

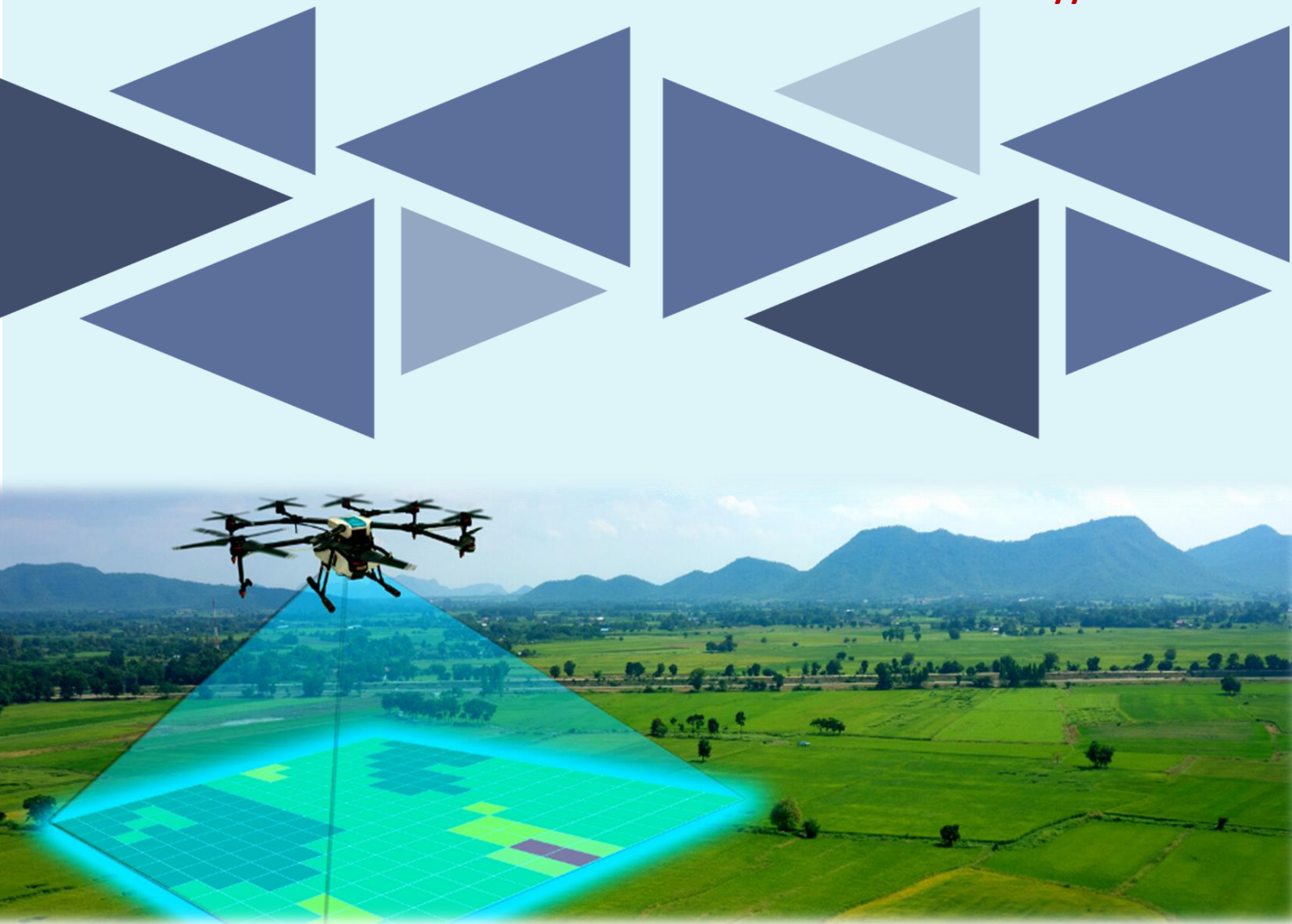


Event Report on

“Modern Surveying using Drone, GPS and Total Station”

One day Workshop on **“Modern Surveying using Drone, GPS and Total Station”**
Organized by Department of Civil Engineering, SoT, PDEU, Gandhinagar, Gujarat
25th March. 2023

Coordinators: Dr. Vsudeo Chaudhari and Dr. Ayyanna Habal



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1. Checklist

**School of Technology, Pandit Deendayal Energy University, Gandhinagar
Department of Electronics and Communication Engineering**

