FINAL YEAR PROJECT REPORT

ON

Electrical Installation Designing of House

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DECLARATION

I declare that the work contained in this thesis is my own, except where explicitly stated. Otherwise In addition this work has not been submitted to obtain another degree or Professional qualification

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Date:____________________

DEDICATED TO:

Our parents, siblings, Ourworthyteachersspeciallyouradvisor, Sir Nauman Ahmad as well as Co-Advisor Sir and everyindiviualwhosupported us.

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ABSTRACT:

Electrical installation of a house, building or any work space requires the load calculation as well as lamination level calculation. For efficient and economical installation of electrical plan we should have appropriate calculations. On load calculation we can define the wire size for protective scheme. Calculation based on the load help us to design and Calculate the PV module for renewable solar energy source. For more efficient and luxuriate, we step forward to Atomization of lighting and HVAC system by using PLC.

CONTENTS

LIST OF FIGURE:

LIST OF ABBREVIATION:

Sr.#	Word	Abbreviation
1	PLC	Programmable logic controller
2	HVAC	Heating ventilation and air conditioner
3	DP	Distribution panel
4	DOL	Direct On Line
5	NO	Normally Open
6	NC	Normally Close
7	MCB	Magnetic Circuit Breaker
8	ELCB	Earth Leakage Circuit Breaker

Chapter 1

1.1 INTRODUCTION:

In this project we will perform task of electrical wiring with electrical installation for a 3bedroom house.Furthermore lighting scheme will designed on the bases of calculation for lux level requirement.Load calculation will be very much effective for long-lasting and reliable electrical system.Calculation for lux level will be very help full for the total load calculations. There is also a fine touch of PLCfor home automation and life luxuriate. Through PLC usage multisource priority based distribution panel will be designed.Wire size will be definedon the bases of load calculation, for less power loss. Through PLC we will also automate the lighting scheme as well as the HVAC system for better energy conservation.