College Code: QA
BRILLIANT INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by AICTE, New Delhi, Affiliated to JNTU-Hyderabad)
Abdullapur(V), Abdullapurmet (M), R.R. Dt. Hyderabad - 501505
Website: www.b-iet.ac.in, e-mail: principal@b-iet.ac.in

## DEPARTMENT OF CIVIL ENGINEERING

**Academic Year: 2022 – 23**

| | | | |
|---|---|---|---|
| Course | **Foundation Engineering** | Year / Semester | **III/ II** |
| Topic | **Types of Foundations** | Innovative Method Chosen | **Brain storming** |

### Brainstorming:

Brainstorming is a group creativity and discussion technique used to generate ideas, explore concepts, and develop solutions to a specific problem. It encourages students to actively participate, share their ideas, and learn from the viewpoints of their peers. In Foundation Engineering, brainstorming helps students understand the selection and application of different types of foundations based on soil conditions, structural requirements, and site conditions.

- Begin by discussing the purpose and importance of foundations in transferring structural loads safely to the underlying soil.
- Ask students to identify the different types of foundations they observe in buildings and other structures around them.
- Discuss the classification of foundations into shallow foundations and deep foundations, highlighting their basic characteristics and applications.
- Explain different types of shallow foundations, such as isolated footing, combined footing, strap footing, and raft/mat foundation.
- Discuss different types of deep foundations, including pile foundations and well foundations, and identify situations where they are preferred.
- Encourage students to brainstorm the factors affecting the selection of foundation type, such as soil bearing capacity, depth of hard strata, magnitude of structural loads, groundwater conditions, settlement, and site constraints
- Present practical situations such as residential buildings, multistorey buildings, bridges, and structures on weak soils, and ask students to suggest the most suitable type of foundation.

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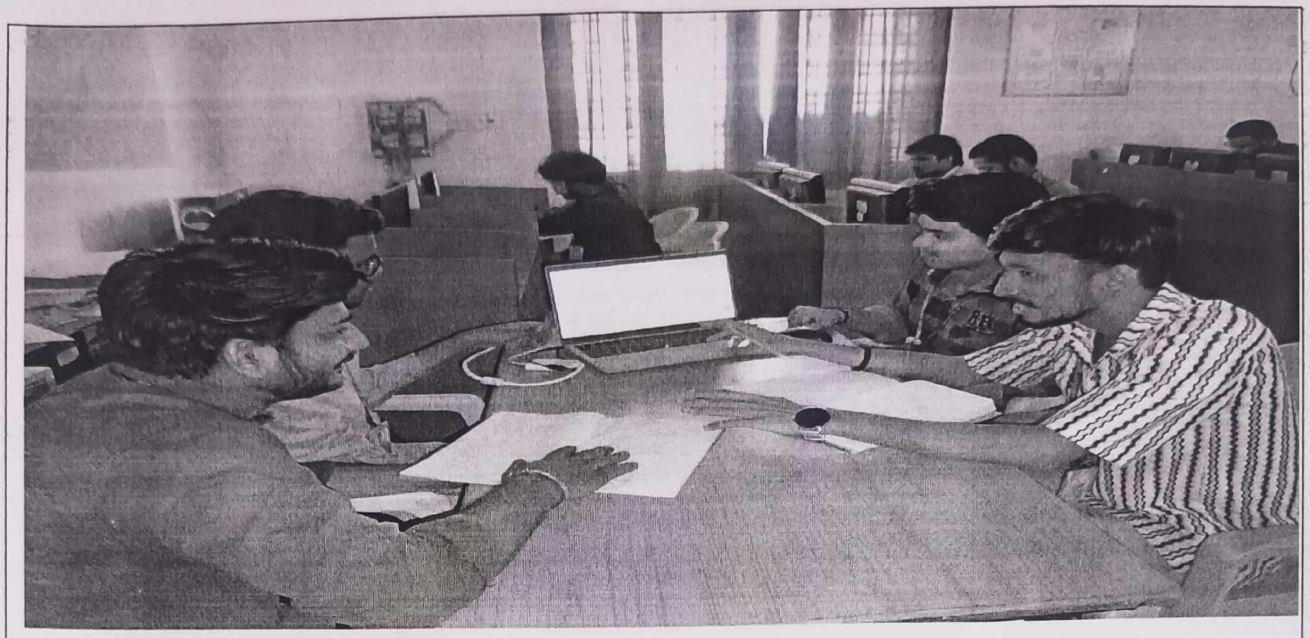


