



POORNIMA

COLLEGE OF ENGINEERING

Approved by AICTE
Affiliated to Rajasthan Technical University, Kota
Recognized by UGC under Section 2(f) of the UGC Act, 1956

1.3.2 Percentage of students undertaking project work/ field work/ internship (Data for the latest completed year 2021-22)

Field Work/ Survey Camp Report (Session 2021-22)

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COLLEGE OF ENGINEERING

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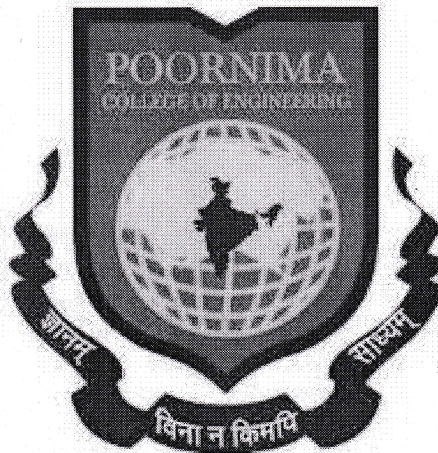
DEPARTMENT OF CIVIL ENGINEERING

**Report
On**

‘Survey Camp in Civil Engineering Department’

Session_2021-22

**A
Activity
Report
On
Survey Camp**



Session 2021-22

Organized by

DEPARTMENT OF CIVIL ENGINEERING, PCE

Mr. Laxmi Kant Saini

Event Coordinator

Dr. Pran Nath Dadhich

(HOD, Civil Engineering)

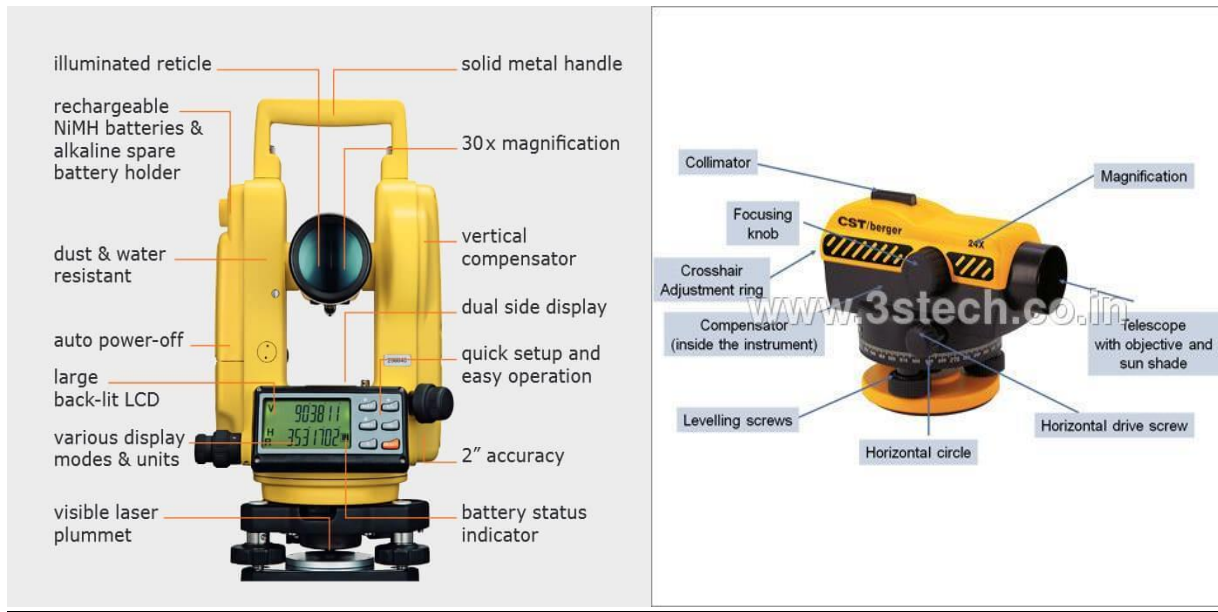
Dr. Mahesh Bunde
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RICO Institutional Area
Ghatapada, JAIPUR

Objective:

- To understand the difference between practical and theory.
- To gain the skill of time management by performing exercise.
- To get the basic knowledge about surveys in actual working space.
- Think and apply your own mind regarding problems facing the actual field.
- To gain actual surveying exposure function and features.
- It improves our team working and management skills.
- To pertain the knowledge about the inner atmosphere in the field.

