



# 3 Day Skill Development Workshop on Drone for Civil Mapping and Modelling Applications

organized by

Civil Engineering Department  
PDEU Gandhinagar & SVNIT Surat

2nd August to 4th August 2023

## EVENT REPORT



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# About Civil Engineering @ PDEU Gandhinagar

Civil Engineering is considered to be the most versatile branch among all the engineering branches. The Department of Civil Engineering since its formation is committed to research and development in civil engineering. The vision of the department is to give exposure to budding technocrats to various challenges in the profession.

The department offers courses at the undergraduate level, graduate level, and Ph.D. doctorate level. The main areas of research include Project Management, Construction Management, Geotechnical Engineering, Structural Engineering, Hydrology, GIS and GPS systems, Environmental Engineering, Concrete Technology, and Transportation Engineering. The department also handles consultancy works and projects in the above-mentioned areas.

## Mission and Vision

To prepare competent Civil Engineers through technovations, research and excellence in education for serving evolving human needs and infusing sustainable developments.

### Mission

1. To ignite and energize young minds and arm them with the Roots of Knowledge and Wings of Creativity.
2. To excel as a Problem Solver by promoting and supporting cutting-edge research, innovations, and excellence in education.
3. To Unfold new realms of Civil Engineering addressing the needs of the Industry and Society for sustainable development.

# Drone for Civil Mapping and Modelling Applications

Civil Engineering at Pandit Deendayal Energy University in collaboration with Sardar Vallabhbhai National Institute of Technology, Surat, organized a 3 Day Skill Development Workshop on Drone for Civil Mapping and Modelling Applications.

This event was conducted under the PDEU-SVNIT Academic and Research Partnership

Event Date: 2nd to 4th August 2023

Faculty Coordinators:

**From SVNIT :**Dr. S. M. Yadav, Professor (SVNIT, Surat)

**From PDEU:** Dr Dhruvesh Patel, Dr. Shobhit Chaturvedi, Dr. Naimish Bhatt, Dr Ankit Deshmukh, Mr Jitendra Patel

Faculty Mentor & Advisor: Dr Dhaval Pujara



# EVENT COVERAGE

The three day was widely publicized using Civil PDEU Official LinkedIn account to attract motivated participants for this one of a kind hands on event on Drone (UAV) for Civil Engineering Applications.

**PDEU** PANDIT DEENDAYAL ENERGY UNIVERSITY  
Formerly Pandit Deendayal Petroleum University (POPU)

**G20** INDIA 2023

**SOT** SCHOOL OF TECHNOLOGY

Under the Skill Development Workshop Series, Dept. of Civil Engineering in association with IQAC PDEU is Organizing a workshop on **DRONE (UAV) FOR CIVIL ENGINEERING MAPPING AND MODELING APPLICATIONS**

**Date : 2<sup>nd</sup> August to 4<sup>th</sup> August, 2023**

This skill development workshop offers a unique opportunity to learn about modern mapping techniques using Unmanned Aerial Vehicles (UAVs), commonly known as drones. The event includes expert lectures and hands-on training sessions to fly drones and analyze the collected data for diverse engineering purposes.

**Workshop fee: 500/-**  
**Seats Availability: 50 only**  
(First come, first served basis)

**Co-ordinators:**

1. Dr. Dhruvsh Patel
2. Dr. Shobhit Chaturvedi
3. Dr. Naimish Bhatt
4. Dr. Ankit Deshmukh

**Coordinator ( SVNIT )**  
Dr. S. M. Yadav.

**Registration link:** <https://forms.gle/fjAKJ7H7nAvUkpFv6>

Event Poster

Civil Engineering at Pandit Deendayal Energy University • 1st

4d • Edited •

Civil Engineering at Pandit Deendayal Energy University in collaboration with S V National Institute of Technology, Surat , organized a 3 Day Skill Development Workshop on Drone for Civil Mapping and Modelling Applications.

Event Dates : 2nd - 4th August 2023

Mastering drone piloting, data analysis, and regulations opens doors to diverse careers, including agriculture, disaster management, and water resources management.

The events was well attended by students, teachers and working professionals from Gujarat and beyond. Special thanks to Dr. Dhruvsh Patel, Dr. Naimish Bhatt, Dr Shobhit Chaturvedi, Dr Ankit Deshmukh, Mr JITENDRA PATEL for organizing this event. Special regards for Dr Dhaval Pujara for being a constant source of motivation and inspiration throughout this event.

Special Mention to our Expert Speakers Nikhil Methiya, Dr S.M. Yadav, Akshay Jain, PhD and Mr Harsh Shah for sharing the latest trends in drone technology with the event participants.

The event's successful outcome has inspired the organization of future skill development initiatives in drone and UAV technology.