Event Report

1. **Name of Event:** workshop on “Modern Surveying Using Drone, GPS, and Total Station”
2. **Name of Speaker(s)/Resource Persons:** Dr. Ankit Deshmukh, Dr. Vasudeo Chaudhari,
Dr. Akshay Jain (Industry Expert)
3. **Date of the Event:** 25th March 2023
4. **Duration of the Workshop:** One day (9:30 am to 5:30 pm)
5. **Department:** Civil Engineering
6. **Coordinator of the Workshop:** Dr. Vasudeo Chaudhari, and Dr. Ayyanna Habal
7. **Mode of Delivery (e.g. Online/Offline):** Offline
8. **Hand-On:** Yes/No
9. **Target Audience (e.g. Internal/External):** Both External & Internal
10. **Number of Participants:** Internal (39) External (11)
11. **Theme of the Event:** Skill Development Workshop series
12. **Details of Chief Guest/Speakers:** nil
13. **Summary of the Event:** The lectures and field demonstrations focused on using advanced surveying instruments such as Drones, GPS, and Total Station.
14. **Feedback:** Attached
15. **Photographs of the Event:** Attached
16. **Signature of the Coordinator (s):** Signed on the Cover Sheet

2. Introduction of the Event

Civil Engineering is all about design, construction, and maintenance of the various public works such as roads, bridges, tunnels, railways, airports, canals, dams, sewerage systems, water supply system etc. To construct and maintain these infrastructures, one need to start with various surveys and using different surveying instruments. Therefore, the ‘advanced surveying instruments’ majorly used in almost all civil engineering works is explored in this workshop. The One day Skill Development Workshop on “**Modern Surveying Using Drone, GPS, and Total Station**”, would certainly help all those who are waiting for the jobs and practice in the field. The expert lecture followed by advanced surveying instrument demonstration and lab visits would be part of this activity. The lecture demonstration focuses on using advanced surveying instruments such as Drones, GPS, and Total Station. Besides imparting knowledge on contemporary advancements in surveying

3. Objectives of the Event

- To spread awareness about the Surveying in civil Engineering works.
- To demonstrate advanced surveying instruments such as Drones, GPS, and Total Station at lab and field.

4. Beneficiaries of the Event

The main beneficiaries of the workshop were undergraduate and post graduate students, and research scholars from different institutes.

5. Brief Description of the event

On 25th March 2023, one day Skill Development Workshop on “**Modern Surveying Using Drone, GPS, and Total Station**” was organized by **Department of Civil Engineering, [School of Technology \(SoT\)](#), [Pandit Deendayal Energy University \(PDEU\)](#)**, Gandhinagar, Gujarat. The main objective behind the workshop was to help students to understand and use advanced surveying instruments such as Drones, GPS, and Total Station. The first session of workshop commenced at sharp 10:00am with an address by Dr. Ankit Deshmukh

to the participants about the significance of surveying, advanced surveying instruments, and use of GPS and Drone surveying in the Civil engineering projects. An informative lecture followed by laboratory demonstration of the GPS and Drone instruments was done then actual survey demonstration was performed at the ground.

After the lunch break, the second session was started with invited industry expert **Dr. Akshay Jain** (Co-founder of LGEOM PVT. LTD). Then the last session on Total station was delivered by **Dr. Vsudeo Chaudhari**. The highly interactive sessions were concluded at 5:00 pm after the distribution of the certificates to the participants by the coordinators.

6. List of participants

The workshop was attended by students, and research scholars from of PDEU and other organizations such as **Indus University, LDRP-ITR, ISRO, Govt. Polytechnic Godhra** etc... The Participants from different countries (G20) such as **India, Ghana, Tanzania, and South Sudan** also participated in this workshop.



