

### MARATHA VIDYA PRASARAK SAMAJ'S

# Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nashik



ermonently Affiliated to Savitobar Pholin Pone University Vide Letter No. CA 1542 & Approved by AICTE New Delhi - Vide Letter No. 14th H9-12 (E.E.E.) 96, A1546 Code, C.436

# **Department of Civil Engineering**

Innovative Teaching Method: Preparation of Bore Log report using actual field data and IS code through mobile application

Name of Faculty: Dr. S. J. Kadbhane

Academic Year: 2023-24

Class: BE

Semesters: VII

Name of Subject: Foundation Engineering

#### Objectives of Methodology:

1. To aware student to prepare Bore Log report using field data and IS code

2. To develop an interest in field observation and Site Exploration

#### Details of Activity/Method:

In this teaching method, A general description of the foundation and soils encountered on the project, and a description of the terrain, including drainage, erosion patterns, high water elevation, flooding, and any other specific conditions that may be of value in the design of structures. Students first visited the field and collected the subsurface data. Students are studying the core samples extracted from the bore. After studying all parameters data summaries as per IS 1982-1979 code format. Students downloaded the IS code from mobile applications and studied the report

- The methods of site investigation are dependent upon \_\_\_\_\_
- a) Climatic condition
- b) Nature of engineering project
- c) Local topography
- d) All of the mentioned
- 2. The information that should be yielded on-site exploration is\_\_\_\_\_
- a) Rock formation
- b) Depth of groundwater



c) Structural loading	
d) All of the mentioned	
3. Depending upon the details, the site exploration may be classified as	
a) General and Detailed	
b) Complex	
c) None of the mentioned	
d) All of the mentioned	
4. What are the methods used for general exploration?	
a) Subsurface penetration	
b) Ground water exploration	
c) Rock Cuttings	
d) All of the mentioned	
5. The number and disposition of bore holes are varied, depending upon	
a) Surroundings	
b) Strata	
c) Subsoil condition	
d) Ground water	
6. The various method of site exploration can be grouped under, which of the following?	
a) Open excavations and Borings	
b) Soil strata	
c) None of the mentioned	
d) All of the mentioned	
7. Exploratory borings in general exploration is carried out by using	
a) Auger	
b) Bore equipment	
c) Well-curb	
d) All of the mentioned	
a) All of the mentioned	2
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Sr. No.	Name Of Students	Knowledge Of Subject (4)	Understanding (4)	Timely (2)	Final Marks (10
1	AGRAWAL OM SANJAY	4	4	2	10
2	AHIRRAO LEENA MAHENDRA	3	3	2	8
3	ARJUN SINGH	4	4	2	10
4	BANGAR MANOJ NAVNATH	4	4	2	10
5	BHADANE SURAJ NIVRUTTI	4	4	2	10
6	BHADANGE AVINASH SANTOSH	4	4	2	10
7	BORAVE VINAY SUNIL	3	3	2	8
8	CHAVAN DIVYA BARKU	4	4	2	10
9	DEORE RITESH RAKESH	4	4	2	10
10	JADHAV YOGINI DHANRAJ	3	3	2	8
11	JAGTAP TANISHKA DEVENDRA	4	4	2	10
12	KADLAG SANKET SANDIP	3	3	2	8
13	KAKAD ATHARVA MANIK	4	4	2	10
14	KHADANGALE VEDANT MANGESH	4	4	2	10
15	MAURYA KAJAL KARAMCHAND	4	4	2	10
16	MEHETRE AMAN GANESH	3	3	2	8
17	MUSALE SRUSHTI GIRISH	4	4	2	10
18	PAGAR YUVRAJ HIREN	4	4	2	10
19	PATHAN IMRAN SHAKIL	4	4	2	10
20	PATIL MAYURESH SOMNATH	3	3	2	8
21	PATIL YASHWARDHAN PRAMOD	3	3	2	8
22	PAWAR NIKITA ANIL	3	3	2	8
23	RAJOLE OM ANIL	4	4	2	10
24	RANDHIR PRANJAL SHASHIKANT	3	3	2	8
25	SALUNKE JANAVHI PRAKASH	3	3	2	8
26	SANGLE SAKSHI GORAKSHNATH	3	3	2	8
27	SHINDE ROHIT SOMNATH	4	4	2	10
28	SHIRSATH ROSHANI SURESH	3	3	2	8

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29	SONAWANE ABHISHEK SHRIRAM	3	3	2	8
30	SONAWANE PRANAV RAMAKANT	4	4	2	10
31	TAJANPURE VAISHNAVI BHARAT	3	3	2	8
32	UGALE VIKAS RAJENDRA	4	4	2	10
33	VINIT SURYAKANT AGRAWAL	4	4	2	10
34	WANKHEDE SURAJ SANTOSH	4	4	2	10

### Course Outcomes:

	After the completion of the course, students will be able to:	BTL
CO1	Perform subsurface investigations for foundations using different methods.	3

# POs (Related to Methodology)

PO2	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

## PSOs (Related to Methodology)

PSO1	Graduates will be able to apply fundamental knowledge, problem solving skills, engineering experimental abilities and design
	capabilities necessary for entering civil engineering career.
PSO3	Graduates will be able to apply technical and professional skills to be nationally competitive for employment/self-employment
	thereby benefit the society



# Evidences: Activity Photographs/Videos/Sample PPT's: Photo



Shinde Robit Somnoth Roll Ho + 61 Dat + 17/09/18

MVP Samaja KBT COE, NASHIK

Inovative Teaching method.

Title: Areparation of barelog report using actual relid data and Is code through mobile application.

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#### Recorded Video Link:

# Feedback/Impact Analysis (Based on Students Feedback):

#### Course Outcome

	Course Outcome	CO5	CO6
A	Students Achieving CO	34	34
B	Total Rating	34	34
C	Average Rating (A/B)	100	100

## Program Outcome and Program-Specific Outcome

	Program Outcome	PO2	PO4	PO5	PSO1	PSO3
A	No. of Groups/Students Achieving PO	32	32	32	32	32
В	Total Rating	34	34	34	34	34
C	Average Rating (A/B)	94.11	94.11	94.11	94.11	94.11

### Feedback / Critics / Suggestions Link:

https://docs.google.com/forms/d/e/1FAIpQLScnNEDfmoBmZcR8hMWAxMliBk3pJvGbqJkayOIG6WwiTXBw3A/viewform?usp=sf\_link

Dr. S. J. Kadbhane Course Teacher DEPT. OF CIVIL ENGG. OG

Dr. P. D. Nemade HOD Civil

DEPT. OF VIVIL ENGG.