



KLS Vishwanathrao Deshpande Institute of Technology

(Accredited by NAAC with "A" Grade)

(Approved by AICTE, New Delhi. Affiliated to VTU, Belagavi)

(Recognized Under Section 2(f) by UGC, New Delhi)

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Report on Activity-Based Learning – LED Bulb Assembly

The Department of Electrical & Electronics Engineering, KLS Vdit Haliyal organized an **Activity-Based Learning (ABL)** session for students with the objective of enhancing their **practical knowledge and technical skills**. In this activity, students were provided with various components required to assemble an LED bulb, including **LED chips, capacitors, housings, bulb holders, PC covers, connecting leads, and terminals**.

Under the guidance of faculty members, students successfully **assembled 100 LED bulbs** by interconnecting the individual components and tested their functionality. The hands-on session enabled students to **understand the working principle and internal construction of LED bulbs**, a device commonly used in everyday life.

This activity not only strengthened their understanding of **basic electronic components and circuits**, but also encouraged teamwork, problem-solving, and innovation. The practical exposure gained through this session will be highly beneficial for students in applying theoretical concepts to real-world applications.

Outcome:

Students gained hands-on experience in assembling and testing LED bulbs, improving their practical skills, component identification ability, and understanding of LED technology. The activity-based learning approach proved to be an effective method for bridging the gap between theoretical learning and practical application, fostering a deeper understanding of electrical and electronic systems among students.




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