



DEPARTMENT OF CIVIL ENGINEERING

ACTIVITY BASED LEARNING (2025-2026 ODD)

Course Code & Course Title: 19CE516 & GROUND IMPROVEMENT TECHNIQUES

Year/Sem/Branch: II & III/III & IV/CIVIL

Name of Faculty & Designation: Dr.J.Herbert Sinduja

Unit Title: EARTH REINFORCEMENT

Topic: Reinforcement material and Mechanism

Bloom's Taxonomy Level: Analyse

Sl.No	Title	Description
.	Concept	To understand the basic principles, types, and identification of earth reinforcement techniques used to improve soil strength and stability. To know the mechanisms by which reinforcement materials interact with soil to enhance load-carrying capacity, reduce deformation, and control failure.
	Challenges Faced	Students initially had limited familiarity with identifying different earth reinforcement techniques and understanding their interaction mechanisms through conventional lecture-based teaching. However, when the concept was delivered as an activity, they became more engaged, discussed various reinforcement materials, and collaboratively analyzed how these systems improve soil stability and performance.
	Activity Name	JIGSAW PUZZLE GAME
	Activity Description	Each team will be given one image-based puzzle piece showing a soil reinforcement application. They must identify the technique and correctly match it with the corresponding text description. After matching, the team will explain the function and mechanism of the selected reinforcement method. They will then answer the questions asked to justify their understanding. Teams providing clear, accurate explanations will receive additional credit.
	Feedback from Learners	- Strongly engaged in recognizing various soil reinforcement methods through the puzzle activity. - Liked connecting the images with the appropriate explanations to understand their real use. - Appreciated the teamwork, which helped them exchange ideas and strengthen their understanding. - Became more comfortable describing how each reinforcement technique functions. - Felt the activity made the concept more interactive, practical, and easier to grasp.

	Feedback by the Faculty • Students actively engaged in identifying soil reinforcement techniques using the puzzle pieces. • They demonstrated good analytical skills while matching images with accurate descriptions. • The activity encouraged meaningful discussions and improved their conceptual clarity. • Group participation enhanced teamwork, communication, and problem-solving abilities. • Overall, the activity effectively strengthened their understanding of soil reinforcement mechanisms and applications.
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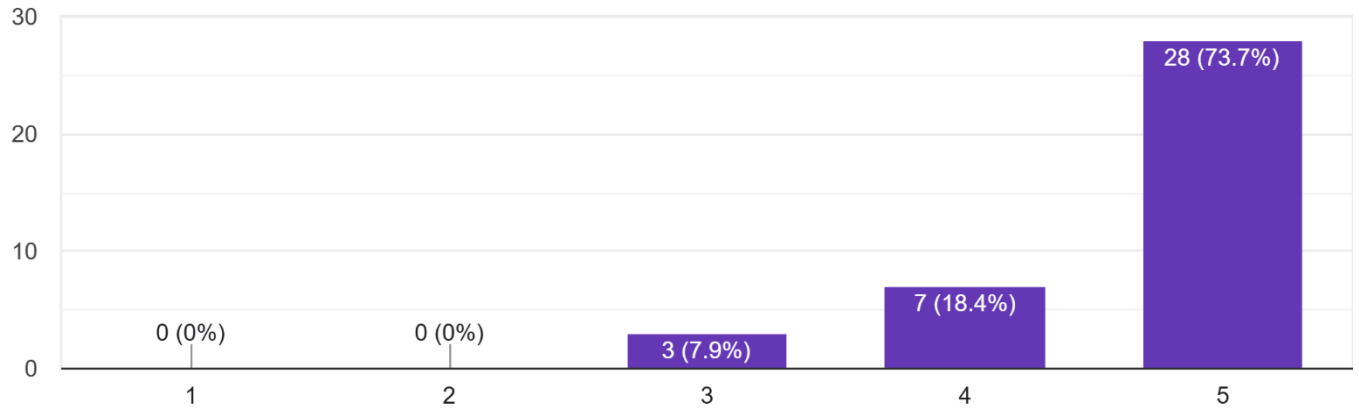
Feed back Analysis Report Chart

Feed back Questions:

1. HOW WOULD YOU RATE THE OVERALL EVENT?
2. WAS THE EXPLANATION OF SOIL REINFORCEMENT METHODS CLEAR?
3. HOW WOULD YOU RATE YOUR OVERALL EXPERIENCE WITH THIS EVENT?
4. DID YOU UNDERSTAND HOW TO CHOOSE THE RIGHT REINFORCEMENT TECHNIQUE ?
5. HOW CONFIDENT ARE YOU IN APPLYING SOIL REINFORCEMENT CONCEPTS ?

