

## **ABSTRACT**

Structural planning and design is an art and science of designing with economy and elegance, serviceable and durable structure. The entire process of structural planning and designing requires not only imagination and conceptual thinking but also sound knowledge of science of structural engineering besides knowledge of practical aspects. Residential building deals with the finding the important of structure, material, cost and time & environmental criteria of residential building from the perspective of the future owners. There are many software's available for designing. ETABS undoubtedly the most commonly used software per design in the whole world therefore.

In this project, ETABS is used as design and Analysis of Residential building gravity and seismic analysis. It is highly important to know ETABS analytical and designing features. ETABS stands for extended three dimensional analysis of building system. The main purpose of this software is to design beams, columns and slabs

**Keywords:** ETABS software Tools, Seismic Analysis, Multi-storied Residential building