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	**Ground Improvement Techniques**	Year / Semester	**IV / I**
Topic	**Deep compaction Techniques**	Innovative Method Chosen	**Power Point Presentation**

Power Point Presentation:

PowerPoint Presentation is an effective teaching and learning tool used to present information in a clear, systematic, and visually attractive manner. It helps faculty explain concepts using text, diagrams, images, charts, flowcharts, and animations, making complex topics easier for students to understand. It also improves student engagement and helps them connect theoretical concepts with practical applications. Overall, PowerPoint Presentation provides a structured, interactive, and memorable learning experience for students

Justification:

The significance of PowerPoint Presentation lies in its ability to present concepts related to Deep Compaction Techniques in a clear, systematic, and visually effective manner. Given the importance of understanding different deep compaction methods, utilizing PowerPoint Presentation ensures a more effective learning experience for students. By presenting diagrams, flow charts, images, equipment illustrations, and step-by-step procedures, students can easily understand the working principles and applications of various deep compaction techniques such as dynamic compaction, vibro-compaction, vibro-replacement, and compaction grouting. This visual and structured approach enhances students' understanding of the subject, improves their ability to relate theoretical concepts to practical ground improvement applications, and makes the information more clear, memorable, and easy to understand.

Details of the Implementation:

- The PowerPoint Presentation was prepared with relevant content, diagrams, images, examples, and step-by-step procedures related to Deep Compaction Techniques and presented to the students during the class.
- The students were instructed to carefully observe the presentation, understand the principles, methods, equipment, procedures, and applications of deep compaction techniques, and take notes based on their understanding.
- On the day of the activity, the PowerPoint Presentation was displayed and explained by the faculty. Students actively participated by observing the slides, answering questions, and discussing the various deep compaction methods such as dynamic compaction, vibro-compaction, vibro-replacement, and compaction grouting, along with their suitability for different soil conditions.

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Figure 1 Power point Presentation on Ground Improvement Techniques 19QA1A0126,20QA5A0107,20QA5A0110,20QA5A0117

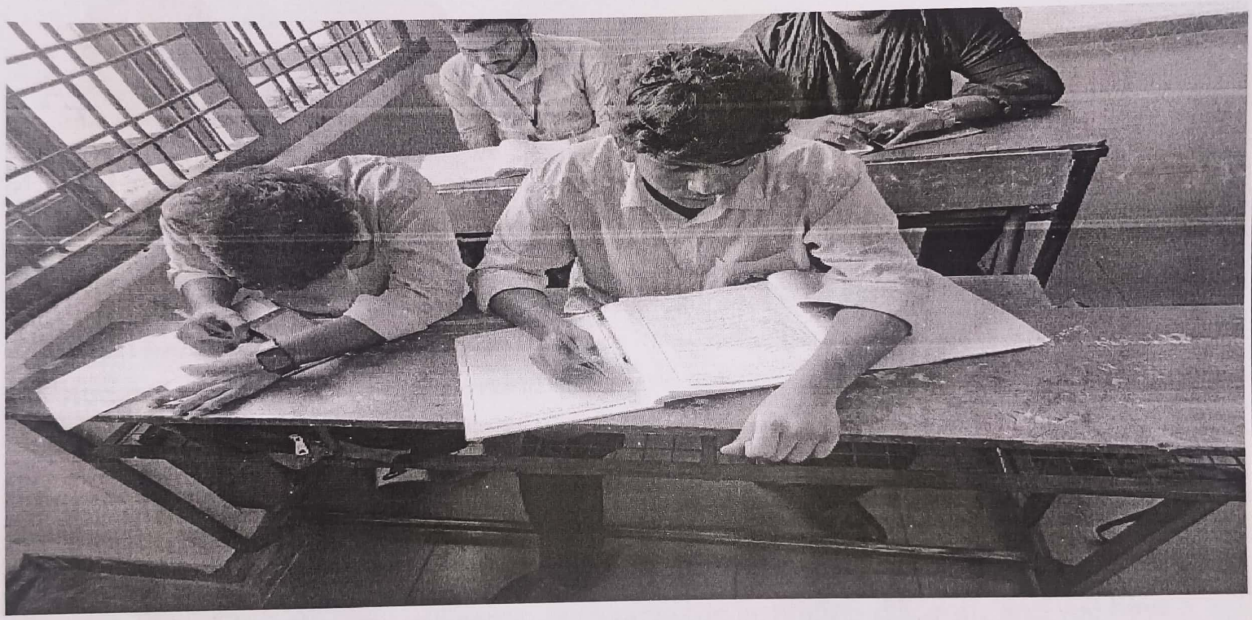


Figure: 2 Students Writing Notes on Ground improvement Techniques

Coordinator

Head of the Department

Head of the Department
Department of Civil Engineering
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College Code: QA

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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-(TLP) – Power Point Presentation– 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 Power Point presentation for the students. Power Point presentation 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 11-10-2022 between 11:05am to 12:45 pm of IV Year I 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

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DEPARTMENT OF CIVIL ENGINEERING

Date: 07-10-2022

CIRCULAR

This is to inform all the faculty members and students of the Department of Civil Engineering that the department is going to conduct an ICT-Based Learning Activity on the topic "Deep compaction Techniques" with the active participation of faculty members and students.

The programme is scheduled to be held on 11-10-2022 from 11:05 am to 12:45am. The activity aims to enhance the teaching-learning process through the effective use of Information and Communication Technology (ICT). The session will provide an interactive platform for students to understand the concepts through PowerPoint presentations, digital learning resources, videos, animations, simulations, and interactive discussions.

