

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING COURSE

DIPLOMA PROJECT

**DESIGN OF THE ELECTRICAL SERVICES OF A
MULTISTOREY BUILDING**

E. 1236

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GENERAL INTRODUCTION

This project deals with the design of electrical services of a specified block of flats. The block of flats consists of 3 floors, a parking area on the basement and shops on ground floor and mezzanine.

MAIN OBJECTIVES OF THIS PROJECT

- 1) To study the illumination engineering work involved
- 2) To design the complete electrical services for a specified block of flats which includes the following
 - a) Power and lighting
 - b) Telephone installation
- 3) Provide all necessary diagrams schedule of materials and costing including labour.

TERMS AND CONDITIONS

- 1) Supply voltage 415 / 240V , 50Hz , T.T earthing system
- 2) IEE 16th edition and EAC regulations must be complied with
- 3) CYTA regulations
- 4) Wiring method : In conduit (method 3)
- 5) Cables : PVC corpper cable single core non-armored
- 6) The efficiency and power factor of high power circuits where not given and must be taken to be 0.8
- 7) The external earth fault loop impedance is chosen to be 0.5

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