Sl. No.	Full Name	Sl. No.	Full Name
1	Mr. Othniel Nartey	26	Mr. Nilanjan De
2	Mr. Nihaal Kandpal	27	Dipaxi Dholariya
3	Mr.Sundaram Tiwari	28	Mr Rishi Patel
4	CHUDASAMA SWET P.	29	Mr. Dev Mehta
5	Mr. Mirag Rasikbhai Vanvi	30	Parthiv bhuva
6	Ms.Vanessa Mkenda	31	Rutik Vaja
7	Mr.Rohan Solanki	32	Mr. Dhruvil Hirpara
8	Ms.Priti Jana	33	Rudraksh Kamal Gurnani

9	Mr. Harsh Ajudiya	34	Rahul Sharma
10	Mr. Singh Sudhanshu Virendra Pratap	35	VINOD SANGOD
11	Chelsea Demello	36	Mr. Raj Modi
12	Dave Aksh Kartikbhai	37	Mr Aman pathan
13	Mr. Tejaswi Srivastava	38	Patel Divy Girishbhai
14	Mr. Hiten rajeshbhai patel	39	Mr. Kartikey Tilavat
15	Ms. Muskan Taneja	40	MR. Harsh Sunilkumar Chaudhari
16	Mr. GAURAV SINGH RAWAT	41	Mr.Sipai Soyeb
17	Ms. Payal Bhagwan Gupte	42	Ms. Jinal Nayee
18	Mr. Nilanjan De	43	Mr DevShah
19	Mr. Harsh Ajudiya	44	Mr.Divy Kailash Kumar Shah
20	Patel kaiyurKumar hasmukhbhai	45	Prakher Mishra
21	Mr. Anil Chaudhary	46	Pranami chintankumar bhikhabhai
22	Mr. Jaimin makwana	47	MR. HARSHIT DUBEY
23	Dwoki longa Emmanuel	48	SACHIN RATHOD
24	Yash Kumar	49	Mr. Dushyant Dabhi
25	Mr. Vijay suthar	50	Mr. Rajeev Kumar

7. Schedule of the event

The activities performed in the workshop are shown in the following schedule

Schedule of Workshop on “Modern Surveying Using Drone, GPS, and Total Station 25 March 2023		
Sr. No.	Activity	Time
1	Registration of participants	09:30 am to 10:00 am
2	Inaugural of Workshop	10:00 am to 10:15 am
3	Session -1 (Surveying using GPS)	10:15 am to 11:15 am
4	High Tea	11:15 am to 11:30 am
5	Session -2 (Surveying using Drone)	11:30 am to 12:30 pm
6	Lunch Break	12:30 pm to 01:00 pm
7	Civil Lab Visits and interaction with Faculties	01:00 pm to 01:30 pm
8	Session -3 (Surveying using Total Station)	01:30 pm to 2:00 pm
9	Session -4 (Industry applications by Industry expert)	02:00 pm to 03:00 pm
10	Session -5 (Filed Demonstration)	03:00 pm to 04:30 pm
11	Certificate Distribution and Vaedictory function	04:30 pm to 05:00 pm

8. Resource persons

Dr. Akshay Jain (Industry expert from LGEOM PVT. LTD). Dr. Ankit Deshmukh, and Dr. Vsudeo Chaudhari Assistant Professor, Department of Civil Engineering, School of Technology, Pandit Deendayal Energy University (PDEU), Gandhinagar, Gujarat

