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	**Environmental Engineering**	Year / Semester	**III/ II**
Topic	**Water Treatment Units**	Innovative Method Chosen	**Brain storming**

Water Treatment Units

Water treatment units are a series of physical and chemical processes used to remove impurities, suspended particles, microorganisms, and other contaminants from raw water. They play an important role in converting raw water into safe and suitable water for domestic and drinking purposes. The major treatment units include screening, aeration, coagulation, flocculation, sedimentation, filtration, and disinfection.

Brainstorming activities give students an opportunity to generate ideas, share their knowledge, and discuss different aspects of a given topic. In a brainstorming session on water treatment units, students can identify the purpose and working principles of different treatment units and discuss their applications in real-life water treatment plants. Students can work individually or in groups to suggest suitable treatment processes for removing specific impurities from water. Brainstorming helps students develop critical thinking, problem-solving, communication, and decision-making skills while understanding the practical importance of water treatment units.

Details of the Implementation:

Faculty explained the concept of water treatment units. Students actively engaged in the learning process by sharing their ideas and knowledge.

They participated in a brainstorming activity to identify the different water treatment units and understand their functions in the water treatment process.

It promotes critical thinking, problem-solving, active participation, and decision-making skills. Ex. Welcome. Students were asked to come in front of the classroom and participate in the brainstorming activity. Student 1 identified the key role of Screening, Student 2 explained the key role of Sedimentation, and Student 3 explained the key role of Filtration and Disinfection in water treatment.

Benefits:

Students actively engage in the learning process.
Students actively engage in the learning process by sharing their ideas and knowledge about water treatment units.
They gain practical understanding of different water treatment processes and their applications in real-world water treatment plants.

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It promotes critical thinking, problem-solving, active participation, and decision-making skills among students.

