



**P.R. Pote Patil College of Engineering and Management, Amravati**



**Department of Electrical engineering**

**Academic Year 2022-23**

**Report on**

**TWO DAYS WORKSHOP FOR SUPPORTING STAFF**

**Name of course:** Two days hands on workshop of Basic Electrical-Electronics for technical support staff

**Nature of course:** Certificate Program

**Career opportunity:** Awareness about Basics of Electrical & Electronics

**Objectives of the Course:**

1. To understand fundamentals of Electrical & Electronics
2. To describe various elements and components of Electrical & Electronics

**Outcome of workshop:** On completion of the Workshop, learners should be able to

CO1: Understand the basics of Electrical & Electronics and list their applications

CO2: Describe interface between the Electrical & Electronics System with the help of input and output modes.

CO5: Demonstration the basic concepts and hardware of Electrical & Electronics system

**Duration of course:** 22<sup>th</sup> to 23<sup>th</sup> July 2022

**Resource person:** Mr. Mangesh Bharati (CEO, MDB Electrosoft Pvt. Ltd)

**Target participants:** All Supporting Staff P. R. Pote (Patil) Educational Group.

**Course Structure and Syllabus**

**Day 1:**

Introduction to Multimeter

1. Voltage Range (AC, DC)
2. Current Range
3. Ohmic Range
4. Transistor Test
5. How to measure current

## 6. How to measure Voltage

Introduction to Resistor:

- 7. Color coding of resistor
- 8. How to calculate resistor
- 9. How to measure resistance
- 10. How to use resistor
- 11. Wattage of resistor

Introduction to Capacitor:

- 12. How to check Capacitor
- 13. How to use capacitor
- 14. Application of capacitor

Introduction to CRO/DSO:

- 15. How to use CRO/DSO for different Measurements
- 16. How to measure frequency and voltage using CRO/DSO

Introduction to diode:

- 17. How to check PN Junction Diode
- 18. How to check light emitting Diode

Introduction to breadboard:

- 19. Structure of breadboard
- 20. How to assemble simple Circuit using breadboard

## **Day 2:**

Introduction to ICs:

- 21. How to refer datasheet of IC
- 22. How to check IC as per datasheet

Introduction to fixed power supply:

- 23. Introduction to PCB of Power supply
- 24. Circuit explanation
- 25. Assembling, soldering and Testing of Power Supply

Power supply problem checkup

Explanation of working of some of electronics based kits in lab

# NOTICE



## P. R. Pote Patil Group of Educational Institutions, Amravati

Pote Estate, Pote Patil Road, Kathore, Amravati. (Maharashtra)

0721-2530342, 44, 2530088 Fax No.: 0721- 2530341 Email: prpote@prpote.com, website: www.prpote.com

Ref. PRPCEM/

Date:

No. PRPCEM/Notice/495/2022

Date: 21-07-2022

### NOTICE


We have arranged two days hands on workshop of Basic Electrical - Electronics for technical support staff of all colleges of our group by expert Mr. Mangesh Bharati (MDB Electrosoft Pvt. Ltd.).


All Principal are requested to allow technical support staff to attend this two days workshop. The certificate will be issued after completion of this workshop.

Date : 22<sup>nd</sup> & 23<sup>rd</sup> July 2022

Time : 11.00 am to 4.00 pm

Venue : Electronics workshop (Electronics Dept.)

  
Prof. A. A. Ghute  
Event Coordinator

  
Director

To,

- All HODs : Electrical / EXTC / Mechanical / CSE / Civil
- Principal, P. R. Pote Patil College of Pharmacy
- Principal, P. R. Pote Patil College of Agriculture
- Principal, P. R. Patil College of Architecture.
- Dean, P. R. Pote Patil Institute & Hospital of Medical Sci Ayurved

PRPCEM,Amt.

