DEPARTMENT OF PHYSICS DEVA MATHA COLLEGE, KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



REPORT

of

ADD-ON COURSE

in

LED LIGHT – MECHANICAL ASSEMBLY

(Conducted for II DC Physics students)

Academic Year: 2018-19

Add-on Course in

LED light - Mechanical Assembly

Duration: 30 hours

Number of students enrolled : 25

The Physics Department of Deva Matha College Kuravilangad has organised an Add-on Course in LED light - Mechanical Assembly for the II DC Physics students of the college. 25 students registered and successfully completed the course. The course was conducted during the months of November, December, January and February . Resource Persons who engaged the classes were renowned in the respective area. The course is of 30 hours duration with practical sessions.

Course Objectives

- To familiarize electronic components and the procedure of soldering
- To provide fundamental understanding of LED
- To practice the knowledge gained in assembling various LED luminaries such as LED bulb, LED tube light etc.

<u>Syllabus</u>

Module 1 (2 hrs)

Introduction and understanding safety procedure & preventive measures against electrical accidents

Module 2 (4 hrs)

Awareness of electronic components, pick & place process, soldering

Module 3 (10 hrs)

Hobby circuit design and assembling – Clap Switch, Burglar Alarm, Water Level Indicator, Automatic Night Lamp

Module 4 (4 hrs)

LED Basics : Operating voltage & current, Thermal Management, Array configuration

Module 5 (10 hrs)

Driver selection & All the aspects related to LED Luminary Assembly

Course Outcome

- The students get a rigorous idea about various electronic components and the procedure of soldering.
- The students acquire basic understanding of the principle behind light emitting diode.
- The students get hands-on training in assembling various LED luminaries such as LED bulb, LED tube light etc. that promotes their employability and entrepreneurial skills.

Mode of Evaluation

Attendance and Examination

Sl. No.	Class No.	Name	Department
1	215	ABEL SAJI	CHEMISTRY
2	217	ALWIN GEORGE	u
3	219	AMAL MURALI	u
4	221	ANANDAKRISHNAN H	и
5	512	ADARSH MATHEW	u
6	517	ALBIN M SEBASTIAN	ECONOMICS
7	539	DIMPLE CHERIYAN	и
8	521	JITTO MATHEW	u
9	525	SAURAFKUMAR P	u
10	526	SAVIO BENNY	u
11	549	SREEHARI M S	u
12	619	AMAL ISSAC	ENGLISH
13	702	AJITH K S	MALAYALAM
14	704	JOMY SEBASTIAN	u
15	12	ALBIN THOMAS	MATHEMATICS
16	16	ASHIK RAJEEV	u
17	130	RISHI KISHORE	PHYSICS
18	116	DIBIN DOMINIC	и
19	114	BOBBY MATHEW	и
20	463	ANANDHU K S	ZOOLOGY
21	407	ANUMARIA BENNY	u
22	412	ASWATHY T N	u
23	456	ASWIN ROY	и
24	421	SANGEETHA FRANCIS	u

List of Students Enrolled

25 350 ANOMOLISANTITOSTI BOTANT	25	336	BUTANY

No. 456 421 336 Class No. 116 114 463 407 412 539 521 525 526 526 526 549 619 702 704 704 12 130 512 215 217 219 221 RISHI KISHORE DIBIN DOMINIC SAVIO BENNY SREEHARI M S ANUMOL SANTHOSH ASWIN ROY SANGEETHA FRANCIS ASWATHY T N ANUMARIA BENNY ANANDHU K S BOBBY MATHEW ASHIK RAJEEV ALBIN THOMAS AJITH K S SAURAFKUMAR P JOMY SEBASTIAN AMAL ISSAC ALBIN M SEBASTIAN ADARSH MATHEW ANANDAKRISHNAN H AMAL MURALI ALWIN GEORGE ABEL SAJI JITTO MATHEW DIMPLE CHERIYAN Name ADD-ON COURSE : LED LIGHT - MECHANICAL ASSEMBLY (2018-2019) DEVA MATHA COLLEGE KURAVILANGAD 3 DEPARTMENT OF PHYSICS Ł MATHEMATICS MALAYALAM ECONOMICS CHEMISTRY Department ZOOLOGY ENGLISH BOTANY PHYSICS 2 * ŧ. 5/11/200 Þ ¢ 8 3

Attendance Sheet

Photo



Marklist

SI. No.	Class No.	Name	Marks
			25/25
1	215	ABEL SAJI	24/25
2	217	ALWIN GEORGE	24/25
3	219	AMAL MURALI	25/25
4	221	ANANDAKRISHNAN H	25/25
5	512	ADARSH MATHEW	25/25
6	517	ALBIN M SEBASTIAN	24/25
7	539	DIMPLE CHERIYAN	25/25
8	521	JITTO MATHEW	24/25
9	525	SAURAFKUMAR P	24/25
10	526	SAVIO BENNY	24/25
11	549	SREEHARI M S	25/25
12	619	AMAL ISSAC	25/25
13	702	AJITH K S	24/25
14	704	JOMY SEBASTIAN	25/25
15	12	ALBIN THOMAS	24/25
16	16	ASHIK RAJEEV	24/25
17	130	RISHI KISHORE	25/25
18	116	DIBIN DOMINIC	24/25
19	114	BOBBY MATHEW	25/25
20	463	ANANDHU K S	25/25
21	407	ANUMARIA BENNY	24/25
22	412	ASWATHY T N	24/25
23	456	ASWIN ROY	24/25
24	421	SANGEETHA FRANCIS	24/25
25	336	ANUMOL SANTHOSH	24/25

DEVA MATH	A COLLEGE KURAV	LANGAD
	AC Re-Accredited 'A' Grade College	
	v.devamatha.ac.in , E-Mail: principaldmck@gmai	Leom
		10000
Add-o	n Course Certific	ate
This is to	certify thatDIBINDOMINIC	Department of
PHYSICS	has successfully completed the short ter	rm Multi-disciplinary Add-on-Course
uided: <u>CED LICANT</u> , Mecho	inical Assembly	
conducted by the Department of	PHYSICS during	the academic year 2018-2019.
He/She has passed	the add-on course withGrade.	
0.	At	AM-1141
Kuraydangad General Co-ord	inator Department Co-ordinator	Dr Jojo K Joseph
July 2019	STATE NO	Principal

Dr. Saritha K Jose Add-on Course Coordinator Department of Physics



mittather-

Principal Deva Matha College Kuravilangad - 686 633