

# **GURUTVAKARSHAN'22**

## **Technical Event**

### **Soil-O-Strength**

#### **EVENT RULES**

**No of Maximum Participants: 3**

**No of Minimum Participants: 2**

**No of Winners: 2 teams (1<sup>st</sup> , 2<sup>nd</sup> )**

**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.