

Ref. No.: KCT's/LGNSCOE/ESTT./2022-23/

Date:24/04/2023

To,
The Principal,
LGNS College of Engineering,
Anjaneri, Nashik – 422 213.

Subject: Permission to organise FDP on “Modern Survey Training Programme using GPS and Total Station”

Respected Sir,

With reference to the aforementioned subject, the Civil Engineering Department, in collaboration with IQAC, has planned to organise the Five Days FDP.

Sr. No.	Title of the program	Resource person/ agency	Faculty coordinator	Period
1	Modern Survey Training Programme using GPS and Total Station	Mr. Abhishek K. Khairnar	Prof. T. R. Shinde	08/04/2023 to 12/04/2023

We hereby request you to kindly give permission for the same.

Thanking you.

Yours faithfully,

*Permitted with all
required formalities*
[Signature]

[Signature]
HoD, Civil Engg. Dept.



Ref. No.: KCT's/LGNSCOE/ESTT./2022-23/601(B)

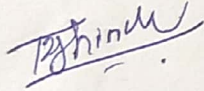
Date: 28/04/2023

NOTICE

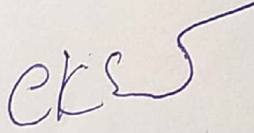
All the Teaching Staff members & PG students of Civil Engineering Department are hereby informed that the Civil Engineering Department, in collaboration with IQAC, has organised the Five Days FDP on "**Modern Survey Training Programme using GPS and Total Station**". The interested Staff and students can register their name on or before 06/05/2023.

Scheduled Date- 08 May To 12 May 2023

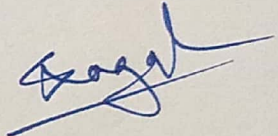
Time: 10am to 4pm.



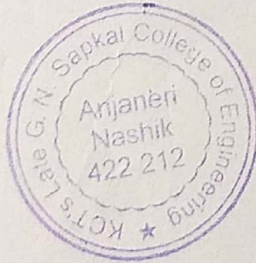
Prof. T. R. Shinde
Coordinator



Prof. (Dr.) C. K. Sridhar
HOD, Civil Dept.



Prof. (Dr.) S. B. Bagal
Principal
Prof. (Dr.) Sahebrao B. Bagal
Principal
Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213





Kalyanii Charitable Trust's

LATE G. N. SAPKAL COLLEGE OF ENGINEERING

(Accredited with Grade 'B' by NAAC)

Affiliated to > Savitribai Phule Pune University (ID. No.PU/NA/Engg./152/2009 Ref.No.-CA/6501 Dated- 18/11/2009)

Approved by > A.I.C.T.E., New Delhi (F.N: 06/07/MS-Engg/2008/O-17, Dated- 11th June 2009)

> Govt. of Maharashtra (No. GEC-2009/(67/09)/T.E.- 4, Dated- 15th June 2009)

> D.T.E., M.S., Mumbai (No.2/NGC/Engg./Approval/2009/535, Dated - 23rd July 2009)

> AISHE CODE : C-42196



Dr. Ravindra G. Sapkal
Chairman & Managing Director
Kalyanii Charitable Trust

Dr. Sahebrao B. Bagal
M.E. (E & TC), Ph.D. (E & TC)
Principal

Ref: KCT's/LGNSCOE/2022-23/596C(B)

Date: 25/04/2023

INVITATION

To,

Mr. Abhishek K. Khairnar

Civil Engineer & Land Surveyor,
Malegaon, Dist-Nashik.

Dear Sir,

I am delighted to ask you to lead a FDP session on "**Modern Survey Training Programme using GPS & Total Station**" for our faculty members. The session will be organized by Department of Civil Engineering in collaboration with Internal Quality Assurance Cell (IQAC) from **08 May 2023 to 12 May 2023**.

We will be grateful if you could share your knowledge on the aforementioned subject. Please confirm your availability so that we can make the appropriate arrangements.

Looking forward to your response.

