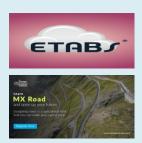# Beyond Curriculum Training
On
"ETABS and MX ROAD"

Date: From 01/02/2021 to 12/02/2021

Organized by
Narula Institute of Technology

81, Nilgunj Road, Agarpara,

Kolkata – 700 109

Training Overview
This course offers an additional value and intends to conduct student trainings to enable students in the field of technical education to introspect and learn techniques that can help prepare students for active and successful participants in a knowledge society.

Training Objective
The course aims to offer comprehensive knowledge on the ETABS software and its applications. The course will help the candidates to acquire in-depth details about the different procedures and simplified analysis aspects of the design models. MX ROAD will help students to learn digital terrain model creation and integration with Google Earth.

Course Outcomes
After completion of this course students will be able to
- obtain comprehensive knowledge on the ETABS software and its applications
- Analyse & design of structures.
- Rapid and accurate design of different types of roads.

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Course Content

- ***MODULE 1:***

    ETABS

    ✔ Model creation and result reporting
    ✔ Push-over analysis
    ✔ Response Spectrum Analysis
    ✔ Response History Analysis
    ✔ Concrete Frame Design and Detailing
    ✔ Steel frame Design and Detailing
    ✔ Working with Composite Beam
    ✔ Dynamic Analysis

- ***MODULE 2:***

    Road Design & Analysis using MXROAD

    ✔ Basic Concepts and Starting a New Project
    ✔ Input Survey Data and View Model Data CAD Environment and Toolbars Tooltips and Status Tools
    ✔ Surface Checker and Editing Tools Surface Analysis
    ✔ Housekeeping
    ✔ String Naming Convention Quick Horizontal Alignment Quick Vertical Alignment Carriageway Design
    ✔ Rule Based Super elevation Cross fall Checker
    ✔ Design of Second Road
    ✔ Road Widening Dynamic Reports Junction Design
    ✔ Kerbs, Footways, and Verges