

MANIPAL INSTITUTE OF TECHNOLOGY

(A constituent Unit of Manipal Academy of Higher Education)

MANIPAL

Drives, Controls and Modelling Laboratory Manual (MTE 3161)

Fifth Semester B.Tech (Mechatronics Engineering)

NAME: Swaraj Dangare

REG NO: 210929156

ROLL NO: 37

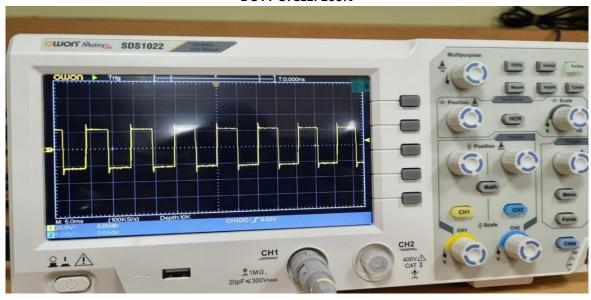
Date: 02/11/2023

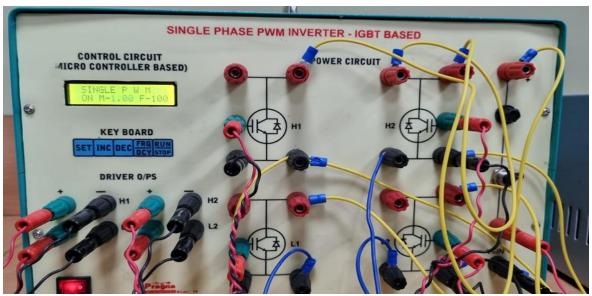
EXPERIMENT 1:

SINGLE PHASE PWM INVERTER

DUTY CYCLE	RMS VOLTAGE
10	7.4
20	10.38
30	12.68
40	14.62
50	16.33
60	17.88
70	19.3
80	20.63
90	21.88
100	22.78

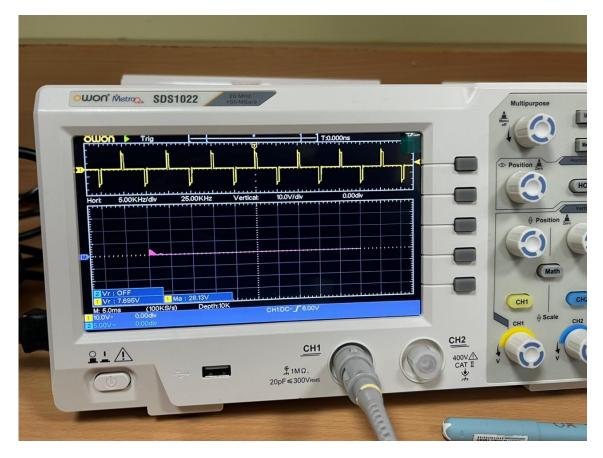
DUTY CYCLE: 100%







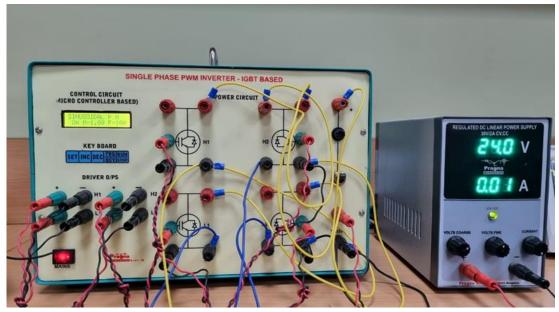
DUTY CYCLE: 10%

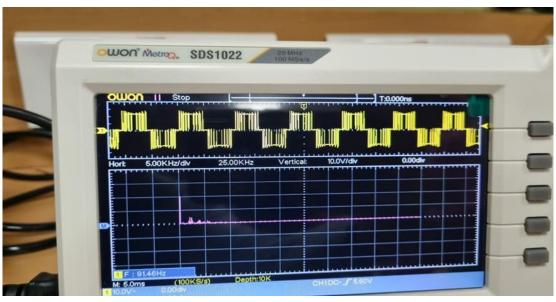


SINUSOIDAL PWM INVERTER

DUTY CYCLE	RMS VOLTAGE
10	7.15
20	8.98
30	10.5
40	11.81
50	12.98
60	14.04
70	15.02
80	15.93
90	16.77
100	17.61

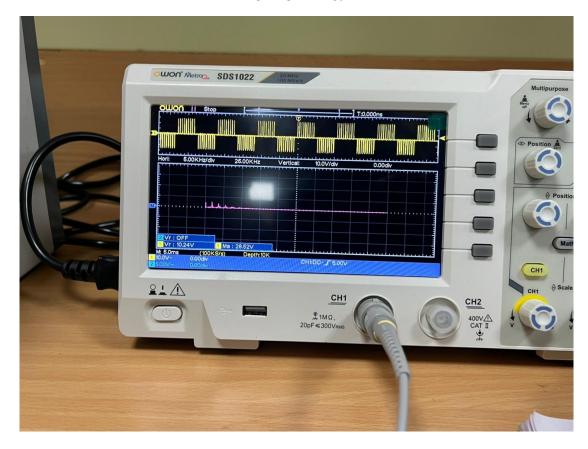
DUTY CYLE: 100%







DUTY CYLE: 10%



EXPERIMENT 2:

PLC CONTROL

