

HIGHER TECHNICAL INSTITUTE

CIVIL ENGINEERING
DEPARTMENT

DIPLOMA PROJECT

DESIGN OF A TWO-STOREY
HOUSE
IN REINFORCED CONCRETE
(according to BS8110)

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Introduction

The aim of this project is to establish mostly with theory and analysis the calculation for the analysis, design and detailing of the main frame of a two-storey house. This was established with the help of BS 8110 code of practice.

Analysis design and detailing is the basic knowledge that a Civil Engineer should have and mainly the derivation of all the calculations that are used.

The beginning and end of an Engineer's life is the Moments and outer Forces on a structure. According to this the Engineer can be named as "The fighter of the weather and all the unknown forces of earth".

All these are put in practice all throughout the 130 pages of this project. Calculations of Moments and Force are established with the use of first principals.

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