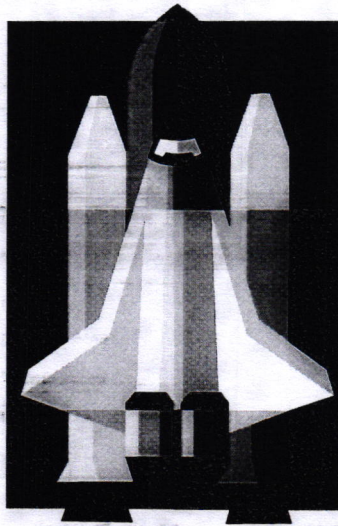


SAMPLE

# INDIA SKILLS KERALA 2018

## STATE LEVEL COMPETITION



## ELECTRONICS

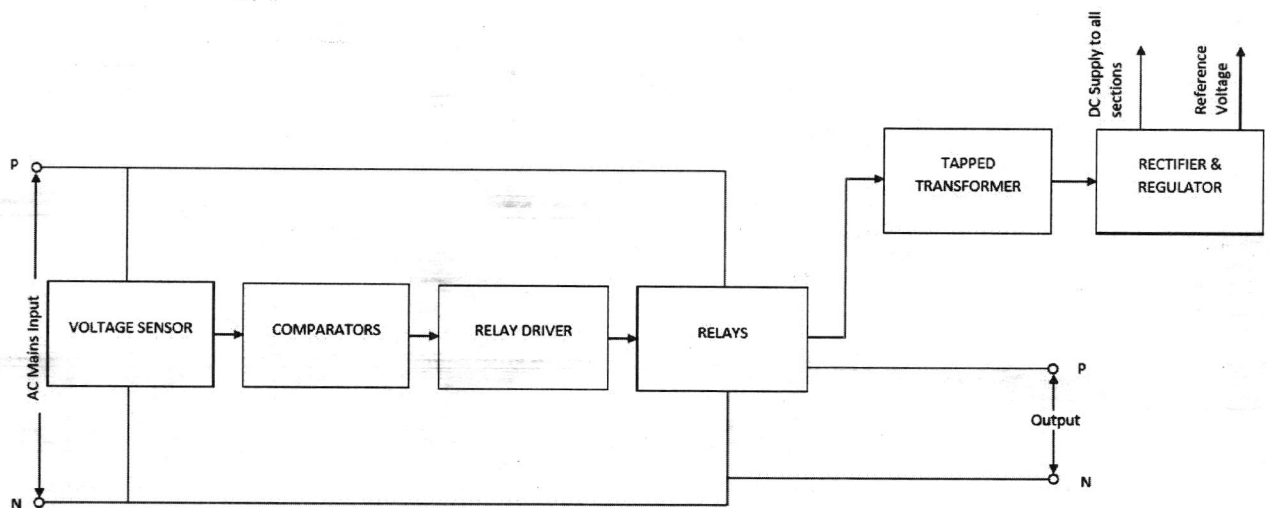
Dummy

## Introduction

An automatic voltage stabilizer with one buck stage and one boost stage. The stabilizer circuit is based on analogue OP Amp comparators.

## Description of Project and Tasks

### Block Diagram



The stabilizer has a voltage sensing section which monitors the input supply voltage. The power transformer has tapped primary and a secondary winding. The secondary ac voltage of transformer is rectified and provides the supply voltage for all other section. The voltage regulator circuit is generates the reference voltage for the comparators. The comparator section will compare the output voltage of sensor block with the reference voltage and the relays will switch the input voltage to power transformer.