

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: 2019-20

Add-on Course in

LED light - Mechanical Assembly

Duration: 30 hours

Number of students enrolled : 22

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. 22 students registered and successfully completed the course. The course was conducted during the months of November, December and January . 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.

Syllabus

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

List of students enrolled

Sl. No.	Class No.	Name	Department
1	905	SURYANANDH K S	B. COM.(SF)
2	915	ALBIN SIBY	B. COM.(SF)
3	917	ASWIN V A	B. COM.(SF)
4	920	AVINASH PRAKASH	B. COM.(SF)
5	922	DEREK MATHEW	B. COM.(SF)
6	927	JITHU JOHN	B. COM.(SF)
7	934	NEERAJ KUMAR K.	B. COM.(SF)
8	1111	AJOY JOSE	B. COM.(SF)
9	1112	ALAN JOSEPH K	B. COM.(SF)
10	1113	ALBIN SIBY	B. COM.(SF)
11	1115	AMAL P V	B. COM.(SF)
12	820	ALBIN TOMY	B. COM.
13	821	ANAND ALEX	B. COM.
14	831	JOSHWIN JOHNSON	B. COM.
15	209	ALPHIA S.	CHEMISTRY
16	214	P. BHUVANESWARY	CHEMISTRY
17	218	ABIN KURIAN	CHEMISTRY
18	521	JIGO P. JOHNY	ECONOMICS
19	102	ARAVIND K R	PHYSICS
20	104	JIBIN SUNNY	PHYSICS
21	107	LITHIN GEORGE	PHYSICS
22	125	KANIVE MATHEW	PHYSICS

PHOTOS





Marklist

Sl. No.	Class No.	Name	Marks
1	905	SURYANANDH K S	25/25
2	915	ALBIN SIBY	24/25
3	917	ASWIN V A	25/25
4	920	AVINASH PRAKASH	25/25
5	922	DEREK MATHEW	25/25
6	927	JITHU JOHN	24/25
7	934	NEERAJ KUMAR K.	25/25
8	1111	AJOY JOSE	24/25
9	1112	ALAN JOSEPH K	24/25
10	1113	ALBIN SIBY	24/25
11	1115	AMAL P V	25/25
12	820	ALBIN TOMY	25/25
13	821	ANAND ALEX	24/25
14	831	JOSHWIN JOHNSON	25/25
15	209	ALPHIA S.	24/25
16	214	P. BHUVANESWARY	24/25
17	218	ABIN KURIAN	25/25
18	521	JIGO P. JOHNY	24/25
19	102	ARAVIND K R	25/25
20	104	JIBIN SUNNY	25/25
21	107	LITHIN GEORGE	24/25
22	125	KANIVE MATHEW	25/25

DEVA MATHA COLLEGE KURAVILANGAD

Re-Accredited by NAAC with 'A' Grade

Website: www.devamatha.ac.in, E-Mail: principaldmck@gmail.com



Certificate

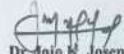
This is to certify that ALBIN SIBY Department of
Commerce has successfully completed the short term multi-disciplinary Add-on-Course
titled LED Bulb Assembling
conducted by the Department of Physics during the academic year 2019-2020.
He/She has passed the add-on Course with S Grade.

Kuravilangad
April 2021


General Co-ordinator


Department Co-ordinator




Dr. Dojo K. Joseph
Principal






Dr. Saritha K Jose

Add-on Course Coordinator

Department of Physics


Principal
Deva Matha College
Kuravilangad - 686 633