



DON BOSCO COLLEGE

Athiyaman Bypass Road, Sogathur Post, Dharmapuri 636 809

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DEPARTMENT OF PHYSICS

REPORT ON CERTIFICATE PROGRAMME

Academic Year

2018 - 2019





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REPORT ON CERTIFICATE COURSE

ACADEMIC YEAR-2018-2019

DEPARTMENT NAME	PHYSICS
DATE(From – To)	16.08.2018 - 27.09.2018
DAY ORDER / HOUR	2.00 to 3.30 p.m
VENUE	PHYSICS LAB
COURSE NAME	LED BULB MAKING
STAFF NAME	BATCH I: III PHY S.RAMKUMAR BATCH II: III CHE R.RANJITHKUMAR
NO OF PARTICIPANTS	BATCH I: III PHY- 49 BATCH II: III CHE-95 TOTAL: 143
BRIEF REPORT : Certificate course conducted by S.Ramkumar Asst.Professor of Physics , for Batch I and R.Ranjithkumar 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 - 2018-2019

S.No	REG.NO	NAME	SIGNATURE
1.	16UPH2635	ANTONY PRAVEEN B	B. Antony Praveen
2.	16UPH2636	ARAVIND K	K. Aravind
3.	16UPH2637	ARAVINTH S	S. Aravindh
4.	16UPH2638	AROCKIARAJ S	A. Arockiaraj
5.	16UPH2639	ARULSELVAN K	K. Arulseivan
6.	16UPH2640	ARUN K	K. Arun
7.	16UPH2641	ARUN KUMAR M	M. Arun Kumar
8.	16UPH2642	ARUNKUMAR S	S. Arunkumar
9.	16UPH2643	ASHOK G	G. Ashok
10.	16UPH2644	BASKAR K	K. Baskar
11.	16UPH2645	BHARATHI T	T. Bharathi
12.	16UPH2646	DAKSHANA MOORTHY A	A. Dakshana Moorthy
13.	16UPH2647	DINESH M	M. Dinesh
14.	16UPH2648	GOKUL M	M. Gokul
15.	16UPH2649	JAYASEELAN M	M. Jayaseelan
16.	16UPH2650	KARTHICK M	M. Karthick
17.	16UPH2651	KATHIRVEL M	M. Kathirvel
18.	16UPH2652	MANIKANDAN N	N. Manikandan
19.	16UPH2653	MANIMARAN P	P. Manimaran
20.	16UPH2654	MANIVASAKAM.T	T. Manivasakam
21.	16UPH2655	MUGESHKANNAN V	V. Mugeshkannan
22.	16UPH2656	MUNIYAPPAN R	R. Muniyappan
23.	16UPH2657	MURUGAN G	G. Murugan
24.	16UPH2658	PRABU N	N. Prabhu
25.	16UPH2659	SAKTHIVEL G	G. Sakthivel
26.	16UPH2660	SASIKUMAR C	C. Sasikumar
27.	16UPH2661	SATHISHKUMAR S	S. Sathishkumar
28.	16UPH2662	SATHYAMOORTHY S	S. Sathyamoorthy
29.	16UPH2663	SELVAM G	G. Selvam
30.	16UPH2664	SHANMUGAM M	M. Shanmugam
31.	16UPH2665	SILAMBARASAN R	R. Silambarasan
32.	16UPH2666	SIVA K	K. Siva
33.	16UPH2667	SRIDHAR P	P. Sridhar
34.	16UPH2668	SRINIVASAN K	K. Srinivasan
35.	16UPH2669	TAMILARASAN V	V. Tamilarasan
36.	16UPH2670	THIRUPATHI G	G. Thirupathi
37.	16UPH2671	UDHAYAVARMAN S A	S. A. Udhayavarma
38.	16UPH2672	VIGNESH M	M. Vignesh
39.	16UPH2673	VINAYAGAM M	M. Vinayagam
40.	16UPH2674	VINAYAKAMOORTHY P	P. Vinayakamoorthy
41.	16UPH2675	VINOTHKUMAR R	R. Vinothkumar
42.	16UPH2676	AMALIN SIRIYA PUSHPAM A	A. Amalin Siriya Pushpam
43.	16UPH2677	ARIPRIYA M	M. Aripriya
44.	16UPH2678	JENIFER GRACY D	D. Jenifer Gracy
45.	16UPH2679	MALAVIKA A	A. Malavika
46.	16UPH2680	SANTHI N	N. Santhi
47.	16UPH2681	SATHYA S	S. Sathya
48.	16UPH2682	SUGUNA M	M. Suguna

