

Activity: "Innovative Teaching Learning Pedagogy"

Date & Day: January 21, 2025 & Tuesday

Activity Name: Using Lux Meter to Measure Light Intensity during Illumination Lecture

Subject : Illumination Engineering (403152C)

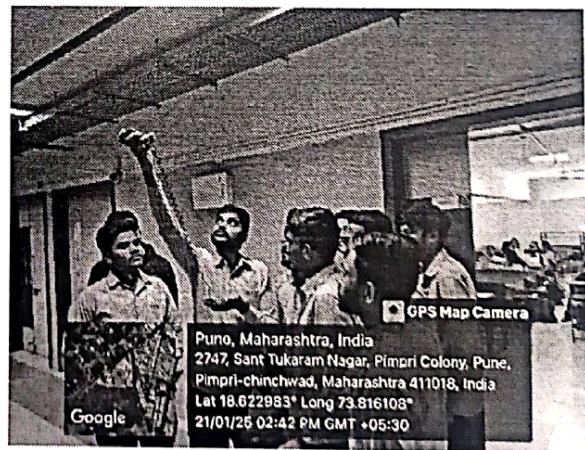
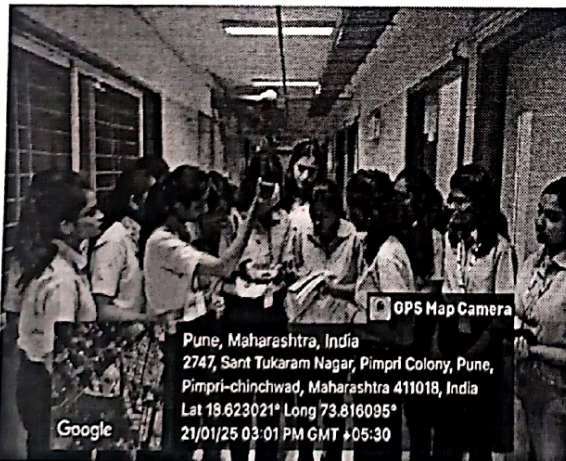
Venue: Basement Near Classroom BS01

Activity conducted by: Students of BE

Objectives:

The objective of this report is to explain the methodology and importance of using a Lux Meter to measure the intensity of light in the context of the illumination lecture. A Lux Meter is an instrument that measures the illuminance, or the intensity of light that falls on a given surface, expressed in lux (lx). This tool is fundamental in understanding the distribution and intensity of light sources, ensuring proper lighting in various environments, and offering students practical insight into the principles of light intensity during illumination studies.

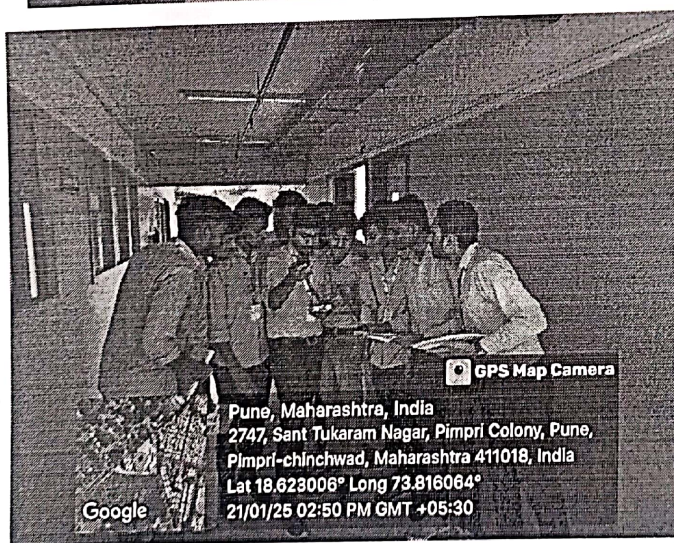
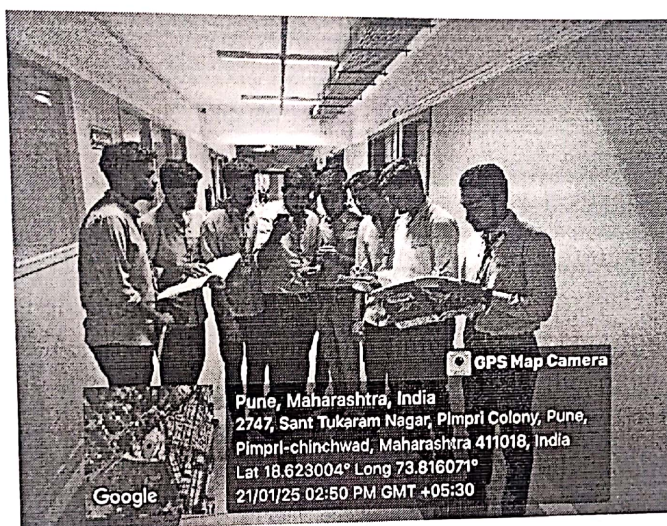
Photographs:



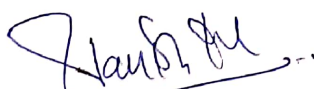
Outcome: The use of the Lux Meter in the illumination lecture provided a practical and visual demonstration of how light intensity is measured and how it changes with distance from the source. The experiment reinforced key concepts in optics, particularly the inverse square law of light, and allowed students to apply theoretical knowledge in a real-world context. In future lectures, further experiments could be introduced to explore the effects of different types of light sources, reflectivity, and environmental factors on light intensity. Additionally, using the Lux Meter in more complex setups (e.g., varying angles of incidence or light source types) will further enhance students' understanding of light measurement and illumination design.

6. Conclusion

The use of the Lux Meter in the illumination lecture provided a practical and visual demonstration of how light intensity is measured and how it changes with distance from the source. The experiment reinforced key concepts in optics, particularly the inverse square law of light, and allowed students to apply theoretical knowledge in a real-world context. In future lectures, further experiments could be introduced to explore the effects of different types of light sources, reflectivity, and environmental factors on light intensity. Additionally, using the Lux Meter in more complex setups (e.g., varying angles of incidence or light source types) will further enhance students' understanding of light measurement and illumination design.



Prepared by:


Pankaj Kumar
Assistant Professor



