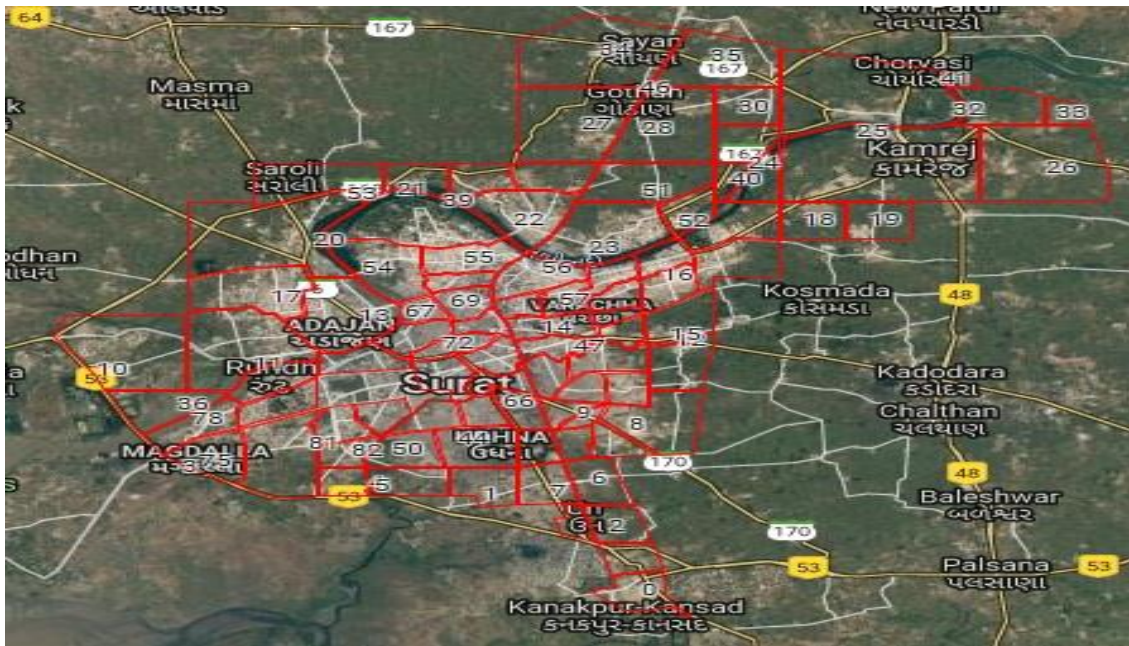


**Chhotubhai Gopalbhai Patel Institute of Technology, Bardoli**  
**Department of Civil Engineering**



**Two Days Training Workshop on**  
**“Open Source GIS” on 26<sup>th</sup> & 27<sup>th</sup> July 2019**  
**Organized by Department of Civil Engineering**



**Conducted by: LGeom Pvt. Ltd., Ahmedabad**

**CHIEF-PATRON**  
*Dr. Dinesh R. Shah*

**CONVENER**  
*Dr. Manoj J. Gundalia*

**PATRON**  
*Dr. Rajkumar V. Patil*

**COORDINATOR**  
*Ms. Nikita A. Patel*  
*Ms. Kinjal P. Mistry*

## **Introduction**

The Department of Civil Engineering at Chhotubhai Gopalbhai Patel Institute of Technology affiliated with Uka Tarsadia University (UTU) is rapidly growing and has excellent teaching and research facilities. UTU has developed and implemented the model of internship at Degree and Diploma level by keeping in view AICTE guidelines. Therefore, summer internship becomes an integral part of academic curriculum of undergraduate and Diploma programs of Department of Civil Engineering. The internship aims at widening the scope of skill development and the expansion of knowledge by providing an exposure in industry. LGeom Pvt. Ltd., Ahme`dabad has given opportunity to the students of Department of Civil Engineering for project of city survey under their internship. Different zones of Surat City have been allotted among groups of students for conducting city survey. Students have successfully completed this challenging work within their summer internship duration. LGeom Pvt. Ltd. fully satisfied with the work of students and offered them attractive stipends for their work. Looking on the interest shown by students, LGeom Pvt. Ltd. has proposed two days training workshop on “Open Source GIS” for these students to enhance their knowledge in the field of GIS. Department of Civil Engineering has taken this opportunity and organized two days training workshop on “Open Source GIS” on 26<sup>th</sup> & 27<sup>th</sup> July, 2019.

The course was designed for a user with little or no experience in QGIS. It helped the participants develop their skills using the Open Source Geographic Information System (GIS) software package Quantum GIS (QGIS) as a more cost-effective alternative to commercially available GIS packages such as ArcGIS and MapInfo. The course provided a general understanding of the tools and features used in QGIS software to create and edit maps, create new layers and provide the facility to create high quality output. The course focused on developing hands-on skills through individual computer-based practical sessions and trainer-led practical group works. The computer-based practical sessions were complimented by presentations, a brief field exercise and some group demonstrations.