Requirements:

S.No.	Name of Item	No of Item Required
1	EDM	2
2	Theodolite	4
3	Auto Level	2
4	Tilting Level	2
5	EDM tripod	2
6	Theodolite tripod	4
7	auto level tripod	2
8	Tilting Level Tripod	2
9	plumb bob	6
10	staff	5
11	Measuring tape	4
12	ranging rod	10
13	Plane Table and its kit	1
14	Plane table Tripod	1
15	Engg. Drawing Sheet	10
16	poles	6
17	flag	6
18	white powder	2bags




Pic. Various Instruments

About the Activity:

The Three Days Activity conducted on “**Survey Camp**” on **23rd to 25th February 2021**. An activity of survey camp had organized at “**CHANDWAJI**” near JAIPUR, NH-8 by-pass on **23rd to 25th February 2021**

- It was an educational visit and a huge platform to realize theory in practical terms.
- 9 members were there in our group and our Group no is 1.
- Duration of the survey camp was of 3 days and it consists of 6 exercises (2 for each day).


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To perform these exercise we used following main instruments:-

- Tilting level
- Auto level
- Digital Theodolite
- Theodolite


Venue- “CHANDVA JT”

Time – 8:00 am -3.00 pm

Date - 23rd to 25th February 2021

Participation List

Sr. No.	Roll No	Name of Student	University Roll No
1	20/CE/01	AADITYA JANGIR	PCE20CE001
2	20/CE/02	ABHINAV SHARMA	PCE20CE002
3	20/CE/03	ABHISHEK BHUKAR	PCE20CE003
4	20/CE/04	ABHISHEK SAINI	PCE20CE004
5	20/CE/05	AJAY KUMAR	PCE20CE005
6	20/CE/06	ARVIND KHATIK	PCE20CE007
7	20/CE/07	ARYAN DIWALA	PCE20CE008
8	20/CE/08	ASHOK KUMAR	PCE20CE009
9	20/CE/09	BHUMI	PCE20CE056
10	20/CE/10	BHUPENDRA KUMAR	PCE20CE010
11	20/CE/11	CHIRAKSHI AGARWAL	PCE20CE011
12	20/CE/12	HARISH KUMAR CHAUHAN	PCE20CE012
13	20/CE/13	HARSHIT KUMAR TAITER	PCE20CE053
14	20/CE/14	HARSHIT SHARMA	PCE20CE052
15	20/CE/15	HEMANT SAINI	PCE20CE013
16	20/CE/16	HIMANSHU SHARMA	PCE20CE014
17	20/CE/17	JASWANT SINGH	PCE20CE015


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18	20/CE/18	JATIN MEENA	PCE20CE016
19	20/CE/19	JEETKESH MEENA	PCE20CE017
20	20/CE/20	KAMALKANT BAIRWA	PCE20CE018
21	20/CE/21	KIRAN GAUD	PCE20CE023
22	20/CE/22	KOMAL KUMARI	PCE20CE019
23	20/CE/23	KRIYANSHU MEENA	PCE20CE020
24	20/CE/24	KUNAL MATTED	PCE20CE021
25	20/CE/25	LEKHRAJ MEENA	PCE20CE022
26	20/CE/26	MAHESH NAGAR	PCE20CE058
27	20/CE/27	NIKHEL SHARMA	PCE20CE707
28	20/CE/28	NISHANT MEENA	PCE20CE027
29	20/CE/29	NITIN KUMAR BANSHIWAL	PCE20CE029
30	20/CE/30	POOJA MEENA	PCE20CE054
31	20/CE/31	PRANSHUL JAIN	PCE20CE030
32	20/CE/32	PRATEEK SHARMA	PCE20CE031
33	20/CE/33	PRAVEENDER SINGH	PCE20CE032
34	20/CE/34	SACHIN KUMAR MEENA	PCE20CE035
35	20/CE/35	SACHINDRA SINGH OLA	PCE20CE036
36	20/CE/36	SAKSHI SHARMA	PCE20CE025
37	20/CE/37	SALONI TABIYAR	PCE20CE026
38	20/CE/38	SHIVANSH NARANIYA	PCE20CE038
39	20/CE/39	SHREYANSH HARSANA	PCE20CE039
40	20/CE/40	SHUBHAM GARG	PCE20CE040
41	20/CE/41	SHUBHAM MEENA	PCE20CE041
42	20/CE/42	SHYAM SUNDAR MEENA	PCE20CE057
43	20/CE/43	SINDHU KUMARI	PCE20CE042
44	20/CE/44	SUKESH DHAR	PCE20CE706
45	20/CE/45	SURESH JAT	PCE20CE043

