



# MES COLLEGE ERUMELY

**ADD-ON COURSE  
LED BULB ASSEMBLING**



**2020 - 2021**





# 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

**MES COLLEGE ERUMELY**  
*Department of Electronics*  
*Add-On Course On*  
**LED BULB**  
**ASSEMBLING**  
*Starting On.....*  
**22/02/2021**

**Jisha C K**  
*Head of the Department*

**Maheen M. N**  
*Principal*



## 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.



PRINCIPAL  
M.E.S COLLEGE ERUMELY



# ADD ON COURSE (2020-21)

## LED BULB ASSEMBLING

### Participants List

	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.	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml
Taniya Christa Antoneeta	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id
Abhigith V Prasad	ml	a	ml	ml	ml	ml	ml	ml	ml	ml	a	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	a	ml	ml	ml	ml	ml	ml
Akshay Vijayan	ml	ml	ml	a	a	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	a	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	a
Anandhu S	ml	ml	ml	ml	ml	ml	ml	a	ml	ml	ml	ml	a	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml	a	ml	ml	ml	ml	ml
Harikrishnan U	id	id	id	a	id	id	id	id	id	id	a	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	a	id	id	id
Joji Varughese	id	id	id	id	id	id	a	id	id	id	id	id	a	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id
Joyal P Roy	id	id	id	id	id	id	id	id	id	id	a	id	id	id	id	id	id	id	id	a	id	id	id	id	a	id	id	id	id	id	id
Lijo Mathew	id	id	id	id	id	id	id	id	id	id	a	a	id	id	id	id	id	a	id	id	id	id	id	id	id	a	a	a	id	id	id
Pranav Anil	id	id	id	id	id	id	id	id	id	id	id	id	id	a	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id	id
Sreejith N G	id	id	a	id	id	id	id	a	a	a	id	id	id	id	id	id	id	a	id	id	id	id	id	a	a	id	id	a	a	a	a



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PRINCIPAL  
M.E.S COLLEGE ERUMELY

*[Handwritten signature in black ink]*

Dr. M. L. S. College Erumely