



Gujarat Technological University (GTU)
School of Engineering and Technology (SET)
Department of Civil Engineering (Structural Engineering)

One-day Workshop on Structural Evaluation Techniques

Morning Session:

Non-Destructive Testing (NDT)

Topic: *Rebound Hammer Test – Theory and Hands-on Practice*

- Introduction to NDT and field applications
- Rebound Hammer methodology and IS code provisions
- Live demonstration on concrete elements
- Group-wise hands-on practice and data collection
- Estimation of compressive strength from rebound values
- Interactive discussion on results and surface behaviour

Afternoon Session:

Nonlinear Static Pushover Analysis

Topic: *Seismic Performance Evaluation of RC Frames using SAP2000*

- In-depth theoretical session on pushover analysis
- Concepts: displacement control vs. force control, hinge formation, capacity spectrum
- Explanation of nonlinear modelling and nonlinear solver settings
- Hands-on demonstration in SAP2000 software
- Base shear vs. displacement interpretation
- Case study discussion and Q&A

Date: August 12, 2025

Time: 11:00 AM Onwards

Venue: Lab 330, Block No. 5, GTU-SET, Chandkheda Campus, Ahmedabad

Deliverables:

- Hands-on demonstration of Rebound Hammer testing for structural health monitoring.
- In-depth lecture and SAP2000 demo on Nonlinear Static Pushover Analysis.
- Learn seismic performance evaluation and hinge interpretation techniques.
- E-Certificate of Participation for all attendees.

Contact for Queries:

+91 70161 43139

ap_kgondaliya@gtu.edu.in

Organized under the guidance of:

Dr. J. A. Amin

Professor & Head,

School of Engineering and Technology, GTU

Student Coordinators – Training & Placement Cell:

Parth Gediya | Aamirah shaikh | Ashish Rabadiya

PG – Civil (Structural Engineering), GTU-SET

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