9. Attendance of the Event

Attendance Sheets

Sl. No.	Full Name	Current year	Name of the Organization/College	Cell Number	E-mail id	Signature	Name of the Country
1	Mr. Othnel Nartey	UG 2nd Sem	Pandit Deendayal Energy University	9586934921	othnator@gmail.com	<i>[Signature]</i>	Ghana
2	Mr. Nihal Kaniyal	8 tech 2nd sem	SPT, Pandit Deendayal Energy University	937261875	kandpalnihal@gmail.com	<i>[Signature]</i>	India
3	Mr. Sundaram Tiwari	1 year/ 2nd Sem	SPT, Pandit Deendayal Petroleum University	6355877838	tiwarisundaramd107@gmail.com	<i>[Signature]</i>	India
4	CHUDASAMA SWET.P.	8 tech 2nd sem.	PDEU	886642602	chudasamaswet@gmail.com	<i>[Signature]</i>	India
5	Mr. Mirag Raikibhai Vanvi	2nd Sem	SPT, PDEU	9328519494	mirag_vb122@spt.pdpu.ac.in	<i>[Signature]</i>	Tanzania
6	Ms. Vanessa Mkenda	2nd Sem	Pandit Deendayal Energy University	9173394087	vanessa.mbr22@spt.pdpu.ac.in	<i>[Signature]</i>	India
7	Mr. Rohan Solanki	1st year/ 2nd sem	Pandit Deendayal Energy University	9712597595	rohan.sbr22@spt.pdpu.ac.in	<i>[Signature]</i>	India
8	Ms. Priya Jana	1st year/ 2nd Sem	Pandit Deendayal Energy University	9311343436	prityana4321@gmail.com	<i>[Signature]</i>	India
9	Mr. Harsh Ajadiya	1st sem	Pandit Deendayal Energy University	7862930822	ajadiyharsh112@gmail.com	<i>[Signature]</i>	India
10	Mr. Singh Sudhanshu Virendra Pratap	1st year 2nd Sem	Pandit Deendayal Energy University	9638046682	singhsudhanshu0203@gmail.com	<i>[Signature]</i>	Tanzania
11	Chelsea Demello	Second Sem	Pandit Deendayal Energy University	918867611	Chelsea.cb22@spt.pdpu.ac.in	<i>[Signature]</i>	Tanzania
12	Dave Aksh Kartikbhai	8 tech 1st year/2nd sem	Pandit Deendayal Energy University	9478042214	aksh.cb22@spt.pdpu.ac.in	<i>[Signature]</i>	Tanzania
13	Mr. Tejasvi Srivastava	1st year / 2nd sem	SPT, Pandit Deendayal Energy University	932889717	tejas.srivastava112@gmail.com	<i>[Signature]</i>	Tanzania
14	Mr. Hiten rajeshbhai Patel	1 year / 2nd sem	SPT, Pandit Deendayal Energy University	9879709731	hiten9731@gmail.com	<i>[Signature]</i>	India
15	Ms. Muskan Taneja	2nd Sem	Pandit Deendayal Energy University (SPT)	7433999149	Tanejamuskan1409@gmail.com	<i>[Signature]</i>	India
16	Mr. GAURAV SINGH RAWAT	2nd sem	Pandit Deendayal Energy University (PDEU)	9265442823	gaurav_rb22@spt.pdpu.ac.in	<i>[Signature]</i>	India
17	Ms. Payal Bhagwan Gupta	2nd Sem	Pandit Deendayal Energy University (SPT)	9309142381	payalgupte85@gmail.com	<i>[Signature]</i>	India
18	Mr. Nilanjan De	Diploma 2 nd Sem	Pandit Deendayal Energy University	9531512162	nilanjan.cb22@spt.pdpu.ac.in	<i>[Signature]</i>	India
19	Mr. Harsh Ajadiya	2023/2nd sem	Pandit Deendayal Energy University	7862930822	ajadiyharsh112@gmail.com	<i>[Signature]</i>	India
20	Patel Kalyankumar hazumkhabhai	8 tech 1st year	Pandit Deendayal Energy University	6352594286	patelkalyur522@gmail.com	<i>[Signature]</i>	India
21	Mr. Asli Chaudhary	2nd year	Pandit Deendayal Energy University, Gandhinagar	9157567691	anilc1312@gmail.com	<i>[Signature]</i>	India
22	Mr. Jaimin Makwana	1st year/ 2nd sem	Pandit Deendayal Energy University	8980607306	jaiminkumar.mbr22@spt.pdpu.ac.in	<i>[Signature]</i>	India
23	Dawki longa Emmanuel	2 second	Petroleum engineering	7041613643	dawkiemmanuel3@gmail.com	<i>[Signature]</i>	India
24	Yash Kumar	2nd Sem	Pandit Deendayal Energy University	7992385703	yashu41@gmail.com	<i>[Signature]</i>	India
25	Mr. Vijay suthar	8.tech 2nd sem	Pandit Deendayal Energy University	848882784	Dhanushar30@gmail.com	<i>[Signature]</i>	India
26	Mr. Nilanjan De	2 nd Sem	Pandit Deendayal Energy University	9531512162	denilanjn8@gmail.com	<i>[Signature]</i>	India
27	Dipak Ghodariya	1st year / 2 sem	Pandit Deendayal Energy University	9979146669	dipak.cb22@spt.pdpu.ac.in	<i>[Signature]</i>	India
28	Mr. Rishi Patel	8 tech 2nd sem	pandit deendayal energy university (PDEU)	7778989418	rspatel2703@gmail.com	<i>[Signature]</i>	India
29	Mr. Dev Mehta	2nd Sem	Pandit Deendayal Energy University	9176016111	devmehta2809@gmail.com	<i>[Signature]</i>	India
30	Parthiv bhavs	4th	Pandit deendayal energy university	9512386118	parthivbhavs@gmail.com	<i>[Signature]</i>	India
31	Rutik Vijja	1st year / 4th sem	Pandit Deendayal Energy University	9974866452	vajarutik9@gmail.com	<i>[Signature]</i>	India
32	Mr. Dhruvil Hirpara	2nd year/4th sem	Pandit Deendayal Energy University	9727712117	dhruvhirpara04@gmail.com	<i>[Signature]</i>	India
33	Rudraksh Kamal Gurnani	4th Sem	Pandit deendayal energy university	9016330729	gurnanirudraksh163@gmail.com	<i>[Signature]</i>	India
34	Rahul Sharma	4th Sem	PDEU University	9054482073	rahul.scv21@spt.pdpu.ac.in	<i>[Signature]</i>	India