#civilengineering #pdeucivil #pdeu #svnit #infrastructure #drone #dronetechnology #gismapping #careers #atmanirbharbharat #g20india #AI #ML #datascience #dataanalytics #skillsdevelopment

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4. Dr. Ankit Deshmukh

**Coordinator ( SVNIT )**  
Dr. S. M. Yadav.

**Registration link:** <https://forms.gle/fjAKJ7H7nAvUkpFv6>

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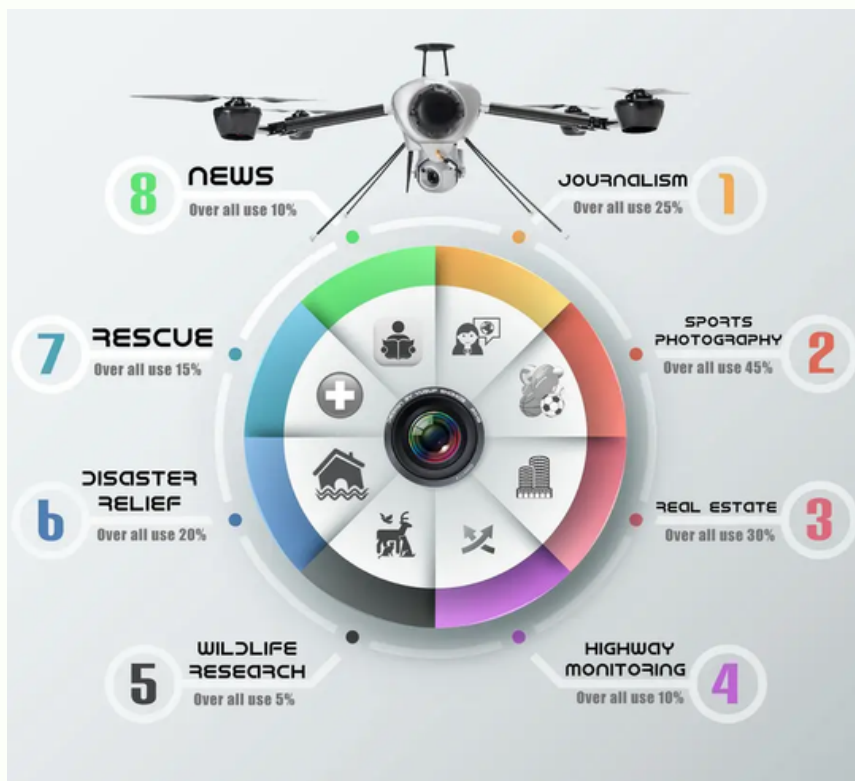
# Drone Technology

Drones, or Unmanned Aerial Vehicles (UAVs), have revolutionized societal applications across various sectors. In disaster management, drones provide real-time aerial surveillance and aid in search and rescue operations. They facilitate precision agriculture by monitoring crop health, optimizing irrigation, and assessing soil quality. In healthcare, drones deliver medical supplies to remote areas, enhancing accessibility to healthcare facilities. Environmental monitoring benefits from drones' ability to monitor wildlife, track deforestation, and assess pollution levels.

Additionally, drones contribute to infrastructure inspection, aerial mapping, and surveillance for law enforcement purposes. Their versatility, cost-effectiveness, and accessibility make drones valuable tools for addressing numerous societal challenges and improving overall quality of life.



# UAV Applications



# Three Days Event Schedule



## Pandit Deendayal Energy University (PDEU)

School of Technology

Civil Engineering Department

Workshop On

"Drone (UAV) for Civil Engineering Mapping and Modeling Applications"

During 2<sup>nd</sup> August to 4<sup>th</sup> August 2023

Tentative Schedule

Time	Wednesday		Thursday	Friday
	02/08/2023		03/08/2023	04/08/2023
9:30 to 10:00	Registration	10:00 to 11:30	Drone utility of advance Surveying and Mapping (Mr. Mayank, Accionland PVt LTD)	Drone Application for Water Resources Management and planning (Dr. Dhruvesh Patel, PDEU and Flood Lab)
10:00 to 11:00	Inauguration Function Inaugural Talk by Mr. Nikhil Methiya, Founder and CEO, Drone Lab Private limited Hi-Tea	11:30 to 1:00	Drone Utility in Construction and Transportation Engineering (Mr. Akshay Jain, Leagom Pvt Ltd)	Drone Application for Environmental Application (Dr. Harsh Shah, Agrocast Analytics)
11:00 to 12:30	Key note Address on: " Application of Drone Survey for Hydraulic modeling of dredged Channel for flood mitigation" Dr. S M Yadav, Professor of Hydraulic, SVNIT, Surat.			
1:00 to 1:30	<b>Drone Videos</b>		<b>Drone Videos</b>	<b>Drone Videos</b>
1.30 to 2.00 pm	<b>Lunch Break</b>			
2.00 to 3.00	Drone Hands-on		Drone Hands-on	Drone Hands-on
3.00 onwards	Drone Data Analysis		Drone Data Analysis	Valedictory Function and Certificate Distribution

# Participants Detail

A total of 30 participants from PDEU and other educational, research, and private organizations participated this event.

