

Report on
Hands-on workshop on 'AC-DC Inverter LED bulb assembly'

20, 21 September 2021
Organized by Department of Physics
St. Joseph's College (Autonomous) Irinjalakuda

A two-day workshop on Hands-on workshop on 'AC-DC Inverter LED bulb assembly' was organized by the Department of Physics, St. Joseph's College (Autonomous) Irinjalakuda on 20th and 21st September 2021. The main objective of the workshop was to manufacture a high-performance inverter LED bulb in bulk quantity in a cost-effective way and to develop electronic skills in the participants. The programme also aimed to make the community aware about the importance and usefulness of energy efficient devices. The workshop adopted the processes such as lecture session, demonstration-cum-discussion and group work.

The workshop started with an inauguration ceremony and was inaugurated by Dr. Sr. Asha Therese, Principal, St. Joseph's College (Autonomous) Irinjalakuda. Mr. Thomas P J, Technical instructor of Electronics at Victory Institute, Irinjalakuda, graced the occasion as the resource person of the programme. The programme was felicitated by the Head of Department of Physics, Ms. Mary Gisby Poulose. There were 55 numbers of participants who made the workshop a great success. The programme was conducted from 9.30 a.m. to 4.30 p.m. each day.

The workshop started with a class on electronics in which Mr. Thomas deeply explained about the applications of electronics in our homes. He mentioned how participants would be benefited from this kind of programme by making our own contributions to repair electrical appliances in our own houses. He gave the participants general awareness about lab maintenance, electrical components, practical applications etc. It was a lively interactive session. The participants could easily make out the fundamentals of electronic components. During the post-lunch session, participants were given training of soldering wires using a soldering iron and solder wire and how to connect them to a rechargeable battery. Also, participants were also trained to find the resistance value of resistors based on their color code using an app.

On the second day of the workshop, during the pre-lunch session, Mr Thomas demonstrated how to make an inverter LED bulb by explaining each and every component of it such as lens, LED chips, driver board, housing, B22 base, etc. Participants put in their efforts to make 25 inverter LED bulbs.

It was a great opportunity for the participants to develop practical skills. The workshop was concluded with a valedictory session. Mary Gisby Poulouse congratulated all for the participants for the successful completion of the entire program. At the end of the session, feedback was provided by the students and teachers. The manufactured bulbs were contributed to the local community.




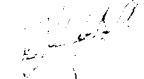
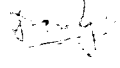

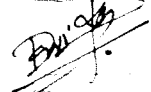
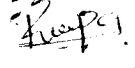


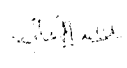

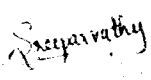
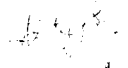
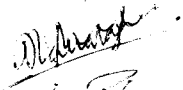

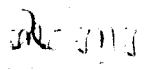

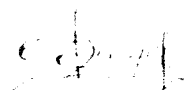



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Irinjalakuda on
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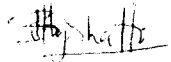


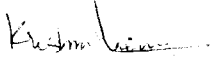
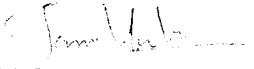

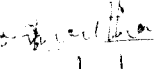
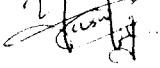
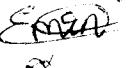

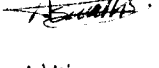
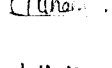
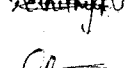
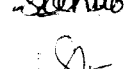

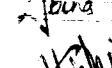

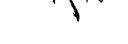
Sl. No.	Name of Participant	Signature
1	SUSEN JOSE	
2	Juchna J.J.	
3	MARINA ALVATHANICAL STEPHEN	
4	MARINA ALVATHANICAL STEPHEN	
5	DEVIKA.M	
6	ROOPA RAJEEV.P	
7	ALEENA KJ	
8	PRAMITHA AP	
9	ANUSHA K.P	
10	Christi Maria	
11	Sreepavathy.K	
12	ANUSHA K.P	
13	Mania Varghese T	
14	AKHILA RAPHAEL	
15	NARIDANI JITHON	
16	SARA T RAPHAEL	
17	ADVA K.S	
18	AMEENA SHIRIN V R	

