



DON BOSCO COLLEGE

Athiyaman Bypass Road, Sogathur Post, Dharmapuri 636 809

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DEPARTMENT OF PHYSICS

REPORT ON CERTIFICATE PROGRAMME

Academic Year

2017 - 2018





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REPORT ON CERTIFICATE COURSE ACADEMIC YEAR-2017-2018

DEPARTMENT NAME	PHYSICS
DATE(From - To)	13.07.2017 - 9.09.2017
DAY ORDER / HOUR	Batch I - 9.30 to 11.30 am Batch II - 11.30 to 1.30 pm
VENUE	PHYSICS LAB
COURSE NAME	LED BULB MAKING
STAFF NAME	BATCH I: III PHY P.INBAM BATCH II: III ENG M.SEKAR
NO OF PARTICIPANTS	BATCH I: III PHY- 49 BATCH II: III ENG-49 TOTAL: 98
BRIEF REPORT : Certificate course conducted by P.Inbam Asst. Professor of Physics , for Batch I and M.Sekar 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 student 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



BATCH I - 2017-2018

S.No	REG.NO	NAME	SIGNATURE
1.	15UPH2981	ADHIKUMAR K	ADHIKUMAR K
2.	15UPH2982	ANANDHAVEL L	L. ANANDHAVEL
3.	15UPH2983	ARUNKUMAR S	Arunkumar S
4.	15UPH2984	AVINASH S	S. Avinash
5.	15UPH2985	BASKARAN P	P. Baskaran
6.	15UPH2986	CHINNASAMY S	S. Chinnasamy
7.	15UPH2987	DHARUMAN M	M. Dharmaraj
8.	15UPH2988	DILIP KUMAR M	M. Dilip Kumar
9.	15UPH2989	KALAIYARASAN D	D. Kalaiyaran
10.	15UPH2990	KAVIN P	P. Kavay
11.	15UPH2991	KAVINRAJ C	C. Kaviraj
12.	15UPH2992	KESAVAN Y	Y. Kesavan
13.	15UPH2993	KUMARAVEL C	C. Kumaravel
14.	15UPH2994	MANIGANDAN P S	S. Manigandan
15.	15UPH2995	MOHAMED IBRAHIM J	J. Ibrahim
16.	15UPH2996	MOHAN M	M. Mohan
17.	15UPH2998	PERIYASAMY K	K. Periyasamy
18.	15UPH2999	PERIYASAMY T	T. Periyasamy
19.	15UPH3000	SACHIN G	G. Sachin
20.	15UPH3001	SAKTHIVEL R	R. Sakthivel
21.	15UPH3002	SARAVANAN S	S. Saravanan
22.	15UPH3003	SATHISH KUMAR K	K. Sathish Kumar
23.	15UPH3004	SATHISH KUMAR N	N. Sathish Kumar
24.	15UPH3005	SATHISH M	M. Sathish Kumar
25.	15UPH3006	SATHISHKUMAR M	M. Sathish Kumar
26.	15UPH3007	SATHIVEL R	R. Sathivel
27.	15UPH3008	SHAIKUL ALAM LASKAR	L. Shaikul Alam
28.	15UPH3009	SIVA GANAPATHI G	G. Siva Ganapathi
29.	15UPH3010	SRIDHARAN.P	P. Sriharan
30.	15UPH3011	SURYA M	M. Surya
31.	15UPH3012	TAMILVOZHI R M	M. Tamilvozhil
32.	15UPH3014	VARATHARAJ M	M. Varatharaj
33.	15UPH3015	VEERAMANI K	K. Veeramani
34.	15UPH3016	VIGNESH M	M. Vignesh
35.	15UPH3017	VINOTH C	C. Vinoth
36.	15UPH3018	VINOTH KUMAR V	V. Vinoth Kumar
37.	15UPH3019	VINOTH P	P. Vinoth
38.	15UPH3020	JAMUNA C	C. Jamuna
39.	15UPH3021	KANCHANA G	G. Kanchana
40.	15UPH3022	NAZIMA A	A. Nazima
41.	15UPH3023	PAVITHRA D	D. Pavithra
42.	15UPH3024	POORNIMA M	M. Poornima
43.	15UPH3025	PRABAVATHI T	T. Prabavathi
44.	15UPH3026	PRIYA DHARSHINI V	V. Priya Dharshini
45.	15UPH3027	PRIYA DHARSHINI V	V. Priya Dharshini



