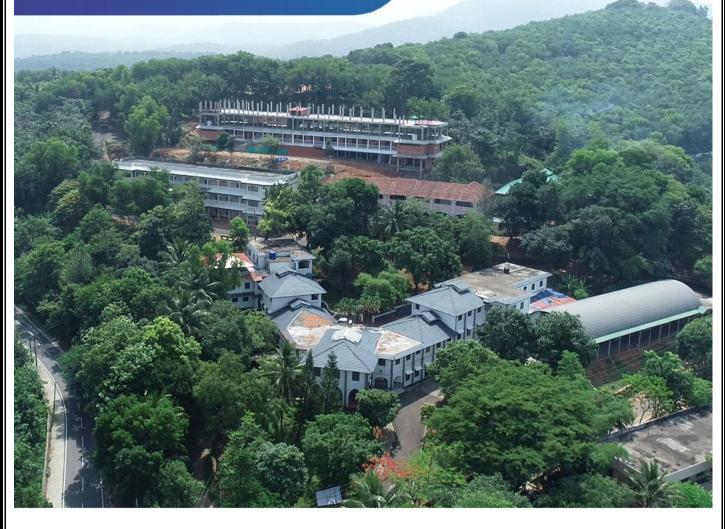


# **MES COLLEGE ERUMELY**

# ADD-ON COURSE LED BULB ASSEMBLING





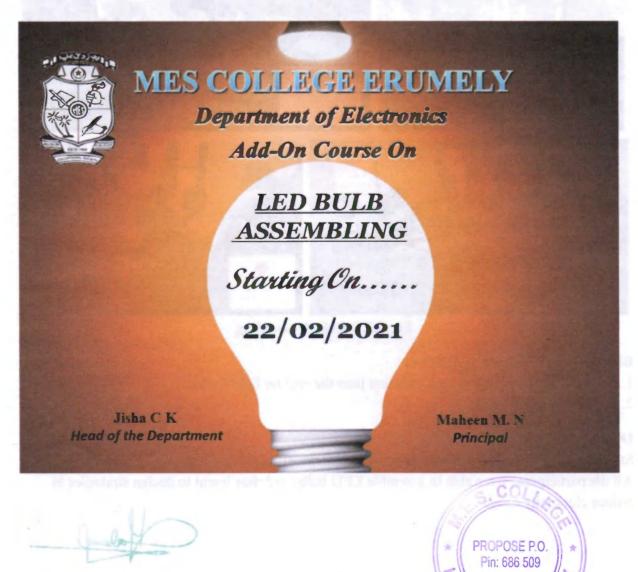


**MES COLLEGE ERUMELY** 

## DEPARTMENT OF ELECTRONICS ADD ON COURSE (2020-21) LED BULB ASSEMBLING

The department of Electronics conducted an add-on course on LED bulb assembling during the academic year 2020-21. The duration of this course is 30hrs and one hour training was given daily after the regular class hours .20 students of P.G and U.G classes were participated in this course. All the raw materials were purchased by contacting a dealer directly and the students assembled those parts by parts. The LED board, aluminium heatsink plate, plastic housing and the metal caps are the main parts required to assemble LED bulbs. We assembled 100 numbers of 9w LED bulbs.

#### BROCHURE



1M

#### **SYLLABUS**

#### Fundamentals of LED

Introduction, Types, operation, energy-efficient aspects

#### **Practical Session**

Hands on training, identification of parts like LED board, Aluminum heat sink plate, heatsink compound, plastic housing and metal cap Soldering practice

#### **OBJECTIVES**

- 1. To familiarize the students with parts and parts assembling of LED bulbs
- 2. To empower students with technical skills needed for industry as well as day-to-day life.
- 3. To enhance the employability of students
- 4. To sensitize students towards green technologies and make students socially responsible.



Fig: LED Bulb Assembling

#### **BENEFITS OF LED LIGHTING**

- 1. Long lasting and more energy efficient than the regular light bulbs.
- 2. Environmental friendly.

#### **OUTCOME OF THE COURSE**

Students were able to appreciate the need for energy efficient devices. All the participants were able to assemble LED bulbs and thus learnt to design strategies to reduce electricity usage.

