**ANALYSIS AND DESIGN OF APARTMENT BUILDING**

**ABSTRACT**

Practical knowledge is an important and essential skill required by every engineer. For obtaining this skill, an apartment building is analysed and designed, located at Thrissur with G+8 storeys having a car parking facility provided at basement and ground floor. The building have a shear wall around the lift pit. The modelling and analysis of the structure is done by using STAAD. Pro 2007, and the designing was done manually. Design of beam, column, slab, shear wall, stair case, retaining wall, water tank and an isolated footing are done. And the detailing is done using AUTOCAD 2016. Along with analysing and designing of this building, construction sites were also visited.

**Keywords:** Analysis and design, Apartment Building, Lift pit, Shear wall,