The participant details are listed below.

PARTICIPANT NAME	INSTITUTE
ADITYA DHARAIYA	SAVITRIBAI PHULE PUNE UNIVERSITY
HETKUMAR PARMAR	SILVER OAK UNIVERSITY
MAHI PATEL	SILVER OAK UNIVERSITY
SHRUSHTI GAJJAR	GUJARAT UNIVERSITY
ABHISHEK IYER	BITS PILANI
YASH VAGHELA	LDRP-ITR
MANN PATEL	LDRP-ITR
IPSITA MOHANTY	LDRP-ITR
PRIYA KHATSURIA	LDRP-ITR
VIPIN KUMAR YADAV	DR. S. & S. S. GHANDHY GEC SURAT
MRIDUL SETH	GTU
DR. RAVI KANT	PDEU
NIRAV THAKKAR	PDEU
GHANSHYAM V. PATEL	PDEU
ANAKIYA KALUBHAI	PDEU
AJAYKUMAR DOGRA	CIVIL POLYTECHNIC GANDHINAGAR
GAUTAM DAHIYA	GEO DESIGNS & RESEARCH PVT LTD



# Participants Detail

PARTICIPANT NAME	INSTITUTE
NILMANI TIWARI	GEO DESIGNS & RESEARCH PVT LTD
SHREYA SHAH	PDEU
JAY BRAHMBHATT	PDEU
NIRAV THAKKAR	PDEU
GHANSHYAM V. PATEL	PDEU
ANAKIYA KALUBHAI	PDEU
AJAYKUMAR DOGRA	CIVIL POLYTECHNIC GANDHINAGAR
GAUTAM DAHIYA	GEO DESIGNS & RESEARCH PVT LTD
NILMANI TIWARI	GEO DESIGNS & RESEARCH PVT LTD
SHREYA SHAH	PDEU
JAY BRAHMBHATT	PDEU
MAKWANA TARUN	SWARRNIM University
ABHIRAJ SINH JADEJA	PDEU
RAJVI SHAH	PDEU
HITARTH PATEL	PDEU
SATARUPA ROY	LDRP-ITR
SWEETU B GAJJAR	LDRP-ITR
TANAY GUPTA	PDEU
DHYEY SHEKHALIYA	PDEU
DIVYA PANCHAL	LDRP-ITR
DHAVAL DALWADI	PDEU

# Day 1

Expert Lectures on Drone Applications and Flight Demonstrations were conducted on Day 1









# Day 2

Expert Lectures and Drone Flight Sessions and Data Analysis training was conducted on Day 2







# Day 3

Certificate Distribution and Experience Sharing happened during the Closing Ceremony



## Participation Certificates were distributed by Director SOT and Civil Department Faculty Members



The event was well attended by students, teachers and working professionals from Gujarat and beyond.

Mastering drone piloting, data analysis, and regulations can opens doors to diverse careers, including agriculture, disaster management, and water resources management.

Special Mention to our Expert Speakers-

- **Mr Nikhil Methiya,**
- **Dr S.M. Yadav,**
- **Dr Akshay Jain**
- **Mr Harsh Shah**

for sharing the latest trends in drone technology with the event participants.

The event's success has motivated Civil PDEU to organize more initiatives in the realm of drone and UAV technology.



# Coordinators



**Dr. Dhruvesh Patel**  
Associate Professor & Head  
Civil Engineering Department,  
PDEU Gandhinagar



**Dr. S.M. Yadav**  
Professor  
Civil Engineering Department,  
SVNIT Surat



**Dr. Dhaval Pujara**  
Director  
School of Technology,  
PDEU Gandhinagar



**Dr. Shobhit Chaturvedi**  
Assistant Professor  
Civil Engineering Department,  
PDEU Gandhinagar



**Dr. Naimish Bhatt**  
Assistant Professor  
Civil Engineering Department,  
PDEU Gandhinagar



**Dr. Ankit Deshmukh**  
Assistant Professor  
Civil Engineering Department,  
PDEU Gandhinagar



**Mr. Jitendra Patel**  
Lab Assistant  
Civil Engineering Department,  
PDEU Gandhinagar



**Mr. Vishal**  
Lab Assistant  
Civil Engineering Department,  
PDEU Gandhinagar



# Thank You

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SOCIALS**