> PROPOSE P.O Pin: 686 509

> > AM

NCIPAL M.E.S COLLEGE ERUMELY

# ADD ON COURSE (2020-21)

### LED BULB ASSEMBLING

## Participants List

| LA PARA PARA | istalstefültetti         | 22/2/2021 | 23/2/2021 | 24/2/2021 | 25/2/2021 | 26/2/2021 | 1/3/2021 | 2/3/2021 | 3/3/2021 | 4/3/2021 | 5/3/2021 | 8/3/2021 | 9/3/2021 | 10/3/2021 | 12/3/2021 | 15/3/2021 | 16/3/2021 | 17/3/2021 | 18/3/2021 | 19/3/2021 | 22/3/2021 | 23/3/2021 | 24/3/2021 | 25/3/2021 | 26/3/2021 | 5/4/2021 | 6/4/2021 | 7/4/2021 | 8/4/2021 | 9/4/2021 | 10/4/2021 |
|--------------|--------------------------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|-----------|
|              | Mark Ebeena E.           | Nor       | Mar       | m         | (A)       | m.        | ANY      | mb       | N'S      | 3        | all .    | The      | (hr)     | NA!       | rik       | mb        | mk        | et -      | (e)       | A S       | 3         | Les 1     | N         | d'        | NOF       | (da      | nr       | all.     | m        | ab       | n         |
|              | Taniya Christa Antoneeta | id        | 10        | 10        | C         | 12        | 6        | 0        | 0        | C        | 13       | 1et      | 0        | 6         | 6         | 1ck       | 6)        | te)       | 10/       | 10        | Cl        | el        | e/        | 10/       | N         | al       | et       | (cy)     | D?       | er       | el        |
|              | Abhigith V Prasad        | Nel.      |           | Nor       | AN/       | A.        | Stor I   | Jag      | Aller.   | X        | Xor      | a        | Alt      | S         | and the   | San       | A.        | 200       | Ad        | AND -     | Not       | Alt       | Ja.       | Pars      | a         | A A      | We way   | All      | No.      | Store .  | 1         |
|              | AkshayVijayan            | KA        | AN        | 1Xly      | a         | a         | stal     | Kas      | skhu     | the      | Char     | a        | the      | Color     | Jeh       |           | True      | Kil       | a         | Cal       | a         | Kh        | Klue      | the       | Kin       | Ma       | Khu      | leh      | Aw       | Bu       | a         |
|              | Anandhu S                | to        | In        | An        | to        | tw        | ton      | ten      | a        | Am       | Aan      | (And     | tan      | a         | Aba       | Arm       | And       | tra       | Ason      | the       | tour      | trans     | 20        | Acar      | a G       | An       | An       | Aur      | tas      | Auro     | en        |
|              | Harikrishnan U           | iA        | N         | V         | a         | 28        | J&       | A        | Ve       | A        | 12       | a        | X        | sa        | A         | S         | A         | 28        | X         | W         | 18        | X         | S         | 8         | SC        | s        | is       | a        | VP.      | S        | D         |
|              | JojiVarughese            | IG        | For       | Gà        | G         | G         | Sor      | a        | Foi      | Jett     | Jai      | Tor      | Jest i   | a         | Top       | Jap       | For       | Sign      | Top       | Jeji      | Jer       | Jet       | Sto.      | St        | F         | Gi       | Joji     | .Son     | E:       | Joya     | For ,     |
|              | Joyal P Roy              | à         | BE        | E S       | Be        | E.        | By       | SEY      | B        | BF       | a        | -87      | BY       | (age)     | a         | act -     | (AF)      | P)        | · AD      | a         | R         |           | 2         | a         | 30        | 3        | ST       | S        | B        | S.       | 201       |
|              | Lijo Mathew              | Lip       | Life      | Life      | Lip       | La        | lic      | Lit      | Lejo     | Life     | HE       | a        | a        | Leto      | Life      | Life      | Life      | 1.00      | a         | 130       | Lic       | Hic       | life      | Life      | 4p        | a        | à        | a        | Life     | ste      | Life      |
|              | Pranav Anil              | Re        | R         | R         | R         | h         | 9        | -fr      | de,      | Ry       | Ren      | D        | De       | Da        | a         | R         | de        | Ro        | P         | Do        | 20        | a         | R         | 24        | a         | the      | P        | De       | 2        | £.       | Ł         |
|              | Sreejith N G             | face      | Sal       | a         | 100       | Jorth     | Joy      | Joy      | fa       | a        | a        | yne      | 22       | 32        | you       | Joy       | 4001      | a         | fre       | J.        | Jul       | St        | Joy       | fa        | a         | for      | ful      | a        | 9        | a        | a         |

PROPOSE P.O. Pin: 686 509

PRINCIPAL M.E.S COLLEGE ERUMELY

nil