3D Modelling and Energy Analysis of Residential Building Using Autodesk Revit

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Abstract—**Building Modeling Information (BIM) and are wieldy used in construction industries due to their multi, fast and perfect results. BIM helps to view all the possible aspects of building modeling and designing, using BIM and Autodesk Revit 2D and 3D drawings can be executed simultaneously. This research work goal to the Modelling and Energy analysis of natural ventilation of a residential building using Autodesk Revit 2017. BIM is not just a tool but also a process that supports virtual design and construction methodologies. It points all the parties together throughout the entire design and construction process and beyond to the operation and maintenance of the building. A double story building with three bedrooms, dressing rooms, Bathrooms, kitchen, and TV hall will be executed, Interior and exterior drawing supported as per standard recommendations.**

Keywords — **scheduling, virtual design, construction industry, Revit**