

## **Report on One Day Workshop of WaterGEMS**

**Date:** 20-3-2017, Monday.

**Time:** 10:00 to 18:00

**Venue:** Birla Vishwakarma Mahavidyalaya Engineering College, V. V. Nagar, Anand.

The workshop is governed by the Dr. P. V. Timbaliya, Assistant Professor and Proff. Viral Loliyana at SVNIT, Surat.

The topic covered during the sessions of workshop is,

- Water Supply Network.
- Water Distribution Network.
- Brief Description of “Nodes” and “Link”.
- Design & Analysis of Water Supply System.
- Types of Distribution Network.
- Equation of Head Loss (Friction Loss).
  - Darcy – Neisbach Formula
  - Hazen – William Formula
  - Modified Hazen – William Formula
  - Manning’s Formula
- Description of Pump.
- Node Flow Continuity Relation.
- Path Head Loss & Loop Head Loss Relationship.
- Static Node Analysis
  - Hardy Cross Method
  - Newton Raphson Method
  - Linear Theory Method
  - Gradient Method

This much portion of theory is taken by the Dr. P. V. Timbliya sir. After the completion of this theory session, further session is governed by Proff. Viral Loliyana.

He gives the knowledge about the WaterGEMS software. He solved one problem of water supply network with us. Which is very much useful for our knowledge about the WaterGEMS software.

We enjoyed this session & take a good knowledge about the WaterGEMS software. We are thankful to Proff. Neha R. Patel to arrange this workshop for 3<sup>rd</sup> year Civil Engineering students.