ELECTRONICS LABORATORY

ATUL SINGH ARORA



Workshop

Ms. Madam Indian Institue of Science Education and Research, Mohali

August-December, 2012

CONTENTS

1	SOL	DERING EXPERIMENT 1
	1.1	Aim 1
	1.2	Theory 1
		1.2.1 Tools 1
		1.2.2 Material 1
	1.3	Procedure 1
	1.4	Precaution 2
	1.5	Acknowledgements 2

LIST OF FIGURES	
LIST OF TABLES	
LISTINGS	
ACRONYMS	

SOLDERING EXPERIMENT

September 8, 2012

1.1 AIM

To learn how to solder and desolder properly, by attaching a 20 pin IC to a test board and removing it after successful soldering.

1.2 THEORY

1.2.1 *Tools*

- 1. Pliers
- 2. Screwdriver
- 3. Electrical Line Tester

1.2.2 Material

- 1. Single way switch
- 2. Lamp
- 3. Lamp Holder
- 4. Bakelite Sheet
- 5. Wires
- 6. Screws
- 7. Nut Bolts
- 8. Terminals

1.3 PROCEDURE

- 1. Took a suitable Bakelite sheet and attached the following using screws & nut-bolts
 - a) Power Connectors
 - b) Switch

- 2. Connected the circuit according to the circuit diagram as given in, keeping the following in mind
 - a) Red Wires are used for the phase connections.
 - b) Black Wires are used for the neutral connections.
 - c) Colours other than Red, Black and Green can be used for the connecting wires.
- 3. Attached the Lamp Holder using screws & nut-bolts.

1.4 PRECAUTION

- 1. Connections should be tight, viz. shouldn't come out when pulled.
- 2. Wires shouldn't be sticking out of the connections without insulation.
- 3. Wires should be of appropriate length.
- 4. Colours of the wires should be chosen in accordance with their type.

1.5 ACKNOWLEDGEMENTS

I thank Mr. Jatinder Singh for his guidance during the experiment.

COLOPHON This document was typeset using the typographical look-and-feel classicthesis developed by André Miede, for LATEX. The style was inspired by Robert Bringhurst's seminal book on typography "The Elements of Typographic Style". The latest version of this document is available online at: https://github.com/toAtulArora/IISER_repo