



IGS CET STUDENTS CHAPTER ANNUAL REPORT

YEAR 2022 - 2023

THE ACTIVITY SUMMARY OF IGS CET STUDENTS CHAPTER DURING THE ACADEMIC YEAR OF 2022-2023

CONTENTS

INTRODUCTION	3
EVENTS ORGANISED	4
EVENT 1: INTERACTIVE SESSION WITH DR. K. BALAN	4
ABOUT THE EVENT	
EVENT 2: ONE DAY WORKSHOP ON PLAXIS SOFTWARE	6
ABOUT THE EVENT	
EVENT 3: PRACTICE IN TESTING OF GEOTEXTILES	8
ABOUT THE EVENT	
EVENT 4: INTERACTION WITH INVENTORS	10
ABOUT THE EVENT	
EVENT 5: VISIT TO STATE SOIL MUSEUM, THIRUVANANTHAPURAM	13
ABOUT THE EVENT	
CONCLUSION	16

INTRODUCTION

The Indian National Society of Soil Mechanics and Foundation Engineering was established in 1948. In 1970 the name Indian Geotechnical Society (IGS) was adopted. The society is affiliated to International Society from its inception. The First chapter in Kerala was formed in the year 2009. To promote closer interaction amongst geotechnical engineers spread all over the country, local chapters of the Society were introduced in 1968. IGS Thiruvananthapuram chapter is functioning under the leadership of chairman Dr. N. Unnikrishnan and Hon. Secretary Dr. Jayamohan J. In order to motivate students to give exposure to careers and opportunities in this area and also develop leadership skills among students which will help them in their career. Student chapters provide an opportunity for bachelor's degree students of 2nd, 3rd and 4th year in Civil Engineering and Master's Degree students of Geotechnical Engineering program. Activities such as seminars/workshops/lectures conducted by student chapters under the guidance of faculty coordinators from the Institutions/colleges and the members of local chapters will significantly help the student community.

- Dr. Manju G.S. - Mentor
- Sishan Sharafudeen – Secretary
- Anju Ratheesh – Joint Secretary
- Krishna J S – Treasurer

EVENT ORGANISED

EVENT 1: INTERACTIVE SESSION WITH DR. K.BALAN

ABOUT THE EVENT

The “Interactive session with Dr. K. Balan” was organized by Indian Geotechnical Society, CET Students Chapter, Trivandrum. Dr. K. Balan is the former Professor in Department of Civil Engineering, College of Engineering, Trivandrum and the founder chairman of Indian Geotechnical Society Trivandrum chapter. The event was attended by more than 20 participants from Geotechnical Department, College of Engineering Trivandrum. The event was conducted on 22nd September 2022.

The session was a talk on the importance of Geotechnical engineering, The talk emphasized on various important aspects and basics of geotechnical engineering and a discussion regarding the challenges faced by a Geotechnical Engineering consultant and possible solutions. He shared his experience as geotechnical Consultant to Semi-High-Speed Rail (Silverline Project) of Kerala Rail Development Corporation (K-Rail), Kerala Infrastructure Investment Fund Board (KIIFB), Govt. of Kerala, Kerala Land Development Corporation Ltd., Govt. of Kerala, and Uralungal Labour Construction Cooperative Society(ULCCS). Project Management Committee member for Pattissery Dam (Rockfill and Concrete Dam) of Kerala PWD, Irrigation Department. Participants really enjoyed the interactive session and found the sessions to be very informative.

The photos of the event is presented below.



EVENT 2: ONE DAY WORKSHOP ON PLAXIS SOFTWARE

ABOUT THE EVENT

One day workshop on Geotechnical engineering software Plaxis 3D was organised by the Indian geotechnical society CET student chapter. The workshop was conducted by InterCAD on 21st October 2022 at Seminar hall 2 of Dept of Civil Engineering, College of Engineering TVM. PLAXIS is a computer program that performs finite element analysis within the realm of Geotechnical engineering, including deformation, stability and water flow.

The workshop was meant to give an introductory class about the PLAXIS 3D to students which might be useful for their projects. The programme was inaugurated by Dr. Anil R, Head of the department, Dept of Civil engineering. The event was well attended with a total of 50 students.