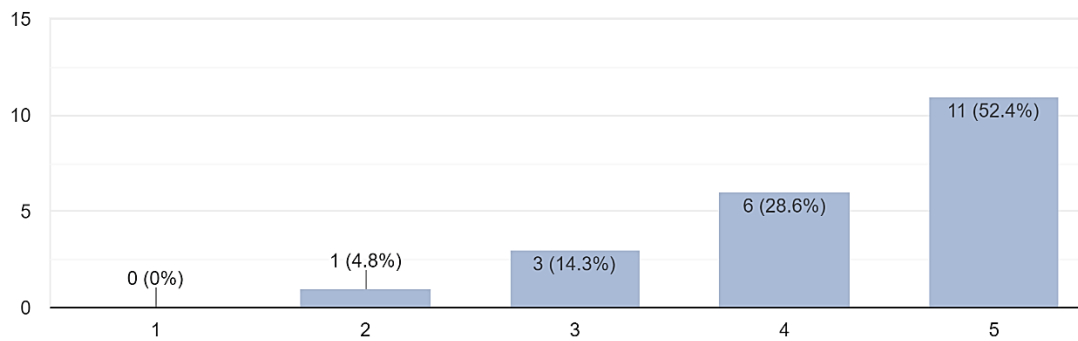
35	VINOD SANGOD		PDEU			<i>[Signature]</i>	India
36	Mr. Raj Meel	Ph.D. Scholar	India University	9327266957	vinodsangod6354@gmail.com	<i>[Signature]</i>	India
37	Mr aman pathan	Civil 4th sem	LDRP-ITR	7878760000	rgmod91@gmail.com	<i>[Signature]</i>	India
38	PATEL DIVY GIRISHBHAI	12th / 6th / 6th	LDRP-ITR	9825865782	amanpathan3@gmail.com	<i>[Signature]</i>	India
39	Mr. Kartikay Tilav	12th/6th sem	LDRP-ITR	9634448331	pateldivy4005@gmail.com	<i>[Signature]</i>	India
40	MR. HARSH SUNILKUMAR CHAUDHARI	BE CIVIL 6TH SEM	LDRP-ITR	8866754350	hsharshkartikay@gmail.com	<i>[Signature]</i>	India
41	Mr. Sijal Soyeb	BE 6 sem	LDRP-ITR	8980269770	harshchoudharydps@gmail.com	<i>[Signature]</i>	India
42	Ms. Jinal Nayee	4th/6th	LDRP-ITR	7043669123	soyeb7043@gmail.com	<i>[Signature]</i>	India
43	Mr. DevShah	4th/6th	LDRP-ITR	7843092555	jinalnayee2510@gmail.com	<i>[Signature]</i>	India
44	Mr. Divy Kalish Kumar Shah	10th/Diploma 4th sem	Government Polytechnic College Godhra	9408001823	shahdiv065@gmail.com	<i>[Signature]</i>	India
45	Prakhar Mishra	Diploma 4th sem	Government Polytechnic College Godhra	9408008523	divyash001@gmail.com	<i>[Signature]</i>	India
46	Pranavi Chintan Kumar bhikhabhai	B.E sem 4	ISRO	9687577899	mishraprakhar009@gmail.com	<i>[Signature]</i>	India
47	MR. HARSHIT DUBEY	6th sem	PANDIT DEENDAYAL ENERGY UNIVERSITY	9737140443	chintanpranavi123@gmail.com	<i>[Signature]</i>	India
48	SACHIN RATHOD	4TH YEAR (8 SEM)	LDRP GANDHINAGAR	8980988766	harshitdubey16102001@gmail.com	<i>[Signature]</i>	India
49	Mr. Dushyant Dabhi	M.tech 2nd sem	Pandit Deendayal Energy University	9558512790	sachinrathod0812@gmail.com	<i>[Signature]</i>	India
50	Rajeev Kumar	JRF	ISRO	9879806141	dushyant.dmv22@sot.pdpu.ac.in	<i>[Signature]</i>	India
51	Prayesh Suthavara	B.Tech 2nd sem	PDEU	8781121537	rajeev.rajic@gmail.com	<i>[Signature]</i>	India
52	Kanishk Kapuria	B.Tech	PDEU	8401464466	sahvra.vishal2004@pdpu.ac.in	<i>[Signature]</i>	India
53	Bhatt Kashish	B.Tech 5.2nd	PDEU	8906190495	KanishkKapuria9330@gmail.com	<i>[Signature]</i>	India
54	Charlos Kennan	B.Tech 2nd sem	PDEU	9141408983	Kashishb123@gmail.com	<i>[Signature]</i>	India
55	Haslam Ali	B.Tech 2nd	PDEU	9166191110	charlos.cb22@spt.pdpu.ac.in	<i>[Signature]</i>	India
56	Adekan Stanley	B.Tech 2nd sem	PDEU	9157940942	Haslam.cb22@spt.pdpu.ac.in	<i>[Signature]</i>	India
57	Rutik Trushil	B.Tech 4th Sem	PDEU	7046693492	Stanley.cb22@spt.pdpu.ac.in	<i>[Signature]</i>	India
58	Trivedi Hitesthi	B.Tech 4th sem	PDEU	7216879114	RutiktrushilPateltrivedi@gmail.com	<i>[Signature]</i>	India
59	Anjannu Khatel		PDEU	6353333649	hitesthitrivedi@gmail.com	<i>[Signature]</i>	India

