for data analysis and 3D modeling. They developed real-world skills that will enable them to integrate photogrammetry and LiDAR technology into their work or studies.</p>
Eventual next steps	<p>We have planned follow-up sessions, with possible certification and more focused hands-on projects to allow participants to further practice the skills gained in the workshop.</p>

PARTICIPANTS	
Profiles and number of participants	6 professionals (consultants, researchers, experts)
Name of participants' organizations	Starteck Precision, ITM Institute, Ex Indian Airforce, and a PhD Scholar

Gender ratio	5 Male : 1 Female
Who paid for the training?	Paid by Participants
Participant fee rate (if applicable)	2000 Rupees + 18% Goods and Service Tax (GST)
Scholarships offered?	None.

CONTENT	
Training components	<ul style="list-style-type: none"> ● Lectures on photogrammetry, drone data processing, and LiDAR technology ● Hands-on 3D modeling using the Reality Scan App ● Processing pre-recorded drone data using PIX4Dmapper ● LiDAR scanning using the Matterport Pro 3
Training resources used	<ul style="list-style-type: none"> ● Matterport Pro 3 LiDAR ● PIX4Dmapper ● Reality Scan App
Approaches and methods used	<p>The training was hands-on, allowing participants to apply theoretical knowledge by processing drone data and creating 3D models. The training was adapted to ensure participants had the chance to work directly with advanced geospatial tools and software, giving them a practical understanding of the technologies.</p>



Workshop on Emerging Technologies Photogrammetry

Documentation using Lidar & Drones

Workshop: October 9th & 10th, 9:30 AM - 4:00 PM (Wednesday & Thursday)

Showcase: October 11th, 10:00 AM - 12:00 PM (Friday)



Program Co-ordinator
Prof.Saurabh Sable , 8668980320
Prof. Nidhi Dixit , 9766193304

Supported by:
Dr. Anurag Kashyap
Prof. Asmita Joshi

Application open till 30th September 2024 - 5 pm.
No. of seats : 25

Eligibility: Students & Professionals

Link to Register: <https://forms.gle/y4iK5C4ZguJVLicaA>

Venue: ISDS, Ground floor, kusum patki building, MKSSS
Campus



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