



DON BOSCO COLLEGE

Athiyaman Bypass Road, Sogathur Post, Dharmapuri 636 809

Phone : 9443604446, 9443604447

E-mail : dbc155@live.in Website : www.dbcdharmapuri.edu.in



DEPARTMENT OF PHYSICS

REPORT ON CERTIFICATE PROGRAMMES

Academic Year

2019 - 2020





DON BOSCO COLLEGE

Athiyaman Bypass Road, Sogathur Post, Dharmapuri 636 809

Phone : 9443604446, 9443604447

E-mail : dbc155@live.in Website : www.dbcdharmapuri.edu.in



REPORT ON CERTIFICATE COURSE

ACADEMIC YEAR-2019-2020

DEPARTMENT NAME	PHYSICS
DATE(From – To)	20.07.2019 - 20.9.2019
DAY ORDER / HOUR	2.00 to 3.30 pm
VENUE	PHYSICS LAB
COURSE NAME	LED BULB MAKING
STAFF NAME	BATCH I: III PHY P.INBAM BATCH II: II PHY M.SEKAR
NO OF PARTICIPANTS	BATCH I: III PHY- 45 BATCH II: II PHY-42 TOTAL: 87
BRIEF REPORT : Certificate course conducted by P.Inbam Asst.Professor of Physics, for Batch I and M.Sekar HoD cum Asst. 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	



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

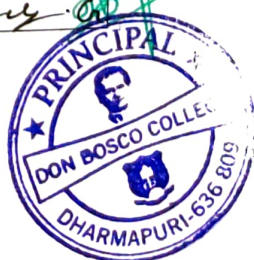
LED Driver Circuits-Driving an LED Using Transistor- LED Displays-LED Advantages, Disadvantages and Applications



STUDENTS NAME LIST

BATCH I – 2019-2020

S.No	REG.NO	NAME	SIGNATURE
1.	17UPH2873	Elavarasi.R	Elavarasi.R
2.	17UPH2875	Lalitha T	Lalitha.T
3.	17UPH2876	Nithya S	S. Nithya
4.	17UPH2877	Priyanga M	Priyanga.M
5.	17UPH2878	Priyanka M	M. Priyanka
6.	17UPH2879	Sreenidhi V	V. Sreenidhi
7.	17UPH2881	Anbazhagan S	Anbazhagan.S
8.	17UPH2882	Antony Irudhayaraj X	X. Antony
9.	17UPH2883	Aravindh A	A. Aravindh
10.	17UPH2884	Aravindh M	M. Aravindh
11.	17UPH2885	Arun C	C. Arun
12.	17UPH2886	Arun Gandhi M	A. Gandhi.M
13.	17UPH2887	Baskar K	K. Baskar
14.	17UPH2888	Bosco Selvaraj X	X. Bosco Selvaraj
15.	17UPH2889	Dhana Sekaran S	Dhana Sekaran.S
16.	17UPH2890	Dhilipkumar S	Dhilipkumar.S
17.	17UPH2891	Elavarasan P	P. Elavarasan
18.	17UPH2892	Ezhil Arasan G	Ezhil Arasan.G
19.	17UPH2893	Govindharaj M	M. Govindharaj
20.	17UPH2894	Govindaraj R	R. Govindaraj
21.	17UPH2895	Isai Priyan M	M. Isai Priyan
22.	17UPH2896	Kalaiselvan K	K. Kalaiselvan
23.	17UPH2897	Kaviyarasu.M	M. Kaviyarasu
24.	17UPH2898	Kumar P	P. Kumar
25.	17UPH2899	Loganathan M	M. Loganathan
26.	17UPH2901	Maharajan S	S. Maharajan
27.	17UPH2902	Manikandan M	M. Manikandan
28.	17UPH2903	Mariyappan M	M. Mariyappan
29.	17UPH2904	Mohankumar K	K. Mohankumar
30.	17UPH2905	Navasshariff K	K. Navasshariff
31.	17UPH2906	Naveenarasu S	S. Naveenarasu
32.	17UPH2907	Nirmalkumar G	G. Nirmalkumar
33.	17UPH2908	Prakash Ram N	N. Prakash Ram
34.	17UPH2910	Ravivarman R	R. Ravivarman
35.	17UPH2912	Sasikumar G	G. Sasikumar
36.	17UPH2913	Shandru S	S. Shandru
37.	17UPH2914	Srikanth G	G. Srikanth
38.	17UPH2915	Stalin R	R. Stalin
39.	17UPH2916	Suresh M	M. Suresh
40.	17UPH2917	Tamizharasan J	J. Tamizharasan
41.	17UPH2918	Venkatraman M	M. Venkatraman
42.	17UPH2919	Vignesh R	R. Vignesh
43.	17UPH2920	Vishnu S	S. Vishnu
44.	17UPH2921	Vishwa N	N. Vishwa
45.	17UPH2922	Yasvanth G	G. Yasvanth



