LED lighting technology

2days – 3hr/day

Objective of the workshop and benefits

- Energy scenario and conservation
- Introduction
- The nature and behaviour of light

Introduction to LED & Types

- LED light intensity
- Colour spectrum versus current and operation temperature
- V-I characteristics of LED
- Rules for choosing good quality LEDs
- Latest advances in LED technologies
- LED selection for a particular application
- Lamp Components and its selection process
- Practical Experiment of checking and comparison of various parameters of various lamps
- Assembling of LED lamps
- Q & A

Led lighting:

- LED light bulbs can save you money not only because they are roughly 80% more energy efficient than other bulbs,
- they also produce far less heat than metal halides, CFLs, and incandescent light bulbs. Upgrading to LED lighting
- means you won't spend your summer months cooling down rooms that your light bulbs are busy heating up. While

- originally a cooler blue tone than incandescent bulbs, LEDs now come in daylight and warm white color
- temperatures so you can more easily replace your existing bulbs without altering the color of your room. LED
- lighting also offers a superior color rendering index (CRI), so you can see the colors of your artwork or makeup
- more accurately.
- LED replacement bulbs are durable and ecologically friendly. Did you know you can recycle LED bulbs and reduce
- your carbon footprint up to one third? LEDs outlast the competition, staying bright for up to 11 years of continuous
- operation. This means less time climbing ladders trying to replace those hard to reach bulbs in vaulted ceilings.

LEDs are one of today's most promising technologies.

No mercury, making them a cleaner alternative to fluorescent and CFL lamps.

The lowest energy consumption of any lighting product to date.

Light quality equal or superior to traditional lighting products.

Life that is 20 times than some traditional lighting products