Fig1: Brain storming Explanation by Faculty Ms.BS Rakesh Kumar Reddy

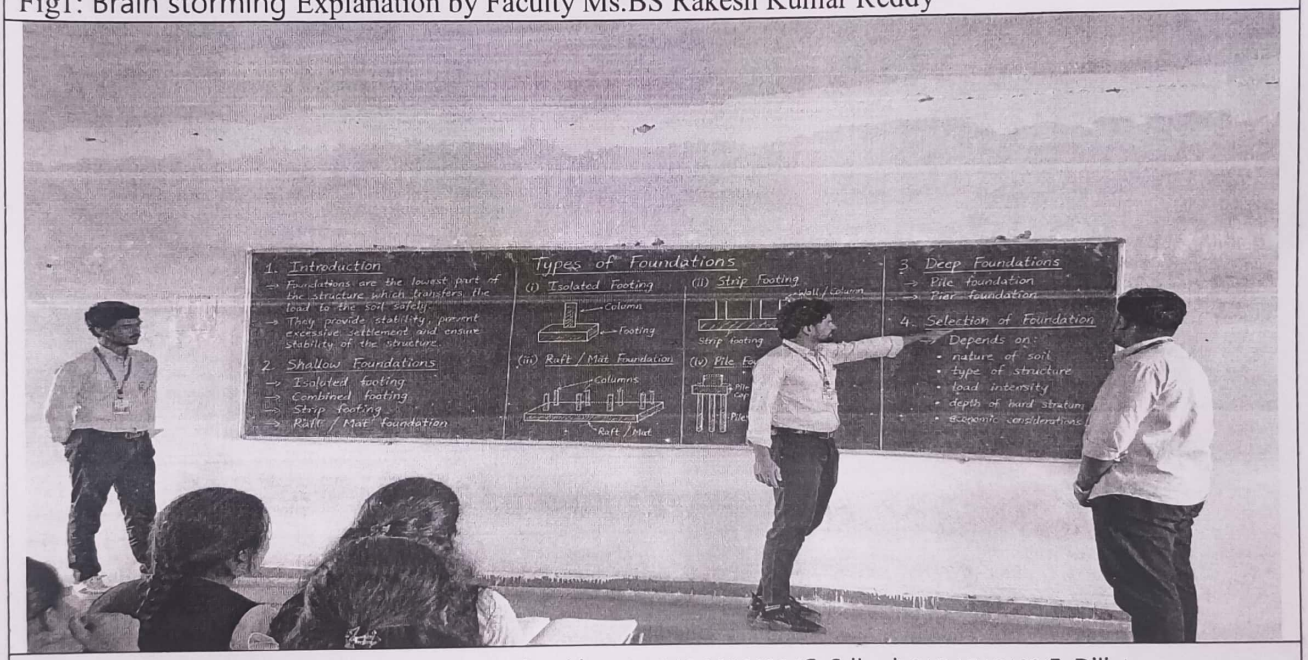



Fig2 : Brain storming by 21QA5A0102(A. Vinod kumar),21QA5A0106 (C. Srihari),21QA5A0109(E. Dilip)

Coordinator

Head of the Department

Head of the Department
Department of Civil Engineering
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## DEPARTMENT OF CIVIL ENGINEERING

Date: 02-05-2023

To
The Principal,
Brilliant Institute of Engineering & Technology,
Adbullapur (V & M) - 501505,
R. R. District, Hyderabad.

Respected Sir,

Sub: Seeking Permission – Innovative Teaching-Learning Practice (TLP) – Brainstorming – Reg.

* * *

We hereby bring to your kind notice that the Department of Civil Engineering is going to conduct an Innovative Teaching-Learning Practice (TLP) in the form of a Brainstorming Session for the students. Brainstorming is an interactive and collaborative teaching-learning activity that encourages students to generate and share ideas freely on a given topic or problem. The activity provides an opportunity for students to think creatively, develop problem- solving and analytical skills, exchange ideas with their peers, and enhance their confidence in expressing their thoughts and technical knowledge. We are scheduled the program 12-05-2023 between 9:15am to 10:55 pm of III Year II Semester. This will be a good knowledge sharing platform for students.

We are confident that you will continue to serve the institution diligently and will have a satisfying and rewarding career with the institution.
In this regard, we are requesting you kindly permit us to conduct the program to the students.
Thanking you sir.

Yours Sincerely,

**Head of the Department**

Head of the Department
Department of Civil Engineering
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## DEPARTMENT OF CIVIL ENGINEERING

Date: 09-05-2023

# Circular

This is to inform faculty members and students in the department of civil engineering that the department is going to conduct a Brainstorming with faculty and students on Transportation Engineering on 12-05-2023 between 9:15am to 10:55 pm. This will be a good knowledge sharing platform for students' ideas and solutions through disciplined idea generator on this method. Hence, it is directed that all the students of III year I Semester and who are interested to participate enroll their names with concerned faculty on or before 09-05-2023.

