

**Activity Report: Academic Year 2023- 24****Activity Name: Assembling and Maintenance of LED Lamps**

Department /Committee / Club : Physics			
Name of the Co-Ordinator	Venue	Day & Date	Time
Dr Soosen Samuel M	Department of Physics	22nd March - 27th March 2024	9.30 am to 3 pm
Number of Participants 19	Nature: Outdoor/ Indoor/ Online Indoor	Type Of Activity: Academic/ Extension/ Student Progression/ Student Support/ Environment/ Gender/ Days/ Enrichment/ Other (Specify): Extension Activity	
Scheduled/ Unscheduled	Funding Source: Self/ Sponsored /NGO /Industry/ Exchanges/Others. IGNOU and Department of Physics		
Amount: 10000/-	Chief Guest: South Zone Regional director of IGNOU		

BRIEF INFORMATION ABOUT THE ACTIVITY

Topic/ Subject of the Activity	One week training programme on “ Assembling and Maintenance of LED Lamps”
Objectives	Empowering community
Methodology	Hands on training
Outcomes	Empowerment and Skill Development, Economic Opportunities, Community Development

PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

Notice & Letters	List of Participants	Activity Report	Geo Tagged Photos	Feedback Form
Feedback Analysis	News Clip with details	Certificate	Any Other	

IQAC Document No: 11/PHY/2023-24	Criterion No:	NAAC Metric No:
Departmental File No: CCP-PHY-SSP-03	IQAC File No: CCP/IQAC/24	International/National/Regional REGIONAL

Name of Teacher & Signature with Date	Name of Head/ Committee Incharge & Signature with Date	IQAC Coordinator (Seal & Signature)
Dr Soosen Samuel M	Dr. Dhanya I	Dr. George Thomas 

PG & Research Department of Physics Catholicate College, pathanamthitta

**Towards Responsible Urban Development
A Quality Initiative Programme of IQAC**



EMPOWERING COMMUNITIES



WORKSHOP AND TRAINING ON “ASSEMBLING AND MAINTENANCE OF LED LAMPS”

From 22 nd to 27 th March

***In association with IGNOU Regional Centre, Trivandrum
Vallicode Grama Panchayat and IQAC Catholicate College***

Venue: Department of Physics, Catholicate College, Pathanamthitta

**Dr Dhanya I
Head of the Department**

**Dr Soosen Samuel M
Program Co ordinator**

**Dr Sindu Jones
Principal**

**Dr M Rajesh
Senior Regional Director**

**Dr T R Satyakeerthy
Asst. Regional Director**



इंदिरा गांधी राष्ट्रीय मुक्त विश्वविद्यालय INDIRA GANDHI NATIONAL OPEN UNIVERSITY Regional Centre, Trivandrum

Unnat Bharath Abhiyan

IGNOU Regional Centre Trivandrum Innovation Hub in association with Vallicode Grama Panchayat and Department of Physics, Catholicate College, Pathanamthitta is organizing

Workshop and Training on
“Assembling and Maintenance of LED lamps”

From 22nd to 27th March 2024

Venue: Catholicate College, Pathanamthitta

Workshop and Training Report: Assembling and Maintenance of LED Lamps

Organizers: Department of Physics, Catholicate College, Pathanamthitta & Indira Gandhi Open University, Trivandrum Region, Vallicodu Panchayath, Pathanamthitta

Theme: Community Empowerment

Date: 22nd March - 27th March 2024

Venue: Physics Department, Catholicate College, Pathanamthitta

Introduction: In a bid to empower women residing in rural areas and enhance their skills in sustainable technology, the Department of Physics at Catholicate College, in collaboration with Indira Gandhi Open University, organized a workshop and training session on assembling and maintenance of LED lamps. The overarching goal of this initiative was to equip village women with practical skills that not only contribute to their economic independence but also promote environmentally friendly practices.

Objectives:

1. To provide hands-on training in the assembly of LED lamps.
2. To educate participants on the maintenance and repair of LED lamps.
3. To empower women through skill development and income generation opportunities.
4. To promote sustainable technology adoption in rural communities.

Participants: The beneficiaries of this workshop were village women residing in the Vallicodu Panchayath area. The selection process prioritized women who were keen on learning new skills and contributing to their households' income generation.

Workshop Highlights: The workshop commenced on the 22nd of March and spanned across six days until the 27th of March 2024. Each day was meticulously planned to cover various aspects of LED lamp assembly and maintenance.

Introduction to LED Technology: The first day focused on introducing participants to LED technology, its benefits, and its applications. Basic electrical concepts were explained to ensure a foundational understanding for all participants.

Hands-on Assembly Session: Participants engaged in a practical session where they learned the step-by-step process of assembling LED lamps. They were provided with kits containing necessary components, and under the guidance of experienced instructors, they successfully assembled their own LED lamps.

Maintenance and Troubleshooting: This day was dedicated to teaching participants about the maintenance of LED lamps and troubleshooting common issues. Emphasis was placed on safety precautions and the importance of regular maintenance to ensure longevity and efficiency of the lamps.

Practical Application and Skill Refinement: Participants were given the opportunity to apply their newly acquired skills by assembling additional LED lamps. They were encouraged to work independently with minimal guidance, thereby enhancing their confidence and proficiency.

Assessment and Certification: The final day included an assessment to evaluate participants' understanding and competency in assembling and maintaining LED lamps. Upon successful completion, participants were awarded certificates of participation, recognizing their dedication and achievement.

Outcome: The workshop proved to be a resounding success, with participants expressing gratitude for the valuable skills gained. Many participants expressed their intentions to utilize their newfound knowledge to either start their own small-scale businesses or contribute to existing ventures in their communities. Furthermore, the workshop fostered a sense of empowerment and camaraderie among the participants, who left with enhanced confidence and a deeper understanding of sustainable technology.

Conclusion: The workshop and training on assembling and maintenance of LED lamps organized by the Department of Physics, Catholicate College, in collaboration with Indira Gandhi Open University, served as a catalyst for women's empowerment in the Vallicodu Panchayath area. By equipping participants with practical skills and knowledge, the initiative not only enhanced their employability but also contributed to the overall socio-economic development of the community. Such endeavors underscore the importance of education and skill development in fostering inclusive growth and sustainable development.



