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Shirur Shikshan Prasarak Mandal's
Chandmal Tarachand Bora College Shirur
Dist. Pune - 412 210

Department of Physics and B.Voc. (Renewable Energy)

Organized one day workshop on

“Manufacturing of AC-DC Rechargeable LED Bulb”

Under

DBT Star College Scheme

(29th March, 2022)

Report

As the world is heading towards severe energy crisis, there is an ever-increasing need for alternate energy resources and energy efficient devices. One particular field, which has witnessed tremendous breakthroughs, in terms of energy efficiency, is Light emitting diodes (LED). The LED is today's highly energy-efficient lighting technology, and has the potential to fundamentally change the future of lighting in the world. The LED light bulbs last longer, are more durable, and offer better light quality than other types of lighting. Widespread use of LED lighting has a large potential impact on energy savings in the world. The rapid development of LED technology has resulted in increased product availability, improved manufacturing efficiency, and lower prices. In order to enhance the technical knowledge of students, as well as enable them to assemble and repair the LED bulbs, the Department of Physics is organized one-day hand-on skill development workshop on 'Manufacturing of AC-DC Rechargeable LED Bulb' on 29th March, 2022 under DBT Star College Scheme.

The workshop begins with inauguration function in the morning 10.00 AM. The Principal, Dr. K. C. Mohite as a president of this workshop was in chair. They expressed their views on energy savings, upcoming technologies, business opportunities in the energy field and many more. Resource person, Dr. A. V. Rokade gave brief presentation on history of LED bulb, working and principal of LED bulb, components of LED bulb, repairing and manufacturing of LED bulb. As a coordinator of workshop, Dr. S. M. Pandharkar introduced resource person and taught on necessity of such hands-on training workshops. Dr. P. S. Veerkar, Head, Department of Chemistry; Prof. R. P. Ganorkar, afternoon session in-charge; Dr. D. H. Bobade, Physics Department, DBT star college scheme coordinator; Dr. N. M. Ghangaonkar, DBT star college scheme coordinator also expressed their views. The anchoring was done by Mr. S. B. Kawade and vote of thanks proposed by Mr. N. B. Shelke.

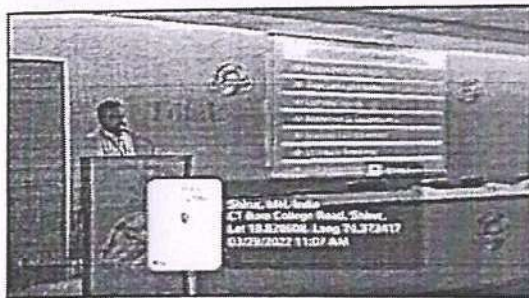
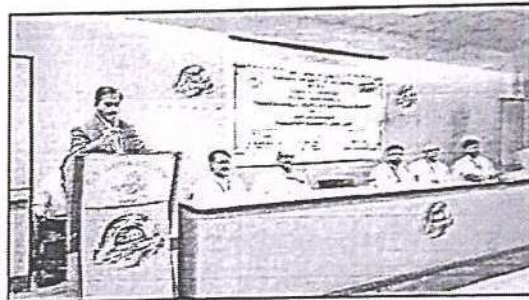


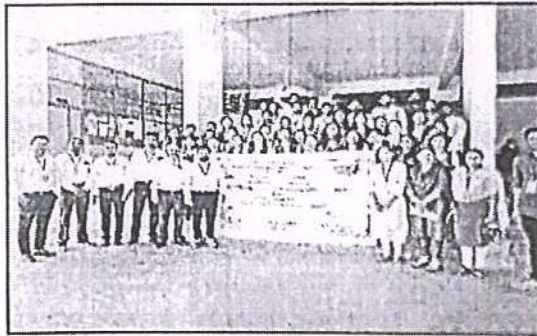
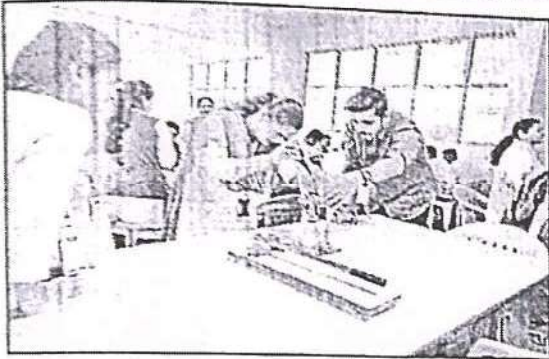
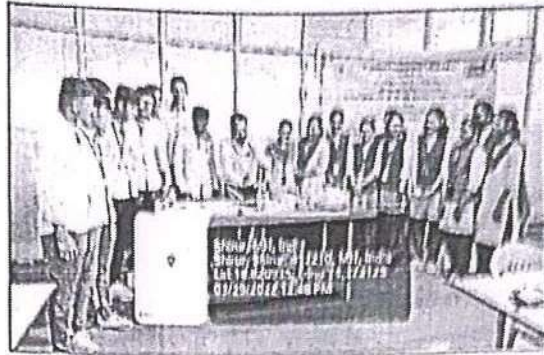
In the afternoon, demonstration and hands-on training session was conducted by Dr. A. V. Rokade. In this workshop around 90 students are participated and 75 LED bulbs successfully manufactured by students under supervision of experts. The learning outcome of this workshop is that the student was able to appreciate the need for energy efficient LED bulb and manufacture it. All the participated students are able to build and repair LED bulbs.

Expenditure of Workshop:

Sr. No.	Expenditure	Amount
1.	Workshop material cost	17640
2.	Remuneration for the resource person	5000
3.	Travelling allowance	1000
4.	Workshop banner	1120
5.	Flowers buckeye	300
6.	Food	420
Total:		25480

Few clicks of workshop day:





Bobade

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Mohite

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