

**DEPARTMENT OF PHYSICS**  
**DEVA MATHA COLLEGE KURAVILANGAD**

**Affiliated to Mahatma Gandhi University, Kottayam**

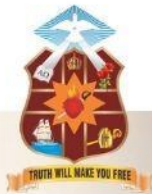


**REPORT**  
**OF**  
**ADD-ON COURSE**  
**IN**  
**LED LIGHT – MECHANICAL ASSEMBLY**

*(Conducted for II DC Physics students)*

**Academic Year : 2022-2023**

Brochure



**DEVA MATHA COLLEGE KURAVILANGAD**

**DEPARTMENT OF PHYSICS**

***Add on Courses offered for Students : 2022-2023***

**1. LED Light- Mechanical Assembling :**

**DMCK/ PHY/AD 15/2022**

**2. Introduction to Python :**

**DMCK/ PHY/AD 16/2022**



***Department Coordinator: Dr. Saritha K. Jose***

**Add-on Course in**  
**DMCK/PHY/AD15/2022 : LED light - Mechanical Assembly**

Duration: 30 hours

Number of students enrolled : 14

**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**

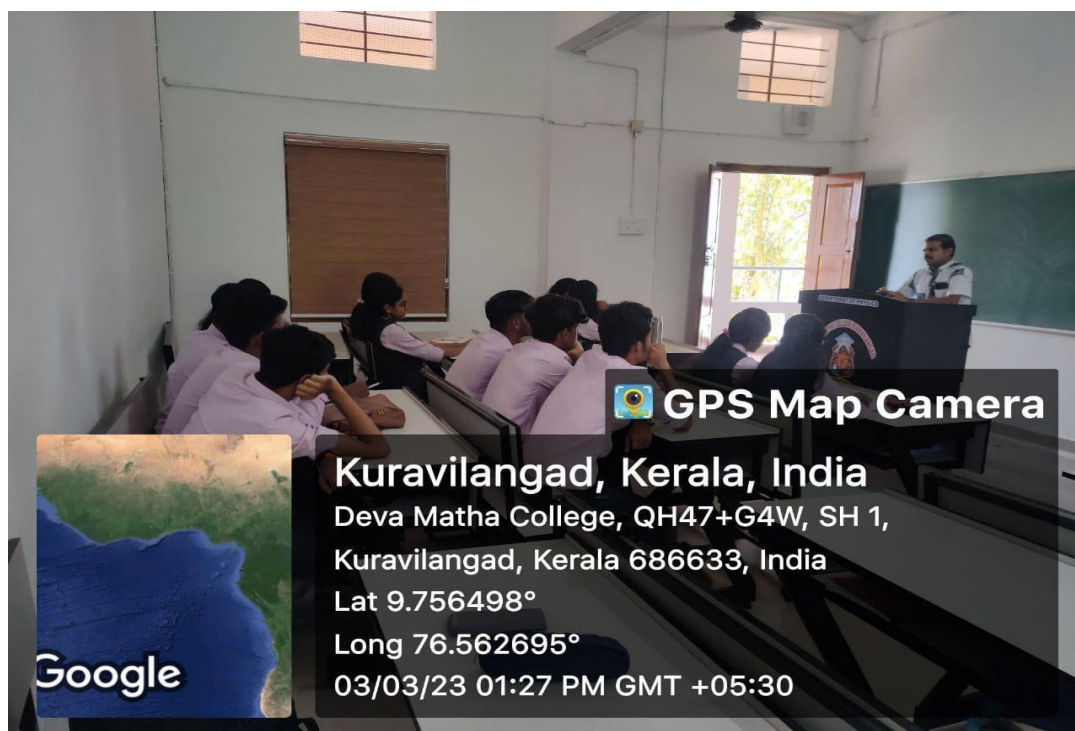
- The students get a rigorous idea about various electronic components and the procedure of soldering.
- The students acquire basic understanding of the principle behind light emitting diode.
- The students get hands-on training in assembling various LED luminaries such as LED bulb, LED tube light etc.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