Venue: Civil Engineering Department, Late G.N. Sapkal College of Engineering



Prof. (Dr.) S.B. Bagal
Principal

- **CAMPUS** : Sapkal Knowledge Hub, Kalyanii Hills, Anjaneri-Wadholi, Trimbakeshwar Road, Nashik - 422 213. (India)
Tel.: + 91- 2594 - 220168/69/70 | Mob.: +91 9922252699 | Toll Free No.: 1800 233 2999 | **E-mail** : gns_engineering@sapkalknowledgehub.org
- **CORPORATE OFFICE** : Sapkal Knowledge Hub, 'Parag' 46, Ashwin Sector, Opp. Hotel Sai Palace, Mumbai-Agra Highway, Nashik - 422 009.
Tel.: +91 - 253 - 2392450 / 51 | **E-mail** : head.marketing@sapkalknowledgehub.org | **Website** : www.sapkalknowledgehub.org
- **MUMBAI OFFICE** : Sapkal Knowledge Hub, Unit No. 22, 1st Floor, Shubhada Tower Shopping Centre, Sir Pochkhanwala Road, Near R.T.O. Office, Worli, Mumbai - 400 030. Tel.: + 91 - 22 - 24938914 / 15 | **E-mail** : cmd@sapkalknowledgehub.org, ravi.sapkal@gmail.com



Kalyani Charitable Trust's
**LATE. G. N. SAPKAL COLLEGE OF
ENGINEERING**



Kalyani Hills, Anjaneri, Trimbakeshwar Road, Nashik-422213.
Ph. No:02594 220167/68 69, Fax No:02594 220174
Website- www.sapkalknowledgehub.org

**Faculty Development
Programme on**

**“Modern Survey Training
Programme using GPS and
Total Station”**

Patron

Hon. Dr. Ravindra G. Sapkal
Chairman & Managing Director
Kalyani Charitable Trust, Nashik
Hon. Mrs. Kalyani R. Sapkal
Voice Chairperson
Kalyani Charitable Trust, Nashik

Convener

Prof. (Dr.) Sahebrao B. Bagal
Principal
Late G. N. Sapkal college of
Engineering, Anjaneri, Nashik

Chief Coordinator

Prof.(Dr.) C. K. Sridhar
Head of Department
Civil Engineering

Advisory Committee

Prof. (Dr.) N. R. Wankhade
Head of Department
Computer Engineering
Prof. (Dr.) T. Y. Badgujar
Head of Department
Mechanical Engineering
Prof. R. N. Baji
Head of Department
Electrical Engineering
Prof. S. B. Borase
Head of Department
E&TC Engineering
Prof. (Dr.) V. A. Kolhe
Dean Academics

**About the Faculty Development
Programme**

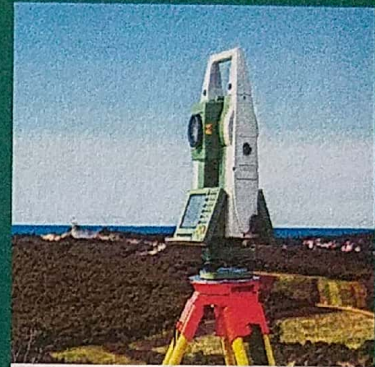
Surveying is a very important aspect in Civil Engineering projects and in recent years the electronic instruments have enabled land surveyors to provide precise and timely information about various land sites. A Total Station is a modern survey instrument that combines an electronic theodolite electromagnetic distance measurement (EDM) device and on-board software to convert the raw observed data to three dimensional coordinates. Its higher precision to collect and process survey data has made it an eminent instrument mostly preferred by professional. Total station enables the surveyor to prepare contour maps, layout maps of buildings, roads, etc. The main objective of the training programme is to teach both theoretical concepts and to give practical hands on training on Total station and GPS. Five days faculty development programme will enable the participants to get well versed with various functions in Total Station and GPS and the knowledge gained can be used to handle any kind of survey work in Civil Engineering field.

Resource Person

Mr. Abhishek Khairnar
Civil Engineer and Surveyors, Malegaon
(Nashik)

Highlights of FDP

- **GPS:** Introduction - Coordinates Types - Control point
- **Total Station:** Introduction - Orientation - Toposurvey - Set out marking - Traversing - Area calculation
- **Plotting:** Introduction - Scale factor - Data transfer - Autocad



Important Dates

**08 May 2023 to
12 May 2023**

Registration

The complete Registration form should submit to
Mr. Tushar Shinde
(tushar.shinde@sapkalknowledgehub.org)
Mr. Bhushan Tatar
(bhushan.tatar@sapkalknowledgehub.org)