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Sl. No.	Name of Participant	Signature
19	BILLY SHATTC	
20	ARCHANA V P	
21	Vinasha Varghese	
22	Krishnaveni C R	
23	WINIYA IONATHAS	
24	Aanya Uyas	
25	Anusutha . P . M	
26	Yasmi Johnson	
27	Emrin Jacob	
28	Aiswasya . V . S	
29	Aswathi P R	
30	Uthara Uday	
31	Adhithya V N	
32	Stinu Sebastian	
33	Iyothika Sekhor	
34	Abina Anto	
35	Krishnapriya T.L	
36	Anya Sami.	

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37	SANIGHA. T T	Sanigha
38	Aleena A S	Aleena
39	Nikitha P.R	Nikitha
40	Akhila Ramesh	Akhila
41	Edna Mary Antony	Edna
42	Surabhi M. Sibi	Surabhi
43	Amalakshmi. K R	Amalakshmi
44	Ansita NH	Ansita
45		
46	Naila. V Y	Naila
47	Annamaria Shaiju	Annamaria
48	Arjunaz Sureshchandra	Arjunaz
49	Kristika P	Kristika
50	Dena Masiya	Dena
51	Midhila. M.s	Midhila
52	Sangamitha. R	Sangamitha
53	Christa Davis	Christa
54	Fahema T.K	Fahema
55	Aparna Sivan	Aparna

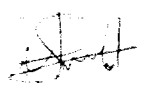



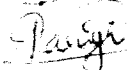

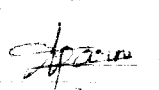




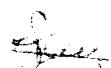
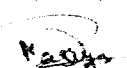
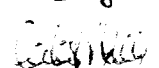




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1.	Johnellus Anthony	
2.	AMEENA SHIRIN V R	
3.	ELLY SIMIC	
4.	Vishva Varghese	
5.	Tasya Ignatius	
6.	Anchana V P	
7.	Aparna Sivan	
8.	Arya Ullas	
9.	Shahana Shamsudheen	
10.	Jyothika Shekhar	
11.	Abhijith V. Jayadevan	
12.	Jose T Raphael	
13.	MARIYA ALAVATHINGAL STEPHAN	
14.	LAKSHMI.K.K.	
15.	DAEN JOSE	
16.	Amritha M	
17.	Shanishan	
18.	Christa Davis	

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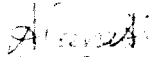



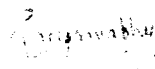
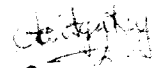


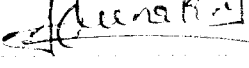

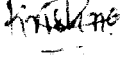
Sl. No.	Name of Participant	Signature
19	Uthara Uday	Uthara
20	Akhila Karanth	Akhila
21	Kaishrapriya T.L	Kaishrapriya
22	Anshika N.A	Anshika
23	Aiswarya-V.S	Aiswarya
24	Adithyana V.M	Adithyana
25	Aseetha P.R	Aseetha
26	SANDRA M BABU	Sandra
27	Emrin Jacob	Emrin
28	Aayalashree K.R	Aayalashree
29	Karthika P	Karthika
30	Midhila M.S	Midhila
31	Annamma Sridha	Annamma
32	Naila V.Y	Naila
33	Sangamitha R	Sangamitha
34	Stinu Sebastian	Stinu
35	Alina Anto	Alina

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37	Pravitha AP	
38	Nikitha P.R	
39	Aarna AS	
40	Arya Sunil	
41	NANDANA TOMON	
42	ARYA K.S	
43	SREEPARVATHY K	
44	Adithya Raj T.	
45	Sanjana TT	
46	Roopa Rajeev P	
47	Aleena K.J	
48		
49		
50		
51	AKHILA RAPHAEL	
52	KRISHNAVENI CR	
53	Fahanna T.k	