The programme will also encourage students to actively participate, share their ideas, clarify concepts, solve problems, and improve their subject knowledge through technology-enabled learning.

All the students of IV - I Semester who are interested in participating are requested to enroll their names with the concerned faculty member on or before 10-10-2023.

All concerned students are encouraged to participate actively and make the programme successful.

Head of the Department

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Copy to:
Circulate in all Civil Engineering classrooms.
Display on all Notice Boards.
Office Copy.

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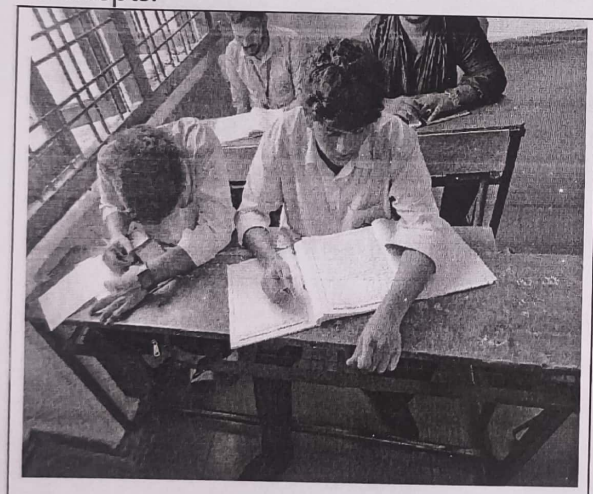
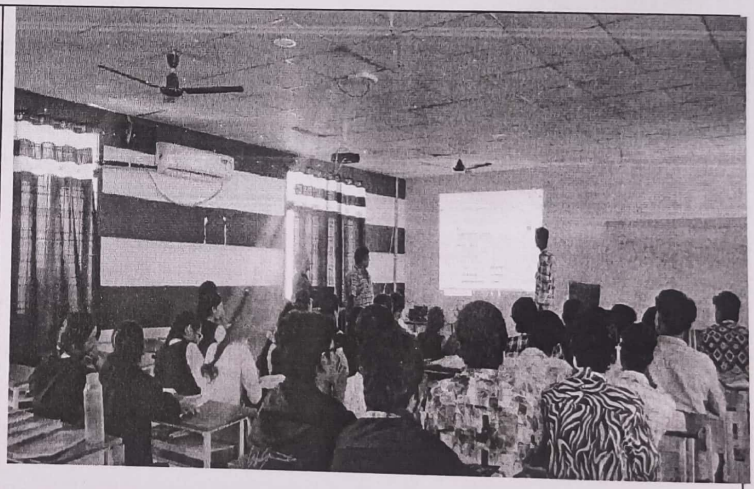
ICT-Based Learning:

ICT-Based Learning is a modern teaching and learning method that uses Information and Communication Technology (ICT) tools to make the teaching-learning process more interactive, effective, and student-centered.

Explanation:

In traditional classroom teaching, faculty mainly use textbooks, blackboards, and conventional teaching methods to explain the subject.

In ICT-Based Learning, faculty use digital technologies such as PowerPoint presentations, smart boards, educational videos, animations, simulations, online resources, virtual laboratories, and Learning Management Systems (LMS) to explain concepts.

	
Writing notes on Deep Compaction techniques	19QA1A0126,20QA5A0107,20QA5A0110,20QA5A0117

Students can access digital learning materials, participate in interactive activities, solve problems, take online assessments, and learn using technology-supported resources.

It Works

1. Before Class:
Faculty prepare ICT-based learning materials such as PowerPoint presentations, videos, animations, digital notes, simulations, and relevant online resources.

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2. During Class:

Faculty explain the topic using ICT tools such as a projector, smart board, multimedia presentations, videos, animations, simulations, and digital resources.

Students actively participate through discussions, demonstrations, problem-solving activities, and interactive questions.

3. After Class:

Students access digital learning materials, complete online assignments or quizzes, and revise the concepts using the resources provided by the faculty.

It is Useful

- Makes teaching and learning more interactive and interesting.
- Helps students understand complex concepts through visualization and animation.
- Helps students learn at their own pace.
- Improves conceptual understanding and subject knowledge.
- Provides opportunities for online assessment and immediate feedback.
- Supports both classroom and blended learning.

Example – Civil Engineering

A faculty member teaching Quantity Survey & Evaluation can explain Preparation of Detailed and abstract estimates using a PowerPoint presentation, animation, educational video, and flow simulation. Students can observe the relationship between pressure, velocity, and elevation visually. The faculty member can then conduct an online quiz to assess student understanding.

Similarly, subjects such as Surveying, Structural Engineering, Geotechnical Engineering, Transportation Engineering, Environmental Engineering, and Concrete Technology can be effectively taught using ICT tools.

ICT Tools Used

- PowerPoint Presentation
- Smart Board / Interactive Panel
- LCD Projector

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- Educational Videos
- Animations
- Online Learning Platforms
- Online Quizzes and Assessments
- Digital Notes and E-Resources

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DEPARTMENT OF CIVIL ENGINEERING

Summary Report
On
Power Point Presentation

The Department of Civil Engineering Conducted a Power Point Presentation on(Ground Improvement Techniques). 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 24.

Winner Notification

S. No	Roll Number	Name Of The Student
1	19QA1A0126	J. Madavi
2	20QA5A0107	B. Prashanth
3	20QA5A0110	C. Laxman
4	20QA5A0117	G. Sharanya

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