

SILVER OAK COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF CIVIL ENGINEERING

A site visit was organized on “Soil Mechanics” on 27th August, 2018 at Gujarat Engineering Research Institute (GERI), Gandhinagar. Lect. Amita Shah, Asst. Prof. Rewati Marathe and Asst. Prof. Parth Danani and Asst. Prof. Kashyap Panchal from Civil Department have attended the visit with students of 5th semester, SO CET.

Subject	:	Soil Mechanics & Highway Engineering
Date	:	27-08-2018
Day	:	Monday
Timings	:	10:00a.m. to 2:30 p.m.
Nos. of faculties	:	4 faculties (Lect. Amita Shah, Asst. Prof. Rewati Marathe and Asst. Prof. Parth Danani and Asst. Prof. Kashyap Panchal)
Nos. of Students	:	80 students of 5 th semester
Session Conducted by	:	Shri D. R. Patel, Retd. Exe. Engineer & Staff of GERI, GERI Gandhinagar
Site Visit location	:	Gujarat Engineering Research Institute, Sector-15, Gandhinagar

Introduction of Institute:

Gujarat Engineering Research Institute (GERI) is one of the leading state research institutes in the country. It had the distinction of being adjudged as one of the best research stations in the country, by Central Board of Irrigation and Power (CBIP) in the year 1989. The institute aims at providing research and development inputs to the activities of Gujarat State in the fields of Water Resources and Roads and Buildings. The activities of the institute are centered around investigation and testing of Construction Materials, Research and Development, consultancy and training in various areas of Material Testing, Soil Mechanics, Geo-mechanics, Engineering Geology, Hydraulic Model Study, Sedimentation Survey, Road Research Study. The institute extends its activities to both Government and Public/Private sector bodies

Session:

During the building process, one thing should never be overlooked: The Soil. Such is a science called soil mechanics. It is an area in civil engineering that tackles the characteristics of soil, which encompass the concerns, such as the strength, composition, and moisture adaptability. Basically, it is one of the many engineering sciences that attempt to resolve some geological problems.

With its scope, soil mechanics is certainly important in building foundations, regardless of the size of the structure.

Shri D. R. Patel explained the importance of GERI to students. He gave detailed information of all the tests conducted by GERI. Various tests were practically demonstrated by him and his staff. The tests performed by him were:

1. Standard Proctor test

2. Consolidation test
3. Direct Shear Test
- 4 Constant head permeability test
5. Liquid Limit and Plastic limit
- 6 Triaxial Test
- 7 Marshall Stability Test
- 8 Ductility Test

A part from Soil Mechanics a brief explanation of material testing laboratory was also given to students.

The best part of visit was that Shri D. R. Patel though Redt officer took keen interest to remain present during the visit and he explained all the test in his pleasing style giving examples of practical experiences. The entire staff of GERI was also too cooperative and it literally expunged our impression of Government Institutions. Due to lucid style of Shri D. R. Patel sir the students were attentive during entire session. All the students were immensely satisfied and many commented: “We never had such learning experience”. It can be confidently said that this visit must have surely opened the doors for many students to peruse their future career in Soil Mechanics.

PHOTOGRAPHS OF SITE VISIT