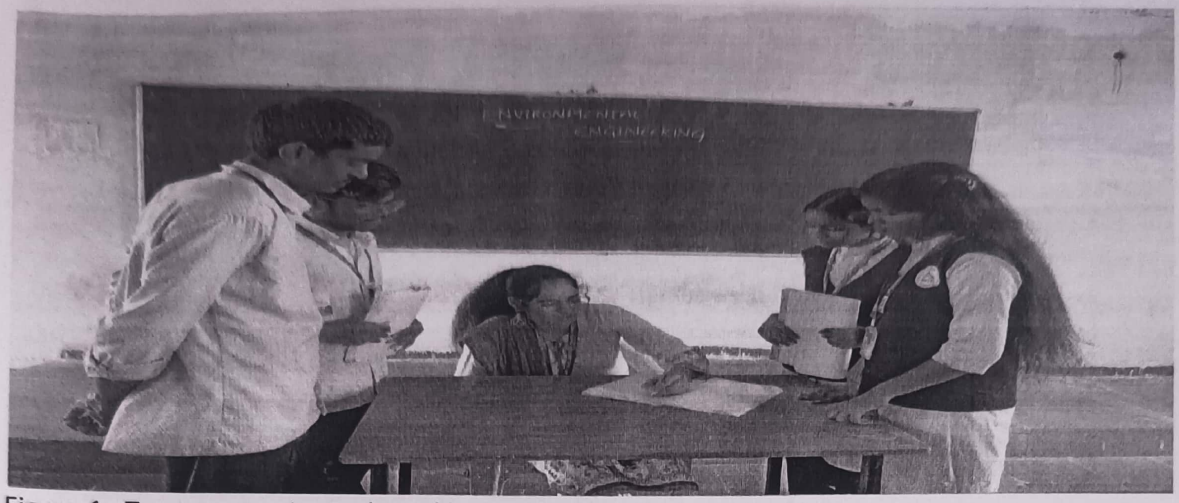


Figure 1: Treatment units Explained by Faculty Ms.J.Rachana Reddy

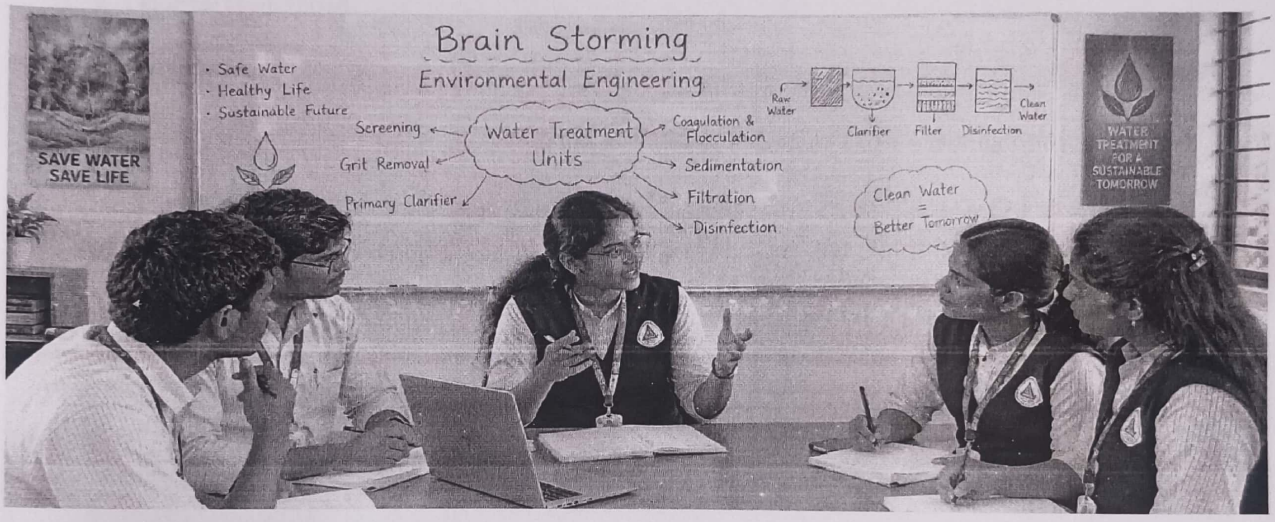


Figure 1: Students Performed in Class 22QA5A0109 (K.Laya), 22QA5A0117(M.Sharadha), 22QA5A0102(B.Devender), 22QA5A0105(B.Srikanth), 22QA5A0120(P. Rishitha)

Coordinator

Head of the Department

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

Date: 27-04-2024

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 09-05-2024 between 11:05am -12:45 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
Brilliant Institute of Engineering & Technology
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DEPARTMENT OF CIVIL ENGINEERING

Date: 04-05-2024

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 Environmental Engineering on 09-05-2024 between 11:05am -12:45 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 II Semester and who are interested to participate enroll their names with concerned faculty on or before 08-05-2024.

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
Office Copy

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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.

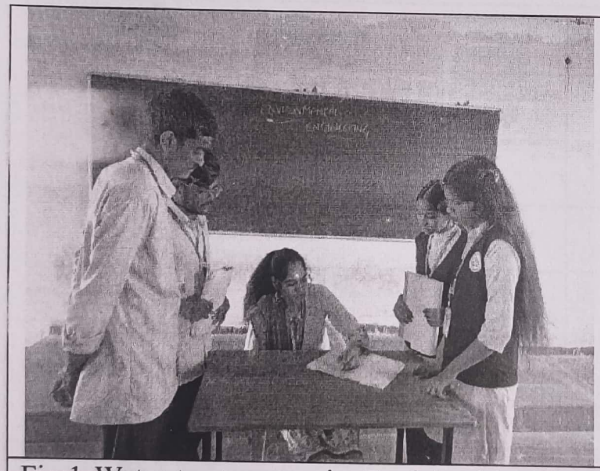


Fig:1 Water treatment units Explained by Faculty Ms.J.Rachana Reddy



Fig : 2 Students Performed in Class

Purpose

1.Encourages creative thinking and generation of new ideas.
2. Improves problem-solving and analytical skills.
3. Enhances communication and discussion skills.
4. 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 topic **(Water Treatment Units).** 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 EE. It maps to our (PO1, PO2, PO3, PO4, PO6) 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 33.

Winner Notification

S. No	Roll Number	Name Of The Student
1	22QA5A0109	K. Laya
2	22QA5A0117	M. Sharadha
3	22QA5A0102	B. Devender
4	22QA5A0105	B. Srikanth
5	22QA5A0120	P. Rishitha

Coordinator

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