STUDENTS NAME LIST

BATCH II – 2019-2020

S.No	REG.NO	NAME	SIGNATURE
1.	18UPH2635	AJAYGOSH S	S. Ajaygosh
2.	18UPH2636	ARAVINDHAN S	S. Aravindhan
3.	18UPH2637	ARUNAGIRI S	Arunagiris
4.	18UPH2638	ASHOK G	Ashok G
5.	18UPH2639	AZHAGIYAMANAVALAN L	Azhagiyanavalan L
6.	18UPH2640	BALAMURUGAN S	S. Balam
7.	18UPH2641	BARATHRAJ J S	J.S. Barathraj
8.	18UPH2642	BHUVANESHWAR A	Bhuvaneshwar A
9.	18UPH2643	CHANDRU K	Chandru K
10.	18UPH2644	DEEPAN A	A. Deepan
11.	18UPH2645	DHANUSHKUMAR S	Dhanush
12.	18UPH2646	DHARMALINGAM M	M. Dharmalingam
13.	18UPH2647	ELANGO VAN S	Elango Van S
14.	18UPH2648	GOKUL S	S. Gokul
15.	18UPH2649	GOKULANANTHAN C	Gokulanathan C
16.	18UPH2650	GOKULKANNAN R	R. Gokulkannan
17.	18UPH2652	KARTHIKEYAN M	Karthikeyan M
18.	18UPH2653	MEIRAJAN M	M. Meirajan
19.	18UPH2654	MOHANKUMAR S	Mohankumar S
20.	18UPH2655	PAVIN KUMAR K	Pavin Kumar K
21.	18UPH2656	POOVARASAN P	Poovarasan P
22.	18UPH2657	SANJAIKUMAR M	M. Sanjai Kumar
23.	18UPH2658	SATHISH KUMAR R	Sathish Kumar R
24.	18UPH2659	SRINIVASAN K	Srinivasan K
25.	18UPH2660	SRIPERUMAL M	M. Sriperumal
26.	18UPH2661	SRIRAM M	M. Sri Ram
27.	18UPH2662	SUDHAGAR S	Sudhagar S
28.	18UPH2663	SURENDHIRAN P	Surendhiran P
29.	18UPH2664	THAVASELVAM D	D. Thavaselvam
30.	18UPH2665	VAJRAVEL K	K. Vajravel
31.	18UPH2666	VASANTHAKUMAR K	Vasanthakumar K
32.	18UPH2667	VENKATESH A	A. Venkatesh
33.	18UPH2668	VISHAL A	Vishal A
34.	18UPH2669	VISITHKUMAR R	Visithkumar R
35.	18UPH2670	YUVARAJ S	S. Yuvaraj
36.	18UPH2671	DEEPIKA M	Deepika M
37.	18UPH2672	KALAIYARASI M	Kalaiyarsi M
38.	18UPH2673	RAASIKA B	Rasika B
39.	18UPH2674	SENBAGAPRIYA P	Senbagapriya P
40.	18UPH2675	SENTHAMARAI C	Senthamarai C
41.	18UPH2676	SIVARANJINI S	Sivaranjini S
42.	18UPH2677	YUVASRI S	S. Yuvasri