### **Objectives of the workshop:**

The main objectives of the workshop were:

1. To give brief introduction of GIS
2. To introduce students to various GIS software
3. Introduction to key skill set required from GIS amateur in industry
4. To give exposure to GIS software and teach geo database generation
5. To demonstrate essential know how in any GIS software for GIS Project
6. To teach and train Next Level operations in GIS Software

### **Course Content:**

- Software download and installation
- GUI of Software
- Viewing spatial data
- Geo referencing of base map

- Creating vector data (point, line and polygon)
- Styling Raster and Vector Data
- Preparing Data for Processing
- Spatial Analysis
- Creating maps in GIS software
- Advanced Data Creation and Editing
- Processing analysis in other GIS Software
- Automating Workflows with the Graphical Modeler

### **Participants:**

The total number of participants was 22. The list is enclosed below.

### **Participants list of training workshop:**

1	UNNATI SUNILBHAI SURTI	12	SOHAM VISHNUBHAI PATEL
2	MANSI NITESHBHAI SOLANKI	13	PIYUSH DHIRUBHAI KAMANI
3	AKASH KANUBHAI MAKANI	14	YASH MANSUKHBHAI DHEBARIYA
4	SAHIL GHANSHYAMBHAI THUMMAR	15	JAINISH JAYSUKHBHAI JIVANI
5	PINANK VINUBHAI DEVANI	16	DEEP ASHOKBHAI NAVADIYA
6	DHRUV CHETANBHAI GAJJAR	17	SEJAL DIPAKBHAI VANGANE
7	HARDIK RAJESHBHAI NAKRANI	18	FEMANGI DINESHBHAI PATEL
8	KHILAN BHARATBHAI JETHWA	19	RUTVI JAYESHBHAI PATEL
9	BHAVYA SAMIRKUMAR SHAH	20	RUTVIK KISHORBHAI DEVANI
10	RINKAL BHARATBHAI KIKAGANESHWALA	21	KRUSHI RAJESHBHAI PATEL
11	JAY VIPULKUMAR VELWAN	22	KRINAL CHANDRESHBHAI BHAYANI

### **DAY 1:**

#### **Inauguration:**

The inauguration was started at 10:30 am in Classroom D-101 on 26<sup>th</sup> July, 2019 in the gracious presence of Dr. Manoj Gundalia, Head, Department of Civil Engineering (Convener), faculty members and participants (22 numbers).



**Ms. Kinjal Mistry was inaugurating Training Workshop**



**Dr. Manoj Gundalia welcoming Mr. Parth Patel, Director of LGeom Pvt. Ltd.**



**Ms. Nikita Patel felicitate Mr. Ashish Chaurasia, Speaker and Trainer**



**Introductory Speech on Training Workshop given by Dr. Manoj Gundalia**

### **Session Details:**

**Session began with hope and anticipation, with full of thoughts and concentrations. The session of this day was delivered by two veterans Mr. Ashish Chaurasia and Mr. Parth Patel with the titled Basics and fundamentals of GIS.**

**The first day of the training started with a short pre-test in which the participants had to answer simple questions about which field could GIS and QGIS applications be utilized, what could be done with QGIS in one's field, the major differences between GIS and QGIS applications, the components of QGIS and types of GIS data. The aim of this exercise was to take note of what the trainees already know about GIS and QGIS.**



**Lecture Session**



**Questions-Answers Session**

## **Day 2:**

The participants practically learned how to tethering GPS data into QGIS software and how to utilize, edit and analyze by the QGIS the data collected by GPS device. A short video was shown to the participants on creating, managing and analyzing ecological data sets. This was followed by practical exercise by the participants taking into account their own field. Participants were prepared maps by inputting their surveyed data in QGIS.



**Practical Session**



**Practical Session**

## **Valedictory Ceremony:**

The Program concluded with closing remarks from Dr. Manoj J. Gundalia sir expressing his gratitude to LGeom Pvt. Ltd. representatives for expressed their optimism for such future collaborations.



Sample Certificate



Distribution of Certificate and Cheque of stipend



Distribution of Certificate and Cheque of stipend



**Distribution of Certificate and Cheque of stipend**



**Distribution of Certificate and Cheque of stipend**

### **Feedback:**

**Students shared their experience during the internship project work and give their view about training workshop. Students expressed their gratitude to LGeom Pvt. Ltd. for giving them valuable opportunity and attractive stipend**



**Feedback Session**





**Participants and Representatives of LGeom Pvt. Ltd. with Organizing Committee of DCE**