46.	15UPH3028	SARANYA S	Saranya S
47.	15UPH3029	SATHIYAVANI G	Sathyavani G
48.	15UPH3030	YEDAL DAYANA A	Yedal Dayana A
49.	14UPH2989	VIJI P	P. Viji



STUDENTS NAME LIST

BATCH II - 2017-2018

S.No	REG.NO	NAME	SIGNATURE
1.	14UEN4479LE	SIVARAMAN R	Sivaraman R
2.	15UEN3759	AJITHKUMAR M	M. Ajithkumar
3.	15UEN3760	ANAND S	S. ANAND
4.	15UEN3761	ANBARASU G	G. ANBARASU
5.	15UEN3763	BALAJI S	S. Balaji
6.	15UEN3764	BARATHKUMAR P	P. Barathkumar
7.	15UEN3765	CHINNASAMY P	Chinnasamy P
8.	15UEN3767	GUNASEKARAN A	A. Gunasekaran
9.	15UEN3768	HARIHARAN R	R. Hariharan
10.	15UEN3769	HARIRAJAN A	A. Hariharan
11.	15UEN3770	JAYAPRAKASH A	A. Jayaprakash
12.	15UEN3772	KARTHIKEYAN N	N. Karthikeyan
13.	15UEN3774	MADHAIYAN M	M. Madhaiyan
14.	15UEN3775	MAHENDIRAN M	M. Mahendiran
15.	15UEN3776	MANI A	A. Mani
16.	15UEN3777	MANJUNATH D	D. Manjunath
17.	15UEN3778	MICHELRAJ R	R. Michelraj
18.	15UEN3779	MUGESHKANNAN V	V. Mugeshkannan
19.	15UEN3780	PASUPATHI A	A. Pasupathi
20.	15UEN3782	RAGU A	A. Ragu
21.	15UEN3784	SAKTHIVEL S	S. Sakthivel
22.	15UEN3787	SANTHOSH G	G. Santhosh
23.	15UEN3788	SHAKILAKTHAR A	A. Shakilakthar
24.	15UEN3790	SUGUMAR S	S. Sugumar
25.	15UEN3793	THIRUMALAIVASAN M	M. Thirumalaivasan
26.	15UEN3794	VETRIVEL G	G. Vetrivel
27.	15UEN3795	VIGNESH M	M. Vignesh
28.	15UEN3796	VIJAY M	M. Vijay
29.	15UEN3799	VIKRAM M	M. Vikram
30.	15UEN3800	ABINAYA S	S. Abinaya
31.	15UEN3802	ANITHA J	J. Anitha
32.	15UEN3803	ESTHARPHILOMINAL S	S. ESTHARPHILOMINAL
33.	15UEN3804	GOMATHI M	M. Gomathi
34.	15UEN3806	JERLIN D	D. Jerlin
35.	15UEN3807	JOTHI S	S. Jothi
36.	15UEN3809	KHATRIYA BEGAM W	W. Khatriya
37.	15UEN3811	MALINI D	D. Malini
38.	15UEN3812	MELBA B	B. Melba
39.	15UEN3814	NANDHINI M	M. Nandhini
40.	15UEN3815	NATHIYA G	G. Nathiya
41.	15UEN3816	SAGUNTHALA J	J. Sagunthala
42.	15UEN3817	SONIYA P	P. Soniya
43.	15UEN3818	SOUNDARA M	M. Soundara
44.	15UEN3819	SOWMIYA S	S. Sowmiya
45.	15UEN3820	SUBASINI S	S. Subasini
46.	15UEN3821	THARINI K	K. Tharini
47.	15UEN3822	UMAPRIYA M	M. Umapriya
48.	15UEN3824	VIDHYA M	M. Vidhya
49.	15UEN3825	VIDHYA P	P. Vidhya