College of Engineering Trivandrum
Dept of Civil Engineering

ONE DAY WORKSHOP

Modelling and Computing for Geotechnical Engineering- PLAXIS

Date: 21.10.22
Session 1: 9.30am to 12.30pm
Session 2: 1.30pm to 3.30pm

Venue: Seminar hall 2
Dept. Of Civil Engineering (CET)

ORGANISED BY
Indian Geotechnical Society
CET Students Chapter

SPONSORED BY
InterCAD systems pvt. ltd.
TECHNOLOGY UNLIMITED

FOR MORE DETAILS CONTACT:
8281431711, 7338938126
REGISTER AT: [HTTP://SURL.LI/DJNNN](http://surl.li/djnnn)

The College of Engineering, Trivandrum was established in 1939 as the first Engineering College in the then Travancore State. The first classes were started on 3rd July 1939 during the reign of the Travancore King, Sri Chithira Thirunal Balarama Varma and as the head of the then Travancore state he deserves his share of credit in the establishment of the college. Initially the College was housed in the former office and bungalow of the Chief Engineer (present PMG Office). Maj T.H. Mathewman, a Britisher was the first Principal. Started as a constituent College of Travancore University, the College had an initial intake of 21 students each for Degree and Diploma courses in Civil, Mechanical and Electrical branches.

CET IGS CHAPTER

The CET student chapter of Indian Geotechnical Society was inaugurated on 17th February 2018 by Prof. (Dr.) G.L. Sivakumar Babu, President of IGS.

This CET Student Chapter aims at providing budding geotechnical engineers a unique platform to share and discuss their ideas and also to draw inspiration from eminent people in the Geotechnical Community.

About the program

This event is an introductory class about the software PLAXIS organised by Indian Geotechnical Society (CET Student chapter) and conducted by InterCAD.

PLAXIS

PLAXIS is a computer program that performs finite element analysis within the realm of geotechnical engineering, including deformation, stability and water flow.

Poster of the Event



Inauguration of the Event



Participants of the Programme

EVENT 3: PRACTICE IN TESTING OF GEOTEXTILES

ABOUT THE EVENT

On October 21st 2022, the Indian Geotechnical society CET Student chapter was conducted a geotextile lab workshop as an introduction for the testing of geotextiles. Dr.Unnikrishnan N,Professor, Department of Civil engineering, CET delivered an introduction class for the geotextiles and their application in Geotechnical engineering. Lab instructor took the classes for the participants and introduced various equipments for the testing of geotextiles. It helped the participants in the way of supplement understanding in the field of geotextiles.The event was successfully conducted and received great response from the participants.

IGS-CET STUDENTS CHAPTER ANNUAL REPORT



EVENT 4: INTERACTION WITH INVENTORS

ABOUT THE EVENT

Indian Geotechnical Society CET student chapter, conducted an Interactive session “Interaction with Inventors ” on October 9th 2022 at Seminar hall 2 of Department of Civil Engineering,CET. A patent was obtained to CET for the invention of Coir fibre latex composite sheets which are the modern products of Coir Bhoovastra using for the road construction. Dr. Jayasree P K (Professor, Dept of Civil Engineering, CET), Dr. Balan K, (Former Professor of Dept of Civil Engineering,CET), Sumesh C(Former PG Student, CET), Anand C J (Former PG Student,CET) were the inventors behind this great invention.The event was organised for sharing experiences of inventors behind the invention with the students of Geotechnical Engineering Department. The session inspired and motivated all the participants in the session.





EVENT 5: VISIT TO STATE SOIL MUSEUM, THIRUVANANTHAPURAM

ABOUT THE EVENT

A group of Mtech students from the first and final year went on a field trip to State Soil museum, Thiruvananthapuram. Total of 34 students participated in this exciting excursion. The trip was organized to provide the students with an opportunity to learn about the different types of soil and the role they play in our environment. This museum is therefore the first kind in the world with largest collection of soil monoliths and display materials.

Upon arrival at the museum, the students completed the registration process and were then guided through the exhibits by an experienced guide. The guide explained various exhibits related to the different types of stones that were present in the museum. The students were shown soil types of Trivandrum region as well as for the entire state of Kerala as monoliths.

The students were fascinated by the working models that were on display, which explained various processes such as types of erosion, pollution, and more. The guide explained these processes in great detail, providing the students with a deeper understanding of the impact of human activities on the soil and the environment.

Towards the end of the tour, a detailed video was shown about the making process of monoliths. The students were amazed by the complexity of the process and the level of detail that goes into creating each monolith.

Overall, the trip was a huge success, and the students came away with a greater appreciation of the importance of soil and its role in our environment. The museum provided a unique opportunity for the students to learn about the different types of soil and the impact of human activities on the environment. It was a memorable experience for all the students, and they look forward to similar trips in the future.





CONCLUSION

The activities conducted by IGS-CET Students Chapter during the academic year of 2022-2023 has been included in this report. The chapter took initiative in order to focus to address the challenges and opportunities that come forth in organizing on various activities to facilitate wider reach for the objectives of IGS. As part of IGS CET Student chapter we were able to reach wider audience and facilitate a larger audience and provide informative sessions.