10. Summary of Feedback



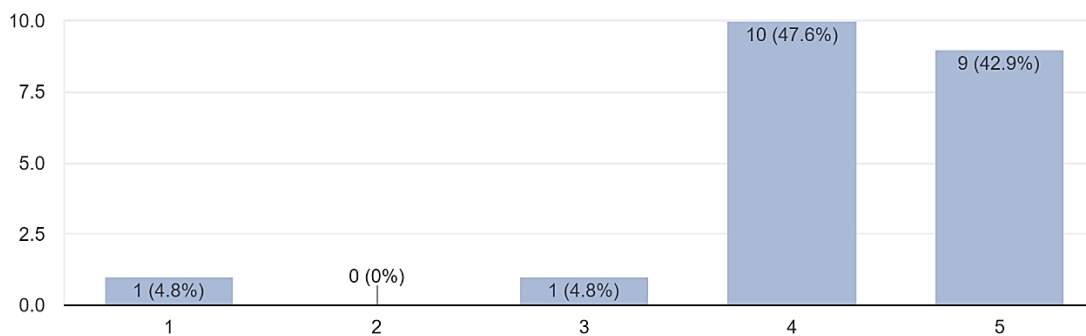
How was demonstration of surveying equipment? (5=Exceptional, 4=Very Good, 3=Average, 2= Fair, 1= Poor)

21 responses



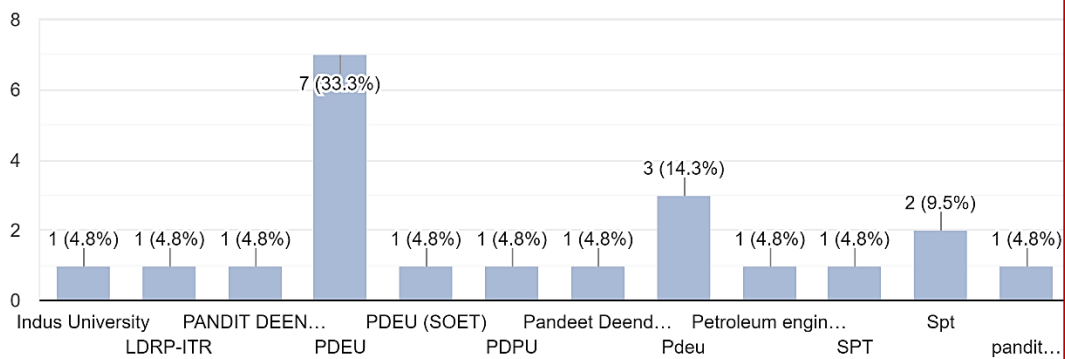
How do you rate the Workshop? (5=Exceptional, 4=Very Good, 3=Average, 2= Fair, 1= Poor)