**Mode of Evaluation**

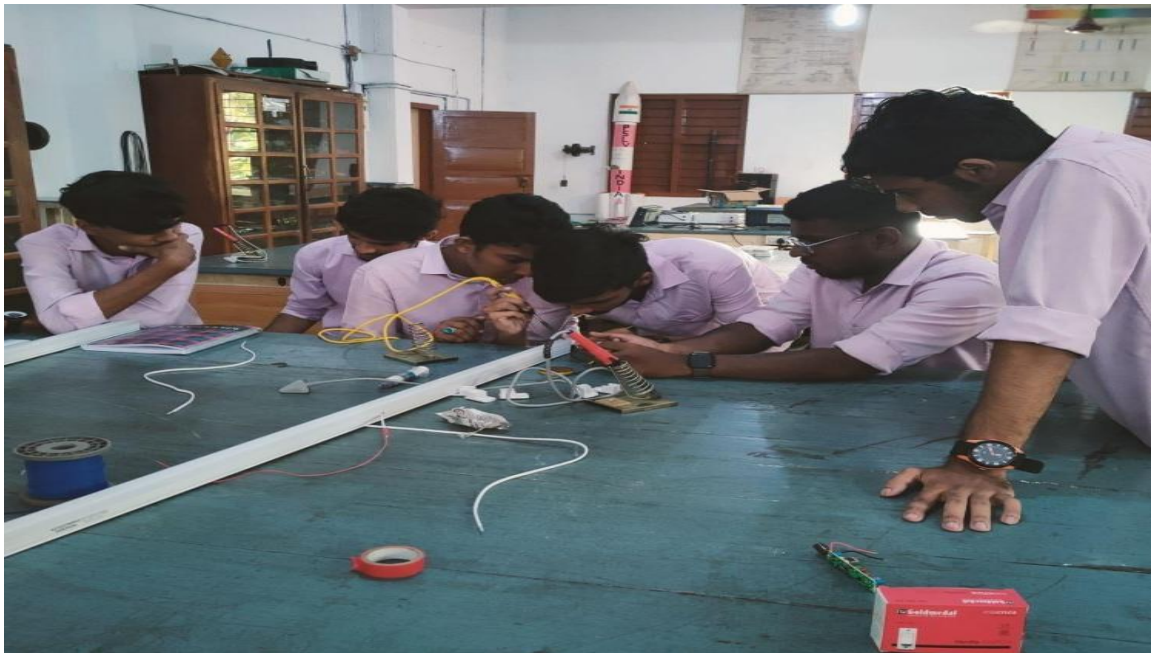
Attendance and Examination

### List of students enrolled

Sl. No.	Class No.	Name
1	21UG101	THOMSON VARGHESE
2	21UG103	ANNA BENNY
3	21UG104	ANOOJA JAYACHANDRAN
4	21UG105	APARNA R
5	21UG106	RELEN BOBY
6	21UG107	AKASH SHIBU
7	21UG108	ALVIN SHOMY
8	21UG109	EDWARD SHAJI
9	21UG110	JITHIN DEV.R
10	21UG111	ABHIRAMI LAKSHMI
11	21UG113	ANUSREE A NAIR
12	21UG114	CELIN P. BOBY
13	21UG115	CHRISTY ALEX MARTIN
14	21UG117	SHARON TOMY









Timestamp	1. Name	2. Class No.	3. How do you rate the course as a whole?	4. How do you rate the co-ordination of the course by the Department of Physics?	5. How do you rate the usefulness of this course?
6/14/2023 11:53:24	Christy Alex Martin	115	4	4	4
6/14/2023 12:37:45	Anusree A Nair	113	5	5	5
6/14/2023 16:23:06	Sharon Tomy	117	4	5	5
6/14/2023 17:00:16	Thomson Varghese	21UG101	4	4	4
6/14/2023 17:05:34	Aparna R	105	5	5	5
6/14/2023 17:14:24	Edward Shaji	109	4	3	5
6/15/2023 15:21:46	Alvin Shomy	108	4	4	4
6/15/2023 20:01:02	Anna Benny	103	4	5	5
6/15/2023 20:16:21	Anooja Jaychandran	21UG104	5	5	5
6/16/2023 21:16:49	Abhirami lakshmi	11	3	3	3
6/16/2023 21:16:52	Celin P Boby	21UG106	5	5	5
6/16/2023 23:15:38	Relen Boby	21UG114	5	5	5
6/17/2023 20:16:21	Jithin Dev R	21UG110	4	5	5
6/17/2023 20:18:24	Akash Shibu	21UG107	5	4	5

## Exam Marklist

Sl. No.	Class No.	Name	Marks obtained
1	21UG101	THOMSON VARGHESE	30/30
2	21UG103	ANNA BENNY	30/30
3	21UG104	ANOOJA JAYACHANDRAN	29/30
4	21UG105	APARNA R	30/30
5	21UG106	RELEN BOBY	30/30
6	21UG107	AKASH SHIBU	28/30
7	21UG108	ALVIN SHOMY	28/30
8	21UG109	EDWARD SHAJI	28/30
9	21UG110	JITHIN DEV.R	30/30
10	21UG111	ABHIRAMI LAKSHMI	29/30
11	21UG113	ANUSREE A NAIR	30/30
12	21UG114	CELIN P. BOBY	28/30
13	21UG115	CHRISTY ALEX MARTIN	28/30
14	21UG117	SHARON TOMY	30/30



## CERTIFICATE (SAMPLE COPY)



# DEVA MATHA COLLEGE KURAVILANGAD

Re-Accredited with 'A' Grade (CGPA 3.23) by NAAC in 2017  
Affiliated to Mahatma Gandhi University, Kottayam  
Website: [www.devamatha.ac.in](http://www.devamatha.ac.in), E-Mail: [principaldmck@gmail.com](mailto:principaldmck@gmail.com)



## Certificate

This is to certify that **Anusree A. Nair** has successfully completed the Add-on Programme titled **LED Light - Mechanical Assembly (DMCK/ PHY/AD 15/2022)** conducted by the Department of Physics, Deva Matha College Kuravilangad during the academic year 2022-23 with 'A' grade.

*Certificate No: 506*

*Kuravilangad*  
31-03-2023

*Dr. Saritha K. Jose*  
Programme Co-ordinator

*Dr. Brincy Mathew*  
General Co-ordinator

*Dr. Sunil C. Mathew*  
Principal



**Dr. Saritha K Jose (Co-ordinator)**  
**Asst. Professor in Physics**  
**Deva Matha College Kuravilangad**



  
Principal  
Deva Matha College  
Kuravilangad - 686 633