

VPM's
Maharshi Parshuram College of Engineering, Velneswar
Department of Electrical Engineering
Practical/Theory Attendance Sheet

Academic Year: 2017-18 Class - TE Sem - VI SUBJECT -

R. No.	Practical /Lecture No.----->	(1)	19-01-18	2-02-18	23/02/18	29/02/18	23/3/18	6/4/18
E616	Haldankar Sachin Gopichand	A	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin
E617	Harekar Suraj Chandrakant	A	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj
E618	Jadhav Amit Aabaso	A	Amit	Amit	Amit	Amit	Amit	Amit
E619	Jadhav Pankaja Maruti	A	Pankaja	Pankaja	Pankaja	Pankaja	Pankaja	Pankaja
E620	Kadam Prajakta Dipak	A	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta
E621	Kale Sanket Nana	A	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket
E622	Kerkar Shivram Keshav	A	Shivram	Shivram	Shivram	Shivram	Shivram	Shivram
E623	Khandzode Bhushan Raju	A	Bhushan	Bhushan	Bhushan	Bhushan	Bhushan	Bhushan
E624	Kulkarni Gajanan Govind	A	Gajanan	Gajanan	Gajanan	Gajanan	Gajanan	Gajanan
E625	Lad Shraddha Vikas	A	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha
E626	Lingayat Chetan Shashikant	A	Chetan	Chetan	Chetan	Chetan	Chetan	Chetan
E627	Londhe Dinesh Vinod	A	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
E628	Mhadeshwar Siddesh Anant	A	Siddesh	Siddesh	Siddesh	Siddesh	Siddesh	Siddesh
E629	Nafe Gaurav Ajit	A	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav
E630	Narvekar Shubham Sambhaji	A	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham
No. of Present students								
No. of Absent students								

VPM's
Maharshi Parshuram College of Engineering, Velneswar
Department of Electrical Engineering
Practical/Theory Attendance Sheet

Academic Year: 2017-18 Class - TE Sem - VI SUBJECT - Batch - E3

R. No.	Practical /Lecture No.----->	(1)	19-01-18	2-02-18	23/02/18	29/02/18	23/3/18	6/4/18
E631	Navalu Onkar Rajendra	A	Onkar	Onkar	Onkar	Onkar	Onkar	Onkar
E632	Padhye Omkar Hemant	A	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar
E633	Pansare Suraj Dipak	A	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj
E634	Patel Prajit Jitendra	A	Prajit	Prajit	Prajit	Prajit	Prajit	Prajit
E635	Patil Gomtesh Babaso	A	Gomtesh	Gomtesh	Gomtesh	Gomtesh	Gomtesh	Gomtesh
E636	Phalake Kalpesh Krishna	A	Kalpesh	Kalpesh	Kalpesh	Kalpesh	Kalpesh	Kalpesh
E637	Sawant Sankalp Dilip	A	Sankalp	Sankalp	Sankalp	Sankalp	Sankalp	Sankalp
E638	Sayyad Saibaz Tanveer	A	Saibaz	Saibaz	Saibaz	Saibaz	Saibaz	Saibaz
E639	Shetye Shubham Parag	A	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham
E640	Shirgoakar Rajat Alias Niranjana Deepak	A	Rajat	Rajat	Rajat	Rajat	Rajat	Rajat
E641	Shirsat Sagar Bhalchandra	A	Sagar	Sagar	Sagar	Sagar	Sagar	Sagar
E642	Vasage Akshay Balkrishna	A	Akshay	Akshay	Akshay	Akshay	Akshay	Akshay
E643	Vayangankar Sudin Rama	A	Sudin	Sudin	Sudin	Sudin	Sudin	Sudin
E644	Wagh Dheeraj Ankush	A	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj
E645	Yadav Rahul Shyam	A	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul
No. of Present students								
No. of Absent students								

Sign of Subject Teacher

Sign of HOD

Mini project attendance for academic year 2017-18 (Department of Electrical Engineering)

One Mini Project report made by Electrical Engineering students

Project on

SQUARE WAVE INVERTER USING IC 555

Submitted in partial fulfillment of the requirement of the T.E. of Electrical
Engineering

By

E 501 Vivek Pandurang Bhosale

E 509 Digambare Vasant Humbare

E 510 Sahil Shantaram Jadhav

Under the guidance of

Mr. Yogesh Y. katdare



Department of Electrical Engineering

Vidya Prasarak Mandal, Thane's

Maharshi Parshuram College of Engineering,

University of Mumbai. 2018-2019

Project on
**SQARE WAVE INVERTER USING
IC 555**

Submitted in partial fulfillment of the requirements of the T.E. of Electrical
Engineering

By

E501 Vivek Pandurang Bhosale
E509 Digambare Vasant Humbare
E510 Sahil Shantaram Jadhav

Under the guidance of

Mr. Yogesh Y. Katdare



Department of Electrical Engineering
Vidya Prasarak Mandal, Thane's
Maharshi Parshuram College of
Engineering, University of Mumbai.