21 responses



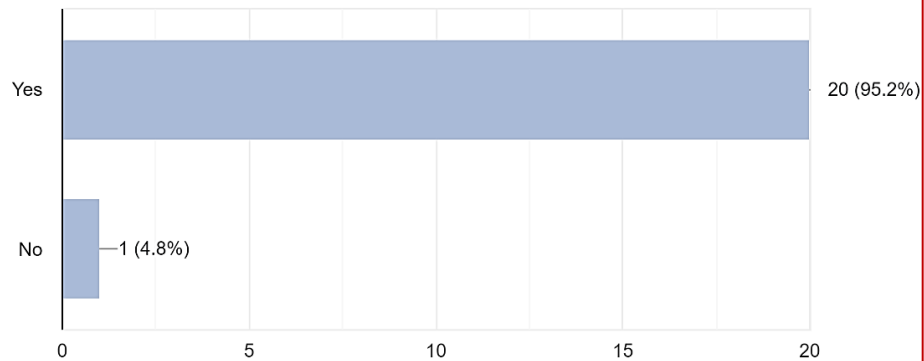
Name of the organization/Institute

21 responses



Are you interested in attending such workshops in future?

21 responses



Any suggestions or comments about the content delivery / organizing the workshop

8 responses

Pls allow students to perform the instruments

In future, if it could be details workshop with tutorial & practical application on site with Limited participation (Max 15) in a batch, it would really helpful to participator.

The workshop was amazing, I mean I learn new things but I think there should be some enjoyable things that doesn't make it boring...

None

No

Midium

anilbhai.cbt22@pdpu.ac.in

The workshop was part of learning

11. Media Coverage



vivek_2206 Follow
ગોધરા (પંચમહાલ)



ગોધરા: સરકારી પોલીટેકનિક કોલેજના 2 વિદ્યાર્થીઓની ડ્રોન, GPS અને ટોટલ સ્ટેશન પર એક દિવસીય વર્કશોપમાં તાલીમ માટે પસંદગી થઈ હતી