**Method of Instruction:**

Physical Performance in Electronics Laboratory

**Course Mapping with POs and PSOs:**

| Workshop   |      |      |     |     |      |     | Academic Year: 2022-23 |     |     |      |      |      |
|--|------|------|-----|-----|------|-----|------------------------|-----|-----|------|------|------|
| Course/Subject: Basics of Electrical & Electronics |      |      |     |     |      |     |                        |     |     |      |      |      |
| CO   | PO1  | PO2  | PO3 | PO4 | PO5  | PO6 | PO7                    | PO8 | PO9 | PO10 | PO11 | PO12 |
| CO1  | -    | 1    | 2   | 1   | -    | -   | -                      | -   | -   | -    | -    | -    |
| CO2  | 1    | 2    | 2   | -   | -    | -   | -                      | -   | -   | -    | -    | -    |
| CO3  | -    | -    | -   | -   | -    | -   | -                      | -   | -   | -    | -    | 1    |
| CO4  | -    | -    | -   | -   | -    | -   | -                      | -   | -   | -    | -    | 1    |
| CO5  | 1    | 1    | 2   | 2   | 1    | -   | -                      | -   | -   | -    | -    | 2    |
| CO6  | -    | -    | -   | -   | -    | -   | -                      | -   | -   | -    | -    | 2    |
| Avg  | 0.83 | 1.67 | 2.0 | 1.0 | 1.33 | -   | -                      | -   | -   | -    | -    | 1.0  |

| CO  | PSO1 | PSO2 | PSO3 |
|-----|------|------|------|
| CO1 | 2    | 2    | 2    |
| CO2 | 2    | 3    | 2    |
| CO3 | 2    | 3    | 2    |
| CO4 | 3    | 2    | 3    |
| CO5 | 3    | 3    | 2    |
| CO6 | 2    | 3    | 3    |
| Avg | 2.5  | 2.7  | 2.4  |

## Snapshots of Workshop



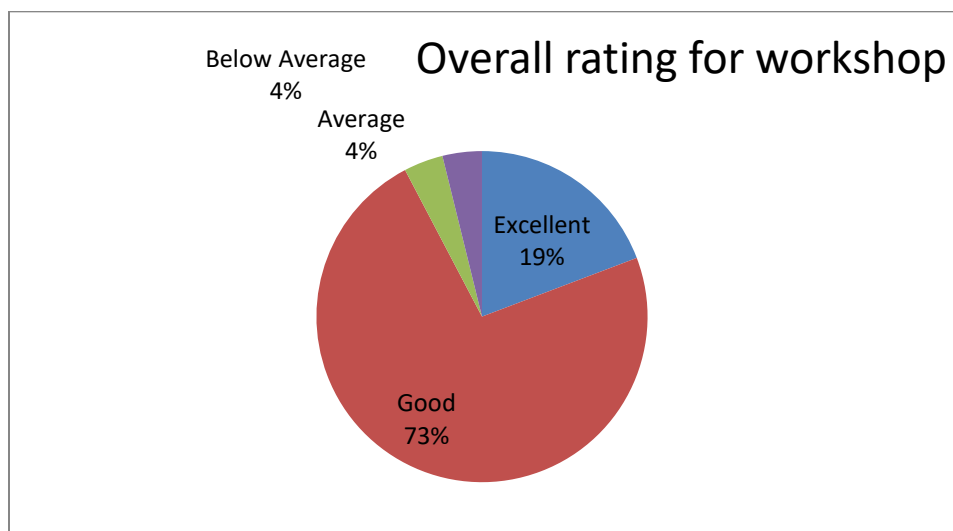
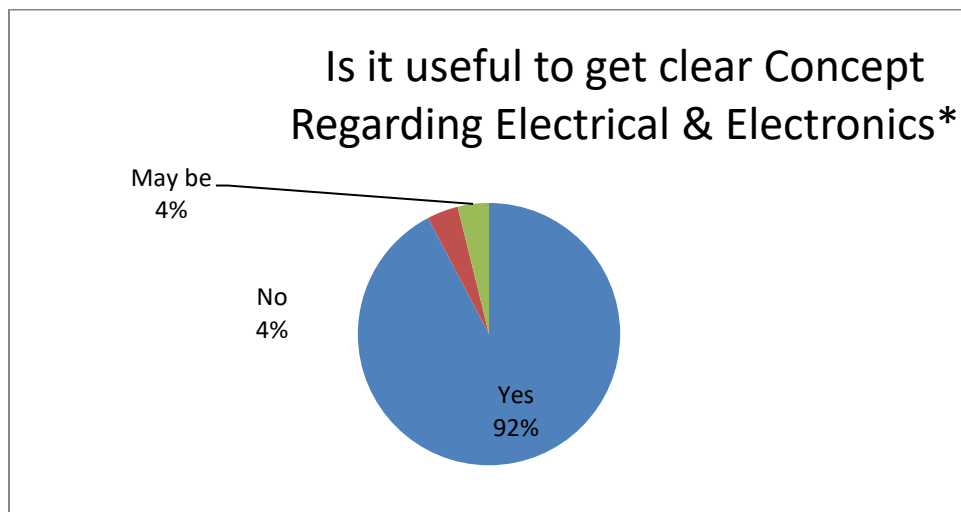
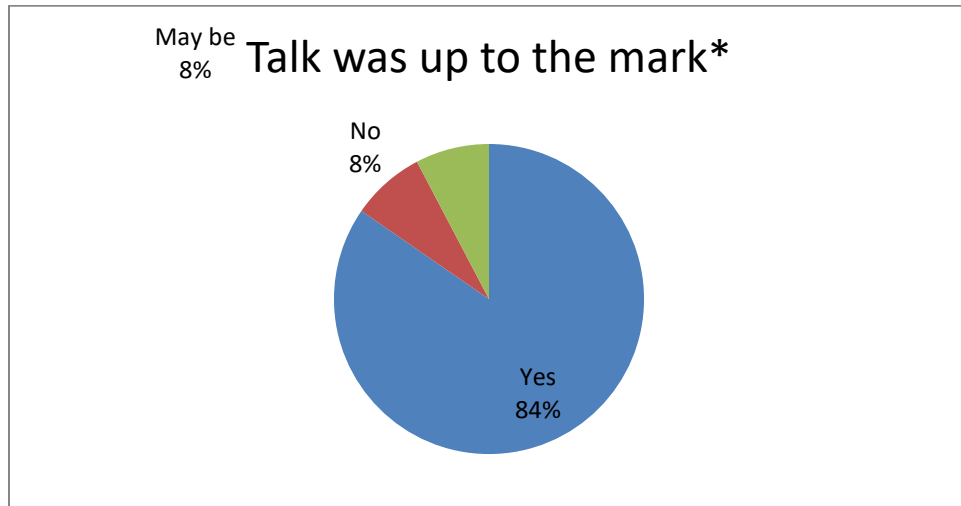




