



## CIVIL ENGINEERING DEPARTMENT

### A Report on Technical Seminar of

### “Analysis and Design of Building using ETABS software”

#### **SEMINAR DETAILS:**

- 1. ADDRESS:** - S. N. Patel Institute Of Technology & Research Centre, Umrahk
  - 2. DATE OF SEMINAR:** - 24 /02/2023
  - 4. YEAR / SEMESTER:** - Final Year GEC Polytechnic, Surat
  - 5. NO. OF STUDENTS:** - 100
  - 6. NO. OF FACULTIES:** - 5
- CO-ORDINATOR:** - Prof. Arun Prajapati

#### **NEED OF SEMINAR:**

- It is very important to investigate the behaviour of G+4 Building with Earthquake & Wind occurs.
- As this kind of structures are highly vulnerable during earthquake because of combination of various irregularities.
- Suitable preventive measures can be taken in new and existing building.
- Earthquake resistant design of these regular and irregular buildings on ground.

#### **OBJECTIVES OF SEMINAR:**

- Structure designed should satisfy the criteria of ultimate strength.
- Structure should satisfy the serviceability.
- It should satisfy the stability structure against overturning, sliding, and buckling.
- To study the variation parameter of Storey Displacement, Base shear, Storey drift, Time period, Tensional response with respect to ground.
- Methods are to be used: Equivalent Static Force Method (Linear Static Method), Response Spectrum Method (Linear Dynamic Method) and Non linear time history method & Pushover analysis method.

#### **OUTCOMES OF SEMINAR:**

- Student will easily create models using objects and can understand the concepts when editing and creating complex models.
- Student will be able to recognize story levels and be able to input building data in a logical and easy manner.



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- Student will have the ability to work with people spanning in different disciplines with productive, innovative, and communicative skills.
- Student will create only one model of the floor systems and the vertical and lateral framing systems to be able to analyze and design the entire building due to the integrated system of ETABS.

### **TECHNICAL SEMINAR PHOTOGRAPHS: ANNEXURE-I**



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### ANNEXURE I-PHOTOGRAPH