13.3k views | Godhra, Panch Mahals | Mar 27, 2023

https://public.app/video/sp_scd0js106a00n



godhra એન્જિનિયરિંગ કોલેજના વિદ્યાર્થીઓને ડ્રોન નું માર્ગદર્શન આપવામાં આવ્યું

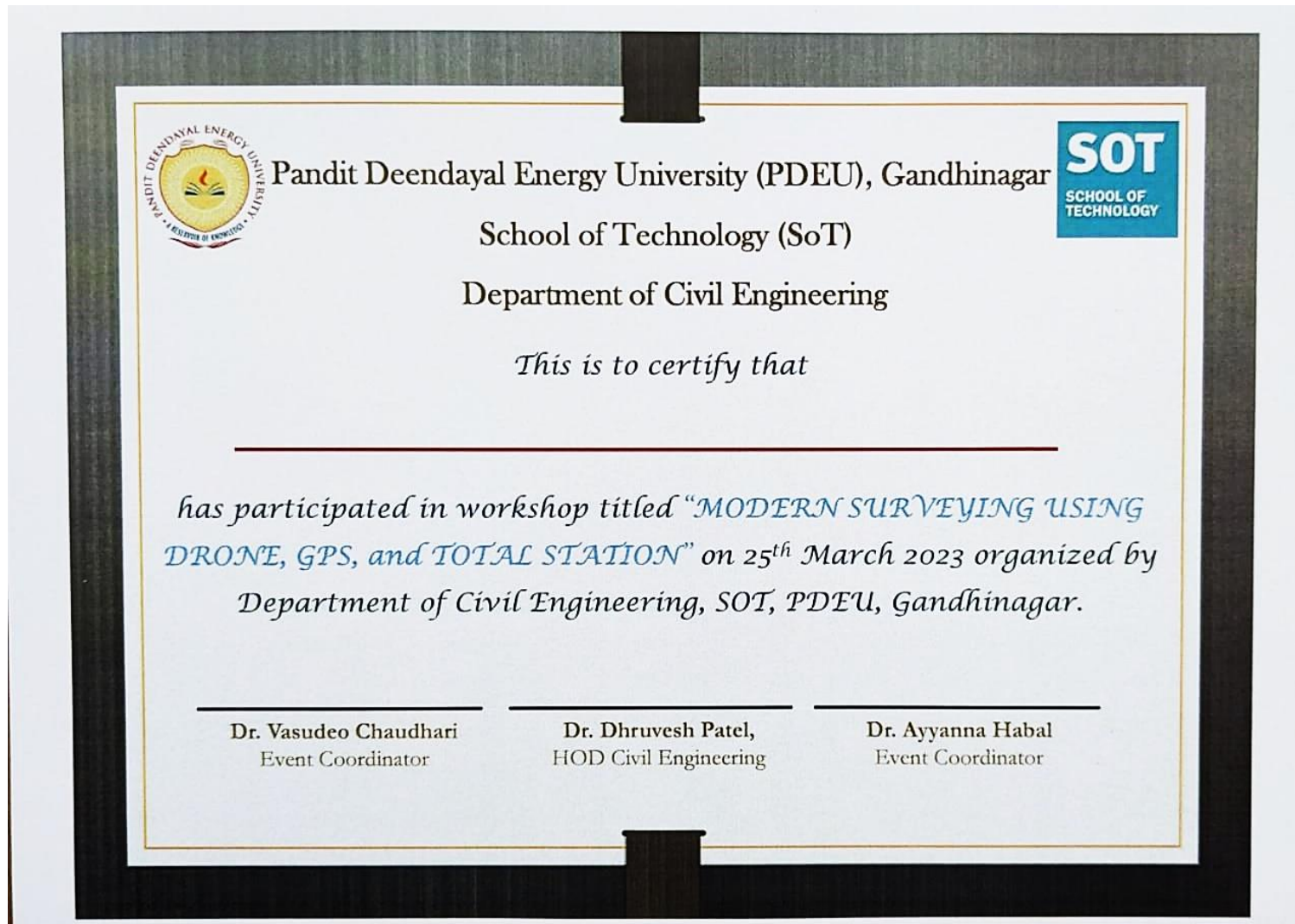
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https://www.youtube.com/watch?v=QeTK32xrlk4&ab_channel=GTNNewsGujarat

12. Sample Certificate




13.Photos of the Event



The brochure features a light blue background with a white drone flying in the upper right and a drone over a green field with a blue grid overlay in the lower left. Logos for SOT, PDEU, and G20 India are at the top. Text details the workshop's focus on modern surveying tools and provides registration information.

 **PDEU** PANDIT DEENDAYAL ENERGY UNIVERSITY
UGC RECOGNIZED Formerly Pandit Deendayal Petroleum University (PDPU)

 **SOT**
SCHOOL OF TECHNOLOGY

Under the Skill Development Workshop Series, Dept. of Civil Engineering in association with IQAC PDEU is Organizing a workshop on

MODERN SURVEYING USING DRONE, GPS, AND TOTAL STATION

Date : 25th March 2023

The expert lecture followed by advanced surveying instrument demonstration and lab visits would be part of this activity. The workshop focuses on using advanced surveying instruments such as Drones, GPS, and Total Station. Besides imparting knowledge on contemporary advancements in surveying.

Workshop fee: Free.
Seats Availability: 40 only
(First come, first served basis)
Co-ordinators:
1. Dr. Vasudeo Chaudhari
2. Dr. Ayyanna Habal

Registration link: <https://forms.gle/UiWuQLHqdfnPkE1A>




Fig.: Brochure of the Workshop.



Fig.: Address by HOD Civil Engineering Dept.



Fig.: Briefing of Drone Operation at PDEU Ground.



Fig.: Demonstration of Drone Surveying at PDEU Ground.



Fig.: Demonstration & Explanation of Drone Surveying in various Applications.



Fig.: Talk by Industry Expert



Fig.: Explanation & Demonstration of Total Station



Fig.: Certificate distribution by Course Coordinators.



Fig.: Group Photo after Drone demonstration at the site.



Fig.: Group Photo with G20 participants.



Fig.: Group Photo with all the participants.



Fig.: Faculty and Student Co-ordinators with Drone