



Date: 11 September 2017

Time: 1.00 pm to 3.00 pm

Venue: N. J. Seminar Hall, SCET, Surat

A report on

“Applications of GNSS Technology in Urban Areas”

An expert lecture for M. E. TCP students

Faculty of Civil Engineering through its PG Centre in Town & Country Planning organized an interactive session as an **Expert Talk** with support of team NOSPlan-SCET. The session was organized for the students of ME TCP I and II. The talk was about understanding the “**Applications of GNSS Technology in Urban Areas**” which was interactively led by Er. Virendra A. Patel.

The motive of the interactive session was to bring sensitization among the current students about use of the technological advancements, specifically GNSS and GIS in the urban planning and implementation practices. The subject is vast however a beginning on getting insights, nevertheless, was vital.

About the speaker:

Er. Virendra Abhesinh Patel is a research scholar at SVNIT and perusing full-time PhD in the subject of Satellite Technology. He did his masters from IIIT Pune followed by graduation in Electronics & Communication engineering at Gujarat University. He taught the undergraduate students at Bhagwan Mahavir College of Engineering & Technology for about four years duration. He was a Project Associate at CSIR, Pilani – Rajasthan for about one year and previously he was working at a Hi-Rel-Hitachi Electronics based at Gandhinagar. He has authored about 12 research papers in conferences and journals. He is a member to many professional organizations.

About GNSS:

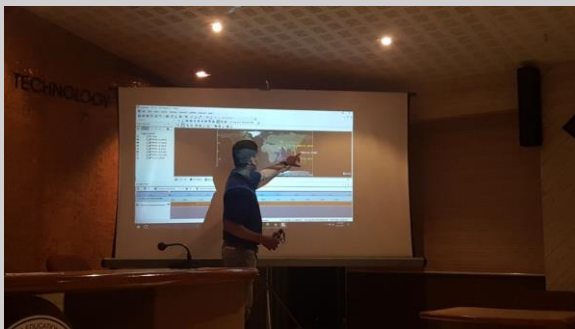
The term ‘global navigation satellite system’ (GNSS) refers to a constellation of satellites providing signals from space transmitting positioning and timing data. By definition, a GNSS provides global coverage. GNSS receivers determine location by using the timing and positioning data encoded in the signals from space. The USA’s NAVSTAR Global Positioning System (GPS) and Russia’s Global'naya Navigatsionnaya Sputnikovaya Sistema (GLONASS) are examples of GNSS.

Highlights of the event:

- Prof. Bhasker Bhatt welcomed and introduced the speaker;
- Dr. Pratima A. Patel, Head FCE gave a floral welcome to the speaker;
- Beginning with GIS, Er. Virendra discussed the techniques in practice on field. His talk covered the major aspects as:
 - o GIS Technology
 - o GPS, its use and importance
 - o GNSS as a ground-breaking technology
 - o A Demonstration of GNSS Device working on field and fetching of data
 - o Application of data on a software interface and use for planning tasks
- Faculty members involved in ME TCP motivated students by their presence;
- The NOSPlan-SCET students managed the event;
- Dr. Pratima A. Patel felicitated Er. Virendra with a memento.

A verbal and brief feedback from students was received as they felt empowered from the talk with a demonstration and enjoyed the lecture.

Below are some memories from the event.



Acknowledgements:

At the juncture, the motivation of Dr. Vaishali Mungurwadi and support of Dr. Pratima Patel was immense. The expertise shared by Er. Virendra Patel for imparting insights among the students that will certainly avoid confusions among them for performing various activities at SCET. Support of non-teaching and attendant staff members is well recognized. On behalf, a deep sense of gratitude is extended.

- A report compilation by Prof. Bhasker V. Bhatt, for Team FCE at TCP