

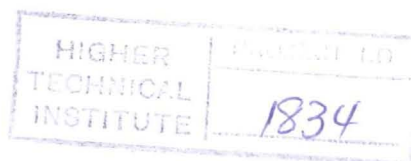
HIGHER TECHNICAL INSTITUTE
ELECTRICAL ENGINEERING DEPARTMENT
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DEVELOPMENT OF A TEST BENCH UNIT
E-748

Project report submitted by
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ABSTRACT

This project appointed by the Higher Technical Institute, deal with the design, construction, test and calibration of a bench top test unit.

The bench unit consist of

1. A variable stabilized power supply.
2. A fixed supply.
3. A waveform generator facility.
4. A voltage and current measuring arrangement.

The basic principles of a power supply and description of the actual power supply circuit used are contained in chapter 1.

In chapter 2 the features and the basic circuits of the 3-pin regulator are discuss along with the circuit used.

In chapter 3 the use and operation of the waveform generator is discus along with the type of oscillators used.

Chapter 4 gives information about the use of a meter, and how can we use the same meter for a wide range of voltages and currents, also the description of the circuit is included.

CONTENTS

	page
Acknowledgements.....	3
Contents.....	4
Abstract.....	6
Introduction.....	7
 CHAPTER 1 - VARIABLE POWER SUPPLY	
1.1 General considerations.....	10
1.2 The transformer.....	11
1.3 The rectifier.....	12
1.4 The smoothing capacitor.....	13
1.5 The regulator.....	14
1.6 Precision power supply.....	17
1.7 Operation of the power supply.....	18
1.8 Design calculations.....	23
1.8.1 Testing results.....	24
1.9 Components list.....	26
 CHAPTER 2 - FIXED SUPPLY	
2.1 Three terminal regulator.....	29
2.2 Circuit construction.....	32
 CHAPTER 3 - WAVEFORM GENERATOR	
3.1 Introduction.....	34
3.1.1 Oscillators.....	34
3.1.2 Crystal oscillator.....	36
3.2 Operation of the waveform generator.....	38
3.2.1 Phase lock loop.....	40
3.3 Testing results.....	44
3.4 Component list.....	44
 CHAPTER 4 - VOLTAGE AND CURRENT MEASURING ARRANGEMENT	
4.1 Introduction.....	47
4.1.1 Measuring voltage.....	48
4.1.2 Measuring current.....	50
4.2 Circuit operation.....	53

4.2.1 Voltage measuring circuit operation.....53
4.3 Component list.....55

APPENDICES

1 Printed circuit's.....57
2 Information for the IC's used.....61