46	20/CE/46	TANNU YADAV	PCE20CE044
47	20/CE/47	TOUFEEQ SHEIKH	PCE20CE045
48	20/CE/48	VAIBHAV JALANDHARA	PCE20CE059
49	20/CE/49	VIJENDRA KUMAWAT	PCE20CE046
50	20/CE/50	VIKAS DHUKIYA	PCE20CE047
51	20/CE/51	VIKAS KHATRI	PCE20CE048
52	20/CE/52	VINOD JAT	PCE20CE049
53	20/CE/53	VIRENDRA SONI	PCE20CE050
54	20/CE/54	VISHAL KAROL	PCE20CE051
55	20/CE/58	ANKUSH VERMA	PCE21CE701
56	20/CE/59	AKSHAT SARAN	PCE21CE800
57	20/CE/60	ANURAG .	PCE21CE801
58	20/CE/62	GAURAV KUMAR MEENA	PCE21CE803
59	20/CE/63	MOHIT KUMAR	PCE21CE804

Execution of Plan:

S.NO.	EXPERIMENT NAME	STATION
1	To Measure the horizontal by repetition method/reiteration method	T-1
2	To Measure the horizontal by repetition method/reiteration method	T-2
3	To Measure the horizontal by repetition method/ reiteration method	T-3
4	To Measure the horizontal by repetition method/ reiteration method	T-4
5	To shift the R.L. of Know point by double leveling.& To prepare a topographical map with help of plane Table Survey also To measure the vertical angle all the stations	T5
6	To prepare a contour map by indirect method of contouring.	T6



Snapshot during Execution of Activity



Snapshot during Execution of Activity

Evaluation Process:

The Evaluation Process is based on two parameters:

- Faculty coordinator takes the viva of each individual group of the students.
- Based on submission of the field book of all exercises conducted in the field.

THEODOLITE OBSERVATIONS

T₁ Station

Station	To	Face : Left										Swing : Left	Face : Right			
		A			B			Mean			No. of Repetitions	Horizontal Angle	A			
		°	'	"	°	'	"	°	'	"			°	'	"	"
T ₁	T ₂	0	0	0	0	0	0	0	0	0			0	0	0	0
T ₁	T ₃	36	19	20				36	19	20			36	21	25	
												33	29	38.5		
T ₁	T ₃	0	0	0	0	0	0	0	0	0			0	0	0	0
T ₁	T ₄	30	39	48				30	39	48			30	40	41	

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Department of Civil Engineering

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T₁ - Station Calculation

Face left

$$\angle T_2 T_1 T_3 = 36^\circ 19' 20''$$

$$\angle T_3 T_1 T_4 = 30^\circ 39' 48''$$

$$\text{Horizontal angle} = \frac{36^\circ 19' 20'' + 30^\circ 39' 48''}{2}$$

$$= 33^\circ 29' 38.5''$$

Face Right

$$\angle T_2 T_1 T_3 = 36^\circ 21' 25''$$

$$\angle T_3 T_1 T_4 = 30^\circ 40' 41''$$

$$\text{Horizontal angle} = \frac{36^\circ 21' 25'' + 30^\circ 40' 41''}{2}$$

$$= 33^\circ 31' 3''$$

$$\text{Average Horizontal Angle} = \frac{33^\circ 29' 38.5'' + 33^\circ 31' 3''}{2}$$

$$= 33^\circ 30' 20.75''$$

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