**For Information and Queries
Contact**

Prof.(Dr.)C.K.Sridhar{8095423057}
(hodcivil.lgnscoe@sapkalknowledgehub.org)
Mr. Tushar Shinde
(Mo.8975679390)
Mr. Bhushan Tatar
(Mo.9890287932)





Kalyani Charitable Trust's
Late G. N. Sapkal College of Engineering
Kalyani Hills, Anjaneri, Trimbakeshwar Road,
Nashik – 422 213



FDP REPORT

Title: Modern Survey Training Programme using GPS and Total Station

Number of Day : 5 days

Date of Conduction : 08/05/2023 to 12/05/2023

Number of Participants: 23

Time: 10am to 04pm

Program Objectives:

1. To set up and use of Total Station equipment.
2. To learn how to interpolate survey data and create maps using electronic surveying software.

Name & Details of the Resource Person:

Mr. Abhishek Khairnar, Civil Engineer and Surveyors, Malegaon (Nashik)

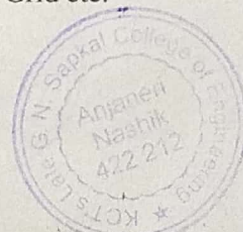
Course overview:

The Late G. N. Sapkal College of Engineering, Anjaneri, Nashik's department of civil engineering organised a training session on "Advanced Survey Training using GPS and Total Station." Prof. Tushar Shinde coordinated the training program from May 08 to 12 May 2023. Total 10 faculty members and 13 PG students participated in this training program. The training was delivered by Mr. Abhishek Khairnar and his technical team, who also explored the many features of the Total Station.

Total station and E-surveying software, which are widely used in civil engineering and other industries, are covered in this course with the goal of giving participants adequate practical knowledge. Two groups of training faculties each carried out the task of using a Total Station in the campus.

Course Highlights:

1. Introduction on Total Station.
2. Data Management & Boundary survey.
3. Column Marking, Stake Out, Curve Setting and Road Survey Offset method.
4. Topo graphical Maps, Contour generation, Earth work quantity.
5. Cross Section and longitudinal sections, Interpolation, Grid etc.





Kalyani Charitable Trust's
Late G. N. Sapkal College of Engineering

Kalyani Hills, Anjaneri, Trimbakeshwar Road,
Nashik – 422 213



Course structure:

1. Lecture Session - 12 hrs.
2. Practical Session (session on Total Station operation) - 18 hrs.
3. Inauguration and valedictory Session – 30 minutes.

Topics covered:

i) Lecture Session

1. Surveying
2. Introduction
3. Methodologies adopted and instruments used presently and in earlier days
4. Coordinate System and Projections
5. Traverse Surveying
6. Open Traverse & Closed Traverse
7. Bowditch Adjustment Method
8. Theory of errors in observations

ii) Practical Session

1. Control Point establishment & Error adjustment
2. Boundary Survey & Topographic survey
3. Topo Map & Contour Map generation
4. Earth work (Land Quantity Calculation)
5. Area and Volume calculations
6. Generations of Cross & Longitudinal section for Road work.

