

GURUTVAKARSHAN'22

Technical Event

Soil-O-Strength

EVENT RULES

No of Maximum Participants: 3

No of Minimum Participants: 2

No of Winners: 2 teams (1st , 2nd)

Event Time Limitation: 30 Min.

Event Description:

- Identify Slope stability and soil failure.
- Observe Soil slope failure by using Concrete Testing Machine.
- Evaluation sheet is given by Faculty coordinator at the time of an event.

General Rules:

- Empty cement plastic bag, 5 kg Sand, 1 kg clay and 500 ml water will be provided by Host institute at a time of event.
- One 15cmx 15cmx15cm Concrete mould will be given for compaction.
- Mixing of given material & Layering & Compaction will be done by group.
- Empty Cement bags used as Geosynthetic material layer by layer.
- Use minimum material to achieve maximum strength of soil.
- Certificate will be given after the completion of event to all participants.

Team Specification:

- Student have to come with valid college identity cards of their respective institute at the time of reporting.
- Once coordinator verifies the sheet, teams are not allowed to do any change in the sheet.

Level Description:

Level 1 (Mixing and compaction)

In this level, material will be provided to participant, they will do mixing and layering empty cement bag and compaction by own method. Fill the mould up to top.

Level 2 (Evaluation of Soil Strength)

In final round, Mould one face will be removed and load test done by Compression Testing Machine.

Evaluation Criteria:

- Maximum load carrying capacity will be win.
- Soil failure during testing or mould disturbed soil and collapsing soil will be disqualify the group.
- Evaluation will be also done with respect to minimum quantity of material use and waste of material.