49. 16uph2683

VENKATALAKSHMI. R



STUDENTS NAME LIST

BATCH II – 2018-2019

S.No	REG.NO	NAME	SIGNATURE
1.	16UCH3061	AJITHKUMAR D	D. Ajithkumar
2.	16UCH3062	ANANTH S	Ananth S
3.	16UCH3063	ANILKUMAR G	Anil Kumar G
4.	16UCH3064	ARAVINDKUMAR S	S. Aravind Kumar
5.	16UCH3065	ARAVINDKUMAR S	S. Aravind Kumar
6.	16UCH3066	ARAVINTH P	Aravinth P
7.	16UCH3067	ARUL M	M. Arul
8.	16UCH3068	ASHOKKUMAR J	Ashok Kumar J
9.	16UCH3069	BALAJI A	BALAJI A
10.	16UCH3070	BALAJI M	Balaji M
11.	16UCH3071	BALAMURUGAN M	M. Balamurugan
12.	16UCH3073	BUVANESHWARAN M	Buvaneshwaran M
13.	16UCH3074	CHENNA BASAPPA S	Chenna Basappa S
14.	16UCH3075	CHINNASAMY V	V. Chinnasamy
15.	16UCH3076	DHANASEKARAN A	A. Dhana Sekaran
16.	16UCH3077	DHARUMAN T	T. Dharaman
17.	16UCH3078	GANESAMOORTHY C	C. Ganesamoorthy
18.	16UCH3079	GANESHKUMAR S	S. Ganesh Kumar
19.	16UCH3080	GOVINDASAMY K	K. Govindasamy
20.	16UCH3082	GOWTHAM T	T. Gowtham
21.	16UCH3083	HAREESH M	M. Hareesh
22.	16UCH3084	JEEVANANTHAM K	K. Jeevanantham
23.	16UCH3086	KARTHICK S	S. Karthick
24.	16UCH3087	KARTHICK	Karthick
25.	16UCH3088	KASI M	M. Kasi
26.	16UCH3089	KAVIARASAN T	T. Kaviarasan
27.	16UCH3090	MADHANKUMAR M	M. Madhankumar
28.	16UCH3091	MAITHILKUMAR P	P. Maithilkumar
29.	16UCH3092	MANI S	S. Mani
30.	16UCH3093	MANIGANDAN A	A. Manigandan
31.	16UCH3094	MARUDUPANDI M	M. Marudupandi
32.	16UCH3095	MOHANKUMAR M	M. Mohankumar
33.	16UCH3096	MUNIRAJ S	S. Muniraj
34.	16UCH3097	MUNIYAPPAN M	M. Muniyappan
35.	16UCH3098	MURALI K	K. Murali
36.	16UCH3099	MURUGAN M	M. Murugan
37.	16UCH3101	MUTHU KRISHNAN M	M. Muthu Krishnan
38.	16UCH3102	NANTHAKUMAR M	M. Nanthakumar
39.	16UCH3103	NAVEENKUMAR K	K. Naveenkumar
40.	16UCH3104	NAVEENKUMAR M	M. Naveenkumar
41.	16UCH3105	PALANISAMY M	M. Palanisamy
42.	16UCH3106	POOMANI K	K. Poomani
43.	16UCH3107	PRABAGARAN M	M. Prabakaran
44.	16UCH3108	PRABAKARAN S	S. Prabakaran
45.	16UCH3109	PRAKASH J	J. Prakash
46.	16UCH3110	PRAKASH M	M. Prakash
47.	16UCH3111	PRAKASH R	R. Prakash



48	16UCH3112	PRAKASH R	R. Prakash
49	16UCH3114	PRAVEENKUMAR T	T. Praveen
50	16UCH3115	PUGAZHENTHI S	Pugazhenti S.
51	16UCH3116	RANJITH KUMAR S	Ranjith K.
52	16UCH3117	SABARI M	S. Sabari
53	16UCH3118	SAGADEVAN M	S. Sagadevan
54	16UCH3119	SAKTHI A	S. Sakthi
55	16UCH3120	SAKTHIPRIYAN A	S. Sakthipriyan
56	16UCH3121	SANJUV KUMARAN P	P. Sanjuv
57	16UCH3122	SANTHOSH K	S. Santhosh
58	16UCH3123	SASIKUMAR M	M. Sasikumar
59	16UCH3124	SATHISH M	M. Sathish
60	16UCH3125	SATHISH P	P. Sathish
61	16UCH3126	SATHISHKUMAR S	S. Sathishkumar
62	16UCH3127	SEENU M	M. Seenu
63	16UCH3128	SINGARAVELAN S	S. Singaravelan
64	16UCH3129	SIVAKUMAR M	M. Sivakumar
65	16UCH3130	SUMAN M	M. Suman
66	16UCH3131	SURENDAR B	B. Surender
67	16UCH3133	SURYAPRAKASH K	K. Suryaprakash
68	16UCH3134	TAMILARASAN M	M. Tamilarasan
69	16UCH3135	TAMILARASU P	P. Tamilarasu
70	16UCH3136	THIRUNAVUKARASU M	M. Thirunavukarasu
71	16UCH3137	THIRUPATHI A	A. Thirupathi
72	16UCH3138	UMASHANKAR.J	J. Umashankar
73	16UCH3139	VEERAMANI R	R. Veeramani
74	16UCH3141	VELUMANI M	M. Velumani
75	16UCH3142	VENGATESH G	G. Vengatesh
76	16UCH3143	VIGNESH T	T. Vignesh
77	16UCH3144	VIJAYAKUMAR M	M. Vijayakumar
78	16UCH3145	VINOTH S	S. Vinoth
79	16UCH3146	VISHNU C	C. Vishnu
80	16UCH3147	ASHA MARY.J	J. ASHA MARY
81	16UCH3148	CHITRA A	A. Chitra
82	16UCH3149	HANISHA.S	S. Hanisha
83	16UCH3150	JOTHI M	M. Jothi
84	16UCH3151	KEERTHIKA G	G. Keerthika
85	16UCH3152	KOKILA R	R. Kokila
86	16UCH3153	MAGESWARI M	M. Mageswari
87	16UCH3154	MARSLINE LEGEY MARY S	S. MARSLINE LEGEY MARY S
88	16UCH3155	POOVARASI.P	P. Poovarasi
89	16UCH3156	PRIYA C	C. Priya
90	16UCH3157	PRIYA L	L. Priya
91	16UCH3158	SARITHA V	V. Saritha
92	16UCH3159	VARADHALAKSHMI K	K. Varadhalakshmi
93	16UCH3160	YUVARANI B	B. Yuvarani
94	16UCH1544	PRAKASH K	K. Prakash
95	16UCH2166	SIVA S	S. Siva