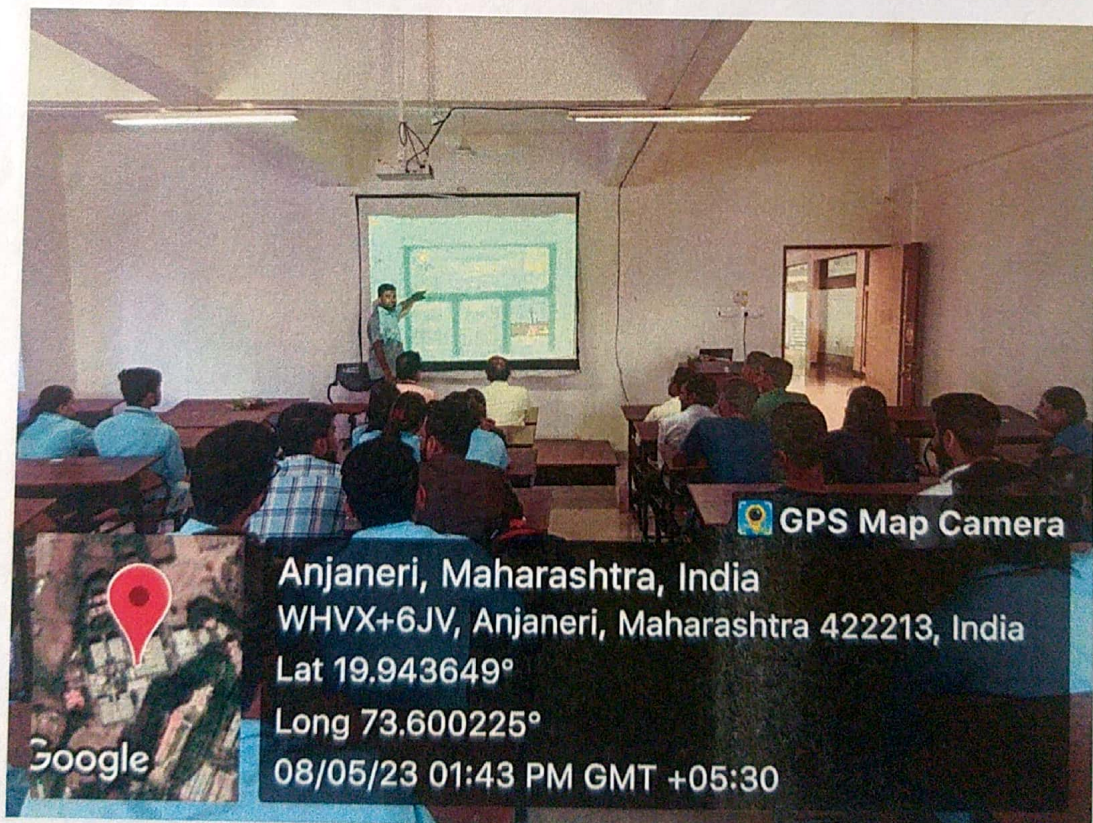
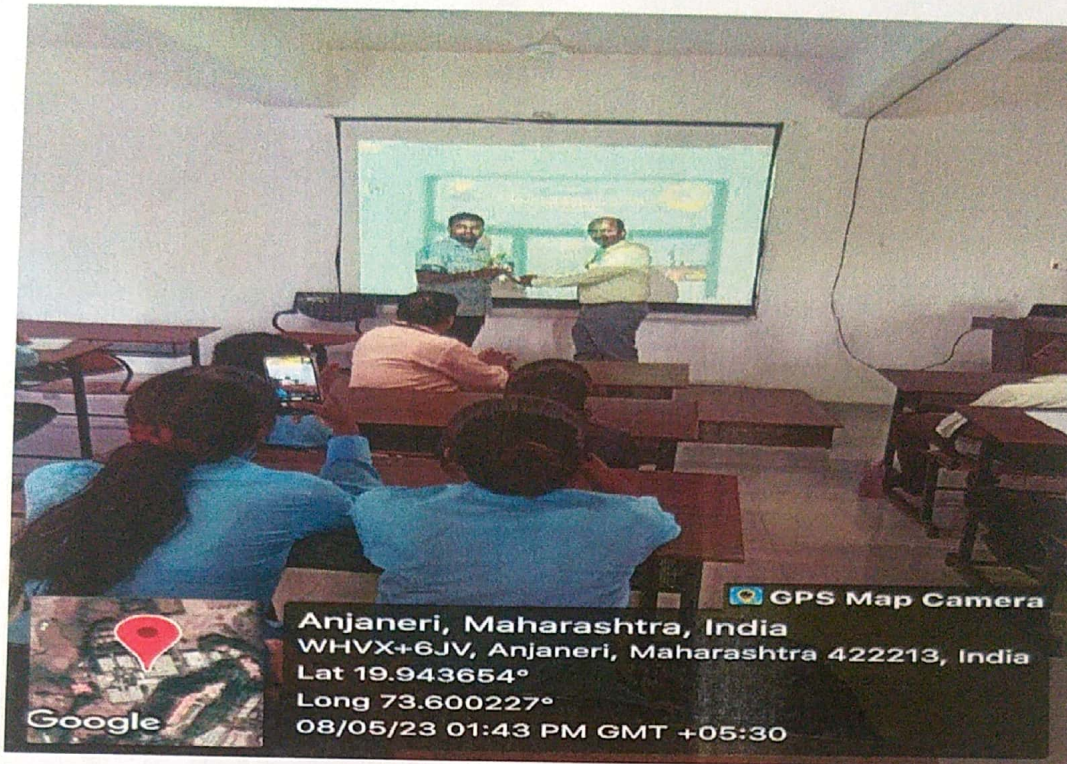
Outcomes of the FDP:

