



DON BOSCO COLLEGE

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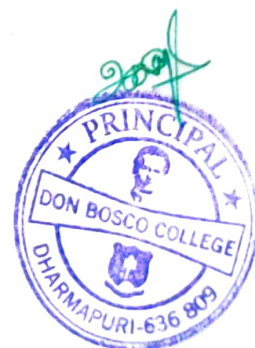


DEPARTMENT OF PHYSICS

REPORT ON CERTIFICATE PROGRAMME

Academic Year

2021 - 2022





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REPORT ON CERTIFICATE COURSE

ACADEMIC YEAR-2021-2022

DEPARTMENT NAME	PHYSICS
DATE(From – To)	2.03.2022 - 8.06.2022
DAY ORDER / HOUR	2.00 to 3.30 p.m
VENUE	PHYSICS LAB
COURSE NAME	LED BULB MAKING
STAFF NAME	BATCH I: K.YUVARANI BATCH II:P.INBAM
NO OF PARTICIPANTS	BATCH I: 36 BATCH II:16 TOTAL: 52
BRIEF REPORT :	<p>Certificate course LED Bulb Making was conducted by K.Yuvarani Ass.Professor of physics, for Batch I P.Inbam Ass.Professor of physics, for Batch II. This course the students have able to assemble and also able to manufacture bulb in less expense way. This course initiates students to start up a small scale industry and to it induces them to be a good entrepreneur.</p>



NAME OF THE COURSE : LED BULB MAKING

Aim

In this study, the most prevalent luminaire uses in the current environment were used to compute, analyse, and evaluate the luminous performance, human performance, and cost of LED and traditional (linear fluorescent, compact fluorescent, and incandescent) lighting systems.

Objectives

The main goal is to conduct a feasibility study on using LED lighting to replace fluorescent lighting in business buildings and to evaluate how people function under different lighting conditions. in those lighting circumstances.

- Identify the buildings' power consumption and load factor are the study's specific goals.
- Analyze how people function under LED and conventional lighting conditions.
- Analysis of the economics of LED lighting in contrast to fluorescent lighting
- to what extent the current lighting system can be successfully replaced by LED technology



SYLLABUS

LED Bulb Making Course

Unit-I

Introduction-Types of LEDs-Efficacy-LED Construction-Organic Light Emitting Diodes (OLED)-Light Emitting Diode Colours

Unit-II

Radiation Pattern-General Characteristics of Light Sources-Drive Current Vs Light Output-Quantum Efficiency-Switching Speed-Spectral Wavelength-Spectral Width

Unit III

LED - I-V Characteristics-LED Series Resistance Calculation-Controlling of LED Light

Unit –IV

Multi – Color Light Emitting Diode-Bi-Color Light Emitting Diodes-Tri Colored Light Emitting Diode

Unit-V

LED Driver Circuits-Driving an LED Using Transistor- LED Displays-LED Advantages, Disadvantages and Applications



STUDENTS NAME LIST

BATCH I – 2021-2022

S.No	REG.NO	NAME	SIGNATURE
1.	18UPH3015LE	OVIYA S	Oviya.S
2.	19UPH2553	AJITH KUMAR S	Ajith Kumar S
3.	19UPH2554	AJITHKUMAR P	Ajith Kumar P
4.	19UPH2555	ARIVALAGAN E	Arivalagan E
5.	19UPH2556	CHANDRU P	P. Chandru
6.	19UPH2557	EALUMALAIVASAN S	Ealumalaivasan S
7.	19UPH2558	ELANGOVAN S	J. Elango Van S
8.	19UPH2559	GOPIKRISHNAN R	R. Gopi
9.	19UPH2560	GOVINDARAJ V	Govindaraj V
10.	19UPH2561	HEYRAMHARIHARAN M	M. Hariharan
11.	19UPH2562	JEEVANANTHAN A	Jeevananthan A
12.	19UPH2563	KALAIYARASAN K	K. Kalaiyarasan
13.	19UPH2564	KARTHIKEYAN D	Karthikeyan D
14.	19UPH2565	KARTHIKEYAN M	M. Karthikeyan
15.	19UPH2566	KAVIYAMUTHAN M	M. Kaviyamuthan
16.	19UPH2567	LINGAIYA G	Lingaiya G
17.	19UPH2568	NANDHA KUMAR P	Nandha Kumar P
18.	19UPH2569	NANDHAKUMAR B	B. Nandha Kumar
19.	19UPH2570	NARESH KANNAN J	J. Naresh Kannan
20.	19UPH2571	PACHIAPPAN G	G. Pachiappan
21.	19UPH2572	POOVARASU C	Poovarasu C
22.	19UPH2573	RAGAVAN J	J. Ragavan
23.	19UPH2574	SAKTHIVEL R	R. Sakthivel
24.	19UPH2575	SANDHANABHARATHI C	C. Sandhanabharathi
25.	19UPH2576	SUDHARSAN M	M. Sudharsan
26.	19UPH2577	SUKLAVARMA P	P. Suklavarma
27.	19UPH2578	TAMIL S	Tamil S
28.	19UPH2579	UDHAYAKUMAR S	S. Udhayakumar
29.	19UPH2580	VASANTHAKUMAR V	V. Vasanthakumar
30.	19UPH2581	VIGNESH S	S. Vignesh
31.	19UPH2582	ELAYAMATHI E	E. Elayamathi
32.	19UPH2583	KARTHIKA J	J. Karthika
33.	19UPH2584	RUKUMANI P	P. Rukumani
34.	19UPH2585	SAMYUKTHA D M	M. Samyuktha D
35.	19UPH2586	SATHYA K	K. Sathya
36.	19UPH2587	YOGANA S	S. Yogana



STUDENTS NAME LIST

BATCH II – 2021-2022

S.No	REG.NO	NAME	SIGNATURE
1.	20UPH1813	ARUN N	N. Arun
2.	20UPH1814	CHOWTHRIRAJ Y	Y. Chowthriraj
3.	20UPH1817	LOKESH G	Lokesh. G
4.	20UPH1818	PLAMINRAJ M	M. Plaminraj
5.	20UPH1819	RAGULGANDHI M	M. Ragul Gandhi
6.	20UPH1820	RASU S	Rasu. S
7.	20UPH1822	SAKTHIPERUMAL K	K. Sakthiparumal
8.	20UPH1823	SAKTHIVEL M	M. Sakthivel
9.	20UPH1824	SANJAI R	R. Sanjai
10.	20UPH1825	SANTHOSH M	M. Santhosh
11.	20UPH1826	TAMIL SELVAN M	M. Tamil Selvan
12.	20UPH1827	VIGNESH S	S. Vignesh
13.	20UPH1828	ATCHAYA S	S. Atchaya
14.	20UPH1829	KOWSALYA M	M. Kowsalya
15.	20UPH1830	SASISARALA L	L. Sasisarala
16.	20UPH1831	SWETHA A	A. Swetha