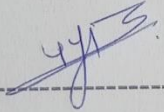
2018-2019

Certificate

This is to certify that, the following students have satisfactorily completed project dissertation. I, work on “**SQUARE WAVE INVERTER USING IC 555**” submitted to University of Mumbai in partial fulfillment of the Third year project in Electrical engineering course of **Semester V**.

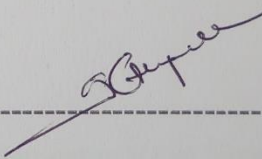
Name of students

E 501 Vivek Pandurang Bhosale
E 509 Digambar Vasant Humbare
E 510 Sahil Shantaram Jadhav



Mr. Yogesh Y. Katdare

(Guide)



Mr. Satish Ghorpade

(HOD)

Vidya Prasarak Mandal's,
Maharshi Parshuram College of Engineering
District: Ratnagiri, PIN - 415729

Department of Electrical Engg.

Project Dissertation

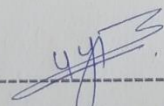
Approval sheet

SQUARE WAVE INVERTER USING IC 555

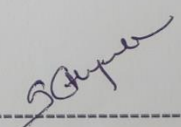
Submitted by

E 501 Vivek Pandurang Bhosale
E 509 Digambar Vasant Humbare
E 510 Sahil Shantaram Jadhav

In partial fulfillment of the term work of T.E. (Semester V) in Electrical Engineering during Academic year 2018 – 19 is approved.



Mr. Yogesh Y. Katdare.
(Guide)



Mr. Satish Ghorpade
(HOD)

Declaration

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be a cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

E 501 Vivek Pandurang Bhosale

E 509 Digambar Vasant Humbare

E 510 Sahil Shantaram Jadhav

Date: 30/10/2018

Acknowledgement

We take this opportunity to express our sincere gratitude towards our guide **Mr. Yogesh Y. Katdare.**

from Department of Electrical Engineering, VPM's, "MAHARSHI PARSHURAM COLLEGE OF ENGINEERING", Velneshwar, Dist-Ratangiri (Affiliated to Mumbai University), for his encouraging and inspiring guidance. We also wish to thank all the staff members of our college for their support.

We wish to express our profound thanks to the Head of the Institution, Principal **Dr. Avinash Chincholkar** and Head of the department **Mr. Satish Ghorpade** for making us available all the facilities in college required to complete the project.

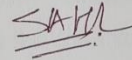
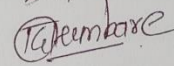
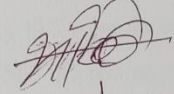
Name of the students

E 501 Vivek Pandurang Bhosale

E 509 Digambar Vasant Humbare

E 510 Sahil Shantaram Jadhav

Signature



Abstract


In this paper, a method is proposed to improve the frequency stability and accuracy of the generated wave in DC/AC square wave inverters using a microcontroller-based stabilized oscillator circuit. The proposed technique relies on using the 555 microcontroller as a stable oscillator to generate two anti-phase 50 Hz square waves for the driving power stage of the inverter. These signals are then boosted to increase their voltage and current levels using BJT switching mode power transistors operating in the push/pull mode. The resulting signal is then raised into the required voltage level with the aid of a step-up transformer. A practical inverter circuit has been designed and constructed to convert a 12 V battery DC input into 220 V AC output based on the 555 microcontroller. This circuit consists of an 555 microcontroller, buffer, driver power transistor stage, final power transistor stage, and a step-up transformer. The inverter circuit has been simulated, implemented, and tested practically. The test measurements have indicated that the circuit gives a full load power of 10 W with full-load voltage regulation of 8%, and a maximum conversion efficiency of 70%.

Keywords: DC/AC Inverter, Power Electronics, 8051 Microcontroller, Square Wave Inverter

Content

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Mini project details of Electronics & Telecommunication Department

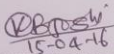
**Vidya Prasarak Mandal's**
Maharshi Parshuram College of Engineering, Velneshwar
(Affiliated to University of Mumbai)

CERTIFICATE

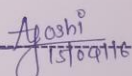
This is to certify that, the following students have satisfactorily completed mini project dissertation work on **TEMPERATURE CONTROLLED MINI FRIDGE** submitted to Department of EXTC in partial fulfillment of the bachelor's degree in Electronics and Telecommunication engineering, affiliated to Mumbai University.

Students:

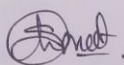
1. Ms. Priya Nandkumar Chivelkar
2. Ms. Shweta Pramod Kamble
3. Ms. Varsha Prakashbabu Nambiar
4. Ms. Rutuja Sanjay Patil



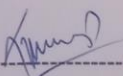
Mr. Kaustubh Joshi
Project Guide




Mrs. Apurva Joshi
HOD




Dr. Shilpa Kamat
PRINCIPAL
Principal
VPM's Maharshi Parshuram College
of Engineering Velneshwar



Internal



C. R. Bohasare
RSCOE, Pedhambur
External



Certificate of mini project report with authorized signatures

(Department of Electronics & Telecommunication Engineering, Academic year 2015-16)

**Mini project details of Instrumentation Engineering Department
(Academic year 2018-19)**

Department of Instrumentation Engineering

Mini - Project Presentation

Date: 06/10/2018 Time: - 10:15 to 12:00.

