Course Objective and Outcome Form
Department of Civil and Environmental Engineering
School of Engineering and Physical Sciences
North South University, Bashundhara, Dhaka-1229, Bangladesh

Summer 2018

Course Number and Title: CEE 240L Soil Mechanics Lab

Credits: 1

Type: Laboratory

Prerequisites:

Contact Hours: Lectures and Lab works 3hr/week

Instructor: **Md. Tousif Rahman**

Lecturer

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Course Description (*Catalog Description***):**

Laboratory Tests of Soil on: Field identification; Specific gravity of soil solids; Sieve analysis; Hydrometer analysis; Atterberg Limits; Compaction; Maximum density and minimum density of sandy soil; Unconfined compression; Direct shear; Permeability by constant head and falling head methods; Consolidation.

Course Objective:

The objective of this course is

To conduct a series of experiments in the laboratory to understand soil type and strength.

Course Outcomes (COs):

Upon successful completion of this course, students will be able to

CO 1. To be able to conduct experiments and evaluate generated data to understand the types of soil available, how to identify sand and clay, what are the experiments to evaluate the soil strength and to find parameters for engineering calculation.

Mapping of CO-PO

Sl.	CO Description	Program Outcome	Bloom's taxonomy domain/level *(C: Cognitive P: Psychomotor A: Affective)*	Delivery methods and activities	Assessment tools
CO1	To be able to conduct experiments and evaluate generated data to understand the types of soil available, how to identify sand	**Po 4**	P2	Lectures and Experiments	Viva & Exam

	and clay, what are the experiments to evaluate the soil strength and to find parameters for engineering calculation				

Mark Distribution

Attendance	20%
Lab Report	40
Final Written Exam	40
Total	**100%**

Course Plan

Week	Task	Assessment Tool
1-10	Lab work	Report
Week 12	Written Final Exam	Exam