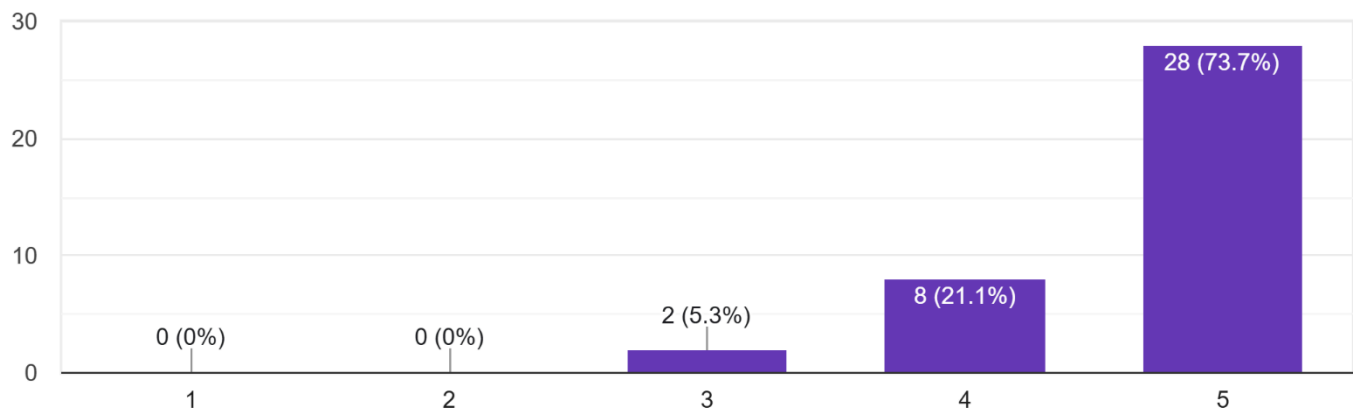
DID YOU UNDERSTAND HOW TO CHOOSE THE RIGHT REINFORCEMENT TECHNIQUE ?

38 responses



HOW CONFIDENT ARE YOU IN APPLYING SOIL REINFORCEMENT CONCEPTS ?

38 responses



Signature of the Course Faculty

Signature of HOD

NOTE: Evidences/Proofs

1. Proof 1

<https://drive.google.com/file/d/151YG4iJYkKXrAHNbcd6PLXv9qhz-rOD0/view?usp=sharing>

2. Proof 2

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DEPARTMENT OF CIVIL ENGINEERING

Case Study Activity – Construction Site Safety Program

S.No	Reg. No	Name	Marks
Team 1	212223030020	MATHAVAN N	100
	212223030014	HEMA BALA GANESH N	100
	212223030015	JANDA HEMANTH	100
	212223030006	CHEZIAN A	100
	212223030022	MOHAMED APSAR S	100
	212223033002	SUNDARAM S	100
Team2	212223030013	HARSHINI L	98
	212223030005	AVINASH J	98
	212223030009	DINESH KUMAR M	98
	212223030024	MOHAN RAJ V	98
	212223030004	ARUNKUMAR K	98
	212223030016	KAMARAJ T	98
Team 3	212223030003	ARCHANAA R B	95
	212223030018	LEKASRI K	95
	212223030026	PRAVEENA J	95
	212224030009	GOVARTHANA R	95
	212224030025	SANJANA A	95
Team 4	212224030002	ALAN DOMINIC R	85
	212224030004	BENNIEL P	85
	212224030006	DHARSHANA N	85
	212224030010	HAREESH V	85
	212224030015	KARTHEESH M J	85
	212224030016	KARTHIC J V	85
	212224030019	MADESHWAR S B	85
Team 5	212224030021	NITHISH SHINHA A	96
	212224030023	RUBAN K	96
	212224030007	EZHILAN N	96
	212224030028	VIJAY GOPALA ADHITHYAA J R	96
	212224030024	SACHIN CHANDRU S	96
	212224030003	ANTO AAKASH M	96
Team 7	212223030023	MOHAMMED AL DHAYYAAN ABDULLAH A	75
	212223033001	ARUN KUMAR S	75
	212223030030	SURJITH V	75
	212223030027	PREM KUMAR M	75
Team 8	212224030011	INIGO FRAN A	80
	25018082	Balaji V	80
	212224030018	LOKESH BALA B	80
	212224030013	JOSHUA BENNY K C	80
	212224030017	LOKESH J	80
	212224030026	SHASHWATH G S	80
	ABSENTEES		

	212223030001	ANANGI VIJAY VISHAL	AB
	212223030002	ARAVIND KRISHNA SARAVANAN	AB
	212223030008	DHAMODHARAN J	AB
	212223030011	GODAVARTHY ABHILASH	AB
	212223030012	HARSHAVARDHAN P	AB
	212223030017	KANNAN M	AB
	212223030025	NAVEEN MEKALA	AB
	212224030001	AKASH NAGARAJAN	AB
	212224030005	BLESSON J	AB
	212224030008	GNANA SHAKTHI DHARAN T	AB
	212224030012	JEBIN RAJ J	AB
	212224030014	KALANGINATHAN S	AB
	212224030020	NEERAJ VARDHAN R J	AB
	212224030022	ROSHAN KIRUTHIC S	AB

ACTIVITY PHOTOS



