



Vidya Prasarak Mandal, Thane's  
**Maharshi Parshuram College Of Engineering**  
Hedvi-Guhagar road, At: **Velneshwar**, Taluka: Guhagar, Dist:  
Ratnagiri (Maharashtra) 415 729  
**(AICTE & DTE approved and affiliated to University of Mumbai)**

Tel No. 02359-243102/3/4  
Fax No. 02359-243102  
E-mail: mpcoe@vpmpcoe.org  
URL:www.vpmpcoe.org

**Department of Electrical Engineering**  
**Electrical Workshop**

**List of Equipments, Components**

| Sr.No. | Description             | Specifications | Qty. |
|--------|-------------------------|----------------|------|
| 1      | Resistor                | 0.25W          | 560  |
| 2      | Capacitor               | 1 $\mu$ F      | 125  |
| 3      | Capacitor               | ceramic        | 145  |
| 4      | Iron core inductor      | —              | 2    |
| 5      | Ferrite core inductor   | —              | 2    |
| 6      | Thyristor ( SCR )       | —              | 5    |
| 7      | BJT (PNP)               | PNP            | 5    |
| 8      | BJT (NPN)               | NPN            | 5    |
| 9      | Diode                   | IN4007         | 10   |
| 10     | Zener diode             | —              | 10   |
| 11     | LED                     | —              | 20   |
| 12     | DIAC                    | —              | 10   |
| 13     | MOSFET                  | —              | 2    |
| 14     | IGBT                    | —              | 2    |
| 15     | TRIAC                   | —              | 2    |
| 16     | SPDT                    | —              | 2    |
| 17     | DPDT                    | —              | 2    |
| 18     | SPST                    | —              | 2    |
| 19     | Crimping tool           | —              | 1    |
| 20     | DPST switces            | Duel ON /OFF   | 2    |
| 21     | Socket 5 A              | —              | 40   |
| 22     | Screws                  | —              | 200  |
| 23     | Lamp                    | 60W            | 20   |
| 24     | Measuring Tape          | 3 meter        | 2    |
| 25     | 2 pins & 3 pins (5 Amp) | —              | 100  |
| 26     | Drill machines          | —              | 2    |
| 27     | Two way switch          | —              | 50   |
| 28     | hammer                  | —              | 3    |
| 29     | Screw driver Set        | —              | 1    |
| 30     | Testers                 | —              | 2    |
| 31     | Strippers               | —              | 5    |
| 32     | Pliers                  | —              | 5    |
| 33     | Copper clads            | —              | 25   |
| 34     | Glass Epoxy PCB         | —              | 50   |
| 35     | IC 555 Timer            | —              | 100  |

|    |                           |                 |            |
|----|---------------------------|-----------------|------------|
| 36 | LED                       | _               | 100        |
| 37 | IC Base                   | _               | 50         |
| 38 | Connecting Wires          | 1x280           | 2          |
| 39 | FeCL3 Solution            | _               | 2          |
| 40 | Soldering Flux            | _               | 10         |
| 41 | Soldering Metal 500gm     | _               | 1          |
| 42 | Soldering Iron With Stand | _               | 5          |
| 43 | PCB Drilling Machine      | _               | 1          |
| 44 | Induction gas             | _               | 1          |
| 45 | Permanent Markers         | _               | 20         |
| 46 | Ceiling Rose              | _               | 5          |
| 47 | Bell switch               | _               | 5          |
| 48 | Batten Holder             | _               | 15         |
| 49 | Angle holder              | _               | 15         |
| 50 | Fan Regulator             | _               | 3          |
| 51 | MCB                       | 6A              | 3          |
| 52 | Three Pin Top             | _               | 5          |
| 53 | Junction box              | 1 way           | 1 Box      |
| 54 | Junction Box              | 4 way           | 1 Box      |
| 55 | junction box              | 2 way           | 1 Box      |
| 56 | Coupling                  | _               | 1 Box      |
| 57 | Saddle                    | _               | 1 Box      |
| 58 | Switch                    | 15A             | 1 Box      |
| 59 | Wire                      | 1.5 Sq.mm red   | 1 Bundle   |
| 60 | Wire                      | 1.5 Sq.mm Blue  | 1 Bundle   |
| 61 | Wire                      | 1.5 Sq.mm Black | 1/2 Bundle |
| 62 | Lugs                      | _               | 20         |
| 63 | Energy Meter              | _               | 1          |
| 64 | Pipe                      | 25mm            | 10         |
| 65 | Box                       | three way       | 1 box      |
| 66 | Plates                    | round           | 01 Box     |

## List of Experiments

| Sr.No | Title of Experiments                                                           |
|-------|--------------------------------------------------------------------------------|
| 1     | Study of different types of Symbols & tools used in Electrical Workshop        |
| 2     | Identify the values of different Resistor and Capacitor using the colures code |
| 3     | Study of different types of Cable, Switches                                    |
| 4     | To identify different types of Fuses, MCB, MCCB with ratings & usages          |
| 5     | Introduction to Electrical wiring & theirs different types                     |
| 6     | Design of Staircase wiring                                                     |
| 7     | Design of IC555 timer by using PCB                                             |