**Head of the Department**

Head of the Department
Department of Civil Engineering
Brilliant Institute of Engineering & Technology
Abdullapur (V), R.R. Dist., Hyderabad-501505.

Copy to:

Circulate in all Civil Engineering classrooms.
Display in the all notice boards
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## DEPARTMENT OF CIVIL ENGINEERING

**Brainstorming**

A Brainstorming Class is an interactive teaching-learning method where students are encouraged to generate, share, and discuss multiple ideas or solutions for a given topic or problem. It promotes free thinking, creativity, active participation, and collaborative learning without immediate criticism or judgment of ideas.

**What Happens in a Brainstorming Class?**

**Teacher introduces a topic or problem:** The teacher presents a question, topic, or problem related to the subject.

**Students generate ideas:** Students freely express their thoughts, ideas, suggestions, and possible solutions.

**Students share and discuss:** Students discuss their ideas with classmates and explore different perspectives.

**Teacher guides the discussion:** The teacher facilitates the session, encourages participation, and helps students organize and evaluate the ideas.

**Ideas are analyzed:** The generated ideas are reviewed and the most relevant or feasible solutions are identified.

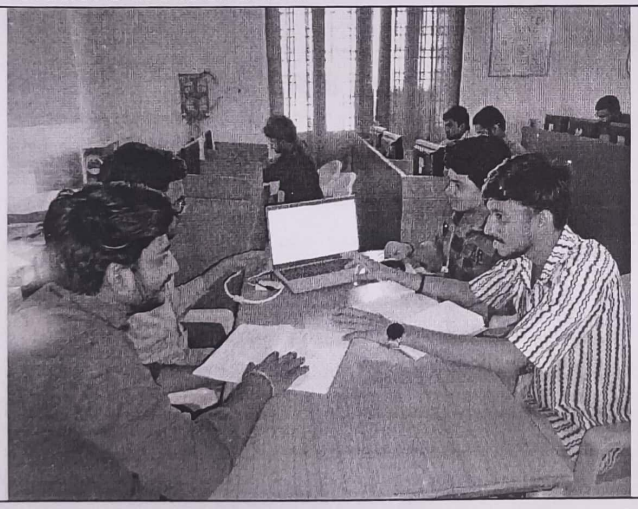


Figure:1 Brain storming Explanation by Faculty Ms.BS Rakesh Kumar Reddy

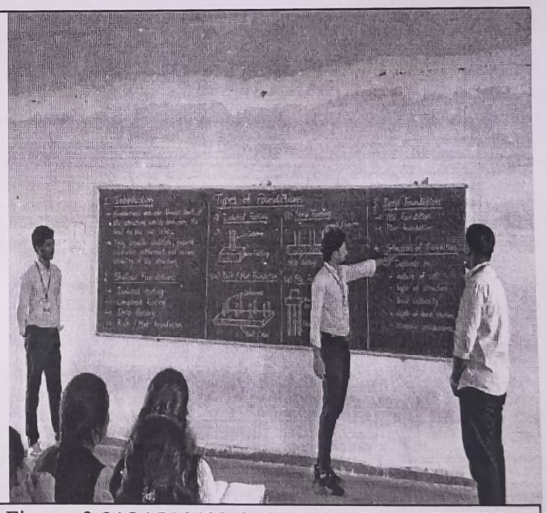


Figure :2 21QA5A0102,,21QA5A0106,21QA5A0109

**Purpose**

1.Encourages creative thinking and generation of new ideas.

2. Enhances communication , Promotes active participation and collaborative learning.

**Coordinator**

**Head of the Department**

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# DEPARTMENT OF CIVIL ENGINEERING

## Summary Report
## On
## Brain Storming

The Department of Civil Engineering Conducted a Brain storming on (Transportation Engineering). The main goal of this event is to enhance communication skill, Debate skills and technical knowledge of students and also it develops the confidence in student to express and expose their knowledge.

The event of Group Discussion organized on **TE**. It maps to our PO1,PO2,PO3 Maximum students participated in this event on this occasion, Dr. Shaik Rusthum, (Principal) motivated students to participate in such activities and congratulated the organizing committee & advised the faculty to conduct more Number of such events to inculate the competitive spirit among the students. The total number of students participated 32.

**Winner Notification**

| S. No | Roll Number | Name Of The Student |
|---|---|---|
| 1 | 21QA5A0102 | A. Vinod kumar |
| 2 | 21QA5A0106 | C. Srihari |
| 3 | 21QA5A0109 | E. Dilip |
| 4 | 21QA5A0110 | G. Navitha |

**Coordinator**

**Head of the Department**

Head of the Departmen
Department of Civil Engineering
Brilliant Institute of Engineering & Technology
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