

Yashoda Shikshan Prasarak Mandal's,

Yashoda Technical Campus Faculty of Engineering,

S. No. 242/1, NH4, Wadhe, Dist. Satara, 415015, Maharashtra

DEPARTMENT OF CIVIL ENGINEERING

Ref. No. Date: 01/11/2023

Virtual Lab Simulation on Consolidation and Shear Strength Practical Experiment

Course Code and Name: (BTCVL509) Geotechnical Engineering Laboratory

Date: 1/11/2023 **Duration**: 2 hr

Participants: TY B-Tech Students

Group Size: 16

Objective of the Activity: To determine the settlements due to primary consolidation of soil by conducting one dimensional test to determine:

- 1. Rate of consolidation under normal load
- 2. Degree of consolidation at any time
- 3. Pressure-void ratio relationship
- 4. Coefficient of consolidation at various pressures
- 5. Compression index

List of Topics:

- 1. Consolidation and Compaction of soil.
- 2. Shear Strength of Soil.

Process: As per the Procedure steps given in virtual lab students carried out the same.

Evaluation Criteria

Following parameters used to evaluate the group performance:

- a) Communication skills
- b) Content knowledge
- c) Teamwork and collaboration
- d) Critical thinking and problem-solving

Outcomes Achieved:

- Students were able to understanding concepts through simulation.
- Students were able to problem identification and solving in between the practical procedure.
- Students were able to design/ Development of Solutions to the problems identified.
- Students were able to collaborative discussion and observations effectively in a group.
- Students were able to articulating concepts and ideas while experiment simulation.



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Students doing Practical Specimen and discussion of results