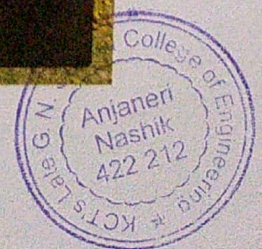
In this Training Faculties will be able to:

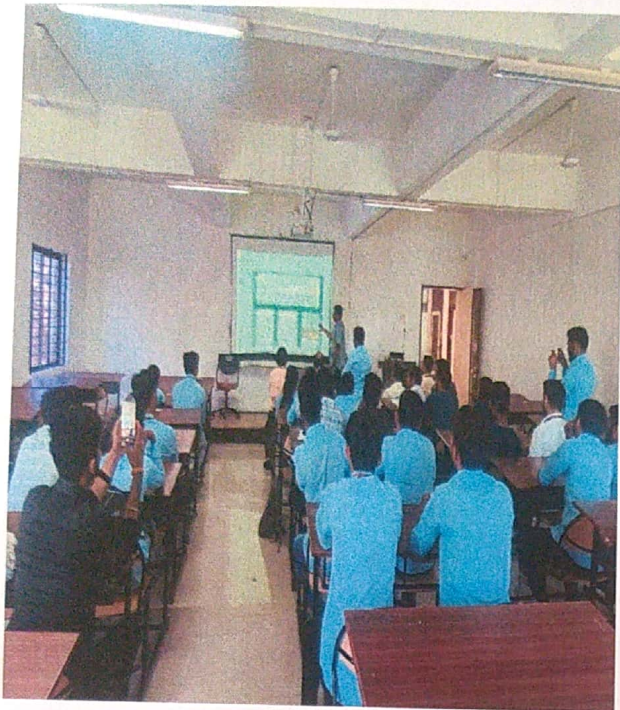
- Set up and use Total Station equipment for establishing control, detail surveying, setting out and coordinate checks.
- Generate and extract field survey data using specialized E survey software. Interpret the drawings and maps for calculating different physical quantities like length, area, volume, elevations etc.




Photos:









 GPS Map Camera

Anjaneri, Maharashtra, India
Trimbakeshwar Rd, Anjaneri, Maharashtra 422213, India
Lat 19.94396°
Long 73.601186°
12/05/23 02:26 PM GMT +05:30



Prof. Tushar R. Shinde
Coordinator

Prof. (Dr.) C. K. Sridhar
HOD/Chief Coordinator

Prof. (Dr.) Sahebrao B. Bagal
Principal
Prof.(Dr.) Sahebrao B. Bagal
Principal
Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213





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> AISHE CODE : C-42196

Dr. Sahebrao B. Bagal
M.E. (E & TC), Ph.D. (E & TC)
Principal



Dr. Ravindra G. Sapkal
Chairman & Managing Director
Kalyanii Charitable Trust

Ref: KCT's/LGNSCOE/2022-23/618(B)

Date: 12/05/2023

Appreciation letter

To,

Mr. Abhishek K. Khairnar

Civil Engineer & Land Surveyor,
Malegaon, Dist-Nashik.

Dear Sir,

I would like to take this opportunity to express my gratitude for sharing your knowledge on the subject of "**Modern Survey Training Programme using GPS & Total Station**" held from **08 May 2023 to 12 May 2023**.

I am very appreciative of you for sharing your thoughts on the aforementioned subject with us because it has raised a lot of awareness among our teachers. Thank you so much for taking the time out of your hectic day to give us this important information. Thank you once again.

Sincerely,

Prof. (Dr.) S.B. Bagal
Principal



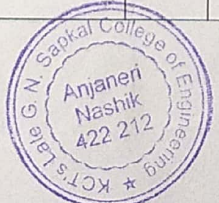
- **CAMPUS** : Sapkal Knowledge Hub, Kalyanii Hills, Anjaneri-Wadholi, Trimbakeshwar Road, Nashik - 422 213. (India)
Tel.: + 91- 2594 - 220168/69/70 | Mob.: +91 9922252699 | Toll Free No.: 1800 233 2999 | **E-mail** : gns_engineering@sapkalknowledgehub.org
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Department of Civil Engineering

