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: 2023 – 24

Course	**Quantity Survey & Valuation**	Year / Semester	**IV/ I**
Topic	**Preparation of Detailed and Abstract Estimates**	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 in a clear, systematic, and visually effective manner. Given the importance of understanding different water treatment units, utilizing PowerPoint Presentation ensures a more effective learning experience for students. By presenting diagrams, flow charts, images, and step-by-step processes, students can easily understand the functioning of various treatment units such as screening, coagulation, sedimentation, filtration, and disinfection. This visual and structured approach enhances students' understanding of the subject, improves their ability to relate theoretical concepts to practical applications, and makes the information more clear, memorable, and easy to understand memorable.

Details of the Implementation:

- The PowerPoint Presentation was prepared with relevant content, examples, tables, formulas, and diagrams related to the preparation of detailed and abstract estimates and presented to the students during the class.
- he students were instructed to carefully observe the presentation, understand the procedure for preparing detailed estimates and abstract estimates, 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 steps involved in quantity calculation, rate analysis, and preparation of the final estimated cost.

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Figure1 : Power point Presentation Preparation of Detailed and Abstract estimate by M. Sathish

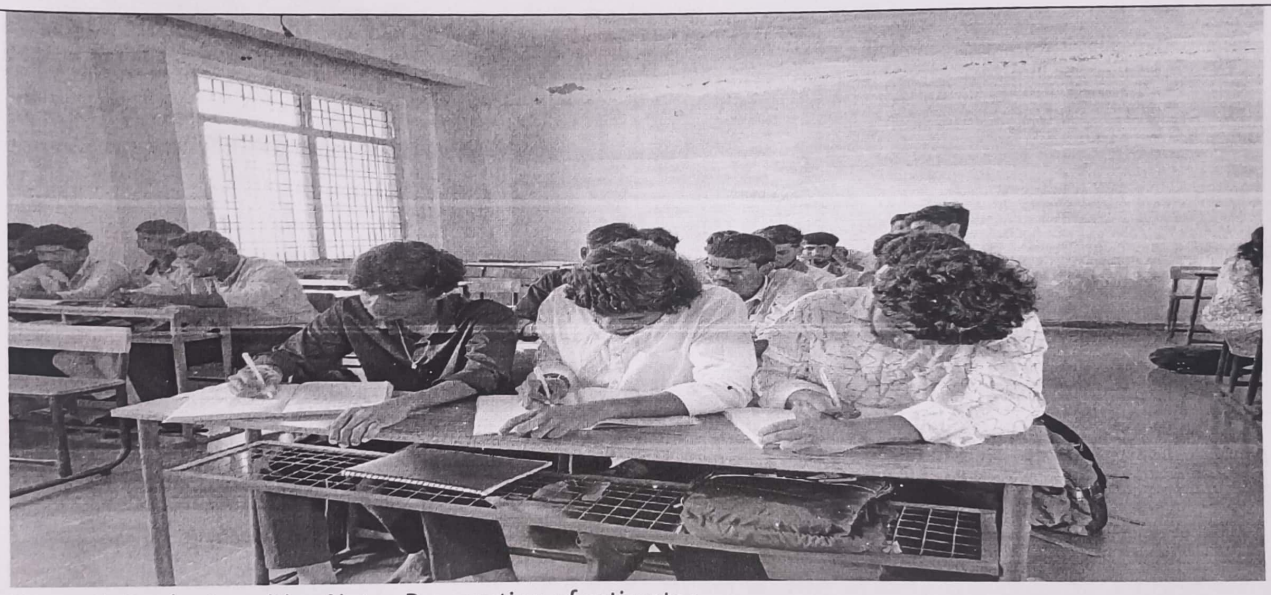


Figure 2: Students writing Notes Preparation of estimates

Coordinator

Head of the Department

Head of the Department
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Brilliant Institute of Engineering & Technology
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DEPARTMENT OF CIVIL ENGINEERING

Date: 10-08-2023

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) – 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 PowerPoint Presentation for the students. A PowerPoint Presentation is an effective teaching-learning activity that enables students to present and explain technical concepts using visual aids, diagrams, images, charts, and relevant examples. The activity provides an opportunity for students to improve their technical knowledge, communication and presentation skills, develop confidence, enhance their analytical and problem-solving abilities, and effectively share their ideas with their peers .We have scheduled the programme on 24-08-2023 from 9:15am to 10:55 am for the IV Year I Semester students. This activity will provide a good knowledge-sharing platform for students and encourage active participation and collaborative learning.

Hence, we kindly request you to grant permission to conduct the above Innovative Teaching-Learning Practice as scheduled.

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
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DEPARTMENT OF CIVIL ENGINEERING

Date: 21-08-2023

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 "Preparation of detailed and Abstract Estimates" with the active participation of faculty members and students . The programme is scheduled to be held on 24-08-2023 from 9:15am to 10:55 am.

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 B.Tech. I Semester who are interested in participating are requested to enroll their names with the concerned faculty member on or before 23-08-2023 .

