



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF CIVIL ENGINEERING

REPORT ON

TWO DAY WORKSHOP ON TOTAL STATION SURVEY & ADVANCED GIS

Event Type	Workshop
Date / Duration	05.03.2020 to 06.03.2020
Resource Person	Dr K.B. Chari, Director, GIS Labs, Hyderabad
Name of Coordinator	Sri J.Rangaiah, Associate Professor Sri. K. Harish Kumar, Assistant Professor
Target Audience	B Tech Civil 4th year students.
Total no of Participants	36 members
Objective of the event	To conduct the land survey with total station with GPS coordinates and that data transfer to QGIS for digitizing.
Outcome of event	<ul style="list-style-type: none">• To conduct the experiment's on total station and that data adding to QGIS.• To creating digital layers and digitizing total station captured features.• To editing or correcting the digitized features.• Adding attribute data to QGIS.
Feedback / Suggestions	<ul style="list-style-type: none">• Acquired the knowledge on total station survey and adding data to QGIS.• Able to conduct total station survey.• Know the digitizing total station data in QGIS.

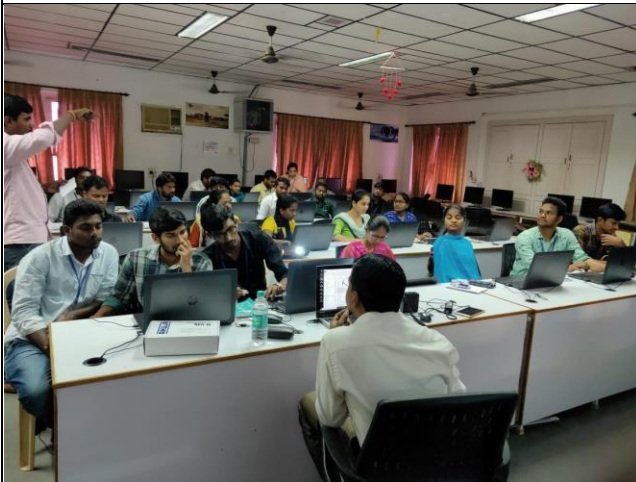
Photographs



Interaction with Dr K.B. Chari



Presentation of Topic



Practice Session



Practice Session

Press Clippings



Sakshi

Date: 09-03-2020

REPORT

A two-day workshop on GIS Professional Training is organized in Civil Engineering Department under Mylavaram Student Chapter Civil of IE (I) during 5th – 6th March 2020 with Dr K.B. Chari, Director GIS Labs, Hyderabad acting as Resource Person.

The GIS analysis is very useful in identifying suitable locations for pipe lines, canal works, Irrigation projects, road & railway networking, waste management etc. without causing much of environmental damage. It is widely used in the flood and disaster management, assessment of spread of sporadic diseases, environmental impact assessments, urban expansions, town planning etc. Hence GIS analysis is important for the civil engineering students to meet diversified demands of the subject and an exposure to GIS software will also increase the job opportunities to the civil engineering students.

The students were introduced to the widely used total station and QGIS software in GIS analysis. The students were know the preparing layouts using QGIS software through hands-on-practice sessions along with the following exercises.

- Exercise 01: Georeferencing Satellite Image
- Exercise 02: Adding Total Station Data to Qgis
- Exercise 03: Creating Digital Layers – Roads, Electric Poles, Trees
- Exercise 04: Digitizing Total Station Captured Features
- Exercise 05: Editing / Correcting the Digitized Features
- Exercise 06: Adding Attribute Data
- Exercise 07: Thematic Mapping
- Exercise 08: Preparing Layout