ATTENDANCE SHEET OF STAFF

Event Name: FDP on "Modern survey training programme using GPS & Total Station"

Sr. No	Name of Student	Class	08/05/23	09/05/23	10/05/23	11/05/23	12/05/23
1	P. B. Bhushan Vilas Tatar	-	TB	TB	TB	TB	TB
2	Sachin Uttamrao Pagre	-	P.P.P.	P.P.P.	P.P.P.	P.P.P.	P.P.P.
3	Tushar Ramnath Shinde	-	PS	PS	PS	PS	PS
4	Pradeep Tulshidas Kumar	-	PL	PL	PL	PL	PL
5	Madhuri Z. Khairnar	-	Mpk	Mpk	Mpk	Mpk	Mpk
6	Dr. Dayanand P. Joshi	-	Dr	Dr	Dr	Dr	Dr
7	J. R. C. K. SRIDHAR	-	des	des	des	des	des
8	Shailesh J. Pagari	-	Sh	Sh	Sh	Sh	Sh
9	Kiran M. Deore	-	2000	2000	2000	2000	2000
10	Havnath S. Mahale	-	Nsh	Nsh	Nsh	Nsh	Nsh
11	Ugate Suresh N	-	Ug	Ug	Ug	Ug	Ug
12	Ugate Roshan N	-	Ugale	Ugale	Ugale	Ugale	Ugale
13	Jagale Anbit S.	-	Jgale	Jgale	Jgale	Jgale	Jgale
14	Dipika D. Kharote	-	Dm	Dm	Dm	Dm	Dm
15	Umesh R. Chaudhari	-	Ush	Ush	Ush	Ush	Ush
16	Ved D. Patil	-	VPat	VPat	VPat	VPat	VPat
17	Avadhut C. Kankare	-	Avkar	Avkar	Avkar	Avkar	Avkar
18	Praniti. S. Gambhire	-	Prsh	Prsh	Prsh	Prsh	Prsh
19	Pushkraj S. Kurkure	-	PK	PK	PK	PK	PK
20	Dhiraj Gokul Salunkhe	-	DrSal	DrSal	DrSal	DrSal	DrSal
21	Yelake Rahul S. Pan	-	Yel	Yel	Yel	Yel	Yel
22	SHRISHAIL NITIN BUDHALE	-	Budhale	Budhale	Budhale	Budhale	Budhale
23	Swarnaj. Tujunpure	-	St	St	St	St	St



(Signature)
Prof. (Dr.) Sahebrao B. Bagal
Principal
Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213

FFEDBACK FORM – RESOURCE PERSON

We would appreciate if you could take a few minute to share your opinion with us.

Name of the Resource Person: Mr. Abhishek Keshav Khairnar

Mobile No: 9769094160 E-mail id: abhishekconsultant503@gmail.com

Name of the Affiliating Institute: Abhishek Consultant's, Civil Engg. & Land Surveyor

Address of the Affiliating Institute: 06, Jyoti Tower, Jyoti Nagar, Sangameshwar,

Title of the FDP: Modern survey training programme using G.P.S. & Total Station ^{melegaon}

Date(s) of Participation: From 08/05/2023 to 12/05/2023 Days: 05 day's

Kindly tick mark (✓) in the relevant box below

Sr.	Performance Attributes	Rating										
		1	2	3	4	5	6	7	8	9	10	
1.	Involvement of the participants in the session										✓	
		1 – Uninterested; 5 – Interested; 10 – Very Inquisitive										
2.	Nature of the event organized (Relevance to students / Academics)											✓
		1 – Moderately Relevant; 10 – Most Relevant										
3.	Infrastructural capacity of the organizing Department / Institute											✓
		1 – Insufficient; 5 – Sufficient; 10 – Excellent										
4.	Overall impact of the event on the participants											✓
		1 – Beneficial; 5 – More Beneficial; 10 – Most Beneficial										
5.	Comments on the boarding and lodging facilities (if availed)											✓
		1 – Average; 5 – Good; 10 – Excellent										
6.	In near future how would you like to associate with the Students / Department / Institute?											
	Mentoring		Infrastructure Sharing		Employment	✓	Financial Support		All of the above			
7.	Comments / Suggestions:											
<p><u>Plenty of time given to Explain & perform Total Station activities. I would like to come again to conduct such program for upcoming batches.</u></p>												



Khairnar
Mr. Abhishek K. Khairnar

FEEDBACK FORM – PARTICIPANTS

We would appreciate if you could take a few minute to share your opinion with us.

