

## **ABSTRACT**

This project presents the analysis and design of a six-storey residential building located in Kiambu County. The residential building was designed to meet both strength and serviceability requirements when subjected to gravity and lateral loads. Manual calculations as well as computer software was used in the analysis of the structure. The project report involved the careful study of the architectural drawings, determination of the loadings, preliminary sizing of members, checks on deflection, detailed design and analysis of structural elements and a representation of the design in form of structural drawings. The drawings were prepared using AutoCAD.