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

Head of the Department

Head of the Department
Department of Civil Engineering
Brilliant Institute of Engineering & Technology
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Copy to:

1. Circulate in all Civil Engineering classrooms.
2. Display on all Notice Boards.
3. Office Copy.

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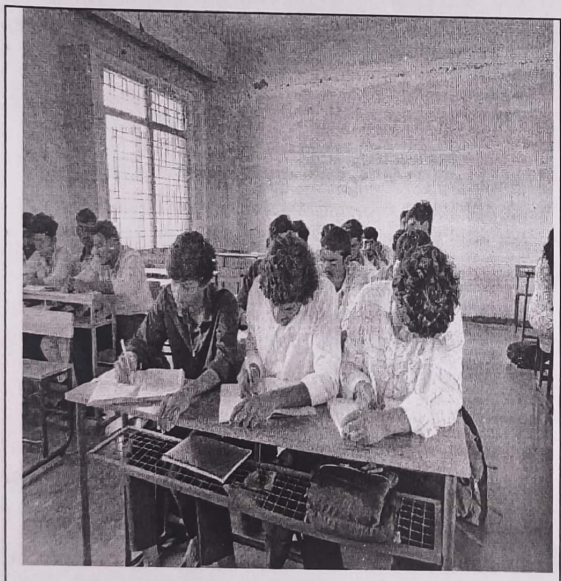
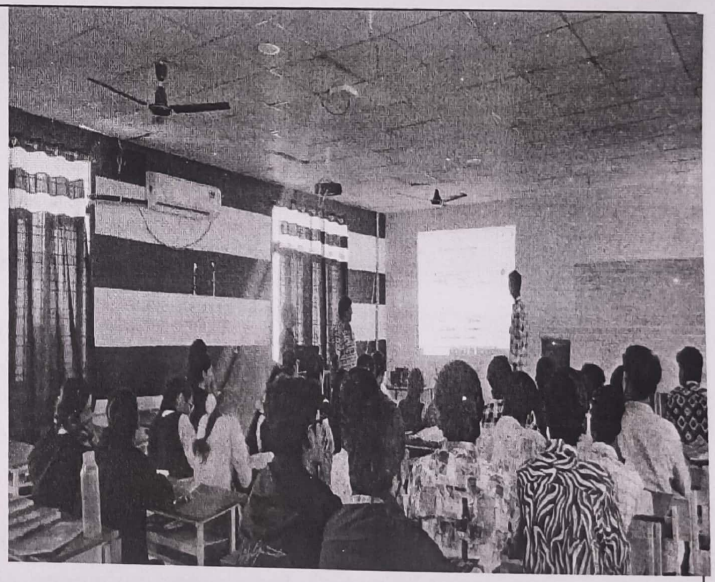
ICT-Based Learning:

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.

	
Students writing notes Quantity surveying & Valuation on types of estimates	Power point presentation by M.Satish on Quantity Survey & Valuation

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

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DEPARTMENT OF CIVIL ENGINEERING

It Works

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

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.
- Provides easy access to digital learning resources.
- Encourages active participation and student-centered learning.
- 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.

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DEPARTMENT OF CIVIL ENGINEERING

ICT Tools Used

- PowerPoint Presentation
- Smart Board / Interactive Panel
- LCD Projector
- Educational Videos
- Animations
- Online Learning Platforms
- Learning Management System (LMS)
- Virtual Laboratories
- Simulation Software
- Online Quizzes and Assessments
- Digital Notes and E-Resources

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Head of the Department

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DEPARTMENT OF CIVIL ENGINEERING

Summary Report

On

ICT Based Learning

The Department of Civil Engineering conducted an ICT-Based Learning session on the subject "Quantity Surveying and Evaluation." The main objective of the activity was to enhance the technical knowledge, conceptual understanding, problem-solving ability, and active participation of students through the effective use of Information and Communication Technology (ICT).

The session was conducted using various ICT tools such as PowerPoint presentations, digital learning resources, videos and interactive discussions. Important concepts related to quantity estimation, measurement of quantities, preparation of estimates, rate analysis, valuation, and cost estimation were explained using ICT-enabled teaching methods.

The activity encouraged students to actively participate in discussions, numerical problem-solving, knowledge sharing, and technical interactions. The use of digital content and visual presentations helped students understand estimation procedures and evaluation concepts in an effective and practical manner.

The activity was mapped to the relevant Program Outcomes (PO1, PO2, PO3, PO5, and PO10) related to engineering knowledge, communication skills, teamwork, problem-solving, and the use of modern engineering tools.

A total of 32 students actively participated in the ICT-Based Learning activity. The students demonstrated enthusiasm and interest in learning the subject through technology-enabled teaching methods.

On this occasion, Dr. Shaik Rusthum, Principal, motivated the students to participate actively in innovative academic activities. He appreciated the students' enthusiasm and encouraged the faculty members to adopt more ICT-enabled and interactive teaching-learning practices for improving students' technical competence and academic performance.

The programme concluded successfully with positive feedback from students and faculty members. The ICT-Based Learning approach proved effective in improving student engagement, conceptual understanding, knowledge sharing, and problem-solving skills in Quantity Surveying and Evaluation.

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DEPARTMENT OF CIVIL ENGINEERING

Winner Notification

S.NO	Roll Number	Name Of The Student
1	20QA1A0104	C. Manohar
2	20QA1A0107	J. Swami
3	20QA1A0115	Md.Farhan
4	20QA1A0124	R.Sohail

Coordinator

Head of the Department

Head of the Department
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