**Attendances:****P.R.POTE (PATIL) COLLEGE OF ENGINEERING & MANAGEMENT,  
AMRAVATI****ELECTRICAL ENGINEERING DEPARTMENT**

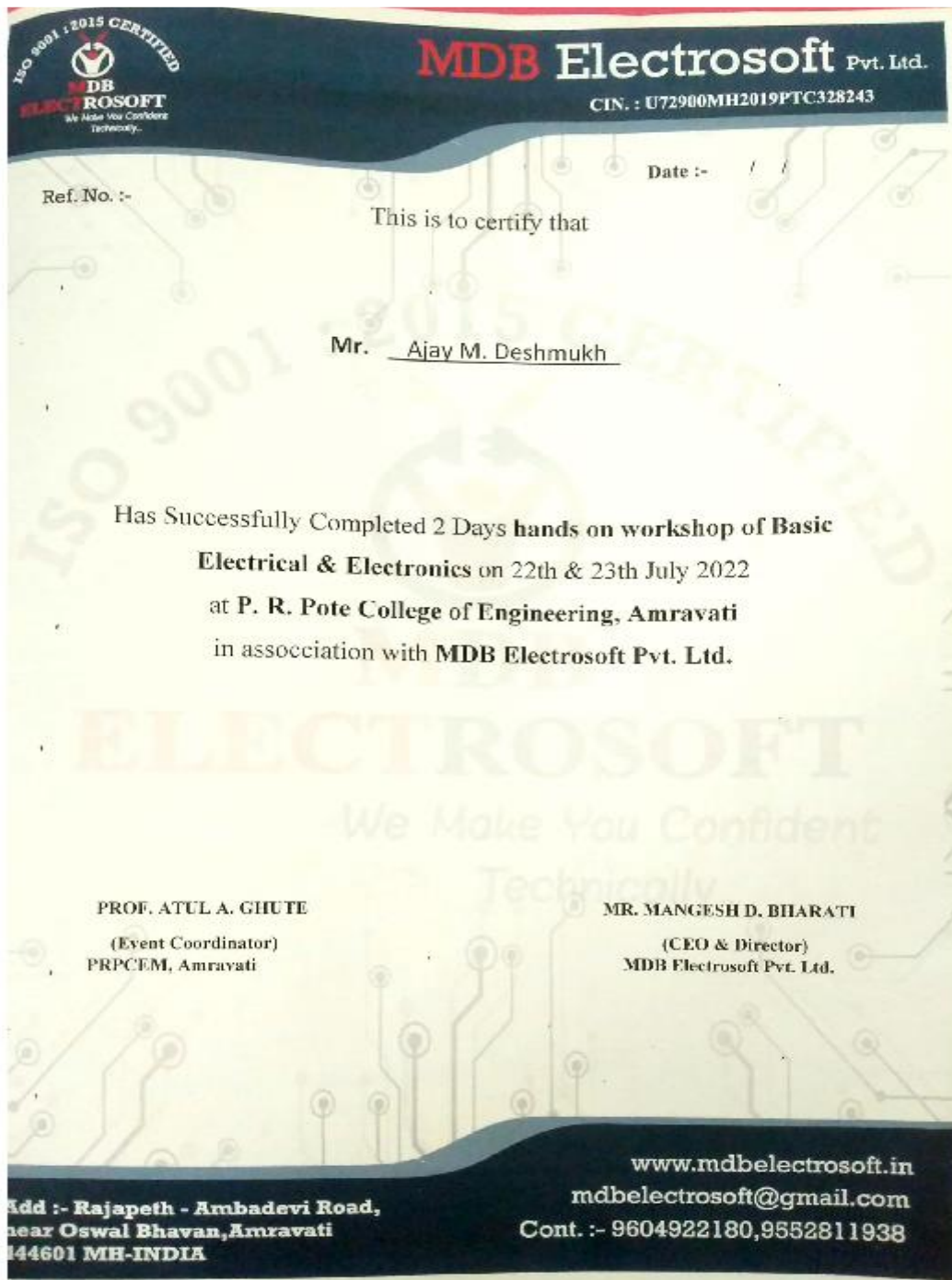
| <b>Sr. No</b> | <b>Name of technical Staff</b> | <b>Mobile No</b> | <b>22/07/2022</b> | <b>23/07/2022</b> |
|---------------|--------------------------------|------------------|-------------------|-------------------|
| 01            | Sunil nandurkar                | 9404110644       | Present           | Present           |
| 02            | Rupwansh Tehare                | 9503645940       | Present           | Present           |
| 03            | Aniket Manoj Bijwe             | 9527977809       | Present           | Present           |
| 04            | Mahes jagannath Tayade         | 9011839613       | Present           | Present           |
| 05            | Ramdas Kolhe                   | 8788008965       | Present           | Present           |
| 06            | Sanjay o bedre                 | 7758881247       | Present           | Present           |
| 07            | Ajay M. Deshmukh               | 9096365979       | Present           | Present           |
| 08            | Vivek bansilal vaidya          | 9420128311       | Present           | Present           |
| 09            | Akshay nimbhorkar              | 8390379623       | Present           | Present           |
| 10            | Mangesh C. Aswar               | 9834721342       | Present           | Present           |
| 11            | Amol prabhudas yeul            | 9503534802       | Present           | Present           |
| 12            | Rahul Kantole                  | 9403622777       | Present           | Present           |
| 13            | Anil Dharmale                  | 9657719508       | Present           | Present           |
| 14            | Mahendra Laxmanrao Sawale      | 7350454781       | Present           | Present           |