Roll No.	Name of the student	Name of project	Sign
I506	Sairaj Sanjay Shinde	Design and Development of water level sensor	<u>SsShinde</u>
I501	Sagar Santosh Bhosale		<u>SsShinde</u>
P502	Suraj Ramesh Bhosale	Power generation using piezo sensor & store the energy	<u>SsShinde</u>
I504	Nutan Shirish Oak		<u>Oak N.S.</u>
I503	Pratibha Ramesh Mandale	Secured & wireless notice board using GSM	<u>Pratibha</u>
I505	Ishiyag Patait		<u>Patait.</u>

Name of the staff:

Sign

[Signature]
HOD

1. Mr. Umesh Soutute [Signature]
2. Mr. Suraj M. Thosar [Signature]
3. Mr. Sadanand Gite [Signature]
4. Ms. Nandeshwar V.S. [Signature]
06/10/18
5. Ms. Pooja Akhbar [Signature]
06/10/18
6. Ms. Najda Jayap [Signature]
06/10/18
7. Mr. Parshuram B. More [Signature]

Attendance Record during project Presentation

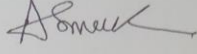

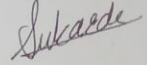
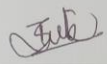
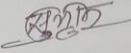
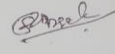


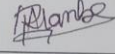
T.E. Instrumentation Project Group(2014-15)

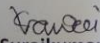
Sr.No.	Title	Name of Student	Sign
1.	Blinker Circuit	Ganesh milind kasare	
		Santosh siteram mhurak	
2.	Counter/Totalizer		
3.	Tachometer (contact less)	Mandar K. Dote.	
		Vaishnavi K. Pise.	
4.	Capacitance Meter	Suraj A. Desai	
		Vaibhav H Kumbhar	
5.	Alarm Annunciator	Kumbhar Sanket R	
		Mapari Farooq. S	
6.	Temperature controller(ON/OFF)	Prasanna P. Bankar	
		Asmita S. Karande.	
7.	Level Indicator	Pratik V. Nikam.	
		Muzammil Shaikh.	
8.	Gel Timer	Aniket D. Mohite	
		Nitish Takle	
9.	Recorder calibrator	Prasad P. Dalvi	
		VIVEK D. CHAIKE	
10.	GLS Lamp Resistance Measuring Setup	Abdul R. Shaikh	
		Tejas Narkar	
11.	Drip rate Meter/ Drop rate meter	Anup S. Godbole	
		Sanket B. Shelar	
12.	Pulse monitor meter	Shammi A Shetye	
		Mohesh. M. Surve	


Department of Instrumentation Engineering


E. Project stage II : 2017-18 (Project demo)


06/04/2018

Sl. No.	Name of Project	Name of student	Sign Of student
1.	Level Sensor Design	1 1.Mr. Mohire Abhay Shabsikant	
		2 2.Mr. Surve Rushikesh Rajendra	
		3 3.Ms. Ukarde Sayali Sudhakar	
		4 4.Ms. Utekar Pooja Subhash	
2.	Monitoring & Control of Influence Discharge Water using SCADA-PLC	1 1.Mr. Bankar Suyog Yashawant	
		2 2.Mr. Bhosale Saurabh Sambhaji	
		3 3.Ms. Durve Shraddha Sanjay	
3.	Automation of Water Tank using Relay Control	1 1..Mr. Koli Sahil Pritam	
		2 2.Ms. Lambe Aishwarya Ratnakant	
		3 3.Mr. Ruikar Saiprasad Mohan	


Mr. Surajkumar Sawai


Ms. Neelika Jagtap


Mr. Vikas Nandeshwar


Mr. Avinash Pawar

(HOD)

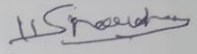
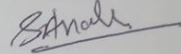
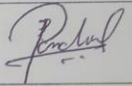
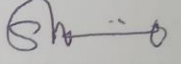
Attendance record of Project demo on 6th April 2018 (Academic year 2017-18)

Department of Instrumentation Engineering

Project presentation 1 attendance

Date: 17/08/2018

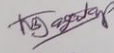

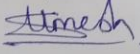



Time: 9.45 a.m.

Sr. NO.	Name of student	Project title	Sign
1	Mr. Dhawade Sachin Umesh	Automated Color Mixing Process Using PLC	
2	Mr. Halde Siddesh Ankush		
3	Mr. Pranit Panchal		
4	Mr. Shirke PrashantPratap		

Name of the staff:

Sign

HOD 17/08/18

- 1 Ms. Jagtap N.B. 
- 2 Ms. Nandeshkar v.S. 
- 3 Ms. Satpute U.M. 
- 4 Mr. Sadanand Gite 
5. Ms. Parshuram More, 
6. Ms. Poojya Lalit 

Project Presentation attendance on 17th August 2018 (Academic year 2018-19)