# HIGHER TECHNICAL INSTITUTE

## ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

## DESIGN OF ELECTRICAL INSTALLATION FOR A HOUSE ALTERNATIVE SOURCE OF POWER (SOLAR POWER/PHOTOVOLTAICS)

E.1342

BY GREGORIS GREGORIOU

JUNE 2004

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#### **DIPLOMA PROJECT**

## DESIGN OF ELECTRICAL INSTALLATION FOR A HOUSE USING ALTERNATIVE SOURCE OF POWER (SOLAR POWER/PHOTOVOLTAICS)

### NAME: GREGORIS GREGORIOU CLASS: 3E1

**JUNE 2004** 



## DEDICATED TO MY FAMILY AND ALL THE PEOPLE WHO HELPED ME TO COMPLETE THE ELECTRICAL ENGINEERING COURSE IN HIGHER TECHNICAL INSTITUTE

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Chapter 1: Lighting design

1.1 Introduction

- 1.2 Typical calculations 1.3 Tabulated results

Chapter 2: Socket outlets design

2.1 Introduction

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- 2.3 Tabulated results

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Single line diagrams

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8.2 Structure of a PV element

8.3 Study of PV elements behavior
8.4 Efficiency of PV element
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