| 15            | Trishul dahake                 | 9960248343       | Present           | Present           |
| 16            | Ashutosh D.Zade                | 9850591815       | Present           | Present           |
| 17            | Manoj R. Siraskar              | 7972734287       | Present           | Present           |
| 18            | Shubham Kitukle                | 9503645940       | Present           | Present           |
| 19            | Amit baitule                   | 9049370300       | Present           | Present           |
| 20            | Vivek Dhaskat                  | 8830310771       | Present           | Present           |
| 21            | Sanjay Tiwari                  | 8390382338       | Present           | Present           |
| 22            | Rushikesh Kadu                 |                  | Present           | Present           |
| 23            | Sagar Bhagwatkar               | 9764834383       | Present           | Present           |
| 24            | Gopal Mahajan                  |                  | Present           | Present           |
| 25            | Nilesh Sarkate                 | 8668934015       | Present           | Present           |
| 26            | Sandeep Mankar                 |                  | Present           | Present           |
| 27            | Saksham Kale                   | 7020635524       | Present           | Present           |
| 28            | Akshay Nimbhorkar              | 8390379623       | Present           | Present           |
| 29            | Nitin Satarkar                 | 9021636667       | Present           | Present           |
| 30            | Shivcharan Patil               | 8554861462       | Present           | Present           |

## Feedback of workshop

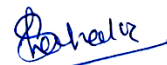




Sample Certificate



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**H.O.D. (Elect. Dept.)**  
**P.R.Pote (Patil) College of Engg. & Management**  
**Amravati.**