Name of the Department: **Civil Engineering**

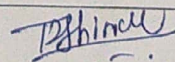
Event: **FDP on Modern survey training Programme using GPS and Total Station**

Name of the Resource Person: **Mr. Abhishek Khairnar**

Date: **08May to 12May2023**

Sr.	Performance Attributes	Rating									
		1	2	3	4	5	6	7	8	9	10
1.	Was the objective of the FDP specified properly to you?										✓
		1 – Objective not specified; 10 – Properly Specified									
2.	Was the Expert properly introduced to the audience?									✓	
		1 – Not at all; 10 – Properly Introduced									
3.	Was the Expert interactive in his delivery?										✓
		1 – Not Interactive; 5 – Interactive; 10 – Very Interesting									
4.	Rate the language of the expert.										✓
		1 – Simple Language; 10 – Difficult to Understand									
5.	Whether sufficient time was available for completion of the FDP?										✓
		1 – Insufficient time available; 10 – Sufficient time available									
6.	Whether sufficient time was available for question & answer session?										✓
		1 – Insufficient time available; 10 – Sufficient time available									
7.	Did the FDP improve your knowledge / awareness about the topic discussed?										✓
		1 – Nil; 5 – Moderate; 10 – Greatly improved knowledge									
8.	Rate the relevance of the program to your 'Personal / Professional interest'.										✓
		1 – Irrelevant; 5 – Moderately Relevant; 10 – Very Relevant									
9.	Would you like to attend such program again in future?										✓
		1 – Nil; 5 – Moderate; 10 – Always									
10.	Would you recommend your friend to attend such program?										✓
		1 – No; 5 – Not Sure; 10 – Yes									

Participant Name: **Tushar R. Shinde**


Signature of Participant



FEEDBACK FORM – PARTICIPANTS

We would appreciate if you could take a few minute to share your opinion with us.

Name of the Department: Civil Engineering

Event: FDP on Modern survey training Programme using GPS and Total Station

Name of the Resource Person: Mr. Abhishek Khairnar

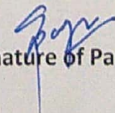
Date: 08May to 12May2023

Sr.	Performance Attributes	Rating										
		1	2	3	4	5	6	7	8	9	10	
1.	Was the objective of the FDP specified properly to you?								✓			1 – Objective not specified; 10 – Properly Specified
											✓	
2.	Was the Expert properly introduced to the audience?											1 – Not Interactive; 5 – Interactive; 10 – Very Interesting
3.	Rate the language of the expert.								✓			1 – Insufficient time available; 10 – Sufficient time available
											✓	
4.	Whether sufficient time was available for completion of the FDP?											1 – Nil; 5 – Moderate; 10 – Greatly improved knowledge
5.	Whether sufficient time was available for question & answer session?											1 – Nil; 5 – Moderate; 10 – Always
6.	Did the FDP improve your knowledge / awareness about the topic discussed?											
7.	Rate the relevance of the program to your 'Personal / Professional interest'.											
8.	Would you like to attend such program again in future?											
9.	Would you recommend your friend to attend such program?											
10.												

Participant Name:

Sauris U. Pagar

Signature of Participant






Kalyani Charitable Trust's

LATE G. N. SAPKAL COLLEGE OF ENGINEERING



Sapkal Knowledge Hub, Kalyani Hills, Anjaneri, Trimbakeshwar Road, Nashik.

Department of Civil Engineering

One Week Faculty Development Program on

"Modern Survey Training Programme using GPS and Total Station"

May 08-12, 2023

Certificate

This is certified that Mr. Bhushan Vilas Tatar

From Late. G. N. Sapkal College of Engineering.

Has participated in one Week Faculty Development Program on "Modern Survey Training Program using GPS and Total Station" organized by Department of Civil Engineering in collaboration with IQAC.

Mr. Abhishek Khairnar
Civil Engg. & Land Surveyor
Abhishek Consultancy

Prof. T. R. Shinde
Programme Coordinator
Civil Engg. Department

Prof. (Dr.) C. K. Sridhar
Head of Department
Civil Engineering

Prof. (Dr.) S. B. Bagal
Principal
Late G. N. Sapkal College of Engineering