

# DC-DC CONVERTER PROJECT REPORT

## EE-256 LAB

E1-B5

ROLL NO.:

220002012  
220002034  
220002009

NAME:

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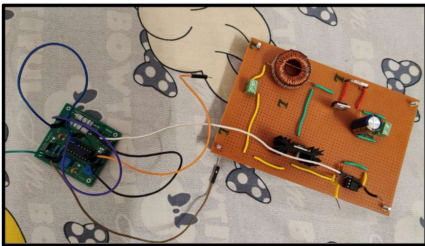
### PROBLEM STATEMENT:

- To make a DC-DC Boost Converter with the following specifications:

Input 15V, Output 25V, Switching frequency 7.5kHz, Output current 1A and observe the waveforms of DIODE current and INDUCTOR voltage in CCM.

- Increase load resistance to demonstrate DCM

### PROJECT GALLERY:

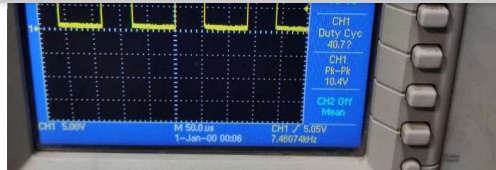


BOOST CONVERTER



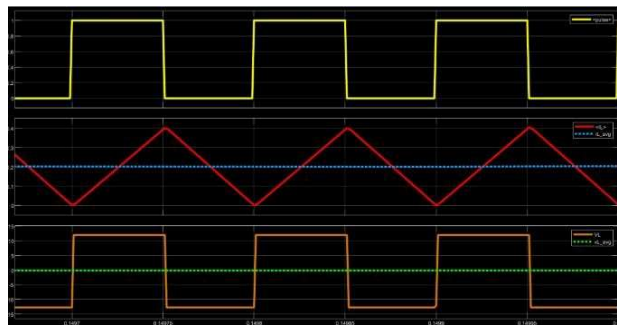
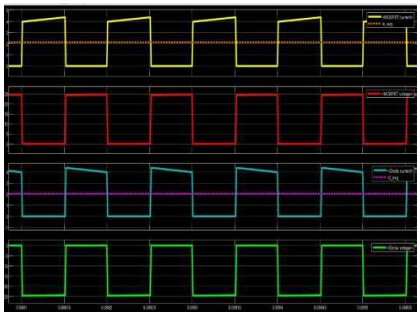
PWM DRIVE

## ← DC-DC Converter Report



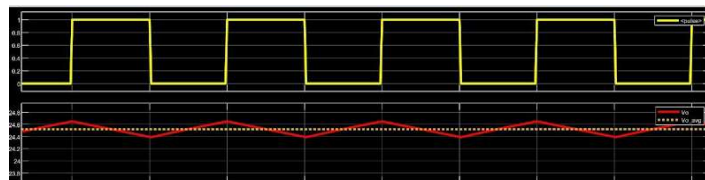
DRIVER OUTPUT WITH 40% DUTY CYCLE AND 7.5KHz FREQUENCY

### SIMULATIONS:

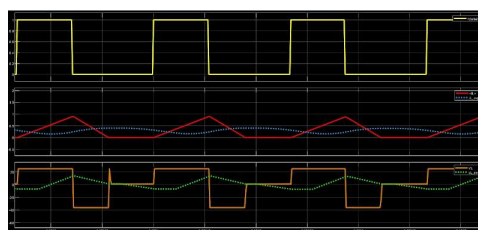


DIODE CURRENT AND DIODE VOLTAGE IN CCM

INPUT PULSE AND INDUCTOR CURRENT



INPUT PULSE AND OUTPUT VOLTAGE IN CCM



INPUT PULSE, INDUCTOR CURRENT AND INDUCTOR VOLTAGE